



Apex Laboratories, LLC
6700 SW Sandburg St. Tigard, Oregon 97223
503.718.2323

**Level IV Data Package for
Anchor QEA, LLC
Gasco PreRD_DG2019 - 2a Surface Sediments
Apex Laboratories Work Order #:
A9I0771**

The information contained in this Data Package is intended solely for the purpose of validating client sample results submitted under the associated Chain of Custody(ies). An effort has been made to remove all traceable non-client data. Any incidental inclusion of non-client data is considered privileged and confidential information. The use of this information for any purpose other than data validation is strictly prohibited, and constitutes a breach of contract.

Table of Contents
A9I0771
(page 1 of 2)

Analytical Case Narrative

Analytical Report

Sample Receipt Documentation

(Work orders, Chain of Custody & Cooler Receipt Forms)

CLP-Like Forms

Raw Data

Organochloride Pesticides by EPA 8081B

Benchsheet & Analysis Sequence Data

Batch 9091407

Sequence 9J03031 (A9I0771-02RE1,03RE1,04RE1,06RE1)

Sequence 9J07042 (A9I0771-01RE2,05RE2)

Calibration Data

Sequence 9H23034 (Cal ID A9H2608) DUALECD5

Semivolatile Organic Compounds (PAHs) by EPA 8270D

Benchsheet & Analysis Sequence Data

Batch 9091304

Sequence 9I26035 (A9I0771-01,02,03)

Sequence 9I27028 (A9I0771-01RE1,02RE1,03RE1)

Batch 9100550

Sequence 9J02028 (A9I0771-04RE3,05RE3,06RE3)

Calibration Data

Sequence 9I06028 (Cal ID A9I1001) SV-GCMS14

Conventional Chemistry Parameters

Benchsheet & Analysis Sequence Data

Total Organic Carbon- Soil (5310 B)

Batch 9091328

Sequence 9J03020 (A9I0771-01,02,03,04,05,06)

Calibration Data

Sequence 8B02022 (Cal ID A8B0203) TOC

APEX LABORATORIES, LLC
6700 SW Sandburg St. Tigard, OR 97223

phone 503-718-2323

Table of Contents
A9I0771
(page 2 of 2)

Percent Dry Weight (EPA 8000C)
Benchsheet Data

Batch 9091299 (A9I0771-01,02,03,04,05,06)

Balance Checksheets

Extractions September 2019
Extractions October 2019
Dry Weight September 2019
Wet Chem September 2019

Analytical Case Narrative

Analytical Case Narrative

Client: Anchor QEA, LLC
Project: Gasco PreRD_DG2019 - 2a Surface Sediments
Apex Work Order Number: A9I0771

Date: 11/18/2019

This data package contains data associated with analysis of samples for the above referenced Apex work order numbers. The data package Table of Contents, along with the PDF bookmarks, allow for ease of navigation and location of items within the data deliverable.

The Sample Receipt Documentation section of this package contains sample receipt information, including sample temperature and condition of receipt documented on Cooler Receipt Form(s). Apex analyzed the samples by the methods indicated on the Chain of Custody. Any additional analyses requested are indicated on the Apex Work Order.

If any anomalies were encountered during analysis that could potentially impact data quality, sample results are qualified and/or a separate Case Narrative is included in the Analytical Report. Please refer to the Notes and Definition section of the Analytical Report(s) for Qualifier explanations, Conventions, and the Blank Policy.

Data represented in this package are in compliance with the referenced method(s), both technically and for completeness, for all conditions other than those stated above and/or noted by qualification of the reported data. The signature below verifies that the Laboratory Director or his designee has authorized release of this data package.



Estella Rieben,
Quality Systems Manager
Apex Laboratories, LLC

Analytical Report



AMENDED REPORT

Tuesday, November 12, 2019

Ryan Barth
Anchor QEA, LLC
6720 SW Macadam Ave. Suite 125
Portland, OR 97219

RE: A910771 - Gasco PreRD DG 2019 - 2a. Surface Sediments - [none]

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A910771, which was received by the laboratory on 9/25/2019 at 10:36:00AM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: dthomas@apex-labs.com, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information

(See Cooler Receipt Form for details)

Cooler #1	2.3 degC	Cooler #2	2.4 degC
-----------	----------	-----------	----------

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.



Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
EPA ID: OR01039

AMENDED REPORT

Anchor QEA, LLC 6720 SW Macadam Ave. Suite 125 Portland, OR 97219	Project: Gasco PreRD DG 2019 - 2a. Surface Sediments Project Number: [none] Project Manager: Ryan Barth	Report ID: A9I0771 - 11 12 19 0749
--	--	--

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PDI-014SG-00-0.78-190923	A9I0771-01	Sediment	09/23/19 17:05	09/25/19 10:36
PDI-1014SG-00-0.78-190923	A9I0771-02	Sediment	09/23/19 17:10	09/25/19 10:36
PDI-015SG-00-0.87-190924	A9I0771-03	Sediment	09/24/19 11:19	09/25/19 10:36
PDI-022SG-00-01-190924	A9I0771-04	Sediment	09/24/19 13:00	09/25/19 10:36
PDI-101SG-00-01-190923	A9I0771-05	Sediment	09/23/19 13:35	09/25/19 10:36
PDI-102SG-00-01-190923	A9I0771-06	Sediment	09/23/19 15:05	09/25/19 10:36

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



AMENDED REPORT

Anchor QEA, LLC 6720 SW Macadam Ave. Suite 125 Portland, OR 97219	Project: Gasco PreRD DG 2019 - 2a. Surface Sediments Project Number: [none] Project Manager: Ryan Barth	Report ID: A910771 - 11 12 19 0749
--	---	--

ANALYTICAL CASE NARRATIVE

Work Order: A910771

Amended Report Revision #2

This report supersedes all previous reports.

Semivolatiles by EPA 8270D: Surrogates Reported from All Dilutions

At client request, Surrogate compounds are reported from all dilutions for all Semivolatile analyses. Normally only the Surrogates from the lowest dilution are reported with the sample results for validation purposes. The added surrogate compounds have been qualified with an "AMEND" flag in this report.

David Jack
Technical Manager
Apex Laboratories
November 11, 2019

Amended Report Revision #1

This report supersedes all previous reports.

Total Organic Carbon (TOC) by SM5310B: Reporting Unit Change
Data for Total Organic Carbon by SM5310B has been amended to report in "% by Weight" units. Data was reported previously in mg/kg units.

Semivolatiles by EPA 8270D: Benzo(j,k)fluoranthene Analyte Name
Apex Laboratories calibrates its Semivolatile Mass Spectrometers for Benzo(k)fluoranthene using Benzo(k)fluoranthene itself, not including the Benzo(j)fluoranthene isomer, which co-elutes with Benzo(k)fluoranthene. Data is reported in this amended report as Benzo(k)fluoranthene, but in the EDD this data is reported as Benzo(j,k)fluoranthene. The data for Benzo(k)fluoranthene and Benzo(j,k)fluoranthene are identical.

Dry Weight results have been removed to eliminate double reporting of Solids data .

David Jack
Technical Manager
Apex Laboratories
October 30, 2019

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



AMENDED REPORT

Anchor QEA, LLC 6720 SW Macadam Ave. Suite 125 Portland, OR 97219	Project: Gasco PreRD DG 2019 - 2a. Surface Sediments Project Number: [none] Project Manager: Ryan Barth	Report ID: A910771 - 11 12 19 0749
--	---	--

ANALYTICAL CASE NARRATIVE

Work Order: A910771

Amended Report Revision #2

This report supersedes all previous reports.

Semivolatiles by EPA 8270D: Surrogates Reported from All Dilutions

At client request, Surrogate compounds are reported from all dilutions for all Semivolatile analyses. Normally only the Surrogates from the lowest dilution are reported with the sample results for validation purposes. The added surrogate compounds have been qualified with an "AMEND" flag in this report.

David Jack
Technical Manager
Apex Laboratories
November 11, 2019

Amended Report Revision #1

This report supersedes all previous reports.

Total Organic Carbon (TOC) by SM5310B: Reporting Unit Change
Data for Total Organic Carbon by SM5310B has been amended to report in "% by Weight" units. Data was reported previously in mg/kg units.

Semivolatiles by EPA 8270D: Benzo(j,k)fluoranthene Analyte Name
Apex Laboratories calibrates its Semivolatile Mass Spectrometers for Benzo(k)fluoranthene using Benzo(k)fluoranthene itself, not including the Benzo(j)fluoranthene isomer, which co-elutes with Benzo(k)fluoranthene. Data is reported in this amended report as Benzo(k)fluoranthene, but in the EDD this data is reported as Benzo(j,k)fluoranthene. The data for Benzo(k)fluoranthene and Benzo(j,k)fluoranthene are identical.

Dry Weight results have been removed to eliminate double reporting of Solids data .

David Jack
Technical Manager
Apex Laboratories
October 30, 2019

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
EPA ID: OR01039

AMENDED REPORT

<u>Anchor QEA, LLC</u> 6720 SW Macadam Ave. Suite 125 Portland, OR 97219	Project: <u>Gasco PreRD DG 2019 - 2a. Surface Sediments</u> Project Number: [none] Project Manager: Ryan Barth	<u>Report ID:</u> A910771 - 11 12 19 0749
--	---	--

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



AMENDED REPORT

Anchor QEA, LLC 6720 SW Macadam Ave. Suite 125 Portland, OR 97219	Project: Gasco PreRD DG 2019 - 2a. Surface Sediments Project Number: [none] Project Manager: Ryan Barth	Report ID: A910771 - 11 12 19 0749
--	---	---

ANALYTICAL SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
PDI-014SG-00-0.78-190923 (A910771-01RE2)			Matrix: Sediment		Batch: 9091407		C-05	
2,4'-DDD	ND	35.2	70.4	ug/kg dry	20	10/07/19 13:56	EPA 8081B	
2,4'-DDE	ND	35.2	70.4	ug/kg dry	20	10/07/19 13:56	EPA 8081B	
2,4'-DDT	ND	35.2	70.4	ug/kg dry	20	10/07/19 13:56	EPA 8081B	
4,4'-DDD	71.4	35.2	70.4	ug/kg dry	20	10/07/19 13:56	EPA 8081B	
4,4'-DDE	ND	35.2	70.4	ug/kg dry	20	10/07/19 13:56	EPA 8081B	
4,4'-DDT	ND	70.4	70.4	ug/kg dry	20	10/07/19 13:56	EPA 8081B	
<i>Surrogate: 2,4,5,6-TCMX (Surr)</i>		<i>Recovery: 80 %</i>		<i>Limits: 42-129 %</i>		<i>20</i>	<i>10/07/19 13:56</i>	<i>EPA 8081B</i>
<i>Decachlorobiphenyl (Surr)</i>		<i>97 %</i>		<i>55-130 %</i>		<i>20</i>	<i>10/07/19 13:56</i>	<i>EPA 8081B</i>
PDI-1014SG-00-0.78-190923 (A910771-02RE1)			Matrix: Sediment		Batch: 9091407		C-05	
2,4'-DDD	ND	34.8	34.8	ug/kg dry	10	10/03/19 16:03	EPA 8081B	
2,4'-DDE	ND	34.8	34.8	ug/kg dry	10	10/03/19 16:03	EPA 8081B	
2,4'-DDT	ND	34.8	34.8	ug/kg dry	10	10/03/19 16:03	EPA 8081B	
4,4'-DDD	81.7	17.4	34.8	ug/kg dry	10	10/03/19 16:03	EPA 8081B	
4,4'-DDE	ND	34.8	34.8	ug/kg dry	10	10/03/19 16:03	EPA 8081B	
4,4'-DDT	ND	62.7	62.7	ug/kg dry	10	10/03/19 16:03	EPA 8081B	R-02
<i>Surrogate: 2,4,5,6-TCMX (Surr)</i>		<i>Recovery: 75 %</i>		<i>Limits: 42-129 %</i>		<i>10</i>	<i>10/03/19 16:03</i>	<i>EPA 8081B</i>
<i>Decachlorobiphenyl (Surr)</i>		<i>114 %</i>		<i>55-130 %</i>		<i>10</i>	<i>10/03/19 16:03</i>	<i>EPA 8081B</i>
PDI-015SG-00-0.87-190924 (A910771-03RE1)			Matrix: Sediment		Batch: 9091407		C-05	
2,4'-DDD	ND	29.4	29.4	ug/kg dry	10	10/03/19 16:55	EPA 8081B	
2,4'-DDE	ND	29.4	29.4	ug/kg dry	10	10/03/19 16:55	EPA 8081B	
2,4'-DDT	ND	29.4	29.4	ug/kg dry	10	10/03/19 16:55	EPA 8081B	
4,4'-DDD	56.5	14.7	29.4	ug/kg dry	10	10/03/19 16:55	EPA 8081B	
4,4'-DDE	ND	14.7	29.4	ug/kg dry	10	10/03/19 16:55	EPA 8081B	
4,4'-DDT	ND	47.1	47.1	ug/kg dry	10	10/03/19 16:55	EPA 8081B	
<i>Surrogate: 2,4,5,6-TCMX (Surr)</i>		<i>Recovery: 84 %</i>		<i>Limits: 42-129 %</i>		<i>10</i>	<i>10/03/19 16:55</i>	<i>EPA 8081B</i>
<i>Decachlorobiphenyl (Surr)</i>		<i>128 %</i>		<i>55-130 %</i>		<i>10</i>	<i>10/03/19 16:55</i>	<i>EPA 8081B</i>
PDI-022SG-00-01-190924 (A910771-04RE1)			Matrix: Sediment		Batch: 9091407		C-05	
2,4'-DDD	ND	3.13	3.13	ug/kg dry	1	10/03/19 18:38	EPA 8081B	
2,4'-DDE	ND	1.57	3.13	ug/kg dry	1	10/03/19 18:38	EPA 8081B	
2,4'-DDT	ND	1.57	3.13	ug/kg dry	1	10/03/19 18:38	EPA 8081B	
4,4'-DDD	5.76	1.57	3.13	ug/kg dry	1	10/03/19 18:38	EPA 8081B	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



AMENDED REPORT

Anchor QEA, LLC 6720 SW Macadam Ave. Suite 125 Portland, OR 97219	Project: Gasco PreRD DG 2019 - 2a. Surface Sediments Project Number: [none] Project Manager: Ryan Barth	Report ID: A910771 - 11 12 19 0749
--	---	--

ANALYTICAL SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
PDI-022SG-00-01-190924 (A910771-04RE1)			Matrix: Sediment			Batch: 9091407		C-05
4,4'-DDE	ND	3.13	3.13	ug/kg dry	1	10/03/19 18:38	EPA 8081B	
4,4'-DDT	ND	1.57	3.13	ug/kg dry	1	10/03/19 18:38	EPA 8081B	
<i>Surrogate: 2,4,5,6-TCMX (Surr)</i>		<i>Recovery: 60 %</i>		<i>Limits: 42-129 %</i>		<i>1</i>	<i>10/03/19 18:38</i>	<i>EPA 8081B</i>
<i>Decachlorobiphenyl (Surr)</i>		<i>95 %</i>		<i>55-130 %</i>		<i>1</i>	<i>10/03/19 18:38</i>	<i>EPA 8081B</i>
PDI-101SG-00-01-190923 (A910771-05RE2)			Matrix: Sediment			Batch: 9091407		C-05
2,4'-DDD	ND	9.79	9.79	ug/kg dry	2	10/07/19 15:06	EPA 8081B	
2,4'-DDE	ND	9.79	9.79	ug/kg dry	2	10/07/19 15:06	EPA 8081B	
2,4'-DDT	ND	4.90	9.79	ug/kg dry	2	10/07/19 15:06	EPA 8081B	
4,4'-DDD	9.82	4.90	9.79	ug/kg dry	2	10/07/19 15:06	EPA 8081B	
4,4'-DDE	ND	4.90	9.79	ug/kg dry	2	10/07/19 15:06	EPA 8081B	
4,4'-DDT	ND	4.90	9.79	ug/kg dry	2	10/07/19 15:06	EPA 8081B	
<i>Surrogate: 2,4,5,6-TCMX (Surr)</i>		<i>Recovery: 64 %</i>		<i>Limits: 42-129 %</i>		<i>2</i>	<i>10/07/19 15:06</i>	<i>EPA 8081B</i>
<i>Decachlorobiphenyl (Surr)</i>		<i>128 %</i>		<i>55-130 %</i>		<i>2</i>	<i>10/07/19 15:06</i>	<i>EPA 8081B</i>
PDI-102SG-00-01-190923 (A910771-06RE1)			Matrix: Sediment			Batch: 9091407		C-05
2,4'-DDD	ND	4.38	4.38	ug/kg dry	1	10/03/19 20:21	EPA 8081B	
2,4'-DDE	ND	2.19	4.38	ug/kg dry	1	10/03/19 20:21	EPA 8081B	
2,4'-DDT	ND	2.19	4.38	ug/kg dry	1	10/03/19 20:21	EPA 8081B	
4,4'-DDD	3.87	2.19	4.38	ug/kg dry	1	10/03/19 20:21	EPA 8081B	J
4,4'-DDE	ND	2.19	4.38	ug/kg dry	1	10/03/19 20:21	EPA 8081B	
4,4'-DDT	ND	4.38	4.38	ug/kg dry	1	10/03/19 20:21	EPA 8081B	
<i>Surrogate: 2,4,5,6-TCMX (Surr)</i>		<i>Recovery: 50 %</i>		<i>Limits: 42-129 %</i>		<i>1</i>	<i>10/03/19 20:21</i>	<i>EPA 8081B</i>
<i>Decachlorobiphenyl (Surr)</i>		<i>81 %</i>		<i>55-130 %</i>		<i>1</i>	<i>10/03/19 20:21</i>	<i>EPA 8081B</i>

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



AMENDED REPORT

Anchor QEA, LLC 6720 SW Macadam Ave. Suite 125 Portland, OR 97219	Project: Gasco PreRD DG 2019 - 2a. Surface Sediments Project Number: [none] Project Manager: Ryan Barth	Report ID: A910771 - 11 12 19 0749
--	---	---

ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
PDI-014SG-00-0.78-190923 (A910771-01)			Matrix: Sediment		Batch: 9091304			
Acenaphthylene	38500	2100	4200	ug/kg dry	1000	09/26/19 17:12	EPA 8270D	B-02, Q-42
Anthracene	172000	2100	4200	ug/kg dry	1000	09/26/19 17:12	EPA 8270D	B-02
Benz(a)anthracene	127000	2100	4200	ug/kg dry	1000	09/26/19 17:12	EPA 8270D	
Benzo(a)pyrene	174000	2100	4200	ug/kg dry	1000	09/26/19 17:12	EPA 8270D	
Benzo(b)fluoranthene	148000	2100	4200	ug/kg dry	1000	09/26/19 17:12	EPA 8270D	Q-42
Benzo(k)fluoranthene	52100	2100	4200	ug/kg dry	1000	09/26/19 17:12	EPA 8270D	M-05, X
Benzo(g,h,i)perylene	123000	2100	4200	ug/kg dry	1000	09/26/19 17:12	EPA 8270D	
Chrysene	160000	2100	4200	ug/kg dry	1000	09/26/19 17:12	EPA 8270D	
Dibenz(a,h)anthracene	12400	2100	4200	ug/kg dry	1000	09/26/19 17:12	EPA 8270D	
Fluorene	181000	2100	4200	ug/kg dry	1000	09/26/19 17:12	EPA 8270D	B, Q-42
Indeno(1,2,3-cd)pyrene	102000	2100	4200	ug/kg dry	1000	09/26/19 17:12	EPA 8270D	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 342 %</i>		<i>Limits: 44-115 % 1000</i>		<i>09/26/19 17:12</i>	<i>EPA 8270D</i>	<i>S-05</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>357 %</i>		<i>54-127 % 1000</i>		<i>09/26/19 17:12</i>	<i>EPA 8270D</i>	<i>S-05</i>

PDI-014SG-00-0.78-190923 (A910771-01RE1)			Matrix: Sediment		Batch: 9091304			
Acenaphthene	385000	21000	42000	ug/kg dry	10000	09/27/19 12:14	EPA 8270D	B
Fluoranthene	474000	21000	42000	ug/kg dry	10000	09/27/19 12:14	EPA 8270D	B-02
2-Methylnaphthalene	367000	21000	42000	ug/kg dry	10000	09/27/19 12:14	EPA 8270D	B, Q-29, Q-42
Naphthalene	1590000	21000	42000	ug/kg dry	10000	09/27/19 12:14	EPA 8270D	B, Q-29, Q-42
Phenanthrene	941000	21000	42000	ug/kg dry	10000	09/27/19 12:14	EPA 8270D	B, Q-29, Q-42
Pyrene	548000	21000	42000	ug/kg dry	10000	09/27/19 12:14	EPA 8270D	B-02
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 320 %</i>		<i>Limits: 44-115 % 10000</i>		<i>09/27/19 12:14</i>	<i>EPA 8270D</i>	<i>. AMEND, S-05</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>440 %</i>		<i>54-127 % 10000</i>		<i>09/27/19 12:14</i>	<i>EPA 8270D</i>	<i>. S-05, AMEND</i>

PDI-1014SG-00-0.78-190923 (A910771-02)			Matrix: Sediment		Batch: 9091304			
Acenaphthene	200000	2150	4290	ug/kg dry	1000	09/26/19 18:53	EPA 8270D	Q-29, B
Acenaphthylene	20300	2150	4290	ug/kg dry	1000	09/26/19 18:53	EPA 8270D	B-02
Anthracene	94200	2150	4290	ug/kg dry	1000	09/26/19 18:53	EPA 8270D	B-02
Benz(a)anthracene	68300	2150	4290	ug/kg dry	1000	09/26/19 18:53	EPA 8270D	
Benzo(a)pyrene	92600	2150	4290	ug/kg dry	1000	09/26/19 18:53	EPA 8270D	
Benzo(b)fluoranthene	77800	2150	4290	ug/kg dry	1000	09/26/19 18:53	EPA 8270D	
Benzo(k)fluoranthene	26500	2150	4290	ug/kg dry	1000	09/26/19 18:53	EPA 8270D	M-05, X

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



AMENDED REPORT

Anchor QEA, LLC 6720 SW Macadam Ave. Suite 125 Portland, OR 97219	Project: Gasco PreRD DG 2019 - 2a. Surface Sediments Project Number: [none] Project Manager: Ryan Barth	Report ID: A910771 - 11 12 19 0749
--	---	--

ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
PDI-1014SG-00-0.78-190923 (A910771-02)			Matrix: Sediment		Batch: 9091304			
Benzo(g,h,i)perylene	65700	2150	4290	ug/kg dry	1000	09/26/19 18:53	EPA 8270D	
Chrysene	86700	2150	4290	ug/kg dry	1000	09/26/19 18:53	EPA 8270D	
Dibenz(a,h)anthracene	7090	2150	4290	ug/kg dry	1000	09/26/19 18:53	EPA 8270D	
Fluoranthene	259000	2150	4290	ug/kg dry	1000	09/26/19 18:53	EPA 8270D	B-02
Fluorene	100000	2150	4290	ug/kg dry	1000	09/26/19 18:53	EPA 8270D	B
Indeno(1,2,3-cd)pyrene	56000	2150	4290	ug/kg dry	1000	09/26/19 18:53	EPA 8270D	
2-Methylnaphthalene	198000	2150	4290	ug/kg dry	1000	09/26/19 18:53	EPA 8270D	B, Q-29
Pyrene	263000	2150	4290	ug/kg dry	1000	09/26/19 18:53	EPA 8270D	B-02
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 242 %</i>		<i>Limits: 44-115 % 1000</i>		<i>09/26/19 18:53</i>	<i>EPA 8270D</i>	<i>S-05</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>214 %</i>		<i>54-127 % 1000</i>		<i>09/26/19 18:53</i>	<i>EPA 8270D</i>	<i>S-05</i>

PDI-1014SG-00-0.78-190923 (A910771-02RE1)			Matrix: Sediment		Batch: 9091304			
Naphthalene	1230000	21500	42900	ug/kg dry	10000	09/27/19 13:18	EPA 8270D	B, Q-29
Phenanthrene	515000	21500	42900	ug/kg dry	10000	09/27/19 13:18	EPA 8270D	B, Q-29
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: %</i>		<i>Limits: 44-115 % 10000</i>		<i>09/27/19 13:18</i>	<i>EPA 8270D</i>	<i>AMEND, S-05</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>440 %</i>		<i>54-127 % 10000</i>		<i>09/27/19 13:18</i>	<i>EPA 8270D</i>	<i>S-05, AMEND</i>

PDI-015SG-00-0.87-190924 (A910771-03)			Matrix: Sediment		Batch: 9091304			
Acenaphthene	205000	1840	3680	ug/kg dry	1000	09/26/19 19:25	EPA 8270D	Q-29, B
Acenaphthylene	15400	1840	3680	ug/kg dry	1000	09/26/19 19:25	EPA 8270D	B-02
Anthracene	90000	1840	3680	ug/kg dry	1000	09/26/19 19:25	EPA 8270D	B-02
Benz(a)anthracene	58300	1840	3680	ug/kg dry	1000	09/26/19 19:25	EPA 8270D	
Benzo(a)pyrene	79600	1840	3680	ug/kg dry	1000	09/26/19 19:25	EPA 8270D	
Benzo(b)fluoranthene	66600	1840	3680	ug/kg dry	1000	09/26/19 19:25	EPA 8270D	
Benzo(k)fluoranthene	22400	1840	3680	ug/kg dry	1000	09/26/19 19:25	EPA 8270D	M-05, X
Benzo(g,h,i)perylene	56500	1840	3680	ug/kg dry	1000	09/26/19 19:25	EPA 8270D	
Chrysene	75200	1840	3680	ug/kg dry	1000	09/26/19 19:25	EPA 8270D	
Dibenz(a,h)anthracene	5910	1840	3680	ug/kg dry	1000	09/26/19 19:25	EPA 8270D	
Fluoranthene	220000	1840	3680	ug/kg dry	1000	09/26/19 19:25	EPA 8270D	B-02
Fluorene	101000	1840	3680	ug/kg dry	1000	09/26/19 19:25	EPA 8270D	B
Indeno(1,2,3-cd)pyrene	47900	1840	3680	ug/kg dry	1000	09/26/19 19:25	EPA 8270D	
2-Methylnaphthalene	223000	1840	3680	ug/kg dry	1000	09/26/19 19:25	EPA 8270D	B, Q-29
Pyrene	230000	1840	3680	ug/kg dry	1000	09/26/19 19:25	EPA 8270D	B-02

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



AMENDED REPORT

Anchor QEA, LLC 6720 SW Macadam Ave. Suite 125 Portland, OR 97219	Project: Gasco PreRD DG 2019 - 2a. Surface Sediments Project Number: [none] Project Manager: Ryan Barth	Report ID: A910771 - 11 12 19 0749
--	---	---

ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
PDI-015SG-00-0.87-190924 (A910771-03)			Matrix: Sediment		Batch: 9091304			
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 275 %</i>		<i>Limits: 44-115 %</i>	<i>1000</i>	<i>09/26/19 19:25</i>	<i>EPA 8270D</i>	<i>S-05</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>210 %</i>		<i>54-127 %</i>	<i>1000</i>	<i>09/26/19 19:25</i>	<i>EPA 8270D</i>	<i>S-05</i>
PDI-015SG-00-0.87-190924 (A910771-03RE1)			Matrix: Sediment		Batch: 9091304			
Naphthalene	839000	18400	36800	ug/kg dry	10000	09/27/19 13:50	EPA 8270D	B, Q-29
Phenanthrene	476000	18400	36800	ug/kg dry	10000	09/27/19 13:50	EPA 8270D	Q-29, B
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: %</i>		<i>Limits: 44-115 %</i>	<i>10000</i>	<i>09/27/19 13:50</i>	<i>EPA 8270D</i>	<i>AMEND, S-05</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>%</i>		<i>54-127 %</i>	<i>10000</i>	<i>09/27/19 13:50</i>	<i>EPA 8270D</i>	<i>AMEND, S-05</i>
PDI-022SG-00-01-190924 (A910771-04RE3)			Matrix: Sediment		Batch: 9100550			
Acenaphthene	596	186	372	ug/kg dry	100	10/02/19 18:51	EPA 8270D	
Acenaphthylene	217	186	372	ug/kg dry	100	10/02/19 18:51	EPA 8270D	J
Anthracene	449	186	372	ug/kg dry	100	10/02/19 18:51	EPA 8270D	
Benz(a)anthracene	912	186	372	ug/kg dry	100	10/02/19 18:51	EPA 8270D	
Benzo(a)pyrene	1450	186	372	ug/kg dry	100	10/02/19 18:51	EPA 8270D	
Benzo(b)fluoranthene	1320	186	372	ug/kg dry	100	10/02/19 18:51	EPA 8270D	
Benzo(k)fluoranthene	441	186	372	ug/kg dry	100	10/02/19 18:51	EPA 8270D	M-05, X
Benzo(g,h,i)perylene	1200	186	372	ug/kg dry	100	10/02/19 18:51	EPA 8270D	
Chrysene	1150	186	372	ug/kg dry	100	10/02/19 18:51	EPA 8270D	
Dibenz(a,h)anthracene	ND	186	372	ug/kg dry	100	10/02/19 18:51	EPA 8270D	
Fluoranthene	2430	186	372	ug/kg dry	100	10/02/19 18:51	EPA 8270D	
Fluorene	320	186	372	ug/kg dry	100	10/02/19 18:51	EPA 8270D	J
Indeno(1,2,3-cd)pyrene	1000	186	372	ug/kg dry	100	10/02/19 18:51	EPA 8270D	
2-Methylnaphthalene	ND	186	372	ug/kg dry	100	10/02/19 18:51	EPA 8270D	
Naphthalene	233	186	372	ug/kg dry	100	10/02/19 18:51	EPA 8270D	J
Phenanthrene	2330	186	372	ug/kg dry	100	10/02/19 18:51	EPA 8270D	
Pyrene	2730	186	372	ug/kg dry	100	10/02/19 18:51	EPA 8270D	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 155 %</i>		<i>Limits: 44-115 %</i>	<i>100</i>	<i>10/02/19 18:51</i>	<i>EPA 8270D</i>	<i>S-05</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>89 %</i>		<i>54-127 %</i>	<i>100</i>	<i>10/02/19 18:51</i>	<i>EPA 8270D</i>	<i>S-05</i>
PDI-101SG-00-01-190923 (A910771-05RE3)			Matrix: Sediment		Batch: 9100550			
Acenaphthene	1040	293	585	ug/kg dry	100	10/02/19 19:23	EPA 8270D	
Acenaphthylene	1980	293	585	ug/kg dry	100	10/02/19 19:23	EPA 8270D	
Anthracene	2740	293	585	ug/kg dry	100	10/02/19 19:23	EPA 8270D	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



AMENDED REPORT

Anchor QEA, LLC 6720 SW Macadam Ave. Suite 125 Portland, OR 97219	Project: Gasco PreRD DG 2019 - 2a. Surface Sediments Project Number: [none] Project Manager: Ryan Barth	Report ID: A910771 - 11 12 19 0749
--	---	---

ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes	
PDI-101SG-00-01-190923 (A910771-05RE3)			Matrix: Sediment		Batch: 9100550				
Benz(a)anthracene	8560	293	585	ug/kg dry	100	10/02/19 19:23	EPA 8270D		
Benzo(a)pyrene	13300	293	585	ug/kg dry	100	10/02/19 19:23	EPA 8270D		
Benzo(b)fluoranthene	11100	293	585	ug/kg dry	100	10/02/19 19:23	EPA 8270D		
Benzo(k)fluoranthene	3600	293	585	ug/kg dry	100	10/02/19 19:23	EPA 8270D	M-05, X	
Benzo(g,h,i)perylene	10500	293	585	ug/kg dry	100	10/02/19 19:23	EPA 8270D		
Chrysene	9640	293	585	ug/kg dry	100	10/02/19 19:23	EPA 8270D		
Dibenz(a,h)anthracene	1120	293	585	ug/kg dry	100	10/02/19 19:23	EPA 8270D		
Fluoranthene	20700	293	585	ug/kg dry	100	10/02/19 19:23	EPA 8270D		
Fluorene	783	293	585	ug/kg dry	100	10/02/19 19:23	EPA 8270D		
Indeno(1,2,3-cd)pyrene	8690	293	585	ug/kg dry	100	10/02/19 19:23	EPA 8270D		
2-Methylnaphthalene	787	293	585	ug/kg dry	100	10/02/19 19:23	EPA 8270D		
Naphthalene	3660	293	585	ug/kg dry	100	10/02/19 19:23	EPA 8270D	B-02	
Phenanthrene	8970	293	585	ug/kg dry	100	10/02/19 19:23	EPA 8270D		
Pyrene	22500	293	585	ug/kg dry	100	10/02/19 19:23	EPA 8270D		
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 73 %</i>		<i>Limits: 44-115 %</i>		<i>100</i>	<i>10/02/19 19:23</i>	<i>EPA 8270D</i>	<i>S-05</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>82 %</i>		<i>54-127 %</i>		<i>100</i>	<i>10/02/19 19:23</i>	<i>EPA 8270D</i>	<i>S-05</i>

PDI-102SG-00-01-190923 (A910771-06RE3)			Matrix: Sediment		Batch: 9100550			
Acenaphthene	599	26.2	52.4	ug/kg dry	10	10/02/19 17:15	EPA 8270D	
Acenaphthylene	51.5	26.2	52.4	ug/kg dry	10	10/02/19 17:15	EPA 8270D	J
Anthracene	110	26.2	52.4	ug/kg dry	10	10/02/19 17:15	EPA 8270D	
Benz(a)anthracene	163	26.2	52.4	ug/kg dry	10	10/02/19 17:15	EPA 8270D	
Benzo(a)pyrene	179	26.2	52.4	ug/kg dry	10	10/02/19 17:15	EPA 8270D	
Benzo(b)fluoranthene	189	26.2	52.4	ug/kg dry	10	10/02/19 17:15	EPA 8270D	
Benzo(k)fluoranthene	72.8	26.2	52.4	ug/kg dry	10	10/02/19 17:15	EPA 8270D	M-05, X
Benzo(g,h,i)perylene	137	26.2	52.4	ug/kg dry	10	10/02/19 17:15	EPA 8270D	
Chrysene	187	26.2	52.4	ug/kg dry	10	10/02/19 17:15	EPA 8270D	
Dibenz(a,h)anthracene	ND	26.2	52.4	ug/kg dry	10	10/02/19 17:15	EPA 8270D	
Fluoranthene	652	26.2	52.4	ug/kg dry	10	10/02/19 17:15	EPA 8270D	
Fluorene	362	26.2	52.4	ug/kg dry	10	10/02/19 17:15	EPA 8270D	
Indeno(1,2,3-cd)pyrene	117	26.2	52.4	ug/kg dry	10	10/02/19 17:15	EPA 8270D	
2-Methylnaphthalene	39.9	26.2	52.4	ug/kg dry	10	10/02/19 17:15	EPA 8270D	J
Naphthalene	71.6	26.2	52.4	ug/kg dry	10	10/02/19 17:15	EPA 8270D	B-02

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street
 Tigard, OR 97223
 503-718-2323
 EPA ID: OR01039

AMENDED REPORT

Anchor QEA, LLC 6720 SW Macadam Ave. Suite 125 Portland, OR 97219	Project: Gasco PreRD DG 2019 - 2a. Surface Sediments Project Number: [none] Project Manager: Ryan Barth	Report ID: A910771 - 11 12 19 0749
--	---	---

ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
PDI-102SG-00-01-190923 (A910771-06RE3)			Matrix: Sediment			Batch: 9100550		
Phenanthrene	1050	26.2	52.4	ug/kg dry	10	10/02/19 17:15	EPA 8270D	
Pyrene	562	26.2	52.4	ug/kg dry	10	10/02/19 17:15	EPA 8270D	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 51 %</i>		<i>Limits: 44-115 %</i>		<i>10</i>	<i>10/02/19 17:15</i>	<i>EPA 8270D</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>76 %</i>		<i>54-127 %</i>		<i>10</i>	<i>10/02/19 17:15</i>	<i>EPA 8270D</i>

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



AMENDED REPORT

Anchor QEA, LLC 6720 SW Macadam Ave. Suite 125 Portland, OR 97219	Project: Gasco PreRD DG 2019 - 2a. Surface Sediments Project Number: [none] Project Manager: Ryan Barth	Report ID: A910771 - 11 12 19 0749
--	---	--

ANALYTICAL SAMPLE RESULTS

Demand Parameters

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
PDI-014SG-00-0.78-190923 (A910771-01)				Matrix: Sediment				
Batch: 9091328								
Total Organic Carbon	3.3	0.020	0.020	% by Weight	1	10/03/19 12:50	SM 5310 B MOD	AMEND
PDI-1014SG-00-0.78-190923 (A910771-02)				Matrix: Sediment				
Batch: 9091328								
Total Organic Carbon	3.2	0.020	0.020	% by Weight	1	10/03/19 13:45	SM 5310 B MOD	AMEND
PDI-015SG-00-0.87-190924 (A910771-03)				Matrix: Sediment				
Batch: 9091328								
Total Organic Carbon	2.1	0.020	0.020	% by Weight	1	10/03/19 14:19	SM 5310 B MOD	AMEND
PDI-022SG-00-01-190924 (A910771-04)				Matrix: Sediment				
Batch: 9091328								
Total Organic Carbon	0.82	0.020	0.020	% by Weight	1	10/03/19 14:40	SM 5310 B MOD	AMEND
PDI-101SG-00-01-190923 (A910771-05)				Matrix: Sediment				
Batch: 9091328								
Total Organic Carbon	2.8	0.020	0.020	% by Weight	1	10/03/19 15:05	SM 5310 B MOD	AMEND
PDI-102SG-00-01-190923 (A910771-06)				Matrix: Sediment				
Batch: 9091328								
Total Organic Carbon	2.1	0.020	0.020	% by Weight	1	10/03/19 11:40	SM 5310 B MOD	AMEND

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



AMENDED REPORT

Anchor QEA, LLC 6720 SW Macadam Ave. Suite 125 Portland, OR 97219	Project: Gasco PreRD DG 2019 - 2a. Surface Sediments Project Number: [none] Project Manager: Ryan Barth	Report ID: A910771 - 11 12 19 0749
--	---	--

ANALYTICAL SAMPLE RESULTS

Solid and Moisture Determinations

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
PDI-014SG-00-0.78-190923 (A910771-01)				Matrix: Sediment				
Batch: 9091299								
Total Solids	56.3	1.00	1.00	% by Weight	1	09/27/19 18:00	SM 2540 G	
PDI-1014SG-00-0.78-190923 (A910771-02)				Matrix: Sediment				
Batch: 9091299								
Total Solids	56.4	1.00	1.00	% by Weight	1	09/27/19 18:00	SM 2540 G	
PDI-015SG-00-0.87-190924 (A910771-03)				Matrix: Sediment				
Batch: 9091299								
Total Solids	67.5	1.00	1.00	% by Weight	1	09/27/19 18:00	SM 2540 G	
PDI-022SG-00-01-190924 (A910771-04)				Matrix: Sediment				
Batch: 9091299								
Total Solids	61.4	1.00	1.00	% by Weight	1	09/27/19 18:00	SM 2540 G	
PDI-101SG-00-01-190923 (A910771-05)				Matrix: Sediment				
Batch: 9091299								
Total Solids	40.2	1.00	1.00	% by Weight	1	09/27/19 18:00	SM 2540 G	
PDI-102SG-00-01-190923 (A910771-06)				Matrix: Sediment				
Batch: 9091299								
Total Solids	45.0	1.00	1.00	% by Weight	1	09/27/19 18:00	SM 2540 G	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



AMENDED REPORT

Anchor QEA, LLC 6720 SW Macadam Ave. Suite 125 Portland, OR 97219	Project: Gasco PreRD DG 2019 - 2a. Surface Sediments Project Number: [none] Project Manager: Ryan Barth	Report ID: A910771 - 11 12 19 0749
--	---	--

QUALITY CONTROL (QC) SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9091407 - EPA 3546/3640A (GPC)						Sediment						
Blank (9091407-BLK1)						Prepared: 09/26/19 07:17 Analyzed: 10/03/19 13:28						C-05
EPA 8081B												
2,4'-DDD	ND	0.909	1.82	ug/kg wet	1	---	---	---	---	---	---	
2,4'-DDE	ND	0.909	1.82	ug/kg wet	1	---	---	---	---	---	---	
2,4'-DDT	ND	0.909	1.82	ug/kg wet	1	---	---	---	---	---	---	
4,4'-DDD	ND	0.909	1.82	ug/kg wet	1	---	---	---	---	---	---	
4,4'-DDE	ND	0.909	1.82	ug/kg wet	1	---	---	---	---	---	---	
4,4'-DDT	ND	0.909	1.82	ug/kg wet	1	---	---	---	---	---	---	
<i>Surr: 2,4,5,6-TCMX (Surr)</i>		<i>Recovery: 60%</i>		<i>Limits: 42-129%</i>		<i>Dilution: 1x</i>						
<i>Decachlorobiphenyl (Surr)</i>		<i>83%</i>		<i>55-130%</i>		<i>"</i>						
LCS (9091407-BS1)						Prepared: 09/26/19 07:17 Analyzed: 10/03/19 13:45						C-05
EPA 8081B												
2,4'-DDD	35.4	1.00	2.00	ug/kg wet	1	50.0	---	71	50-150%	---	---	
2,4'-DDE	33.5	1.00	2.00	ug/kg wet	1	50.0	---	67	50-150%	---	---	
2,4'-DDT	38.1	1.00	2.00	ug/kg wet	1	50.0	---	76	50-150%	---	---	
4,4'-DDD	38.4	1.00	2.00	ug/kg wet	1	50.0	---	77	50-150%	---	---	
4,4'-DDE	35.9	1.00	2.00	ug/kg wet	1	50.0	---	72	50-150%	---	---	
4,4'-DDT	44.7	1.00	2.00	ug/kg wet	1	50.0	---	89	50-150%	---	---	
<i>Surr: 2,4,5,6-TCMX (Surr)</i>		<i>Recovery: 63%</i>		<i>Limits: 42-129%</i>		<i>Dilution: 1x</i>						
<i>Decachlorobiphenyl (Surr)</i>		<i>78%</i>		<i>55-130%</i>		<i>"</i>						
Duplicate (9091407-DUP2)						Prepared: 09/26/19 07:17 Analyzed: 10/07/19 14:31						C-05
QC Source Sample: PDI-014SG-00-0.78-190923 (A910771-01RE2)												
EPA 8081B												
2,4'-DDD	ND	70.4	70.4	ug/kg dry	20	---	ND	---	---	---	30%	
2,4'-DDE	ND	70.4	70.4	ug/kg dry	20	---	ND	---	---	---	30%	
2,4'-DDT	ND	35.2	70.4	ug/kg dry	20	---	ND	---	---	---	30%	
4,4'-DDD	160	35.2	70.4	ug/kg dry	20	---	71.4	---	---	77	30%	Q-05
4,4'-DDE	ND	70.4	70.4	ug/kg dry	20	---	ND	---	---	---	30%	
4,4'-DDT	ND	102	102	ug/kg dry	20	---	ND	---	---	---	30%	R-02
<i>Surr: 2,4,5,6-TCMX (Surr)</i>		<i>Recovery: 80%</i>		<i>Limits: 42-129%</i>		<i>Dilution: 20x</i>						
<i>Decachlorobiphenyl (Surr)</i>		<i>123%</i>		<i>55-130%</i>		<i>"</i>						

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



AMENDED REPORT

Anchor QEA, LLC 6720 SW Macadam Ave. Suite 125 Portland, OR 97219	Project: Gasco PreRD DG 2019 - 2a. Surface Sediments Project Number: [none] Project Manager: Ryan Barth	Report ID: A910771 - 11 12 19 0749
--	---	--

QUALITY CONTROL (QC) SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9091407 - EPA 3546/3640A (GPC) Sediment												
Matrix Spike (9091407-MS1) Prepared: 09/26/19 07:17 Analyzed: 10/03/19 21:13 C-05												
<u>QC Source Sample: PDI-102SG-00-01-190923 (A910771-06RE1)</u>												
<u>EPA 8081B</u>												
2,4'-DDD	88.6	4.38	4.38	ug/kg dry	1	109	ND	81	50-150%	---	---	
2,4'-DDE	79.5	2.19	4.38	ug/kg dry	1	109	ND	73	50-150%	---	---	
2,4'-DDT	103	2.19	4.38	ug/kg dry	1	109	ND	94	50-150%	---	---	
4,4'-DDD	110	2.19	4.38	ug/kg dry	1	109	3.87	97	50-150%	---	---	
4,4'-DDE	91.9	2.19	4.38	ug/kg dry	1	109	ND	84	50-150%	---	---	
4,4'-DDT	243	4.38	4.38	ug/kg dry	1	109	ND	223	50-150%	---	---	
<i>Surr: 2,4,5,6-TCMX (Surr) Recovery: 44 % Limits: 42-129 % Dilution: 1x</i>												
<i>Decachlorobiphenyl (Surr) 77 % 55-130 % "</i>												

Matrix Spike Dup (9091407-MSD1) Prepared: 09/26/19 07:17 Analyzed: 10/03/19 22:04 C-05												
<u>QC Source Sample: PDI-102SG-00-01-190923 (A910771-06RE1)</u>												
<u>EPA 8081B</u>												
2,4'-DDD	86.4	4.40	4.40	ug/kg dry	1	110	ND	79	50-150%	2	35%	
2,4'-DDE	75.9	2.20	4.40	ug/kg dry	1	110	ND	69	50-150%	5	35%	
2,4'-DDT	90.6	2.20	4.40	ug/kg dry	1	110	ND	82	50-150%	13	35%	
4,4'-DDD	106	2.20	4.40	ug/kg dry	1	110	3.87	92	50-150%	4	35%	
4,4'-DDE	92.7	2.20	4.40	ug/kg dry	1	110	ND	84	50-150%	1	35%	
4,4'-DDT	127	4.40	4.40	ug/kg dry	1	110	ND	116	50-150%	63	35%	Q-01
<i>Surr: 2,4,5,6-TCMX (Surr) Recovery: 38 % Limits: 42-129 % Dilution: 1x</i>												
<i>Decachlorobiphenyl (Surr) 77 % 55-130 % "</i>												
S-06												

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



AMENDED REPORT

Anchor QEA, LLC 6720 SW Macadam Ave. Suite 125 Portland, OR 97219	Project: Gasco PreRD DG 2019 - 2a. Surface Sediments Project Number: [none] Project Manager: Ryan Barth	Report ID: A910771 - 11 12 19 0749
--	---	--

QUALITY CONTROL (QC) SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9091304 - EPA 3546												
Sediment												
Blank (9091304-BLK1)												
Prepared: 09/26/19 07:03 Analyzed: 09/26/19 15:34												
<u>EPA 8270D</u>												
Acenaphthene	25.8	1.14	2.27	ug/kg wet	1	---	---	---	---	---	---	B
Acenaphthylene	1.20	1.14	2.27	ug/kg wet	1	---	---	---	---	---	---	B-02, J
Anthracene	1.71	1.14	2.27	ug/kg wet	1	---	---	---	---	---	---	B-02, J
Benz(a)anthracene	ND	1.14	2.27	ug/kg wet	1	---	---	---	---	---	---	
Benzo(a)pyrene	ND	1.14	2.27	ug/kg wet	1	---	---	---	---	---	---	
Benzo(b)fluoranthene	ND	1.14	2.27	ug/kg wet	1	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	1.14	2.27	ug/kg wet	1	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	1.14	2.27	ug/kg wet	1	---	---	---	---	---	---	
Chrysene	ND	1.14	2.27	ug/kg wet	1	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	1.14	2.27	ug/kg wet	1	---	---	---	---	---	---	
Fluoranthene	1.50	1.14	2.27	ug/kg wet	1	---	---	---	---	---	---	B-02, J
Fluorene	6.48	1.14	2.27	ug/kg wet	1	---	---	---	---	---	---	B
Indeno(1,2,3-cd)pyrene	ND	1.14	2.27	ug/kg wet	1	---	---	---	---	---	---	
2-Methylnaphthalene	67.5	1.14	2.27	ug/kg wet	1	---	---	---	---	---	---	B
Phenanthrene	11.1	1.14	2.27	ug/kg wet	1	---	---	---	---	---	---	B
Pyrene	1.41	1.14	2.27	ug/kg wet	1	---	---	---	---	---	---	B-02, J
<i>Surr: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 91 %</i>		<i>Limits: 44-115 %</i>		<i>Dilution: 1x</i>						
<i>p-Terphenyl-d14 (Surr)</i>		<i>98 %</i>		<i>54-127 %</i>		<i>"</i>						

Blank (9091304-BLK2)												
Prepared: 09/26/19 07:03 Analyzed: 09/26/19 18:21												
<u>EPA 8270D</u>												
Naphthalene	478	11.4	22.7	ug/kg wet	10	---	---	---	---	---	---	B, Q-29
<i>Surr: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 88 %</i>		<i>Limits: 44-115 %</i>		<i>Dilution: 10x</i>						
<i>p-Terphenyl-d14 (Surr)</i>		<i>94 %</i>		<i>54-127 %</i>		<i>"</i>						

LCS (9091304-BS1)												
Prepared: 09/26/19 07:03 Analyzed: 09/26/19 16:07												
<u>EPA 8270D</u>												
Acenaphthene	39.5	1.25	2.50	ug/kg wet	1	20.0	---	198	40-122%	---	---	B, Q-29
Acenaphthylene	17.6	1.25	2.50	ug/kg wet	1	20.0	---	88	32-132%	---	---	B-02
Anthracene	19.3	1.25	2.50	ug/kg wet	1	20.0	---	96	47-123%	---	---	B-02
Benz(a)anthracene	17.5	1.25	2.50	ug/kg wet	1	20.0	---	88	49-126%	---	---	
Benzo(a)pyrene	18.7	1.25	2.50	ug/kg wet	1	20.0	---	94	45-129%	---	---	
Benzo(b)fluoranthene	18.5	1.25	2.50	ug/kg wet	1	20.0	---	93	45-132%	---	---	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



AMENDED REPORT

Anchor QEA, LLC 6720 SW Macadam Ave. Suite 125 Portland, OR 97219	Project: Gasco PreRD DG 2019 - 2a. Surface Sediments Project Number: [none] Project Manager: Ryan Barth	Report ID: A910771 - 11 12 19 0749
--	---	--

QUALITY CONTROL (QC) SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9091304 - EPA 3546												
Sediment												
LCS (9091304-BS1)												
Prepared: 09/26/19 07:03 Analyzed: 09/26/19 16:07												
Benzo(k)fluoranthene	18.8	1.25	2.50	ug/kg wet	1	20.0	---	94	47-132%	---	---	
Benzo(g,h,i)perylene	16.9	1.25	2.50	ug/kg wet	1	20.0	---	84	43-134%	---	---	
Chrysene	18.6	1.25	2.50	ug/kg wet	1	20.0	---	93	50-124%	---	---	
Dibenz(a,h)anthracene	17.3	1.25	2.50	ug/kg wet	1	20.0	---	86	45-134%	---	---	
Fluoranthene	19.7	1.25	2.50	ug/kg wet	1	20.0	---	98	50-127%	---	---	B-02
Fluorene	23.6	1.25	2.50	ug/kg wet	1	20.0	---	118	43-125%	---	---	B
Indeno(1,2,3-cd)pyrene	17.0	1.25	2.50	ug/kg wet	1	20.0	---	85	45-133%	---	---	
2-Methylnaphthalene	86.9	1.25	2.50	ug/kg wet	1	20.0	---	435	38-122%	---	---	B, Q-29
Naphthalene	570	1.25	2.50	ug/kg wet	1	20.0	---	2850	35-123%	---	---	B, E, Q-29
Phenanthrene	26.8	1.25	2.50	ug/kg wet	1	20.0	---	134	50-121%	---	---	B, Q-29
Pyrene	16.9	1.25	2.50	ug/kg wet	1	20.0	---	85	47-127%	---	---	B-02
Surr: 2-Fluorobiphenyl (Surr) Recovery: 86 % Limits: 44-115 % Dilution: 1x												
p-Terphenyl-d14 (Surr) 89 % 54-127 % "												

Duplicate (9091304-DUP1)												
Prepared: 09/26/19 07:03 Analyzed: 09/26/19 17:49												
QC Source Sample: PDI-014SG-00-078-190923 (A910771-01)												
EPA 8270D												
Acenaphthene	264000	2090	4190	ug/kg dry	1000	---	354000	---	---	29	30%	B, Q-29
Acenaphthylene	25200	2090	4190	ug/kg dry	1000	---	38500	---	---	42	30%	B-02, Q-04
Anthracene	141000	2090	4190	ug/kg dry	1000	---	172000	---	---	20	30%	B-02
Benz(a)anthracene	154000	2090	4190	ug/kg dry	1000	---	127000	---	---	19	30%	
Benzo(a)pyrene	221000	2090	4190	ug/kg dry	1000	---	174000	---	---	24	30%	
Benzo(b)fluoranthene	203000	2090	4190	ug/kg dry	1000	---	148000	---	---	31	30%	Q-04
Benzo(k)fluoranthene	66500	2090	4190	ug/kg dry	1000	---	52100	---	---	24	30%	M-05
Benzo(g,h,i)perylene	146000	2090	4190	ug/kg dry	1000	---	123000	---	---	17	30%	
Chrysene	181000	2090	4190	ug/kg dry	1000	---	160000	---	---	12	30%	
Dibenz(a,h)anthracene	16400	2090	4190	ug/kg dry	1000	---	12400	---	---	28	30%	
Fluorene	131000	2090	4190	ug/kg dry	1000	---	181000	---	---	32	30%	B, Q-04
Indeno(1,2,3-cd)pyrene	133000	2090	4190	ug/kg dry	1000	---	102000	---	---	26	30%	
2-Methylnaphthalene	254000	2090	4190	ug/kg dry	1000	---	384000	---	---	41	30%	B, Q-04, Q-29
Surr: 2-Fluorobiphenyl (Surr) Recovery: 220 % Limits: 44-115 % Dilution: 1000x S-05												
p-Terphenyl-d14 (Surr) 340 % 54-127 % " S-05												

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



AMENDED REPORT

Anchor QEA, LLC 6720 SW Macadam Ave. Suite 125 Portland, OR 97219	Project: Gasco PreRD DG 2019 - 2a. Surface Sediments Project Number: [none] Project Manager: Ryan Barth	Report ID: A910771 - 11 12 19 0749
--	---	--

QUALITY CONTROL (QC) SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes	
Batch 9091304 - EPA 3546						Sediment							
Duplicate (9091304-DUP2)						Prepared: 09/26/19 07:03 Analyzed: 09/27/19 12:46							
QC Source Sample: PDI-014SG-00-0.78-190923 (A910771-01RE1)													
EPA 8270D													
Acenaphthylene	25000	20900	41900	ug/kg dry	10000	---	38700	---	---	43	30%	J, B-02, Q-04	
Fluoranthene	463000	20900	41900	ug/kg dry	10000	---	474000	---	---	2	30%	B-02	
2-Methylnaphthalene	232000	20900	41900	ug/kg dry	10000	---	367000	---	---	45	30%	Q-04, B, Q-29	
Naphthalene	1040000	20900	41900	ug/kg dry	10000	---	1590000	---	---	42	30%	Q-04, B, Q-29	
Phenanthrene	686000	20900	41900	ug/kg dry	10000	---	941000	---	---	31	30%	Q-04, B, Q-29	
Pyrene	514000	20900	41900	ug/kg dry	10000	---	548000	---	---	6	30%	B-02	
<i>Surr: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: %</i>		<i>Limits: 44-115 %</i>		<i>Dilution: 10000x</i>							AMEND, S-05
<i>p-Terphenyl-d14 (Surr)</i>		<i>590 %</i>		<i>54-127 %</i>		<i>"</i>							S-05, AMEND

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



AMENDED REPORT

Anchor QEA, LLC 6720 SW Macadam Ave. Suite 125 Portland, OR 97219	Project: Gasco PreRD DG 2019 - 2a. Surface Sediments Project Number: [none] Project Manager: Ryan Barth	Report ID: A910771 - 11 12 19 0749
--	--	--

QUALITY CONTROL (QC) SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9100550 - EPA 3546												
Sediment												
Blank (9100550-BLK1)												
Prepared: 10/02/19 11:20 Analyzed: 10/02/19 16:07												
<u>EPA 8270D</u>												
Acenaphthene	ND	1.14	2.27	ug/kg wet	1	---	---	---	---	---	---	
Acenaphthylene	ND	1.14	2.27	ug/kg wet	1	---	---	---	---	---	---	
Anthracene	ND	1.14	2.27	ug/kg wet	1	---	---	---	---	---	---	
Benz(a)anthracene	ND	1.14	2.27	ug/kg wet	1	---	---	---	---	---	---	
Benzo(a)pyrene	ND	1.14	2.27	ug/kg wet	1	---	---	---	---	---	---	
Benzo(b)fluoranthene	ND	1.14	2.27	ug/kg wet	1	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	1.14	2.27	ug/kg wet	1	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	1.14	2.27	ug/kg wet	1	---	---	---	---	---	---	
Chrysene	ND	1.14	2.27	ug/kg wet	1	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	1.14	2.27	ug/kg wet	1	---	---	---	---	---	---	
Fluoranthene	ND	1.14	2.27	ug/kg wet	1	---	---	---	---	---	---	
Fluorene	ND	1.14	2.27	ug/kg wet	1	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	1.14	2.27	ug/kg wet	1	---	---	---	---	---	---	
2-Methylnaphthalene	ND	1.14	2.27	ug/kg wet	1	---	---	---	---	---	---	
Naphthalene	1.34	1.14	2.27	ug/kg wet	1	---	---	---	---	---	---	J, B-02
Phenanthrene	ND	1.14	2.27	ug/kg wet	1	---	---	---	---	---	---	
Pyrene	ND	1.14	2.27	ug/kg wet	1	---	---	---	---	---	---	
<i>Surr: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 73 %</i>		<i>Limits: 44-115 %</i>		<i>Dilution: 1x</i>						
<i>p-Terphenyl-d14 (Surr)</i>		<i>79 %</i>		<i>54-127 %</i>		<i>"</i>						

LCS (9100550-BS1)												
Prepared: 10/02/19 11:20 Analyzed: 10/02/19 16:39												
<u>EPA 8270D</u>												
Acenaphthene	15.7	1.25	2.50	ug/kg wet	1	20.0	---	78	40-122%	---	---	
Acenaphthylene	15.0	1.25	2.50	ug/kg wet	1	20.0	---	75	32-132%	---	---	
Anthracene	16.0	1.25	2.50	ug/kg wet	1	20.0	---	80	47-123%	---	---	
Benz(a)anthracene	16.9	1.25	2.50	ug/kg wet	1	20.0	---	85	49-126%	---	---	
Benzo(a)pyrene	18.1	1.25	2.50	ug/kg wet	1	20.0	---	90	45-129%	---	---	
Benzo(b)fluoranthene	18.7	1.25	2.50	ug/kg wet	1	20.0	---	93	45-132%	---	---	
Benzo(k)fluoranthene	17.8	1.25	2.50	ug/kg wet	1	20.0	---	89	47-132%	---	---	
Benzo(g,h,i)perylene	17.4	1.25	2.50	ug/kg wet	1	20.0	---	87	43-134%	---	---	
Chrysene	18.3	1.25	2.50	ug/kg wet	1	20.0	---	91	50-124%	---	---	
Dibenz(a,h)anthracene	15.7	1.25	2.50	ug/kg wet	1	20.0	---	79	45-134%	---	---	
Fluoranthene	19.3	1.25	2.50	ug/kg wet	1	20.0	---	97	50-127%	---	---	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



AMENDED REPORT

Anchor QEA, LLC 6720 SW Macadam Ave. Suite 125 Portland, OR 97219	Project: Gasco PreRD DG 2019 - 2a. Surface Sediments Project Number: [none] Project Manager: Ryan Barth	Report ID: A910771 - 11 12 19 0749
--	--	--

QUALITY CONTROL (QC) SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9100550 - EPA 3546												
Sediment												
LCS (9100550-BS1)												
Prepared: 10/02/19 11:20 Analyzed: 10/02/19 16:39												
Fluorene	16.2	1.25	2.50	ug/kg wet	1	20.0	---	81	43-125%	---	---	
Indeno(1,2,3-cd)pyrene	16.9	1.25	2.50	ug/kg wet	1	20.0	---	84	45-133%	---	---	
2-Methylnaphthalene	15.1	1.25	2.50	ug/kg wet	1	20.0	---	75	38-122%	---	---	
Naphthalene	16.4	1.25	2.50	ug/kg wet	1	20.0	---	82	35-123%	---	---	B-02
Phenanthrene	17.9	1.25	2.50	ug/kg wet	1	20.0	---	90	50-121%	---	---	
Pyrene	17.9	1.25	2.50	ug/kg wet	1	20.0	---	89	47-127%	---	---	
<i>Surr: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 71 %</i>		<i>Limits: 44-115 %</i>		<i>Dilution: 1x</i>						
<i>p-Terphenyl-d14 (Surr)</i>		<i>79 %</i>		<i>54-127 %</i>		<i>"</i>						

Matrix Spike (9100550-MS1)												
Prepared: 10/02/19 11:20 Analyzed: 10/02/19 17:47												
QC Source Sample: PDI-102SG-00-01-190923 (A910771-06RE3)												
EPA 8270D												
Acenaphthene	1380	26.4	52.9	ug/kg dry	10	42.3	599	1840	40-122%	---	---	Q-03
Acenaphthylene	99.0	26.4	52.9	ug/kg dry	10	42.3	51.5	112	32-132%	---	---	
Anthracene	353	26.4	52.9	ug/kg dry	10	42.3	110	573	47-123%	---	---	Q-03
Benz(a)anthracene	278	26.4	52.9	ug/kg dry	10	42.3	163	274	49-126%	---	---	Q-03
Benzo(a)pyrene	203	26.4	52.9	ug/kg dry	10	42.3	179	56	45-129%	---	---	
Benzo(b)fluoranthene	272	26.4	52.9	ug/kg dry	10	42.3	189	195	45-132%	---	---	Q-03
Benzo(k)fluoranthene	115	26.4	52.9	ug/kg dry	10	42.3	72.8	99	47-132%	---	---	
Benzo(g,h,i)perylene	147	26.4	52.9	ug/kg dry	10	42.3	137	23	43-134%	---	---	Q-03
Chrysene	373	26.4	52.9	ug/kg dry	10	42.3	187	440	50-124%	---	---	Q-03
Dibenz(a,h)anthracene	48.8	26.4	52.9	ug/kg dry	10	42.3	ND	115	45-134%	---	---	J
Fluoranthene	1280	26.4	52.9	ug/kg dry	10	42.3	652	1490	50-127%	---	---	Q-03
Fluorene	921	26.4	52.9	ug/kg dry	10	42.3	362	1320	43-125%	---	---	Q-03
Indeno(1,2,3-cd)pyrene	136	26.4	52.9	ug/kg dry	10	42.3	117	45	45-133%	---	---	
2-Methylnaphthalene	61.8	26.4	52.9	ug/kg dry	10	42.3	39.9	52	38-122%	---	---	
Naphthalene	127	26.4	52.9	ug/kg dry	10	42.3	71.6	132	35-123%	---	---	B-02, Q-03
Phenanthrene	2400	26.4	52.9	ug/kg dry	10	42.3	1050	3190	50-121%	---	---	Q-03
Pyrene	961	26.4	52.9	ug/kg dry	10	42.3	562	944	47-127%	---	---	Q-03
<i>Surr: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 49 %</i>		<i>Limits: 44-115 %</i>		<i>Dilution: 10x</i>						
<i>p-Terphenyl-d14 (Surr)</i>		<i>55 %</i>		<i>54-127 %</i>		<i>"</i>						

Matrix Spike (9100550-MS2)												
Prepared: 10/02/19 11:20 Analyzed: 10/02/19 20:27												

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



AMENDED REPORT

Anchor QEA, LLC 6720 SW Macadam Ave. Suite 125 Portland, OR 97219	Project: Gasco PreRD DG 2019 - 2a. Surface Sediments Project Number: [none] Project Manager: Ryan Barth	Report ID: A910771 - 11 12 19 0749
--	--	--

QUALITY CONTROL (QC) SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9100550 - EPA 3546												
Sediment												
Matrix Spike (9100550-MS2) Prepared: 10/02/19 11:20 Analyzed: 10/02/19 20:27												
QC Source Sample: Non-SDG (A910936-22)												
EPA 8270D												
Acenaphthene	31800	2090	4190	ug/kg dry	1000	33.5	33000	-3570	40-122%	---	---	Q-11
Acenaphthylene	3840	2090	4190	ug/kg dry	1000	33.5	4390	-1620	32-132%	---	---	J, Q-11
Anthracene	25900	2090	4190	ug/kg dry	1000	33.5	30000	-12300	47-123%	---	---	Q-11
Benz(a)anthracene	30700	2090	4190	ug/kg dry	1000	33.5	35200	-13300	49-126%	---	---	Q-11
Benzo(a)pyrene	53700	2090	4190	ug/kg dry	1000	33.5	59900	-18500	45-129%	---	---	Q-11
Benzo(b)fluoranthene	44000	2090	4190	ug/kg dry	1000	33.5	48300	-12900	45-132%	---	---	Q-11
Benzo(k)fluoranthene	14300	2090	4190	ug/kg dry	1000	33.5	15000	-1960	47-132%	---	---	Q-11
Benzo(g,h,i)perylene	53400	2090	4190	ug/kg dry	1000	33.5	56500	-9300	43-134%	---	---	Q-11
Chrysene	39800	2090	4190	ug/kg dry	1000	33.5	44000	-12500	50-124%	---	---	Q-11
Dibenz(a,h)anthracene	3770	2090	4190	ug/kg dry	1000	33.5	3940	-508	45-134%	---	---	J, Q-11
Fluoranthene	123000	2090	4190	ug/kg dry	1000	33.5	131000	-21500	50-127%	---	---	Q-11
Fluorene	11400	2090	4190	ug/kg dry	1000	33.5	12100	-2040	43-125%	---	---	Q-11
Indeno(1,2,3-cd)pyrene	39300	2090	4190	ug/kg dry	1000	33.5	42800	-10500	45-133%	---	---	Q-11
2-Methylnaphthalene	3890	2090	4190	ug/kg dry	1000	33.5	3880	40	38-122%	---	---	J, Q-11
Naphthalene	13900	2090	4190	ug/kg dry	1000	33.5	12200	5240	35-123%	---	---	B-02, Q-11
Phenanthrene	115000	2090	4190	ug/kg dry	1000	33.5	119000	-12900	50-121%	---	---	Q-11
Pyrene	145000	2090	4190	ug/kg dry	1000	33.5	145000	-2290	47-127%	---	---	Q-11
<i>Surr: 2-Fluorobiphenyl (Surr)</i> Recovery: 160 % Limits: 44-115 % Dilution: 1000x S-05												
<i>p-Terphenyl-d14 (Surr)</i> 150 % 54-127 % " S-05												

Matrix Spike Dup (9100550-MSD1) Prepared: 10/02/19 11:21 Analyzed: 10/02/19 18:19												
QC Source Sample: PDI-102SG-00-01-190923 (A910771-06RE3)												
EPA 8270D												
Acenaphthene	795	26.4	52.8	ug/kg dry	10	42.2	599	465	40-122%	54	30%	Q-03
Acenaphthylene	79.8	26.4	52.8	ug/kg dry	10	42.2	51.5	67	32-132%	21	30%	
Anthracene	153	26.4	52.8	ug/kg dry	10	42.2	110	102	47-123%	79	30%	Q-03
Benz(a)anthracene	294	26.4	52.8	ug/kg dry	10	42.2	163	311	49-126%	5	30%	Q-03
Benzo(a)pyrene	284	26.4	52.8	ug/kg dry	10	42.2	179	249	45-129%	33	30%	Q-03
Benzo(b)fluoranthene	292	26.4	52.8	ug/kg dry	10	42.2	189	244	45-132%	7	30%	Q-03
Benzo(k)fluoranthene	114	26.4	52.8	ug/kg dry	10	42.2	72.8	97	47-132%	0.9	30%	
Benzo(g,h,i)perylene	193	26.4	52.8	ug/kg dry	10	42.2	137	133	43-134%	27	30%	
Chrysene	301	26.4	52.8	ug/kg dry	10	42.2	187	270	50-124%	21	30%	Q-03

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



AMENDED REPORT

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125
Portland, OR 97219

Project: **Gasco PreRD DG 2019 - 2a. Surface Sediments**

Project Number: [none]
Project Manager: Ryan Barth

Report ID:
A910771 - 11 12 19 0749

QUALITY CONTROL (QC) SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9100550 - EPA 3546												
Sediment												
Matrix Spike Dup (9100550-MSD1)												
Prepared: 10/02/19 11:21 Analyzed: 10/02/19 18:19												
QC Source Sample: PDI-102SG-00-01-190923 (A910771-06RE3)												
Dibenz(a,h)anthracene	50.2	26.4	52.8	ug/kg dry	10	42.2	ND	119	45-134%	3	30%	J
Fluoranthene	915	26.4	52.8	ug/kg dry	10	42.2	652	621	50-127%	33	30%	Q-03
Fluorene	489	26.4	52.8	ug/kg dry	10	42.2	362	300	43-125%	61	30%	Q-03
Indeno(1,2,3-cd)pyrene	170	26.4	52.8	ug/kg dry	10	42.2	117	127	45-133%	23	30%	
2-Methylnaphthalene	54.5	26.4	52.8	ug/kg dry	10	42.2	39.9	34	38-122%	13	30%	Q-03
Naphthalene	116	26.4	52.8	ug/kg dry	10	42.2	71.6	105	35-123%	9	30%	B-02
Phenanthrene	1190	26.4	52.8	ug/kg dry	10	42.2	1050	315	50-121%	68	30%	Q-03
Pyrene	821	26.4	52.8	ug/kg dry	10	42.2	562	615	47-127%	16	30%	Q-03
Surr: 2-Fluorobiphenyl (Surr) Recovery: 61 % Limits: 44-115 % Dilution: 10x												
p-Terphenyl-d14 (Surr) 73 % 54-127 % "												

Matrix Spike Dup (9100550-MSD2)												
Prepared: 10/02/19 11:22 Analyzed: 10/02/19 20:59												
QC Source Sample: Non-SDG (A910936-22)												
Acenaphthene	29400	2090	4180	ug/kg dry	1000	33.5	33000	-10900	40-122%	8	30%	Q-11
Acenaphthylene	3290	2090	4180	ug/kg dry	1000	33.5	4390	-3280	32-132%	16	30%	J, Q-11
Anthracene	22900	2090	4180	ug/kg dry	1000	33.5	30000	-21400	47-123%	12	30%	Q-11
Benz(a)anthracene	27300	2090	4180	ug/kg dry	1000	33.5	35200	-23600	49-126%	12	30%	Q-11
Benzo(a)pyrene	48000	2090	4180	ug/kg dry	1000	33.5	59900	-35500	45-129%	11	30%	Q-11
Benzo(b)fluoranthene	38700	2090	4180	ug/kg dry	1000	33.5	48300	-28900	45-132%	13	30%	Q-11
Benzo(k)fluoranthene	12500	2090	4180	ug/kg dry	1000	33.5	15000	-7250	47-132%	13	30%	Q-11
Benzo(g,h,i)perylene	46500	2090	4180	ug/kg dry	1000	33.5	56500	-30100	43-134%	14	30%	Q-11
Chrysene	34900	2090	4180	ug/kg dry	1000	33.5	44000	-27200	50-124%	13	30%	Q-11
Dibenz(a,h)anthracene	3280	2090	4180	ug/kg dry	1000	33.5	3940	-1970	45-134%	14	30%	J, Q-11
Fluoranthene	108000	2090	4180	ug/kg dry	1000	33.5	131000	-68600	50-127%	14	30%	Q-11
Fluorene	10400	2090	4180	ug/kg dry	1000	33.5	12100	-5130	43-125%	9	30%	Q-11
Indeno(1,2,3-cd)pyrene	34300	2090	4180	ug/kg dry	1000	33.5	42800	-25200	45-133%	13	30%	Q-11
2-Methylnaphthalene	3140	2090	4180	ug/kg dry	1000	33.5	3880	-2220	38-122%	22	30%	J, Q-11
Naphthalene	11300	2090	4180	ug/kg dry	1000	33.5	12200	-2600	35-123%	21	30%	B-02, Q-11
Phenanthrene	99400	2090	4180	ug/kg dry	1000	33.5	119000	-58300	50-121%	14	30%	Q-11
Pyrene	121000	2090	4180	ug/kg dry	1000	33.5	145000	-71600	47-127%	17	30%	Q-11
Surr: 2-Fluorobiphenyl (Surr) Recovery: 140 % Limits: 44-115 % Dilution: 1000x S-05												
p-Terphenyl-d14 (Surr) 150 % 54-127 % " S-05												

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



AMENDED REPORT

Anchor QEA, LLC 6720 SW Macadam Ave. Suite 125 Portland, OR 97219	Project: Gasco PreRD DG 2019 - 2a. Surface Sediments Project Number: [none] Project Manager: Ryan Barth	Report ID: A910771 - 11 12 19 0749
--	---	--

QUALITY CONTROL (QC) SAMPLE RESULTS

Demand Parameters

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9091328 - PSEP-5310B TOC						Sediment						
Blank (9091328-BLK1)			Prepared: 09/26/19 10:43 Analyzed: 10/03/19 10:57									
<u>SM 5310 B MOD</u>												
Total Organic Carbon	ND	0.020	0.020	% by Weight	1	---	---	---	---	---	---	AMEND
LCS (9091328-BS1)			Prepared: 09/26/19 10:43 Analyzed: 10/03/19 11:18									
<u>SM 5310 B MOD</u>												
Total Organic Carbon	10000			mg/kg	1	10000	---	100	90-110%	---	---	AMEND
Duplicate (9091328-DUP1)			Prepared: 09/26/19 10:43 Analyzed: 10/03/19 12:05									
<u>QC Source Sample: PDI-102SG-00-01-190923 (A910771-06)</u>												
<u>SM 5310 B MOD</u>												
Total Organic Carbon	2.1	0.020	0.020	% by Weight	1	---	2.1	---	---	3	20%	AMEND

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street
 Tigard, OR 97223
 503-718-2323
 EPA ID: OR01039

AMENDED REPORT

Anchor QEA, LLC 6720 SW Macadam Ave. Suite 125 Portland, OR 97219	Project: Gasco PreRD DG 2019 - 2a. Surface Sediments Project Number: [none] Project Manager: Ryan Barth	Report ID: A910771 - 11 12 19 0749
--	---	---

QUALITY CONTROL (QC) SAMPLE RESULTS

Solid and Moisture Determinations

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9091299 - Total Solids (SM2540G/PSEP)						Sediment						
Duplicate (9091299-DUP1)						Prepared: 09/25/19 17:40 Analyzed: 09/27/19 18:00						
<u>QC Source Sample: PDI-102SG-00-01-190923 (A910771-06)</u>												
<u>SM 2540 G</u>												
Total Solids	44.5	1.00	1.00	% by Weight	1	---	45.0	---	---	1	10%	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



AMENDED REPORT

Anchor QEA, LLC 6720 SW Macadam Ave. Suite 125 Portland, OR 97219	Project: Gasco PreRD DG 2019 - 2a. Surface Sediments Project Number: [none] Project Manager: Ryan Barth	Report ID: A910771 - 11 12 19 0749
--	---	--

SAMPLE PREPARATION INFORMATION

Organochlorine Pesticides by EPA 8081B

Prep: EPA 3546/3640A (GPC)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 9091407</u>							
A910771-01RE2	Sediment	EPA 8081B	09/23/19 17:05	09/26/19 07:17	10.08g/10mL	10g/5mL	1.98
A910771-02RE1	Sediment	EPA 8081B	09/23/19 17:10	09/26/19 07:17	10.18g/10mL	10g/5mL	1.96
A910771-03RE1	Sediment	EPA 8081B	09/24/19 11:19	09/26/19 07:17	10.08g/10mL	10g/5mL	1.98
A910771-04RE1	Sediment	EPA 8081B	09/24/19 13:00	09/26/19 07:17	10.4g/10mL	10g/5mL	1.92
A910771-05RE2	Sediment	EPA 8081B	09/23/19 13:35	09/26/19 07:17	10.16g/10mL	10g/5mL	1.97
A910771-06RE1	Sediment	EPA 8081B	09/23/19 15:05	09/26/19 07:17	10.14g/10mL	10g/5mL	1.97

Polyaromatic Hydrocarbons (PAHs) by EPA 8270D

Prep: EPA 3546

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 9091304</u>							
A910771-01	Sediment	EPA 8270D	09/23/19 17:05	09/26/19 07:03	10.57g/5mL	10g/5mL	0.95
A910771-01RE1	Sediment	EPA 8270D	09/23/19 17:05	09/26/19 07:03	10.57g/5mL	10g/5mL	0.95
A910771-02	Sediment	EPA 8270D	09/23/19 17:10	09/26/19 07:03	10.33g/5mL	10g/5mL	0.97
A910771-02RE1	Sediment	EPA 8270D	09/23/19 17:10	09/26/19 07:03	10.33g/5mL	10g/5mL	0.97
A910771-03	Sediment	EPA 8270D	09/24/19 11:19	09/26/19 07:03	10.07g/5mL	10g/5mL	0.99
A910771-03RE1	Sediment	EPA 8270D	09/24/19 11:19	09/26/19 07:03	10.07g/5mL	10g/5mL	0.99
<u>Batch: 9100550</u>							
A910771-04RE3	Sediment	EPA 8270D	09/24/19 13:00	10/02/19 11:20	10.96g/5mL	10g/5mL	0.91
A910771-05RE3	Sediment	EPA 8270D	09/23/19 13:35	10/02/19 11:20	10.63g/5mL	10g/5mL	0.94
A910771-06RE3	Sediment	EPA 8270D	09/23/19 15:05	10/02/19 11:20	10.59g/5mL	10g/5mL	0.94

Demand Parameters

Prep: PSEP-5310B TOC

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 9091328</u>							
A910771-01	Sediment	SM 5310 B MOD	09/23/19 17:05	09/26/19 10:43			NA
A910771-02	Sediment	SM 5310 B MOD	09/23/19 17:10	09/26/19 10:43			NA
A910771-03	Sediment	SM 5310 B MOD	09/24/19 11:19	09/26/19 10:43			NA
A910771-04	Sediment	SM 5310 B MOD	09/24/19 13:00	09/26/19 10:43			NA
A910771-05	Sediment	SM 5310 B MOD	09/23/19 13:35	09/26/19 10:43			NA
A910771-06	Sediment	SM 5310 B MOD	09/23/19 15:05	09/26/19 10:43			NA

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street
 Tigard, OR 97223
 503-718-2323
 EPA ID: OR01039

AMENDED REPORT

Anchor QEA, LLC 6720 SW Macadam Ave. Suite 125 Portland, OR 97219	Project: Gasco PreRD DG 2019 - 2a. Surface Sediments Project Number: [none] Project Manager: Ryan Barth	Report ID: A910771 - 11 12 19 0749
--	---	---

SAMPLE PREPARATION INFORMATION

Solid and Moisture Determinations

<u>Prep: Total Solids (SM2540G/PSEP)</u>					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 9091299</u>							
A910771-01	Sediment	SM 2540 G	09/23/19 17:05	09/25/19 17:40			NA
A910771-02	Sediment	SM 2540 G	09/23/19 17:10	09/25/19 17:40			NA
A910771-03	Sediment	SM 2540 G	09/24/19 11:19	09/25/19 17:40			NA
A910771-04	Sediment	SM 2540 G	09/24/19 13:00	09/25/19 17:40			NA
A910771-05	Sediment	SM 2540 G	09/23/19 13:35	09/25/19 17:40			NA
A910771-06	Sediment	SM 2540 G	09/23/19 15:05	09/25/19 17:40			NA

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



AMENDED REPORT

Anchor QEA, LLC 6720 SW Macadam Ave. Suite 125 Portland, OR 97219	Project: Gasco PreRD DG 2019 - 2a. Surface Sediments Project Number: [none] Project Manager: Ryan Barth	Report ID: A910771 - 11 12 19 0749
--	---	--

QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

Apex Laboratories

- AMEND** Result for this sample or analyte has been amended from the original report. See Case Narrative for details.
- B** Analyte detected in an associated blank at a level above the MRL. (See Notes and Conventions below.)
- B-02** Analyte detected in an associated blank at a level between one-half the MRL and the MRL. (See Notes and Conventions below.)
- C-05** Extract has undergone a GPC (Gel-Permeation Chromatography) cleanup per EPA 3640A. Reporting levels may be raised due to dilution necessary for cleanup. Sample Final Volume includes the GPC dilution factor, see the Prep page for details.
- E** Estimated Value. The result is above the calibration range of the instrument.
- J** Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified MDL.
- M-05** Estimated results. Peak separation for structural isomers is insufficient for accurate quantification.
- Q-01** Spike recovery and/or RPD is outside acceptance limits.
- Q-03** Spike recovery and/or RPD is outside control limits due to the high concentration of analyte present in the sample.
- Q-04** Spike recovery and/or RPD is outside control limits due to a non-homogeneous sample matrix.
- Q-05** Analyses are not controlled on RPD values from sample and duplicate concentrations that are below 5 times the reporting level.
- Q-11** Spike recovery cannot be accurately quantified due to sample dilution required for high analyte concentration and/or matrix interference.
- Q-18** Matrix Spike results for this extraction batch are not reported due to the high dilution necessary for analysis of the source sample.
- Q-29** Recovery for Lab Control Spike (LCS) is above the upper control limit. Data may be biased high.
- Q-42** Matrix Spike and/or Duplicate analysis was performed on this sample. % Recovery or RPD for this analyte is outside laboratory control limits. (Refer to the QC Section of Analytical Report.)
- R-02** The Reporting Limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.
- S-05** Surrogate recovery is estimated due to sample dilution required for high analyte concentration and/or matrix interference.
- S-06** Surrogate recovery is outside of established control limits.
- X** See Case Narrative.

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



AMENDED REPORT

Anchor QEA, LLC 6720 SW Macadam Ave. Suite 125 Portland, OR 97219	Project: Gasco PreRD DG 2019 - 2a. Surface Sediments Project Number: [none] Project Manager: Ryan Barth	Report ID: A910771 - 11 12 19 0749
--	---	--

REPORTING NOTES AND CONVENTIONS:

Abbreviations:

- DET Analyte DETECTED at or above the detection or reporting limit.
- ND Analyte NOT DETECTED at or above the detection or reporting limit.
- NR Result Not Reported
- RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).
If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting Conventions:

- Basis: Results for soil samples are generally reported on a 100% dry weight basis. The Result Basis is listed following the units as "dry", "wet", or "" (blank) designation.
 - "dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")
See Percent Solids section for details of dry weight analysis.
 - "wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.
 - "" Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) may not be included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

- " --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.
- " *** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to 1/2 the Reporting Limit (RL).
-For Blank hits falling between 1/2 the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.
-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.
For further details, please request a copy of this document.

Apex Laboratories

Darwin Thomas, Business Development Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



AMENDED REPORT

Anchor QEA, LLC 6720 SW Macadam Ave. Suite 125 Portland, OR 97219	Project: Gasco PreRD DG 2019 - 2a. Surface Sediments Project Number: [none] Project Manager: Ryan Barth	Report ID: A910771 - 11 12 19 0749
--	---	---

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
EPA ID: OR01039

AMENDED REPORT

Anchor QEA, LLC 6720 SW Macadam Ave. Suite 125 Portland, OR 97219	Project: Gasco PreRD DG 2019 - 2a. Surface Sediments Project Number: [none] Project Manager: Ryan Barth	Report ID: A910771 - 11 12 19 0749
--	---	--

LABORATORY ACCREDITATION INFORMATION

TNI Certification ID: OR100062 (Primary Accreditation) - EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

Apex Laboratories

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation
<u>All reported analytes are included in Apex Laboratories' current ORELAP scope.</u>					

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation. Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provided by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



AMENDED REPORT

Anchor QEA, LLC Project: **Gasco PreRD DG 2019 - 2a. Surface Sediments**
 6720 SW Macadam Ave. Suite 125 Project Number: [none] Report ID:
 Portland, OR 97219 Project Manager: Ryan Barth A910771 - 11 12 19 0749

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

Anchor QEA
1201 364 Avenue, Suite 2000, Seattle, WA 98101

POC: Delaney Peterson (360-715-2707) Project: Gasco PDI Client: NW Natural
 1605 Cornwell Avenue, Bellingham, WA 98225

COC ID: APEX-20190924-170421
 Sample Custodian: BJ
 Lab: Apex

A910771

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Time	Lab #	Containers	Lab QC	Test Request	Method	TAT**	Preservative
001	FDI-014SG-00-0.78-190923	N	SE	09/23/2019	17:05	1	1	<input type="checkbox"/>	TOC LR Pesticides PAH Total solids (APEX)	SM5310B SM6081B SW8270D SM2540G	30 30 30 30	4°C 4°C 4°C 4°C
002	PDI-1014SG-00-0.78-190923	FD	SE	09/23/2019		1	1	<input type="checkbox"/>	TOC LR Pesticides PAH Total solids (APEX)	SM5310B SM6081B SW8270D SM2540G	30 30 30 30	4°C 4°C 4°C 4°C
003	PDI-015SG-00-0.87-190924	N	SE	09/24/2019	11:19	1	1	<input type="checkbox"/>	TOC LR Pesticides PAH Total solids (APEX)	SM5310B SM6081B SW8270D SM2540G	30 30 30 30	4°C 4°C 4°C 4°C
004	PDI-022SG-00-01-190924	N	SE	09/24/2019	13:00	1	1	<input type="checkbox"/>	TOC LR Pesticides PAH Total solids (APEX)	SM5310B SM6081B SW8270D SM2540G	30 30 30 30	4°C 4°C 4°C 4°C
005	PDI-101SG-00-01-190923	N	SE	09/23/2019	13:35	1	1	<input type="checkbox"/>	TOC LR Pesticides PAH Total solids (APEX)	SM5310B SM6081B SW8270D SM2540G	30 30 30 30	4°C 4°C 4°C 4°C

Comment:

Requested By	Signature	Print Name	Company	Date/Time
Requested By	<i>[Signature]</i>			
Requested By	<i>[Signature]</i>			
Requested By	<i>[Signature]</i>			
Requested By	<i>[Signature]</i>			

Date Printed: 9/24/2019

* Lab QC Requested for sample when box is checked ** TAT = Turn Around Time in DAYS # POC = Project Point of Contact

Page 1 of 3

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

[Signature]



AMENDED REPORT

Anchor QEA, LLC Project: **Gasco PreRD DG 2019 - 2a. Surface Sediments**
 6720 SW Macadam Ave. Suite 125 Project Number: [none] Report ID:
 Portland, OR 97219 Project Manager: Ryan Barth A910771 - 11 12 19 0749

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

ANCHOR QEA, LLC
1031 24th Avenue, Suite 2000, Seattle, WA 98101

POC: Delaney Peterson (360-715-2707) Project: Gasco PDI Client: NW Natural
 1605 Cornwell Avenue, Bellingham, WA 98225

COC ID: A910771
 APEX-20190924-170421
 Sample Custodian: BJ
 Lab: Apex

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Time	Containers	Lab #	OC	Test Request	Method	TAT**	Preservative
005	PDI-1015G-00-01-190923	N	SE	09/23/2019	13:35	1		<input type="checkbox"/>	PAH Total solids (APEX)	SW8270D SM2540G	30 30	4°C 4°C
006	PDI-1025G-00-01-190923	N	SE	09/23/2019	15:05	2		<input checked="" type="checkbox"/>	TOC LR Pesticides PAH Total solids (APEX)	SM5310B SM8081B SW8270D SM2540G	30 30 30 30	4°C 4°C 4°C 4°C
007	PDI-1035G-00-01-190924	N	SE	09/24/2019	14:30	1		<input type="checkbox"/>	Diesel Range Organics TOC SVOCs (QAPP 2b) Total solids (APEX)	SW8015D SM5310B SW8270D SM2540G	30 30 30 30	4°C 4°C 4°C 4°C
008	PDI-1045G-00-01-190924	N	SE	09/24/2019	14:45	1		<input type="checkbox"/>	Diesel Range Organics TOC SVOCs (QAPP 2b) Total solids (APEX)	SW8015D SM5310B SW8270D SM2540G	30 30 30 30	4°C 4°C 4°C 4°C
009	PDI-1055G-00-01-190924	N	SE	09/24/2019	14:00	1		<input type="checkbox"/>	Diesel Range Organics TOC SVOCs (QAPP 2b) Total solids (APEX)	SW8015D SM5310B SW8270D SM2540G	30 30 30 30	4°C 4°C 4°C 4°C

Comment:

Requested By	Signature	Print Name	Company	Date/Time
Requested By	Signature	Print Name	Company	Date/Time
Requested By	Signature	Print Name	Company	Date/Time

Date Printed: 9/24/2019

* Lab OC Requested for sample when box is checked ** TAT = Turn Around Time in DAYS # POC = Project Point of Contact

Page 2 of 3

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



AMENDED REPORT

Anchor QEA, LLC Project: **Gasco PreRD DG 2019 - 2a. Surface Sediments**
 6720 SW Macadam Ave. Suite 125 Project Number: [none] Report ID:
 Portland, OR 97219 Project Manager: Ryan Barth A910771 - 11 12 19 0749

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

ANCHOR QEA
 1201 SW Avenue, Suite 200, Beaverton, WA 98601

POC: * Delaney Peterson (360-715-2707) Project: Gasco PDI Client: NW Natural
 1605 Cornwell Avenue, Bellingham, WA 98225

A910771
 APEX-20190924-170421
 Sample Custodian: BJ
 Lab: Apex

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Time	Lab #	OC	Containers	Test Request	Method	TAT**	Preservative
010	PD-1065G-00-01-190924	N	SE	09/24/2019	15:05	1	<input type="checkbox"/>	1	Diesel Range Organics	SW8015D	30	4°C
									TOC	SM6310B	30	4°C
									SVOCs (OAPP 2b)	SW8270D	30	4°C
									Total solids (APEX)	SM2540G	30	4°C

Comment:

Received By	Signature	Print Name	Company	Date/Time	Relinquished By	Signature	Print Name	Company	Date/Time
		Delaney Peterson	APEX	9/25/19 10:36			Ryan Barth	Anchor QEA	9/24/2019 10:36

Date Printed: 9/24/2019

* Lab OC Requested for sample when box is checked ** TAT = Turn Around Time in DAYS # POC = Project Point of Contact

Page 3 of 3

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



AMENDED REPORT

Anchor QEA, LLC 6720 SW Macadam Ave. Suite 125 Portland, OR 97219	Project: Gasco PreRD DG 2019 - 2a. Surface Sediments Project Number: [none] Project Manager: Ryan Barth	Report ID: A910771 - 11 12 19 0749
--	---	--

APEX LABS COOLER RECEIPT FORM

Client: Anchor Element WO#: A910771

Project/Project #: Gasco PDI

Delivery Info:
Date/time received: 9/25/19 @ 1036 By: JS
Delivered by: Apex Client ESS FedEx UPS Swift Senvoy SDS Other

Cooler Inspection Date/time inspected: 9/25/19 @ 1128 By: JS
Chain of Custody included? Yes No Custody seals? Yes No
Signed/dated by client? Yes No
Signed/dated by Apex? Yes No

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	<u>2.3</u>	<u>2.4</u>					
Received on ice? (Y/N)	<u>Y</u>	<u>Y</u>					
Temp. blanks? (Y/N)	<u>N</u>	<u>N</u>					
Ice type: (Gel/Real/Other)	<u>real</u>	<u>real</u>					
Condition:	<u>good</u>	<u>good</u>					

Cooler out of temp? (Y/N) Possible reason why: _____
If some coolers are in temp and some out, were green dots applied to out of temperature samples? Yes/No/NA
Out of temperature samples form initiated? Yes/No/NA

Samples Inspection: Date/time inspected: 9/25/19 @ 1210 By: [Signature]
All samples intact? Yes No Comments: _____

Bottle labels/COCs agree? Yes No Comments: No T on CoC PDI-10145G-00-0.78-190923, container reads T of 1710

COC/container discrepancies form initiated? Yes No NA
Containers/volumes received appropriate for analysis? Yes No Comments: _____

Do VOA vials have visible headspace? Yes No NA
Comments: _____

Water samples: pH checked: Yes No NA pH appropriate? Yes No NA
Comments: _____

Additional information:

Labeled by: [Signature] Witness: [Signature] Cooler Inspected by: [Signature] See Project Contact Form: Y

**Sample Receipt Documentation
(Work orders, Chain of Custody & Cooler Receipt Forms)**

A9I0771

Apex Laboratories

Client: **Anchor QEA, LLC** Project Manager: **Darwin Thomas**
 Project: **Gasco PreRD_DG 2019 - 2a. Surface Sediments** Project Number: **[none]**

Report To:	Invoice To:
Anchor QEA, LLC	Anchor QEA, LLC Seattle
Ryan Barth	Accounts Payable
6720 SW Macadam Ave. Suite 125	1201 3rd Avenue, Suite 2600
Portland, OR 97219	Seattle, WA 98101
Phone: (503) 670-1108	Phone : (206) 287-9130
Fax: na	Fax: (206) 287-9131

Date Due:	10/09/19 17:00 (10 day TAT)	Date Received:	09/25/19 10:36
Received By:	Jennifer Sutton	Date Logged In:	09/25/19 12:40
Logged In By:	Susan L. Treat		

Cooler #1 received at 2.3°C									
Custody Seals	No	Containers Intact	Yes	COC/Labels Agree	Yes	PH Confirmed	No	Received On Ice	Yes
Temperature OK	Yes								
Cooler #2 received at 2.4°C									
Custody Seals	No	Containers Intact	Yes	COC/Labels Agree	Yes	PH Confirmed	No	Received On Ice	Yes
Temperature OK	Yes								

Analysis	Due	TAT	Expires	Comments
A9I0771-01 PDI-014SG-00-0.78-190923 [Sediment] Sampled 09/23/19				
17:05 (GMT-08:00) Pacific Time (US & Canada) 5 Containers				
Dry Weight				
Dry Weight	09/30/19 17:00	3	03/21/20 17:05	Use Results from TS. Make NR once done.
Project Mgmt				
Data Package	11/20/19 17:00	45	12/31/19 17:05	
Sample Control				
Archive Samples - Frozen	12/26/19 17:00	1	09/24/19 17:05	3 months
Semivols (ECD)				
8081B 2,4+4,4-DDx Only (+Add)	10/08/19 17:00	10	10/07/19 17:05	
Semivols (Scan)				
8270D LL PAH Only (Scan)	10/08/19 17:00	10	10/07/19 17:05	
Wet Chem				
Solids, Total (SM 2540 G,B)	10/08/19 17:00	10	03/21/20 17:05	Use Results for DW. Make NR once done.
Total Organic Carbon - Soil (5310 B)	10/08/19 17:00	10	10/21/19 17:05	

A9I0771

Apex Laboratories

Client: Anchor QEA, LLC	Project Manager: Darwin Thomas
Project: Gasco PreRD_DG 2019 - 2a. Surface Sediments	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
A9I0771-02 PDI-1014SG-00-0.78-190923 [Sediment] Sampled 09/23/19				
17:10 (GMT-08:00) Pacific Time (US & Canada) 5 Containers				
Dry Weight				
Dry Weight	09/30/19 17:00	3	03/21/20 17:10	Use Results from TS. Make NR once done.
Sample Control				
Archive Samples - Frozen	12/26/19 17:00	1	09/24/19 17:10	3 months
Semivols (ECD)				
8081B 2,4+4,4-DDx Only (+Add)	10/08/19 17:00	10	10/07/19 17:10	
Semivols (Scan)				
8270D LL PAH Only (Scan)	10/08/19 17:00	10	10/07/19 17:10	
Wet Chem				
Solids, Total (SM 2540 G,B)	10/08/19 17:00	10	03/21/20 17:10	Use Results for DW. Make NR once done.
Total Organic Carbon - Soil (5310 B)	10/08/19 17:00	10	10/21/19 17:10	

A9I0771-03 PDI-015SG-00-0.87-190924 [Sediment] Sampled 09/24/19				
11:19 (GMT-08:00) Pacific Time (US & Canada) 5 Containers				
Dry Weight				
Dry Weight	09/30/19 17:00	3	03/22/20 11:19	Use Results from TS. Make NR once done.
Sample Control				
Archive Samples - Frozen	12/26/19 17:00	1	09/25/19 11:19	3 months
Semivols (ECD)				
8081B 2,4+4,4-DDx Only (+Add)	10/08/19 17:00	10	10/08/19 11:19	
Semivols (Scan)				
8270D LL PAH Only (Scan)	10/08/19 17:00	10	10/08/19 11:19	
Wet Chem				
Solids, Total (SM 2540 G,B)	10/08/19 17:00	10	03/22/20 11:19	Use Results for DW. Make NR once done.
Total Organic Carbon - Soil (5310 B)	10/08/19 17:00	10	10/22/19 11:19	

A9I0771

Apex Laboratories

Client: Anchor QEA, LLC	Project Manager: Darwin Thomas
Project: Gasco PreRD_DG 2019 - 2a. Surface Sediments	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
Analysis	Due	TAT	Expires	Comments
A9I0771-04 PDI-022SG-00-01-190924 [Sediment] Sampled 09/24/19 13:00				
(GMT-08:00) Pacific Time (US & Canada) 5 Containers				
Dry Weight				
Dry Weight	09/30/19 17:00	3	03/22/20 13:00	Use Results from TS. Make NR once done.
Sample Control				
Archive Samples - Frozen	12/26/19 17:00	1	09/25/19 13:00	3 months
Semivols (ECD)				
8081B 2,4+4,4-DDx Only (+Add)	10/08/19 17:00	10	10/08/19 13:00	
Semivols (Scan)				
8270D LL PAH Only (Scan)	10/08/19 17:00	10	10/08/19 13:00	
Wet Chem				
Solids, Total (SM 2540 G,B)	10/08/19 17:00	10	03/22/20 13:00	Use Results for DW. Make NR once done.
Total Organic Carbon - Soil (5310 B)	10/08/19 17:00	10	10/22/19 13:00	

A9I0771-05 PDI-101SG-00-01-190923 [Sediment] Sampled 09/23/19 13:35				
(GMT-08:00) Pacific Time (US & Canada) 5 Containers				
Dry Weight				
Dry Weight	09/30/19 17:00	3	03/21/20 13:35	Use Results from TS. Make NR once done.
Sample Control				
Archive Samples - Frozen	12/26/19 17:00	1	09/24/19 13:35	3 months
Semivols (ECD)				
8081B 2,4+4,4-DDx Only (+Add)	10/08/19 17:00	10	10/07/19 13:35	
Semivols (Scan)				
8270D LL PAH Only (Scan)	10/08/19 17:00	10	10/07/19 13:35	
Wet Chem				
Solids, Total (SM 2540 G,B)	10/08/19 17:00	10	03/21/20 13:35	Use Results for DW. Make NR once done.
Total Organic Carbon - Soil (5310 B)	10/08/19 17:00	10	10/21/19 13:35	

A9I0771

Apex Laboratories

Client: Anchor QEA, LLC	Project Manager: Darwin Thomas
Project: Gasco PreRD_DG 2019 - 2a. Surface Sediments	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
----------	-----	-----	---------	----------

A9I0771-06 PDI-102SG-00-01-190923 [Sediment] Sampled 09/23/19 15:05

(GMT-08:00) Pacific Time (US & Canada) 14 Containers

Analysis	Due	TAT	Expires	Comments
Dry Weight				
Dry Weight	09/30/19 17:00	3	03/21/20 15:05	Use Results from TS. Make NR once done.
Sample Control				
Archive Samples - Frozen	12/26/19 17:00	1	09/24/19 15:05	3 months
Semivols (ECD)				
8081B 2,4+4,4-DDx Only (+Add)	10/08/19 17:00	10	10/07/19 15:05	MS/MSD this sample
Semivols (Scan)				
8270D LL PAH Only (Scan)	10/08/19 17:00	10	10/07/19 15:05	MS/MSD this sample
Wet Chem				
Solids, Total (SM 2540 G,B)	10/08/19 17:00	10	03/21/20 15:05	Use Results for DW. Make NR once done.
Total Organic Carbon - Soil (5310 B)	10/08/19 17:00	10	10/21/19 15:05	MS/MSD this sample

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

A910771

POC: * Delaney Peterson (360-715-2707)
1605 Cornwall Avenue, Bellingham, WA 98225

Project: Gasco PDI
Client: NW Natural

COC ID: APEX-20190924-170421
Sample Custodian: BJ
Lab: Apex

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative								
001	PDI-014SG-00-0.78-190923	N	SE	09/23/2019	17:05	1	<input type="checkbox"/>	TOC	SM5310B	30	4°C								
								LR Pesticides	SW8081B	30	4°C								
								PAH	SW8270D	30	4°C								
								Total solids (APEX)	SM2540G	30	4°C								
												09/23/2019	13:00	1	<input type="checkbox"/>	TOC	SM5310B	30	4°C
002	PDI-1014SG-00-0.78-190923	FD	SE	09/23/2019	17:05	1	<input type="checkbox"/>	LR Pesticides	SW8081B	30	4°C								
								PAH	SW8270D	30	4°C								
								Total solids (APEX)	SM2540G	30	4°C								
												09/24/2019	11:19	1	<input type="checkbox"/>	TOC	SM5310B	30	4°C
								003	PDI-015SG-00-0.87-190924	N	SE	09/24/2019	11:19	1	<input type="checkbox"/>	LR Pesticides	SW8081B	30	4°C
PAH	SW8270D	30	4°C																
Total solids (APEX)	SM2540G	30	4°C																
				09/24/2019	13:00	1	<input type="checkbox"/>									TOC	SM5310B	30	4°C
004	PDI-022SG-00-01-190924	N	SE	09/24/2019	13:00	1	<input type="checkbox"/>									LR Pesticides	SW8081B	30	4°C
								PAH	SW8270D	30	4°C								
								Total solids (APEX)	SM2540G	30	4°C								
												09/23/2019	13:35	1	<input type="checkbox"/>	TOC	SM5310B	30	4°C
								005	PDI-101SG-00-01-190923	N	SE	09/23/2019	13:35	1	<input type="checkbox"/>	LR Pesticides	SW8081B	30	4°C

Comment:

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>	Signature:	Signature:	Signature:	Signature:
Print Name: D. Peterson	Print Name: <i>[Name]</i>	Print Name:	Print Name:	Print Name:	Print Name:
Company: AQ	Company: <i>[Company]</i>	Company:	Company:	Company:	Company:
Date/Time: 9/25/19 1036	Date/Time: 9/25/19 1036	Date/Time:	Date/Time:	Date/Time:	Date/Time:

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

8910771

POC: * Delaney Peterson (360-715-2707)
1605 Cornwall Avenue, Bellingham, WA 98225

Project: Gasco PDI
Client: NW Natural

COC ID: APEX-20190924-170421
Sample Custodian: BJ
Lab: Apex

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
005	PDI-101SG-00-01-190923	N	SE	09/23/2019	13:35	1	<input type="checkbox"/>	PAH	SW8270D	30	4°C
								Total solids (APEX)	SM2540G	30	4°C
006	PDI-102SG-00-01-190923	N	SE	09/23/2019	15:05	2	<input checked="" type="checkbox"/>	TOC	SM5310B	30	4°C
								LR Pesticides	SW8081B	30	4°C
								PAH	SW8270D	30	4°C
								Total solids (APEX)	SM2540G	30	4°C
007	PDI-103SG-00-01-190924	N	SE	09/24/2019	14:30	1	<input type="checkbox"/>	Diesel Range Organics	SW8015D	30	4°C
								TOC	SM5310B	30	4°C
								SVOCs (QAPP 2b)	SW8270D	30	4°C
								Total solids (APEX)	SM2540G	30	4°C
008	PDI-104SG-00-01-190924	N	SE	09/24/2019	14:45	1	<input type="checkbox"/>	Diesel Range Organics	SW8015D	30	4°C
								TOC	SM5310B	30	4°C
								SVOCs (QAPP 2b)	SW8270D	30	4°C
								Total solids (APEX)	SM2540G	30	4°C
009	PDI-105SG-00-0.99-190924	N	SE	09/24/2019	14:00	1	<input type="checkbox"/>	Diesel Range Organics	SW8015D	30	4°C
								TOC	SM5310B	30	4°C
								SVOCs (QAPP 2b)	SW8270D	30	4°C
								Total solids (APEX)	SM2540G	30	4°C

Comment:

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature	Signature	Signature	Signature	Signature	Signature
Print Name	Print Name	Print Name	Print Name	Print Name	Print Name
Company	Company	Company	Company	Company	Company
Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time
D. Peterson AW 9/25/19 1036	JH Apex 9/25/19 1036				

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

A9I0771

POC: # Delaney Peterson (360-715-2707)
1605 Cornwall Avenue, Bellingham, WA 98225

Project: Gasco PDI
Client: NW Natural

COC ID: APEX-20190924-170421
Sample Custodian: BJ
Lab: Apex

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected		Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
				Date	Time						
010	PDI-106SG-00-01-190924	N	SE	09/24/2019	15:05	1	<input type="checkbox"/>				
								Diesel Range Organics	SW8015D	30	4°C
								TOC	SM5310B	30	4°C
								SVOCs (QAPP 2b)	SW8270D	30	4°C
								Total solids (APEX)	SM2540G	30	4°C

Comment:					
Relinquished By	Received By	Relinquished By	Received By	Relinquished By	Received By
Signature	Signature	Signature	Signature	Signature	Signature
Print Name	Print Name	Print Name	Print Name	Print Name	Print Name
Company	Company	Company	Company	Company	Company
Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time
9.25.19 1036	9/25/19 1036				

APEX LABS COOLER RECEIPT FORM

Client: Anchor Element WO#: A9 I0771

Project/Project #: Gasco PDI

Delivery Info:

Date/time received: 9/25/19 @ 1036 By: JS

Delivered by: Apex Client ESS FedEx UPS Swift Senvoy SDS Other

Cooler Inspection Date/time inspected: 9/25/19 @ 1128 By: JS

Chain of Custody included? Yes No Custody seals? Yes No

Signed/dated by client? Yes No

Signed/dated by Apex? Yes No

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	<u>2.3</u>	<u>2.4</u>					
Received on ice? (Y/N)	<u>Y</u>	<u>Y</u>					
Temp. blanks? (Y/N)	<u>N</u>	<u>N</u>					
Ice type: (Gel/Real/Other)	<u>real</u>	<u>real</u>					
Condition:	<u>good</u>	<u>good</u>					

Cooler out of temp? (Y/N) Possible reason why: _____
If some coolers are in temp and some out, were green dots applied to out of temperature samples? Yes/No/NA

Out of temperature samples form initiated? Yes/No/NA

Samples Inspection: Date/time inspected: 9/25/19 @ 1210 By: [Signature]

All samples intact? Yes No Comments: _____

Bottle labels/COCs agree? Yes No Comments: No T on CoC PDI-1014SG-00-0.78-190923, container reads T of 1710

COC/container discrepancies form initiated? Yes No NA

Containers/volumes received appropriate for analysis? Yes No Comments: _____

Do VOA vials have visible headspace? Yes No NA

Comments: _____

Water samples: pH checked: Yes No NA pH appropriate? Yes No NA

Comments: _____

Additional information: _____

Labeled by: [Signature] Witness: [Signature] Cooler Inspected by: [Signature] See Project Contact Form: Y

CLP-Like Forms

Apex Laboratories

SDG: A9I0771

CLASS: GC

METHOD: EPA 8081B

ANALYSES DATA PACKAGE COVER PAGE

EPA 8081B

Laboratory: Apex Laboratories

SDG: A9I0771

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 2a. Surface Sediments

Client Sample Id:	Lab Sample Id:	Matrix
<u>PDI-014SG-00-0.78-190923</u>	<u>A9I0771-01</u>	<u>Sediment</u>
<u>PDI-1014SG-00-0.78-190923</u>	<u>A9I0771-02</u>	<u>Sediment</u>
<u>PDI-015SG-00-0.87-190924</u>	<u>A9I0771-03</u>	<u>Sediment</u>
<u>PDI-022SG-00-01-190924</u>	<u>A9I0771-04</u>	<u>Sediment</u>
<u>PDI-101SG-00-01-190923</u>	<u>A9I0771-05</u>	<u>Sediment</u>
<u>PDI-102SG-00-01-190923</u>	<u>A9I0771-06</u>	<u>Sediment</u>

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: _____



Name: _____

David G. Jack

Forms Created: _____

11/1/2019 12:20PM

Title: _____

Technical Manager

METHOD DETECTION AND REPORTING LIMITS

EPA 8081B

Laboratory: Apex Laboratories

SDG: A910771

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 2a. Surface Sedi

Batch Matrix: Sediment

Analyte	MDL	MRL	Units
2,4'-DDD [2C]	0.500	1.00	ug/kg
2,4'-DDE	0.500	1.00	ug/kg
2,4'-DDE [2C]	0.500	1.00	ug/kg
2,4'-DDT [2C]	0.500	1.00	ug/kg
4,4'-DDD	0.500	1.00	ug/kg
4,4'-DDD [2C]	0.500	1.00	ug/kg
4,4'-DDE	0.500	1.00	ug/kg
4,4'-DDE [2C]	0.500	1.00	ug/kg
4,4'-DDT [2C]	0.500	1.00	ug/kg

Note: MDLs are listed only if the corresponding analyte was evaluated to the MDL in this report .

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

PDI-014SG-00-0.78-190923

Laboratory: <u>Apex Laboratories</u>	SDG: <u>A9I0771</u>	
Client: <u>Anchor QEA, LLC</u>	Project: <u>Gasco PreRD_DG 2019 - 2a. Surface Sediments</u>	
Matrix: <u>Sediment</u>	Laboratory ID: <u>A9I0771-01RE2</u>	File ID: <u>ECD5-10071908.D</u>
Sampled: <u>09/23/19 17:05</u>	Prepared: <u>09/26/19 07:17</u>	Analyzed: <u>10/07/19 13:56</u>
Solids: <u>56.34</u>	Preparation: <u>EPA 3546/3640A (GPC)</u>	Initial/Final: <u>10.08 g / 10 mL</u>
Batch: <u>9091407</u>	Sequence: <u>9J07042</u>	Calibration: <u>A9H2608</u> Instrument: <u>DUALECD5</u>

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
53-19-0	2,4'-DDD [2C]	20	35.2	U
3424-82-6	2,4'-DDE [2C]	20	35.2	U
789-02-6	2,4'-DDT [2C]	20	35.2	U
72-54-8	4,4'-DDD	20	71.4	D
72-55-9	4,4'-DDE [2C]	20	35.2	U
50-29-3	4,4'-DDT [2C]	20	70.4	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX (Surr) [2C]	88.0	70.8	80	42 - 129	
Decachlorobiphenyl (Surr)	88.0	85.4	97	55 - 130	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

PDI-1014SG-00-0.78-190923

Laboratory: <u>Apex Laboratories</u>	SDG: <u>A9I0771</u>	
Client: <u>Anchor QEA, LLC</u>	Project: <u>Gasco PreRD_DG 2019 - 2a. Surface Sediments</u>	
Matrix: <u>Sediment</u>	Laboratory ID: <u>A9I0771-02RE1</u>	File ID: <u>ECD5-10031916.D</u>
Sampled: <u>09/23/19 17:10</u>	Prepared: <u>09/26/19 07:17</u>	Analyzed: <u>10/03/19 16:03</u>
Solids: <u>56.39</u>	Preparation: <u>EPA 3546/3640A (GPC)</u>	Initial/Final: <u>10.18 g / 10 mL</u>
Batch: <u>9091407</u>	Sequence: <u>9J03031</u>	Calibration: <u>A9H2608</u>
		Instrument: <u>DUALECD5</u>

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
53-19-0	2,4'-DDD [2C]	10	34.8	U
3424-82-6	2,4'-DDE [2C]	10	34.8	U
789-02-6	2,4'-DDT [2C]	10	34.8	U
72-54-8	4,4'-DDD	10	81.7	D
72-55-9	4,4'-DDE	10	34.8	U
50-29-3	4,4'-DDT [2C]	10	62.7	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX (Surr) [2C]	87.1	65.5	75	42 - 129	
Decachlorobiphenyl (Surr)	87.1	98.9	114	55 - 130	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

PDI-015SG-00-0.87-190924

Laboratory: <u>Apex Laboratories</u>	SDG: <u>A9I0771</u>	
Client: <u>Anchor QEA, LLC</u>	Project: <u>Gasco PreRD_DG 2019 - 2a. Surface Sediments</u>	
Matrix: <u>Sediment</u>	Laboratory ID: <u>A9I0771-03RE1</u>	File ID: <u>ECD5-10031919.D</u>
Sampled: <u>09/24/19 11:19</u>	Prepared: <u>09/26/19 07:17</u>	Analyzed: <u>10/03/19 16:55</u>
Solids: <u>67.47</u>	Preparation: <u>EPA 3546/3640A (GPC)</u>	Initial/Final: <u>10.08 g / 10 mL</u>
Batch: <u>9091407</u>	Sequence: <u>9J03031</u>	Calibration: <u>A9H2608</u>
		Instrument: <u>DUALECD5</u>

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
53-19-0	2,4'-DDD [2C]	10	29.4	U
3424-82-6	2,4'-DDE [2C]	10	29.4	U
789-02-6	2,4'-DDT [2C]	10	29.4	U
72-54-8	4,4'-DDD	10	56.5	D
72-55-9	4,4'-DDE	10	14.7	U
50-29-3	4,4'-DDT [2C]	10	47.1	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX (Surr) [2C]	73.5	61.7	84	42 - 129	
Decachlorobiphenyl (Surr)	73.5	93.9	128	55 - 130	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

PDI-022SG-00-01-190924

Laboratory: <u>Apex Laboratories</u>	SDG: <u>A9I0771</u>	
Client: <u>Anchor QEA, LLC</u>	Project: <u>Gasco PreRD_DG 2019 - 2a. Surface Sediments</u>	
Matrix: <u>Sediment</u>	Laboratory ID: <u>A9I0771-04RE1</u>	File ID: <u>ECD5-10031925.D</u>
Sampled: <u>09/24/19 13:00</u>	Prepared: <u>09/26/19 07:17</u>	Analyzed: <u>10/03/19 18:38</u>
Solids: <u>61.36</u>	Preparation: <u>EPA 3546/3640A (GPC)</u>	Initial/Final: <u>10.4 g / 10 mL</u>
Batch: <u>9091407</u>	Sequence: <u>9J03031</u>	Calibration: <u>A9H2608</u>
		Instrument: <u>DUALECD5</u>

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
53-19-0	2,4'-DDD [2C]	1	3.13	U
3424-82-6	2,4'-DDE	1	1.57	U
789-02-6	2,4'-DDT [2C]	1	1.57	U
72-54-8	4,4'-DDD [2C]	1	5.76	
72-55-9	4,4'-DDE [2C]	1	3.13	U
50-29-3	4,4'-DDT [2C]	1	1.57	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX (Surr) [2C]	78.4	47.3	60	42 - 129	
Decachlorobiphenyl (Surr) [2C]	78.4	74.8	95	55 - 130	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

PDI-101SG-00-01-190923

Laboratory: <u>Apex Laboratories</u>	SDG: <u>A9I0771</u>	
Client: <u>Anchor QEA, LLC</u>	Project: <u>Gasco PreRD_DG 2019 - 2a. Surface Sediments</u>	
Matrix: <u>Sediment</u>	Laboratory ID: <u>A9I0771-05RE2</u>	File ID: <u>ECD5-10071912.D</u>
Sampled: <u>09/23/19 13:35</u>	Prepared: <u>09/26/19 07:17</u>	Analyzed: <u>10/07/19 15:06</u>
Solids: <u>40.20</u>	Preparation: <u>EPA 3546/3640A (GPC)</u>	Initial/Final: <u>10.16 g / 10 mL</u>
Batch: <u>9091407</u>	Sequence: <u>9J07042</u>	Calibration: <u>A9H2608</u>
		Instrument: <u>DUALECD5</u>

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
53-19-0	2,4'-DDD [2C]	2	9.79	U
3424-82-6	2,4'-DDE	2	9.79	U
789-02-6	2,4'-DDT [2C]	2	4.90	U
72-54-8	4,4'-DDD [2C]	2	9.82	D
72-55-9	4,4'-DDE	2	4.90	U
50-29-3	4,4'-DDT [2C]	2	4.90	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX (Surr) [2C]	122	78.2	64	42 - 129	
Decachlorobiphenyl (Surr) [2C]	122	157	128	55 - 130	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

PDI-102SG-00-01-190923

Laboratory: <u>Apex Laboratories</u>	SDG: <u>A9I0771</u>	
Client: <u>Anchor QEA, LLC</u>	Project: <u>Gasco PreRD_DG 2019 - 2a. Surface Sediments</u>	
Matrix: <u>Sediment</u>	Laboratory ID: <u>A9I0771-06RE1</u>	File ID: <u>ECD5-10031931.D</u>
Sampled: <u>09/23/19 15:05</u>	Prepared: <u>09/26/19 07:17</u>	Analyzed: <u>10/03/19 20:21</u>
Solids: <u>45.03</u>	Preparation: <u>EPA 3546/3640A (GPC)</u>	Initial/Final: <u>10.14 g / 10 mL</u>
Batch: <u>9091407</u>	Sequence: <u>9J03031</u>	Calibration: <u>A9H2608</u> Instrument: <u>DUALECD5</u>

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
53-19-0	2,4'-DDD [2C]	1	4.38	U
3424-82-6	2,4'-DDE	1	2.19	U
789-02-6	2,4'-DDT [2C]	1	2.19	U
72-54-8	4,4'-DDD [2C]	1	3.87	J
72-55-9	4,4'-DDE [2C]	1	2.19	U
50-29-3	4,4'-DDT [2C]	1	4.38	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX (Surr) [2C]	110	54.6	50	42 - 129	
Decachlorobiphenyl (Surr) [2C]	110	89.2	81	55 - 130	

* Values outside of QC limits

PREPARATION BATCH SUMMARY

EPA 8081B

Laboratory: Apex Laboratories

SDG: A9I0771

Client: Anchor QEA, LLC

Project: Gasco PreRD DG 2019 - 2a. Surface Sediments

Batch: 9091407

Batch Matrix: Sediment

Preparation: EPA 3546/3640A (GPC)

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	9091407-BLK1	ECD5-10031907.D	09/26/19 07:17	
LCS	9091407-BS1	ECD5-10031908.D	09/26/19 07:17	
PDI-014SG-00-0.78-190923 (Dup)	9091407-DUP2	ECD5-10071910.D	09/26/19 07:17	
PDI-102SG-00-01-190923 (MS)	9091407-MS1	ECD5-10031934.D	09/26/19 07:17	
PDI-102SG-00-01-190923 (MSD)	9091407-MSD1	ECD5-10031937.D	09/26/19 07:17	
PDI-014SG-00-0.78-190923	A9I0771-01RE2	ECD5-10071908.D	09/26/19 07:17	
PDI-1014SG-00-0.78-190923	A9I0771-02RE1	ECD5-10031916.D	09/26/19 07:17	
PDI-015SG-00-0.87-190924	A9I0771-03RE1	ECD5-10031919.D	09/26/19 07:17	
PDI-022SG-00-01-190924	A9I0771-04RE1	ECD5-10031925.D	09/26/19 07:17	
PDI-101SG-00-01-190923	A9I0771-05RE2	ECD5-10071912.D	09/26/19 07:17	
PDI-102SG-00-01-190923	A9I0771-06RE1	ECD5-10031931.D	09/26/19 07:17	

Note: Client samples are listed only if they are included in this report.

Duplicates and Matrix Spike/Duplicates QC Samples are only listed if sourced from a sample included in this report.

LCS / LCS DUPLICATE RECOVERY

EPA 8081B

Laboratory: Apex Laboratories

SDG: A9I0771

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 2a. Surface Sediments

Matrix: Sediment

Batch: 9091407

Laboratory ID: 9091407-BS1

Preparation: EPA 3546/3640A (GPC)

Initial/Final: 10 g / 10 mL

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC. (* = Out)	QC LIMITS REC.
2,4'-DDD [2C]	50.0	35.4	71	50 - 150
2,4'-DDE [2C]	50.0	33.5	67	50 - 150
2,4'-DDT [2C]	50.0	38.1	76	50 - 150
4,4'-DDD [2C]	50.0	38.4	77	50 - 150
4,4'-DDE [2C]	50.0	35.9	72	50 - 150
4,4'-DDT [2C]	50.0	44.7	89	50 - 150

* = Values outside of QC limits

DUPLICATES

PDI-014SG-00-0.78-190923

EPA 8081B

Laboratory: Apex Laboratories

SDG: A9I0771

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 2a. Surface Sedin

Matrix: Sediment

Laboratory ID: 9091407-DUP2

Batch: 9091407

Lab Source ID: A9I0771-01RE2

Preparation: EPA 3546/3640A (GPC)

Initial/Final: 10.09 g / 10 mL

Source Sample Name: PDI-014SG-00-0.78-190923

% Solids: 56.34

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (ug/kg dry)	C	DUPLICATE CONCENTRATION (ug/kg dry)	C	RPD %	Q	METHOD
2,4'-DDD [2C]	30	23.7		ND				EPA 8081B
2,4'-DDE [2C]	30	24.6		ND				EPA 8081B
2,4'-DDT [2C]	30	13.9		ND				EPA 8081B
4,4'-DDD	30	71.4		160		77	*	EPA 8081B
4,4'-DDE [2C]	30	31.5		ND				EPA 8081B
4,4'-DDT [2C]	30	64.2		ND				EPA 8081B

* Values outside of QC limits

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

PDI-102SG-00-01-190923

EPA 8081B

Laboratory: Apex Laboratories

SDG: A9I0771

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 2a. Surface Sediments

Matrix: Sediment

Batch: 9091407

Laboratory ID: 9091407-MS1

Preparation: EPA 3546/3640A (GPC)

Initial/Final: 10.15 g / 10 mL

Source Sample Name: PDI-102SG-00-01-190923

COMPOUND	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC. (*=Out)	QC LIMITS REC.
2,4'-DDD [2C]	109	ND	88.6	81	50 - 150
2,4'-DDE	109	ND	79.5	73	50 - 150
2,4'-DDT [2C]	109	ND	103	94	50 - 150
4,4'-DDD [2C]	109	3.87	110	97	50 - 150
4,4'-DDE [2C]	109	ND	91.9	84	50 - 150
4,4'-DDT [2C]	109	ND	243	223 *	50 - 150

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8081B

PDI-102SG-00-01-190923

Laboratory: Apex Laboratories

SDG: A9I0771

Client: Anchor QEA, LLC

Project: Gasco PreRD DG 2019 - 2a. Surface Sediments

Matrix: Sediment

Batch: 9091407

Laboratory ID: 9091407-MSD1

Preparation: EPA 3546/3640A (GPC)

Initial/Final: 10.1 g / 10 mL

Source Sample Name: PDI-102SG-00-01-190923

COMPOUND	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % RECOVERY	% RPD	QC LIMITS	
					RPD	REC.
2,4'-DDD [2C]	110	86.4	79	2	35	50 - 150
2,4'-DDE	110	75.9	69	5	35	50 - 150
2,4'-DDT [2C]	110	90.6	82	13	35	50 - 150
4,4'-DDD [2C]	110	106	92	4	35	50 - 150
4,4'-DDE [2C]	110	92.7	84	1	35	50 - 150
4,4'-DDT [2C]	110	127	116	63 *	35	50 - 150

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8081B

Laboratory: <u>Apex Laboratories</u>	SDG: <u>A9I0771</u>
Client: <u>Anchor QEA, LLC</u>	Project: <u>Gasco PreRD_DG 2019 - 2a. Surface Sediments</u>
Sequence: <u>9H23034</u>	Instrument: <u>DUALECD5</u>
Matrix: <u>Sediment</u>	Calibration: <u>A9H2608</u>

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Blank	9H23034-ICB1	ECD5-08231907.D	08/23/19 13:33
Cal Standard	9H23034-CAL1	ECD5-08231908.D	08/23/19 13:51
Cal Standard	9H23034-CAL2	ECD5-08231909.D	08/23/19 14:08
Cal Standard	9H23034-CAL3	ECD5-08231910.D	08/23/19 14:25
Cal Standard	9H23034-CAL4	ECD5-08231911.D	08/23/19 14:42
Cal Standard	9H23034-CAL5	ECD5-08231912.D	08/23/19 15:00
Cal Standard	9H23034-CAL6	ECD5-08231913.D	08/23/19 15:17
Cal Standard	9H23034-CAL7	ECD5-08231914.D	08/23/19 15:34
Cal Standard	9H23034-CAL8	ECD5-08231915.D	08/23/19 15:52
Initial Cal Check	9H23034-ICV1	ECD5-08231917.D	08/23/19 16:26
Cal Standard	9H23034-CAL9	ECD5-08231918.D	08/23/19 16:44
Cal Standard	9H23034-CALA	ECD5-08231919.D	08/23/19 17:01
Cal Standard	9H23034-CALB	ECD5-08231920.D	08/23/19 17:18
Cal Standard	9H23034-CALC	ECD5-08231921.D	08/23/19 17:35
Cal Standard	9H23034-CALD	ECD5-08231922.D	08/23/19 17:53
Cal Standard	9H23034-CALE	ECD5-08231923.D	08/23/19 18:10
Cal Standard	9H23034-CALF	ECD5-08231924.D	08/23/19 18:27
Cal Standard	9H23034-CALG	ECD5-08231925.D	08/23/19 18:45
Initial Cal Check	9H23034-ICV2	ECD5-08231927.D	08/23/19 19:19

Note: Client samples are listed only if they are included in this report.
 Duplicates and Matrix Spike/Duplicates QC Samples are only listed if sourced from a sample included in this report.

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8081B

Laboratory: <u>Apex Laboratories</u>	SDG: <u>A9I0771</u>
Client: <u>Anchor QEA, LLC</u>	Project: <u>Gasco PreRD_DG 2019 - 2a. Surface Sediments</u>
Sequence: <u>9J03031</u>	Instrument: <u>DUALECD5</u>
Matrix: <u>Sediment</u>	Calibration: <u>A9H2608</u>

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	9J03031-CCV1	ECD5-10031904.D	10/03/19 12:03
Calibration Check	9J03031-CCV2	ECD5-10031905.D	10/03/19 12:28
Calibration Blank	9J03031-CCB1	ECD5-10031906.D	10/03/19 13:04
Blank	9091407-BLK1	ECD5-10031907.D	10/03/19 13:28
LCS	9091407-BS1	ECD5-10031908.D	10/03/19 13:45
PDI-1014SG-00-0.78-190923	A9I0771-02RE1	ECD5-10031916.D	10/03/19 16:03
PDI-015SG-00-0.87-190924	A9I0771-03RE1	ECD5-10031919.D	10/03/19 16:55
Calibration Check	9J03031-CCV3	ECD5-10031922.D	10/03/19 17:46
Calibration Check	9J03031-CCV4	ECD5-10031923.D	10/03/19 18:04
Calibration Blank	9J03031-CCB2	ECD5-10031924.D	10/03/19 18:21
PDI-022SG-00-01-190924	A9I0771-04RE1	ECD5-10031925.D	10/03/19 18:38
PDI-102SG-00-01-190923	A9I0771-06RE1	ECD5-10031931.D	10/03/19 20:21
PDI-102SG-00-01-190923 (MS)	9091407-MS1	ECD5-10031934.D	10/03/19 21:13
PDI-102SG-00-01-190923 (MSD)	9091407-MSD1	ECD5-10031937.D	10/03/19 22:04
Calibration Check	9J03031-CCV5	ECD5-10031940.D	10/03/19 22:55
Calibration Check	9J03031-CCV6	ECD5-10031941.D	10/03/19 23:13
Calibration Blank	9J03031-CCB3	ECD5-10031942.D	10/03/19 23:30

Note: Client samples are listed only if they are included in this report.
 Duplicates and Matrix Spike/Duplicates QC Samples are only listed if sourced from a sample included in this report.

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8081B

Laboratory: Apex Laboratories

SDG: A9I0771

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 2a. Surface Sediments

Sequence: 9J07042

Instrument: DUALECD5

Matrix: Sediment

Calibration: A9H2608

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	9J07042-CCV1	ECD5-10071904.D	10/07/19 11:58
Calibration Check	9J07042-CCV2	ECD5-10071905.D	10/07/19 12:19
Calibration Blank	9J07042-CCB1	ECD5-10071906.D	10/07/19 13:21
PDI-014SG-00-0.78-190923	A9I0771-01RE2	ECD5-10071908.D	10/07/19 13:56
PDI-014SG-00-0.78-190923 (Dup)	9091407-DUP2	ECD5-10071910.D	10/07/19 14:31
PDI-101SG-00-01-190923	A9I0771-05RE2	ECD5-10071912.D	10/07/19 15:06
Calibration Check	9J07042-CCV3	ECD5-10071924.D	10/07/19 18:33
Calibration Check	9J07042-CCV4	ECD5-10071925.D	10/07/19 18:50
Calibration Blank	9J07042-CCB2	ECD5-10071926.D	10/07/19 19:08
Calibration Check	9J07042-CCV5	ECD5-10071939.D	10/07/19 22:51
Calibration Check	9J07042-CCV6	ECD5-10071940.D	10/07/19 23:09
Calibration Blank	9J07042-CCB3	ECD5-10071941.D	10/07/19 23:26

Note: Client samples are listed only if they are included in this report.

Duplicates and Matrix Spike/Duplicates QC Samples are only listed if sourced from a sample included in this report.

INITIAL CALIBRATION DATA (Summary)

EPA 8081B

Laboratory: Apex Laboratories

SDG: A9I0771

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 2a. Surface Sediments

Calibration: A9H2608

Date: 08/26/19 15:54

Instrument: DUALECD5

Compound	Mean RF	FIT	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
2,4'-DDD [2C]	188863.5	Ave	5.468165	8.495	9.988916E-03			20	
2,4'-DDE	128261.1	Ave	4.012395	7.333375	2.067566E-02			20	
2,4'-DDT [2C]	178339.3	Ave	6.244514	8.719	1.272704E-02			20	
4,4'-DDD	157140.6	Ave	3.110384	8.004875	2.289486E-02			20	
4,4'-DDD [2C]	256213.9	Ave	7.371719	8.758875	1.283137E-02			20	
4,4'-DDE	188529.8	Ave	2.915791	7.584	2.433162E-02			20	
4,4'-DDE [2C]	310677.4	Ave	5.82371	8.344625	1.944609E-02			20	
4,4'-DDT [2C]	189158.9	XXX	11.87705	8.98525	9.169041E-03				
2,4,5,6-TCMX (Surr) [2C]	293366.8	Ave	3.539338	5.98975	1.128579E-02			20	
Decachlorobiphenyl (Surr)	141098.6	Ave	8.332442	9.5925	1.576214E-03			20	
Decachlorobiphenyl (Surr) [2C]	179763.1	Ave	6.182408	10.54062	6.517156E-03			20	

Note: ** Quad COD may be incorrect if weighting (1/a) or (1/a²) used. Weighting not shown here. Please see instrument calibration printouts for validation.

INITIAL CALIBRATION DATA

EPA 8081B

Laboratory: Apex Laboratories

SDG: A9I0771

Client: Anchor QEA, LLC

Project: Gasco PreRD DG 2019 - 2a. Surface Sedime

Calibration: A9H2608

Instrument: DUALECD5

Calibration Date: 08/26/19 15:54

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF
4,4'-DDD	1	164956	2	157311	5	158099.6	10	156597.4	25	149081.4	50	154523.9
4,4'-DDD [2C]	1	251549	2	244060	5	241728.4	10	242549.6	25	245858.8	50	263189
4,4'-DDE	1	193435	2	194309	5	190670.2	10	189093.1	25	182842.6	50	183547.8
4,4'-DDE [2C]	1	298463	2	299033	5	297599.8	10	304979.2	25	300041.9	50	311094.2
4,4'-DDT	1	113897	2	109095	5	110601.8	10	114655.6	25	116978.7	50	124107.4
4,4'-DDT [2C]	1	179700	2	170891	5	174730.6	10	184111.9	25	179215.5	50	185709.8
2,4,5,6-TCMX (Surr)	1	176748	2	174986	5	166841.2	10	164444.7	25	160633.3	50	161429.6
2,4,5,6-TCMX (Surr) [2C]	1	300053	2	300383	5	287575.2	10	286585.4	25	282916.9	50	283935
Decachlorobiphenyl (Surr)	1	163865	2	154952	5	140210	10	133546.8	25	133705.4	50	133579.8
Decachlorobiphenyl (Surr) [2C]	1	191572	2	195003	5	174184.2	10	167872.8	25	166529.2	50	174613.8

INITIAL CALIBRATION DATA (Continued)

EPA 8081B

Laboratory: Apex Laboratories

SDG: A9I0771

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 2a. Surface Sedime

Calibration: A9H2608

Instrument: DUALECD5

Matrix:

Calibration Date: 08/26/19 15:54

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF
2,4'-DDD					1	120240	2	116544.5	5	112188.4	10	110358.7
2,4'-DDD [2C]					1	192040	2	186798	5	179739.4	10	177879
2,4'-DDE					1	137947	2	132606	5	126633.6	10	124526.5
2,4'-DDE [2C]					1	219164	2	205906	5	205937.4	10	201833.1
2,4'-DDT					1	107110	2	102104.5	5	107393.4	10	105156.5
2,4'-DDT [2C]					1	173338	2	166085	5	174614.8	10	170256.8
4,4'-DDD	100	154371.5	200	162184								
4,4'-DDD [2C]	100	262974.8	200	297801.4								
4,4'-DDE	100	180525.5	200	193815.4								
4,4'-DDE [2C]	100	324996	200	349211.8								
4,4'-DDT	100	121769.6	200	145376.1								
4,4'-DDT [2C]	100	197895	200	241017.2								
2,4,5,6-TCMX (Surr)	100	158509.2	200	164212.7								
2,4,5,6-TCMX (Surr) [2C]	100	292563.3	200	312922.3								
Decachlorobiphenyl (Surr)	100	134054	200	134876.2								
Decachlorobiphenyl (Surr) [2C]	100	177840.7	200	190488.9								

INITIAL CALIBRATION DATA (Continued)

EPA 8081B

Laboratory: Apex Laboratories

SDG: A9I0771

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 2a. Surface Sedime

Calibration: A9H2608

Instrument: DUALECD5

Matrix:

Calibration Date: 08/26/19 15:54

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF
2,4'-DDD	25	109807.1	50	118401.9	100	115875.5	200	109584.8				
2,4'-DDD [2C]	25	175567.4	50	198498.7	100	201189.2	200	199196.5				
2,4'-DDE	25	122376.8	50	130211.8	100	127690.7	200	124096				
2,4'-DDE [2C]	25	199969.3	50	220128	100	221644	200	222523				
2,4'-DDT	25	109151.8	50	113746.5	100	117713.5	200	115124.8				
2,4'-DDT [2C]	25	176222.2	50	176211.8	100	189989.7	200	199996.2				

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8081B

Laboratory: <u>Apex Laboratories</u>	SDG: <u>A9I0771</u>
Client: <u>Anchor QEA, LLC</u>	Project: <u>Gasco PreRD_DG 2019 - 2a. Surface Sedin</u>
Instrument ID: <u>DUALECD5</u>	Calibration: <u>A9H2608</u>
Lab File ID: <u>ECD5-08231917.D</u>	
Sequence: <u>9H23034</u>	Inject Date: <u>08/23/19</u>
Lab Sample ID: <u>9H23034-ICV1</u>	Inject Time: <u>16:26</u>

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
4,4'-DDD	50.0	51.2	2.4	70 - 130
4,4'-DDD [2C]	50.0	55.1	10.2	70 - 130
4,4'-DDE	50.0	51.3	2.6	70 - 130
4,4'-DDE [2C]	50.0	52.7	5.3	70 - 130
4,4'-DDT	50.0	53.8	7.5	70 - 130
4,4'-DDT [2C]	50.0	54.1	8.2	70 - 130
2,4,5,6-TCMX (Surr)	50.0	49.5	-1.1	70 - 130
2,4,5,6-TCMX (Surr) [2C]	50.0	49.3	-1.4	70 - 130
Decachlorobiphenyl (Surr)	50.0	49.1	-1.8	70 - 130
Decachlorobiphenyl (Surr) [2C]	50.0	48.2	-3.6	70 - 130

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8081B

Laboratory: Apex Laboratories SDG: A9I0771
Client: Anchor QEA, LLC Project: Gasco PreRD_DG 2019 - 2a. Surface Sedin
Instrument ID: DUALECD5 Calibration: A9H2608
Lab File ID: ECD5-08231927.D
Sequence: 9H23034 Inject Date: 08/23/19
Lab Sample ID: 9H23034-ICV2 Inject Time: 19:19

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
2,4'-DDD	50.0	47.7	-4.7	70 - 130
2,4'-DDD [2C]	50.0	48.8	-2.4	70 - 130
2,4'-DDE	50.0	47.1	-5.7	70 - 130
2,4'-DDE [2C]	50.0	47.9	-4.3	70 - 130
2,4'-DDT	50.0	48.6	-2.8	70 - 130
2,4'-DDT [2C]	50.0	47.1	-5.8	70 - 130

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory: <u>Apex Laboratories</u>	SDG: <u>A9I0771</u>
Client: <u>Anchor QEA, LLC</u>	Project: <u>Gasco PreRD DG 2019 - 2a. Surface Sediments</u>
Instrument ID: <u>DUALECD5</u>	Calibration: <u>A9H2608</u>
Lab File ID: <u>ECD5-10031904.D</u>	Calibration Date: <u>08/26/19 15:54</u>
Sequence: <u>9J03031</u>	Injection Date: <u>10/03/19</u>
Lab Sample ID: <u>9J03031-CCV1</u>	Injection Time: <u>12:03</u>

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
4,4'-DDD	Ave	50.0	42.8		157140.6	134661	-14.3	20
4,4'-DDD [2C]	Ave	50.0	49.2		256213.9	251879.4	-1.7	20
4,4'-DDE	Ave	50.0	44.4		188529.8	167510.7	-11.1	20
4,4'-DDE [2C]	Ave	50.0	49.9		310677.4	310341.8	-0.1	20
4,4'-DDT	Ave	50.0	47.0		119560.1	112491.4	-5.9	20
4,4'-DDT [2C]	XXX	50.0	49.9	-0.2				20

** Quadratic Curve fit may be weighted (1/a or 1/a2).

* = Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory: <u>Apex Laboratories</u>	SDG: <u>A9I0771</u>
Client: <u>Anchor QEA, LLC</u>	Project: <u>Gasco PreRD DG 2019 - 2a. Surface Sediments</u>
Instrument ID: <u>DUALECD5</u>	Calibration: <u>A9H2608</u>
Lab File ID: <u>ECD5-10031905.D</u>	Calibration Date: <u>08/26/19 15:54</u>
Sequence: <u>9J03031</u>	Injection Date: <u>10/03/19</u>
Lab Sample ID: <u>9J03031-CCV2</u>	Injection Time: <u>12:28</u>

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
2,4'-DDD	Ave	50.0	45.7		114125.1	104266.2	-8.6	20
2,4'-DDD [2C]	Ave	50.0	49.4		188863.5	186582.2	-1.2	20
2,4'-DDE	Ave	50.0	48.1		128261.1	123435.6	-3.8	20
2,4'-DDE [2C]	Ave	50.0	51.5		212138.1	218394.4	2.9	20
2,4'-DDT	Ave	50.0	42.9		109687.6	94192.42	-14.1	20
2,4'-DDT [2C]	Ave	50.0	42.9		178339.3	152898.3	-14.3	20

** Quadratic Curve fit may be weighted (1/a or 1/a2).

* = Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory: <u>Apex Laboratories</u>	SDG: <u>A9I0771</u>
Client: <u>Anchor QEA, LLC</u>	Project: <u>Gasco PreRD DG 2019 - 2a. Surface Sediments</u>
Instrument ID: <u>DUALECD5</u>	Calibration: <u>A9H2608</u>
Lab File ID: <u>ECD5-10031922.D</u>	Calibration Date: <u>08/26/19 15:54</u>
Sequence: <u>9J03031</u>	Injection Date: <u>10/03/19</u>
Lab Sample ID: <u>9J03031-CCV3</u>	Injection Time: <u>17:46</u>

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
4,4'-DDD	Ave	100	81.8		157140.6	128531.6	-18.2	20
4,4'-DDD [2C]	Ave	100	98.5		256213.9	252358.4	-1.5	20
4,4'-DDE	Ave	100	80.1		188529.8	151076.6	-19.9	20
4,4'-DDE [2C]	Ave	100	98.6		310677.4	306319.9	-1.4	20
4,4'-DDT	Ave	100	96.7		119560.1	115623.8	-3.3	20
4,4'-DDT [2C]	XXX	100	99.6	-0.4				20

** Quadratic Curve fit may be weighted (1/a or 1/a2).

* = Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory: Apex Laboratories

SDG: A9I0771

Client: Anchor QEA, LLC

Project: Gasco PreRD DG 2019 - 2a. Surface Sediments

Instrument ID: DUALECD5

Calibration: A9H2608

Lab File ID: ECD5-10031923.D

Calibration Date: 08/26/19 15:54

Sequence: 9J03031

Injection Date: 10/03/19

Lab Sample ID: 9J03031-CCV4

Injection Time: 18:04

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
2,4'-DDD	Ave	100	90.7		114125.1	103462.5	-9.3	20
2,4'-DDD [2C]	Ave	100	101		188863.5	191662	1.5	20
2,4'-DDE	Ave	100	89.2		128261.1	114465	-10.8	20
2,4'-DDE [2C]	Ave	100	100		212138.1	212697.3	0.3	20
2,4'-DDT	Ave	100	104		109687.6	114274.8	4.2	20
2,4'-DDT [2C]	Ave	100	111		178339.3	197067.8	10.5	20

** Quadratic Curve fit may be weighted (1/a or 1/a2).

* = Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory: <u>Apex Laboratories</u>	SDG: <u>A9I0771</u>
Client: <u>Anchor QEA, LLC</u>	Project: <u>Gasco PreRD DG 2019 - 2a. Surface Sediments</u>
Instrument ID: <u>DUALECD5</u>	Calibration: <u>A9H2608</u>
Lab File ID: <u>ECD5-10031940.D</u>	Calibration Date: <u>08/26/19 15:54</u>
Sequence: <u>9J03031</u>	Injection Date: <u>10/03/19</u>
Lab Sample ID: <u>9J03031-CCV5</u>	Injection Time: <u>22:55</u>

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
4,4'-DDD	Ave	50.0	39.4		157140.6	123770.6	-21.2*	20
4,4'-DDD [2C]	Ave	50.0	49.5		256213.9	253828.4	-0.9	20
4,4'-DDE	Ave	50.0	39.7		188529.8	149733	-20.6*	20
4,4'-DDE [2C]	Ave	50.0	47.9		310677.4	297656.4	-4.2	20
4,4'-DDT	Ave	50.0	46.5		119560.1	111110.2	-7.1	20
4,4'-DDT [2C]	XXX	50.0	50.4	0.7				20

** Quadratic Curve fit may be weighted (1/a or 1/a2).

* = Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory: Apex Laboratories

SDG: A9I0771

Client: Anchor QEA, LLC

Project: Gasco PreRD DG 2019 - 2a. Surface Sediments

Instrument ID: DUALECD5

Calibration: A9H2608

Lab File ID: ECD5-10031941.D

Calibration Date: 08/26/19 15:54

Sequence: 9J03031

Injection Date: 10/03/19

Lab Sample ID: 9J03031-CCV6

Injection Time: 23:13

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
2,4'-DDD	Ave	50.0	49.3		114125.1	112428.5	-1.5	20
2,4'-DDD [2C]	Ave	50.0	53.5		188863.5	201956	6.9	20
2,4'-DDE	Ave	50.0	46.7		128261.1	119732.7	-6.6	20
2,4'-DDE [2C]	Ave	50.0	52.7		212138.1	223433.6	5.3	20
2,4'-DDT	Ave	50.0	50.2		109687.6	110188.4	0.5	20
2,4'-DDT [2C]	Ave	50.0	53.6		178339.3	191013	7.1	20

** Quadratic Curve fit may be weighted (1/a or 1/a2).

* = Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory: <u>Apex Laboratories</u>	SDG: <u>A9I0771</u>
Client: <u>Anchor QEA, LLC</u>	Project: <u>Gasco PreRD DG 2019 - 2a. Surface Sediments</u>
Instrument ID: <u>DUALECD5</u>	Calibration: <u>A9H2608</u>
Lab File ID: <u>ECD5-10071904.D</u>	Calibration Date: <u>08/26/19 15:54</u>
Sequence: <u>9J07042</u>	Injection Date: <u>10/07/19</u>
Lab Sample ID: <u>9J07042-CCV1</u>	Injection Time: <u>11:58</u>

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
4,4'-DDD	Ave	50.0	39.8		157140.6	124995.2	-20.5*	20
4,4'-DDD [2C]	Ave	50.0	45.8		256213.9	234774.8	-8.4	20
4,4'-DDE	Ave	50.0	41.6		188529.8	156745.7	-16.9	20
4,4'-DDE [2C]	Ave	50.0	46.5		310677.4	288722.4	-7.1	20
4,4'-DDT	Ave	50.0	45.3		119560.1	108333.8	-9.4	20
4,4'-DDT [2C]	XXX	50.0	47.4	-5.3				20

** Quadratic Curve fit may be weighted (1/a or 1/a2).

* = Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory: <u>Apex Laboratories</u>	SDG: <u>A9I0771</u>
Client: <u>Anchor QEA, LLC</u>	Project: <u>Gasco PreRD DG 2019 - 2a. Surface Sediments</u>
Instrument ID: <u>DUALECD5</u>	Calibration: <u>A9H2608</u>
Lab File ID: <u>ECD5-10071905.D</u>	Calibration Date: <u>08/26/19 15:54</u>
Sequence: <u>9J07042</u>	Injection Date: <u>10/07/19</u>
Lab Sample ID: <u>9J07042-CCV2</u>	Injection Time: <u>12:19</u>

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
2,4'-DDD	Ave	50.0	43.7		114125.1	99737.24	-12.6	20
2,4'-DDD [2C]	Ave	50.0	48.4		188863.5	182965.6	-3.1	20
2,4'-DDE	Ave	50.0	42.6		128261.1	109308.8	-14.8	20
2,4'-DDE [2C]	Ave	50.0	49.3		212138.1	209343.6	-1.3	20
2,4'-DDT	Ave	50.0	47.3		109687.6	103678.5	-5.5	20
2,4'-DDT [2C]	Ave	50.0	48.0		178339.3	171303.4	-3.9	20

** Quadratic Curve fit may be weighted (1/a or 1/a2).

* = Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory: <u>Apex Laboratories</u>	SDG: <u>A9I0771</u>
Client: <u>Anchor QEA, LLC</u>	Project: <u>Gasco PreRD DG 2019 - 2a. Surface Sediments</u>
Instrument ID: <u>DUALECD5</u>	Calibration: <u>A9H2608</u>
Lab File ID: <u>ECD5-10071924.D</u>	Calibration Date: <u>08/26/19 15:54</u>
Sequence: <u>9J07042</u>	Injection Date: <u>10/07/19</u>
Lab Sample ID: <u>9J07042-CCV3</u>	Injection Time: <u>18:33</u>

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
4,4'-DDD	Ave	100	82.2		157140.6	129112.1	-17.8	20
4,4'-DDD [2C]	Ave	100	101		256213.9	258341.9	0.8	20
4,4'-DDE	Ave	100	84.5		188529.8	159318.5	-15.5	20
4,4'-DDE [2C]	Ave	100	103		310677.4	318765.3	2.6	20
4,4'-DDT	Ave	100	97.4		119560.1	116495.8	-2.6	20
4,4'-DDT [2C]	XXX	100	100	0.4				20

** Quadratic Curve fit may be weighted (1/a or 1/a2).

* = Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory: <u>Apex Laboratories</u>	SDG: <u>A9I0771</u>
Client: <u>Anchor QEA, LLC</u>	Project: <u>Gasco PreRD DG 2019 - 2a. Surface Sediments</u>
Instrument ID: <u>DUALECD5</u>	Calibration: <u>A9H2608</u>
Lab File ID: <u>ECD5-10071925.D</u>	Calibration Date: <u>08/26/19 15:54</u>
Sequence: <u>9J07042</u>	Injection Date: <u>10/07/19</u>
Lab Sample ID: <u>9J07042-CCV4</u>	Injection Time: <u>18:50</u>

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
2,4'-DDD	Ave	100	87.0		114125.1	99294.06	-13.0	20
2,4'-DDD [2C]	Ave	100	102		188863.5	192673	2.0	20
2,4'-DDE	Ave	100	91.2		128261.1	116943.9	-8.8	20
2,4'-DDE [2C]	Ave	100	103		212138.1	218748.1	3.1	20
2,4'-DDT	Ave	100	109		109687.6	119194.8	8.7	20
2,4'-DDT [2C]	Ave	100	114		178339.3	203421.3	14.1	20

** Quadratic Curve fit may be weighted (1/a or 1/a²).

* = Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory: <u>Apex Laboratories</u>	SDG: <u>A9I0771</u>
Client: <u>Anchor QEA, LLC</u>	Project: <u>Gasco PreRD DG 2019 - 2a. Surface Sediments</u>
Instrument ID: <u>DUALECD5</u>	Calibration: <u>A9H2608</u>
Lab File ID: <u>ECD5-10071939.D</u>	Calibration Date: <u>08/26/19 15:54</u>
Sequence: <u>9J07042</u>	Injection Date: <u>10/07/19</u>
Lab Sample ID: <u>9J07042-CCV5</u>	Injection Time: <u>22:51</u>

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
4,4'-DDD	Ave	50.0	41.8		157140.6	131431.5	-16.4	20
4,4'-DDD [2C]	Ave	50.0	49.2		256213.9	251993.2	-1.6	20
4,4'-DDE	Ave	50.0	41.3		188529.8	155728.8	-17.4	20
4,4'-DDE [2C]	Ave	50.0	48.7		310677.4	302487.2	-2.6	20
4,4'-DDT	Ave	50.0	51.4		119560.1	122931	2.8	20
4,4'-DDT [2C]	XXX	50.0	55.2	10.4				20

** Quadratic Curve fit may be weighted (1/a or 1/a2).

* = Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory: <u>Apex Laboratories</u>	SDG: <u>A9I0771</u>
Client: <u>Anchor QEA, LLC</u>	Project: <u>Gasco PreRD DG 2019 - 2a. Surface Sediments</u>
Instrument ID: <u>DUALECD5</u>	Calibration: <u>A9H2608</u>
Lab File ID: <u>ECD5-10071940.D</u>	Calibration Date: <u>08/26/19 15:54</u>
Sequence: <u>9J07042</u>	Injection Date: <u>10/07/19</u>
Lab Sample ID: <u>9J07042-CCV6</u>	Injection Time: <u>23:09</u>

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
2,4'-DDD	Ave	50.0	45.6		114125.1	104176.6	-8.7	20
2,4'-DDD [2C]	Ave	50.0	49.0		188863.5	185138.4	-2.0	20
2,4'-DDE	Ave	50.0	45.0		128261.1	115357.3	-10.1	20
2,4'-DDE [2C]	Ave	50.0	48.0		212138.1	203811	-3.9	20
2,4'-DDT	Ave	50.0	51.3		109687.6	112624.8	2.7	20
2,4'-DDT [2C]	Ave	50.0	52.8		178339.3	188164.1	5.5	20

** Quadratic Curve fit may be weighted (1/a or 1/a2).

* = Values outside of QC limits

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8081B

Laboratory: <u>Apex Laboratories</u>	SDG: <u>A9I0771</u>
Client: <u>Anchor QEA, LLC</u>	Project: <u>Gasco PreRD_DG 2019 - 2a. Surface Sediments</u>
Sequence: <u>9H23034</u>	Instrument: <u>DUALECD5</u>
Matrix: <u>Sediment</u>	Calibration: <u>A9H2608</u>

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Initial Cal Check (9H23034-ICV1)			Lab File ID: ECD5-08231917.D		Analyzed: 08/23/19 16:26			
2,4,5,6-TCMX (Surr)	50.0	99	70 - 130	5.395	5.39525	-0.0003	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	50.0	99	70 - 130	5.989	5.98975	-0.0008	+/-1.0	
Decachlorobiphenyl (Surr)	50.0	98	70 - 130	9.589	9.5925	-0.0035	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	50.0	96	70 - 130	10.539	10.54062	-0.0016	+/-1.0	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8081B

Laboratory: Apex Laboratories

SDG: A9I0771

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 2a. Surface Sediments

Sequence: 9J03031

Instrument: DUALECD5

Matrix: Sediment

Calibration: A9H2608

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (9J03031-CCV1) Lab File ID: ECD5-10031904.D Analyzed: 10/03/19 12:03								
2,4,5,6-TCMX (Surr)	50.0	101	80 - 120	5.282	5.39525	-0.1133	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	50.0	107	80 - 120	5.874	5.98975	-0.1158	+/-1.0	
Decachlorobiphenyl (Surr)	50.0	96	80 - 120	9.472	9.5925	-0.1205	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	50.0	103	80 - 120	10.404	10.54062	-0.1366	+/-1.0	
Calibration Blank (9J03031-CCB1) Lab File ID: ECD5-10031906.D Analyzed: 10/03/19 13:04								
2,4,5,6-TCMX (Surr) [2C]	100	92	42 - 129	5.873	5.98975	-0.1168	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	80	55 - 130	10.404	10.54062	-0.1366	+/-1.0	
Blank (9091407-BLK1) Lab File ID: ECD5-10031907.D Analyzed: 10/03/19 13:28								
2,4,5,6-TCMX (Surr) [2C]	45.5	60	42 - 129	5.871	5.98975	-0.1187	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	45.5	83	55 - 130	10.402	10.54062	-0.1386	+/-1.0	
LCS (9091407-BS1) Lab File ID: ECD5-10031908.D Analyzed: 10/03/19 13:45								
2,4,5,6-TCMX (Surr) [2C]	50.0	63	42 - 129	5.875	5.98975	-0.1148	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	50.0	78	55 - 130	10.403	10.54062	-0.1376	+/-1.0	
PDI-1014SG-00-0.78-190923 (A9I0771-02RE1) Lab File ID: ECD5-10031916.D Analyzed: 10/03/19 16:03								
2,4,5,6-TCMX (Surr) [2C]	87.1	75	42 - 129	5.874	5.98975	-0.1158	+/-1.0	
Decachlorobiphenyl (Surr)	87.1	114	55 - 130	9.467	9.5925	-0.1255	+/-1.0	
PDI-015SG-00-0.87-190924 (A9I0771-03RE1) Lab File ID: ECD5-10031919.D Analyzed: 10/03/19 16:55								
2,4,5,6-TCMX (Surr) [2C]	73.5	84	42 - 129	5.874	5.98975	-0.1158	+/-1.0	
Decachlorobiphenyl (Surr)	73.5	128	55 - 130	9.467	9.5925	-0.1255	+/-1.0	
Calibration Check (9J03031-CCV3) Lab File ID: ECD5-10031922.D Analyzed: 10/03/19 17:46								
2,4,5,6-TCMX (Surr)	100	93	80 - 120	5.28	5.39525	-0.1153	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	100	94	80 - 120	5.874	5.98975	-0.1158	+/-1.0	
Decachlorobiphenyl (Surr)	100	90	80 - 120	9.471	9.5925	-0.1215	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	102	80 - 120	10.402	10.54062	-0.1386	+/-1.0	
Calibration Blank (9J03031-CCB2) Lab File ID: ECD5-10031924.D Analyzed: 10/03/19 18:21								
2,4,5,6-TCMX (Surr) [2C]	100	82	42 - 129	5.874	5.98975	-0.1158	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	89	55 - 130	10.402	10.54062	-0.1386	+/-1.0	
PDI-022SG-00-01-190924 (A9I0771-04RE1) Lab File ID: ECD5-10031925.D Analyzed: 10/03/19 18:38								
2,4,5,6-TCMX (Surr) [2C]	78.4	60	42 - 129	5.873	5.98975	-0.1168	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	78.4	95	55 - 130	10.399	10.54062	-0.1416	+/-1.0	
PDI-102SG-00-01-190923 (A9I0771-06RE1) Lab File ID: ECD5-10031931.D Analyzed: 10/03/19 20:21								
2,4,5,6-TCMX (Surr) [2C]	110	50	42 - 129	5.873	5.98975	-0.1168	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	110	81	55 - 130	10.399	10.54062	-0.1416	+/-1.0	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8081B

Laboratory: Apex Laboratories
 Client: Anchor QEA, LLC
 Sequence: 9J03031
 Matrix: Sediment

SDG: A9I0771
 Project: Gasco PreRD DG 2019 - 2a. Surface Sediments
 Instrument: DUALECD5
 Calibration: A9H2608

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Matrix Spike (9091407-MS1)			Lab File ID: ECD5-10031934.D Analyzed: 10/03/19 21:13					
2,4,5,6-TCMX (Surr) [2C]	109	44	42 - 129	5.872	5.98975	-0.1178	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	109	77	55 - 130	10.4	10.54062	-0.1406	+/-1.0	
Matrix Spike Dup (9091407-MSD1)			Lab File ID: ECD5-10031937.D Analyzed: 10/03/19 22:04					
2,4,5,6-TCMX (Surr) [2C]	110	38	42 - 129	5.873	5.98975	-0.1168	+/-1.0	*
Decachlorobiphenyl (Surr) [2C]	110	77	55 - 130	10.399	10.54062	-0.1416	+/-1.0	
Calibration Check (9J03031-CCV5)			Lab File ID: ECD5-10031940.D Analyzed: 10/03/19 22:55					
2,4,5,6-TCMX (Surr)	50.0	96	80 - 120	5.28	5.39525	-0.1153	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	50.0	94	80 - 120	5.874	5.98975	-0.1158	+/-1.0	
Decachlorobiphenyl (Surr)	50.0	93	80 - 120	9.471	9.5925	-0.1215	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	50.0	104	80 - 120	10.4	10.54062	-0.1406	+/-1.0	
Calibration Blank (9J03031-CCB3)			Lab File ID: ECD5-10031942.D Analyzed: 10/03/19 23:30					
2,4,5,6-TCMX (Surr) [2C]	100	83	42 - 129	5.874	5.98975	-0.1158	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	93	55 - 130	10.4	10.54062	-0.1406	+/-1.0	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8081B

Laboratory: Apex Laboratories
 Client: Anchor QEA, LLC
 Sequence: 9J07042
 Matrix: Sediment

SDG: A9I0771
 Project: Gasco PreRD_DG 2019 - 2a. Surface Sediments
 Instrument: DUALECD5
 Calibration: A9H2608

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (9J07042-CCV1) Lab File ID: ECD5-10071904.D Analyzed: 10/07/19 11:58								
2,4,5,6-TCMX (Surr)	50.0	96	80 - 120	5.264	5.39525	-0.1313	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	50.0	101	80 - 120	5.857	5.98975	-0.1328	+/-1.0	
Decachlorobiphenyl (Surr)	50.0	93	80 - 120	9.453	9.5925	-0.1395	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	50.0	98	80 - 120	10.383	10.54062	-0.1576	+/-1.0	
Calibration Blank (9J07042-CCB1) Lab File ID: ECD5-10071906.D Analyzed: 10/07/19 13:21								
2,4,5,6-TCMX (Surr) [2C]	100	92	42 - 129	5.854	5.98975	-0.1358	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	85	55 - 130	10.381	10.54062	-0.1596	+/-1.0	
PDI-014SG-00-0.78-190923 (A9I0771-01RE2) Lab File ID: ECD5-10071908.D Analyzed: 10/07/19 13:56								
2,4,5,6-TCMX (Surr) [2C]	88.0	80	42 - 129	5.856	5.98975	-0.1338	+/-1.0	
Decachlorobiphenyl (Surr)	88.0	97	55 - 130	9.448	9.5925	-0.1445	+/-1.0	
Duplicate (9091407-DUP2) Lab File ID: ECD5-10071910.D Analyzed: 10/07/19 14:31								
2,4,5,6-TCMX (Surr) [2C]	88.0	80	42 - 129	5.856	5.98975	-0.1338	+/-1.0	
Decachlorobiphenyl (Surr)	88.0	123	55 - 130	9.449	9.5925	-0.1435	+/-1.0	
PDI-101SG-00-01-190923 (A9I0771-05RE2) Lab File ID: ECD5-10071912.D Analyzed: 10/07/19 15:06								
2,4,5,6-TCMX (Surr) [2C]	122	64	42 - 129	5.857	5.98975	-0.1328	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	122	128	55 - 130	10.381	10.54062	-0.1596	+/-1.0	
Calibration Check (9J07042-CCV3) Lab File ID: ECD5-10071924.D Analyzed: 10/07/19 18:33								
2,4,5,6-TCMX (Surr)	100	96	80 - 120	5.264	5.39525	-0.1313	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	100	100	80 - 120	5.858	5.98975	-0.1318	+/-1.0	
Decachlorobiphenyl (Surr)	100	96	80 - 120	9.452	9.5925	-0.1405	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	108	80 - 120	10.382	10.54062	-0.1586	+/-1.0	
Calibration Blank (9J07042-CCB2) Lab File ID: ECD5-10071926.D Analyzed: 10/07/19 19:08								
2,4,5,6-TCMX (Surr) [2C]	100	83	42 - 129	5.858	5.98975	-0.1318	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	93	55 - 130	10.382	10.54062	-0.1586	+/-1.0	
Calibration Check (9J07042-CCV5) Lab File ID: ECD5-10071939.D Analyzed: 10/07/19 22:51								
2,4,5,6-TCMX (Surr)	50.0	99	80 - 120	5.263	5.39525	-0.1323	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	50.0	94	80 - 120	5.857	5.98975	-0.1328	+/-1.0	
Decachlorobiphenyl (Surr)	50.0	101	80 - 120	9.451	9.5925	-0.1415	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	50.0	116	80 - 120	10.38	10.54062	-0.1606	+/-1.0	
Calibration Blank (9J07042-CCB3) Lab File ID: ECD5-10071941.D Analyzed: 10/07/19 23:26								
2,4,5,6-TCMX (Surr) [2C]	100	83	42 - 129	5.856	5.98975	-0.1338	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	98	55 - 130	10.381	10.54062	-0.1596	+/-1.0	

HOLDING TIME SUMMARY

EPA 8081B

Laboratory: Apex Laboratories

SDG: A9I0771

Client: Anchor QEA, LLC

Project: Gasco PreRD DG 2019 - 2a. Surface Sediments

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
PDI-014SG-00-0.78-190923	09/23/19 17:05	09/25/19 10:36	09/26/19 07:17	2.59	14.00	10/07/19 13:56	11.28	40.00	
PDI-1014SG-00-0.78-190923	09/23/19 17:10	09/25/19 10:36	09/26/19 07:17	2.59	14.00	10/03/19 16:03	7.37	40.00	
PDI-015SG-00-0.87-190924	09/24/19 11:19	09/25/19 10:36	09/26/19 07:17	1.83	14.00	10/03/19 16:55	7.40	40.00	
PDI-022SG-00-01-190924	09/24/19 13:00	09/25/19 10:36	09/26/19 07:17	1.76	14.00	10/03/19 18:38	7.47	40.00	
PDI-101SG-00-01-190923	09/23/19 13:35	09/25/19 10:36	09/26/19 07:17	2.74	14.00	10/07/19 15:06	11.33	40.00	
PDI-102SG-00-01-190923	09/23/19 15:05	09/25/19 10:36	09/26/19 07:17	2.68	14.00	10/03/19 20:21	7.54	40.00	

Apex Laboratories

SDG: A9I0771

CLASS: GCMS

METHOD: EPA 8270D

ANALYSES DATA PACKAGE COVER PAGE

EPA 8270D

Laboratory: Apex Laboratories

SDG: A9I0771

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 2a. Surface Sediments

Client Sample Id:	Lab Sample Id:	Matrix
<u>PDI-014SG-00-0.78-190923</u>	<u>A9I0771-01</u>	<u>Sediment</u>
<u>PDI-1014SG-00-0.78-190923</u>	<u>A9I0771-02</u>	<u>Sediment</u>
<u>PDI-015SG-00-0.87-190924</u>	<u>A9I0771-03</u>	<u>Sediment</u>
<u>PDI-022SG-00-01-190924</u>	<u>A9I0771-04</u>	<u>Sediment</u>
<u>PDI-101SG-00-01-190923</u>	<u>A9I0771-05</u>	<u>Sediment</u>
<u>PDI-102SG-00-01-190923</u>	<u>A9I0771-06</u>	<u>Sediment</u>

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: _____



Name: _____

David G. Jack

Forms Created: _____

11/1/2019 12:20PM

Title: _____

Technical Manager

METHOD DETECTION AND REPORTING LIMITS

EPA 8270D

Laboratory: Apex Laboratories

SDG: A910771

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 2a. Surface Sedi

Batch Matrix: Sediment

Analyte	MDL	MRL	Units
Acenaphthene	1.25	2.50	ug/kg
Acenaphthylene	1.25	2.50	ug/kg
Anthracene	1.25	2.50	ug/kg
Benz(a)anthracene	1.25	2.50	ug/kg
Benzo(a)pyrene	1.25	2.50	ug/kg
Benzo(b)fluoranthene	1.25	2.50	ug/kg
Benzo(k)fluoranthene	1.25	2.50	ug/kg
Benzo(g,h,i)perylene	1.25	2.50	ug/kg
Chrysene	1.25	2.50	ug/kg
Dibenz(a,h)anthracene	1.25	2.50	ug/kg
Fluoranthene	1.25	2.50	ug/kg
Fluorene	1.25	2.50	ug/kg
Indeno(1,2,3-cd)pyrene	1.25	2.50	ug/kg
2-Methylnaphthalene	1.25	2.50	ug/kg
Naphthalene	1.25	2.50	ug/kg
Phenanthrene	1.25	2.50	ug/kg
Pyrene	1.25	2.50	ug/kg

Note: MDLs are listed only if the corresponding analyte was evaluated to the MDL in this report .

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

PDI-014SG-00-0.78-190923

Laboratory: <u>Apex Laboratories</u>	SDG: <u>A9I0771</u>	
Client: <u>Anchor QEA, LLC</u>	Project: <u>Gasco PreRD_DG 2019 - 2a. Surface Sediments</u>	
Matrix: <u>Sediment</u>	Laboratory ID: <u>A9I0771-01</u>	File ID: <u>N09261907.D</u>
Sampled: <u>09/23/19 17:05</u>	Prepared: <u>09/26/19 07:03</u>	Analyzed: <u>09/26/19 17:12</u>
Solids: <u>56.34</u>	Preparation: <u>EPA 3546</u>	Initial/Final: <u>10.57 g / 5 mL</u>
Batch: <u>9091304</u>	Sequence: <u>9I26035</u>	Calibration: <u>A9I1001</u> Instrument: <u>SV-GCMS14</u>

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
208-96-8	Acenaphthylene	1000	38500	D
120-12-7	Anthracene	1000	172000	D
56-55-3	Benz(a)anthracene	1000	127000	D
50-32-8	Benzo(a)pyrene	1000	174000	D
205-99-2	Benzo(b)fluoranthene	1000	148000	D
207-08-9	Benzo(k)fluoranthene	1000	52100	DX
191-24-2	Benzo(g,h,i)perylene	1000	123000	D
218-01-9	Chrysene	1000	160000	D
53-70-3	Dibenz(a,h)anthracene	1000	12400	D
86-73-7	Fluorene	1000	181000	BD
193-39-5	Indeno(1,2,3-cd)pyrene	1000	102000	D

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl (Surr)	84.0	287	342	44 - 115	D
p-Terphenyl-d14 (Surr)	84.0	300	357	54 - 127	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8 (ISTD)	165302	7.877	183404	7.877	
Acenaphthene-d10 (ISTD)	133729	9.632	133678	9.632	
Phenanthrene-d10 (ISTD)	259867	11.141	265548	11.141	
Chrysene-d12 (ISTD)	241535	14.907	234147	14.901	
Perylene-d12 (ISTD)	223430	18.375	211145	18.375	
Dibenz(a,h)anthracene-d14 (ISTD)	178607	20.765	166237	20.759	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

PDI-014SG-00-0.78-190923

Laboratory: <u>Apex Laboratories</u>	SDG: <u>A9I0771</u>	
Client: <u>Anchor QEA, LLC</u>	Project: <u>Gasco PreRD_DG 2019 - 2a. Surface Sediments</u>	
Matrix: <u>Sediment</u>	Laboratory ID: <u>A9I0771-01RE1</u>	File ID: <u>N09271905.D</u>
Sampled: <u>09/23/19 17:05</u>	Prepared: <u>09/26/19 07:03</u>	Analyzed: <u>09/27/19 12:14</u>
Solids: <u>56.34</u>	Preparation: <u>EPA 3546</u>	Initial/Final: <u>10.57 g / 5 mL</u>
Batch: <u>9091304</u>	Sequence: <u>9I27028</u>	Calibration: <u>A9I1001</u>
		Instrument: <u>SV-GCMS14</u>

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
83-32-9	Acenaphthene	10000	385000	BD
206-44-0	Fluoranthene	10000	474000	D
91-57-6	2-Methylnaphthalene	10000	367000	BD
91-20-3	Naphthalene	10000	1590000	BD
85-01-8	Phenanthrene	10000	941000	BD
129-00-0	Pyrene	10000	548000	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8 (ISTD)	182402	7.877	179849	7.877	
Acenaphthene-d10 (ISTD)	130136	9.632	129246	9.632	
Phenanthrene-d10 (ISTD)	249656	11.141	247385	11.141	
Chrysene-d12 (ISTD)	205371	14.895	214821	14.901	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

PDI-1014SG-00-0.78-190923

Laboratory: <u>Apex Laboratories</u>	SDG: <u>A9I0771</u>	
Client: <u>Anchor QEA, LLC</u>	Project: <u>Gasco PreRD_DG 2019 - 2a. Surface Sediments</u>	
Matrix: <u>Sediment</u>	Laboratory ID: <u>A9I0771-02</u>	File ID: <u>N09261910.D</u>
Sampled: <u>09/23/19 17:10</u>	Prepared: <u>09/26/19 07:03</u>	Analyzed: <u>09/26/19 18:53</u>
Solids: <u>56.39</u>	Preparation: <u>EPA 3546</u>	Initial/Final: <u>10.33 g / 5 mL</u>
Batch: <u>9091304</u>	Sequence: <u>9I26035</u>	Calibration: <u>A9I1001</u>
		Instrument: <u>SV-GCMS14</u>

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
83-32-9	Acenaphthene	1000	200000	BD
208-96-8	Acenaphthylene	1000	20300	D
120-12-7	Anthracene	1000	94200	D
56-55-3	Benz(a)anthracene	1000	68300	D
50-32-8	Benzo(a)pyrene	1000	92600	D
205-99-2	Benzo(b)fluoranthene	1000	77800	D
207-08-9	Benzo(k)fluoranthene	1000	26500	DX
191-24-2	Benzo(g,h,i)perylene	1000	65700	D
218-01-9	Chrysene	1000	86700	D
53-70-3	Dibenz(a,h)anthracene	1000	7090	D
206-44-0	Fluoranthene	1000	259000	D
86-73-7	Fluorene	1000	100000	BD
193-39-5	Indeno(1,2,3-cd)pyrene	1000	56000	D
91-57-6	2-Methylnaphthalene	1000	198000	BD
129-00-0	Pyrene	1000	263000	D

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl (Surr)	85.8	208	242	44 - 115	D
p-Terphenyl-d14 (Surr)	85.8	184	214	54 - 127	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8 (ISTD)	157389	7.877	183404	7.877	
Acenaphthene-d10 (ISTD)	127247	9.632	133678	9.632	
Phenanthrene-d10 (ISTD)	248353	11.141	265548	11.141	
Chrysene-d12 (ISTD)	228343	14.901	234147	14.901	
Perylene-d12 (ISTD)	210630	18.369	211145	18.375	
Dibenz(a,h)anthracene-d14 (ISTD)	164339	20.759	166237	20.759	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

PDI-1014SG-00-0.78-190923

Laboratory: <u>Apex Laboratories</u>	SDG: <u>A9I0771</u>	
Client: <u>Anchor QEA, LLC</u>	Project: <u>Gasco PreRD_DG 2019 - 2a. Surface Sediments</u>	
Matrix: <u>Sediment</u>	Laboratory ID: <u>A9I0771-02RE1</u>	File ID: <u>N09271907.D</u>
Sampled: <u>09/23/19 17:10</u>	Prepared: <u>09/26/19 07:03</u>	Analyzed: <u>09/27/19 13:18</u>
Solids: <u>56.39</u>	Preparation: <u>EPA 3546</u>	Initial/Final: <u>10.33 g / 5 mL</u>
Batch: <u>9091304</u>	Sequence: <u>9I27028</u>	Calibration: <u>A9I1001</u>
		Instrument: <u>SV-GCMS14</u>

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
91-20-3	Naphthalene	10000	1230000	BD
85-01-8	Phenanthrene	10000	515000	BD

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8 (ISTD)	174302	7.877	179849	7.877	
Phenanthrene-d10 (ISTD)	238229	11.141	247385	11.141	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

PDI-015SG-00-0.87-190924

Laboratory: <u>Apex Laboratories</u>	SDG: <u>A9I0771</u>	
Client: <u>Anchor QEA, LLC</u>	Project: <u>Gasco PreRD_DG 2019 - 2a. Surface Sediments</u>	
Matrix: <u>Sediment</u>	Laboratory ID: <u>A9I0771-03</u>	File ID: <u>N09261911.D</u>
Sampled: <u>09/24/19 11:19</u>	Prepared: <u>09/26/19 07:03</u>	Analyzed: <u>09/26/19 19:25</u>
Solids: <u>67.47</u>	Preparation: <u>EPA 3546</u>	Initial/Final: <u>10.07 g / 5 mL</u>
Batch: <u>9091304</u>	Sequence: <u>9I26035</u>	Calibration: <u>A9I1001</u> Instrument: <u>SV-GCMS14</u>

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
83-32-9	Acenaphthene	1000	205000	BD
208-96-8	Acenaphthylene	1000	15400	D
120-12-7	Anthracene	1000	90000	D
56-55-3	Benz(a)anthracene	1000	58300	D
50-32-8	Benzo(a)pyrene	1000	79600	D
205-99-2	Benzo(b)fluoranthene	1000	66600	D
207-08-9	Benzo(k)fluoranthene	1000	22400	DX
191-24-2	Benzo(g,h,i)perylene	1000	56500	D
218-01-9	Chrysene	1000	75200	D
53-70-3	Dibenz(a,h)anthracene	1000	5910	D
206-44-0	Fluoranthene	1000	220000	D
86-73-7	Fluorene	1000	101000	BD
193-39-5	Indeno(1,2,3-cd)pyrene	1000	47900	D
91-57-6	2-Methylnaphthalene	1000	223000	BD
129-00-0	Pyrene	1000	230000	D

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl (Surr)	73.6	202	275	44 - 115	D
p-Terphenyl-d14 (Surr)	73.6	155	210	54 - 127	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8 (ISTD)	163387	7.877	183404	7.877	
Acenaphthene-d10 (ISTD)	134046	9.632	133678	9.632	
Phenanthrene-d10 (ISTD)	259539	11.141	265548	11.141	
Chrysene-d12 (ISTD)	229149	14.901	234147	14.901	
Perylene-d12 (ISTD)	208651	18.369	211145	18.375	
Dibenz(a,h)anthracene-d14 (ISTD)	159097	20.759	166237	20.759	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

PDI-015SG-00-0.87-190924

Laboratory: <u>Apex Laboratories</u>	SDG: <u>A9I0771</u>	
Client: <u>Anchor QEA, LLC</u>	Project: <u>Gasco PreRD_DG 2019 - 2a. Surface Sediments</u>	
Matrix: <u>Sediment</u>	Laboratory ID: <u>A9I0771-03RE1</u>	File ID: <u>N09271908.D</u>
Sampled: <u>09/24/19 11:19</u>	Prepared: <u>09/26/19 07:03</u>	Analyzed: <u>09/27/19 13:50</u>
Solids: <u>67.47</u>	Preparation: <u>EPA 3546</u>	Initial/Final: <u>10.07 g / 5 mL</u>
Batch: <u>9091304</u>	Sequence: <u>9I27028</u>	Calibration: <u>A9I1001</u>
		Instrument: <u>SV-GCMS14</u>

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
91-20-3	Naphthalene	10000	839000	BD
85-01-8	Phenanthrene	10000	476000	BD

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8 (ISTD)	198344	7.877	179849	7.877	
Phenanthrene-d10 (ISTD)	217244	11.141	247385	11.141	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

PDI-022SG-00-01-190924

Laboratory: <u>Apex Laboratories</u>	SDG: <u>A9I0771</u>	
Client: <u>Anchor QEA, LLC</u>	Project: <u>Gasco PreRD_DG 2019 - 2a. Surface Sediments</u>	
Matrix: <u>Sediment</u>	Laboratory ID: <u>A9I0771-04RE3</u>	File ID: <u>N10021909.D</u>
Sampled: <u>09/24/19 13:00</u>	Prepared: <u>10/02/19 11:20</u>	Analyzed: <u>10/02/19 18:51</u>
Solids: <u>61.36</u>	Preparation: <u>EPA 3546</u>	Initial/Final: <u>10.96 g / 5 mL</u>
Batch: <u>9100550</u>	Sequence: <u>9J02028</u>	Calibration: <u>A9I1001</u>
		Instrument: <u>SV-GCMS14</u>

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
83-32-9	Acenaphthene	100	596	D
208-96-8	Acenaphthylene	100	217	JD
120-12-7	Anthracene	100	449	D
56-55-3	Benz(a)anthracene	100	912	D
50-32-8	Benzo(a)pyrene	100	1450	D
205-99-2	Benzo(b)fluoranthene	100	1320	D
207-08-9	Benzo(k)fluoranthene	100	441	DX
191-24-2	Benzo(g,h,i)perylene	100	1200	D
218-01-9	Chrysene	100	1150	D
53-70-3	Dibenz(a,h)anthracene	100	186	U
206-44-0	Fluoranthene	100	2430	D
86-73-7	Fluorene	100	320	JD
193-39-5	Indeno(1,2,3-cd)pyrene	100	1000	D
91-57-6	2-Methylnaphthalene	100	186	U
91-20-3	Naphthalene	100	233	JD
85-01-8	Phenanthrene	100	2330	D
129-00-0	Pyrene	100	2730	D

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl (Surr)	74.4	115	155	44 - 115	D
p-Terphenyl-d14 (Surr)	74.4	66.2	89	54 - 127	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8 (ISTD)	214472	7.877	185509	7.877	
Acenaphthene-d10 (ISTD)	139141	9.638	134579	9.632	
Phenanthrene-d10 (ISTD)	247544	11.141	260602	11.141	
Chrysene-d12 (ISTD)	206173	14.901	220436	14.907	
Perylene-d12 (ISTD)	194243	18.375	191913	18.375	
Dibenz(a,h)anthracene-d14 (ISTD)	142978	20.759	137197	20.764	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

PDI-101SG-00-01-190923

Laboratory: <u>Apex Laboratories</u>	SDG: <u>A9I0771</u>	
Client: <u>Anchor QEA, LLC</u>	Project: <u>Gasco PreRD_DG 2019 - 2a. Surface Sediments</u>	
Matrix: <u>Sediment</u>	Laboratory ID: <u>A9I0771-05RE3</u>	File ID: <u>N10021910.D</u>
Sampled: <u>09/23/19 13:35</u>	Prepared: <u>10/02/19 11:20</u>	Analyzed: <u>10/02/19 19:23</u>
Solids: <u>40.20</u>	Preparation: <u>EPA 3546</u>	Initial/Final: <u>10.63 g / 5 mL</u>
Batch: <u>9100550</u>	Sequence: <u>9J02028</u>	Calibration: <u>A9I1001</u> Instrument: <u>SV-GCMS14</u>

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
83-32-9	Acenaphthene	100	1040	D
208-96-8	Acenaphthylene	100	1980	D
120-12-7	Anthracene	100	2740	D
56-55-3	Benz(a)anthracene	100	8560	D
50-32-8	Benzo(a)pyrene	100	13300	D
205-99-2	Benzo(b)fluoranthene	100	11100	D
207-08-9	Benzo(k)fluoranthene	100	3600	DX
191-24-2	Benzo(g,h,i)perylene	100	10500	D
218-01-9	Chrysene	100	9640	D
53-70-3	Dibenz(a,h)anthracene	100	1120	D
206-44-0	Fluoranthene	100	20700	D
86-73-7	Fluorene	100	783	D
193-39-5	Indeno(1,2,3-cd)pyrene	100	8690	D
91-57-6	2-Methylnaphthalene	100	787	D
91-20-3	Naphthalene	100	3660	D
85-01-8	Phenanthrene	100	8970	D
129-00-0	Pyrene	100	22500	D

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl (Surr)	117	85.4	73	44 - 115	D
p-Terphenyl-d14 (Surr)	117	95.9	82	54 - 127	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8 (ISTD)	225986	7.877	185509	7.877	
Acenaphthene-d10 (ISTD)	142704	9.638	134579	9.632	
Phenanthrene-d10 (ISTD)	256541	11.141	260602	11.141	
Chrysene-d12 (ISTD)	231082	14.907	220436	14.907	
Perylene-d12 (ISTD)	227151	18.375	191913	18.375	
Dibenz(a,h)anthracene-d14 (ISTD)	173167	20.765	137197	20.764	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

PDI-102SG-00-01-190923

Laboratory: <u>Apex Laboratories</u>	SDG: <u>A9I0771</u>	
Client: <u>Anchor QEA, LLC</u>	Project: <u>Gasco PreRD_DG 2019 - 2a. Surface Sediments</u>	
Matrix: <u>Sediment</u>	Laboratory ID: <u>A9I0771-06RE3</u>	File ID: <u>N10021906.D</u>
Sampled: <u>09/23/19 15:05</u>	Prepared: <u>10/02/19 11:20</u>	Analyzed: <u>10/02/19 17:15</u>
Solids: <u>45.03</u>	Preparation: <u>EPA 3546</u>	Initial/Final: <u>10.59 g / 5 mL</u>
Batch: <u>9100550</u>	Sequence: <u>9J02028</u>	Calibration: <u>A9I1001</u>
		Instrument: <u>SV-GCMS14</u>

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
83-32-9	Acenaphthene	10	599	D
208-96-8	Acenaphthylene	10	51.5	JD
120-12-7	Anthracene	10	110	D
56-55-3	Benz(a)anthracene	10	163	D
50-32-8	Benzo(a)pyrene	10	179	D
205-99-2	Benzo(b)fluoranthene	10	189	D
207-08-9	Benzo(k)fluoranthene	10	72.8	DX
191-24-2	Benzo(g,h,i)perylene	10	137	D
218-01-9	Chrysene	10	187	D
53-70-3	Dibenz(a,h)anthracene	10	26.2	U
206-44-0	Fluoranthene	10	652	D
86-73-7	Fluorene	10	362	D
193-39-5	Indeno(1,2,3-cd)pyrene	10	117	D
91-57-6	2-Methylnaphthalene	10	39.9	JD
91-20-3	Naphthalene	10	71.6	D
85-01-8	Phenanthrene	10	1050	D
129-00-0	Pyrene	10	562	D

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl (Surr)	105	53.8	51	44 - 115	
p-Terphenyl-d14 (Surr)	105	80.2	76	54 - 127	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8 (ISTD)	223686	7.877	185509	7.877	
Acenaphthene-d10 (ISTD)	137552	9.632	134579	9.632	
Phenanthrene-d10 (ISTD)	250380	11.141	260602	11.141	
Chrysene-d12 (ISTD)	216049	14.901	220436	14.907	
Perylene-d12 (ISTD)	207077	18.375	191913	18.375	
Dibenz(a,h)anthracene-d14 (ISTD)	155310	20.765	137197	20.764	

* Values outside of QC limits

PREPARATION BATCH SUMMARY

EPA 8270D

Laboratory: Apex Laboratories

SDG: A9I0771

Client: Anchor QEA, LLC

Project: Gasco PreRD DG 2019 - 2a. Surface Sediments

Batch: 9091304

Batch Matrix: Sediment

Preparation: EPA 3546

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	9091304-BLK1	N09261904.D	09/26/19 07:03	
Blank	9091304-BLK2	N09261909.D	09/26/19 07:03	
LCS	9091304-BS1	N09261905.D	09/26/19 07:03	
PDI-014SG-00-0.78-190923 (Dup)	9091304-DUP1	N09261908.D	09/26/19 07:03	
PDI-014SG-00-0.78-190923 (Dup)	9091304-DUP2	N09271906.D	09/26/19 07:03	
PDI-014SG-00-0.78-190923	A9I0771-01	N09261907.D	09/26/19 07:03	
PDI-014SG-00-0.78-190923	A9I0771-01RE1	N09271905.D	09/26/19 07:03	
PDI-1014SG-00-0.78-190923	A9I0771-02	N09261910.D	09/26/19 07:03	
PDI-1014SG-00-0.78-190923	A9I0771-02RE1	N09271907.D	09/26/19 07:03	
PDI-015SG-00-0.87-190924	A9I0771-03	N09261911.D	09/26/19 07:03	
PDI-015SG-00-0.87-190924	A9I0771-03RE1	N09271908.D	09/26/19 07:03	

Note: Client samples are listed only if they are included in this report.

Duplicates and Matrix Spike/Duplicates QC Samples are only listed if sourced from a sample included in this report.

PREPARATION BATCH SUMMARY

EPA 8270D

Laboratory: Apex Laboratories

SDG: A9I0771

Client: Anchor QEA, LLC

Project: Gasco PreRD DG 2019 - 2a. Surface Sediments

Batch: 9100550

Batch Matrix: Sediment

Preparation: EPA 3546

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	9100550-BLK1	N10021904.D	10/02/19 11:20	
LCS	9100550-BS1	N10021905.D	10/02/19 11:20	
PDI-102SG-00-01-190923 (MS)	9100550-MS1	N10021907.D	10/02/19 11:20	
PDI-102SG-00-01-190923 (MSD)	9100550-MSD1	N10021908.D	10/02/19 11:21	
PDI-022SG-00-01-190924	A9I0771-04RE3	N10021909.D	10/02/19 11:20	
PDI-101SG-00-01-190923	A9I0771-05RE3	N10021910.D	10/02/19 11:20	
PDI-102SG-00-01-190923	A9I0771-06RE3	N10021906.D	10/02/19 11:20	

Note: Client samples are listed only if they are included in this report.

Duplicates and Matrix Spike/Duplicates QC Samples are only listed if sourced from a sample included in this report.

METHOD BLANK DATA SHEET

EPA 8270D

Laboratory: <u>Apex Laboratories</u>	SDG: <u>A9I0771</u>	
Client: <u>Anchor QEA, LLC</u>	Project: <u>Gasco PreRD_DG 2019 - 2a. Surface Sediments</u>	
Matrix: <u>Sediment</u>	Laboratory ID: <u>9091304-BLK1</u>	File ID: <u>N09261904.D</u>
Prepared: <u>09/26/19 07:03</u>	Preparation: <u>EPA 3546</u>	Initial/Final: <u>11 g / 5 mL</u>
Analyzed: <u>09/26/19 15:34</u>	Instrument: <u>SV-GCMS14</u>	
Batch: <u>9091304</u>	Sequence: <u>9I26035</u>	Calibration: <u>A9I1001</u>

CAS NO.	COMPOUND	CONC. (ug/kg wet)	Q
83-32-9	Acenaphthene	25.8	B
208-96-8	Acenaphthylene	1.20	J
120-12-7	Anthracene	1.71	J
56-55-3	Benz(a)anthracene	1.14	U
50-32-8	Benzo(a)pyrene	1.14	U
205-99-2	Benzo(b)fluoranthene	1.14	U
207-08-9	Benzo(k)fluoranthene	1.14	U
191-24-2	Benzo(g,h,i)perylene	1.14	U
218-01-9	Chrysene	1.14	U
53-70-3	Dibenz(a,h)anthracene	1.14	U
206-44-0	Fluoranthene	1.50	J
86-73-7	Fluorene	6.48	B
193-39-5	Indeno(1,2,3-cd)pyrene	1.14	U
91-57-6	2-Methylnaphthalene	67.5	B
85-01-8	Phenanthrene	11.1	B
129-00-0	Pyrene	1.41	J

SYSTEM MONITORING COMPOUND	ADDED (ug/kg wet)	CONC (ug/kg wet)	% REC	QC LIMITS	Q
2-Fluorobiphenyl (Surr)	45.5	41.1	91	44 - 115	
p-Terphenyl-d14 (Surr)	45.5	44.5	98	54 - 127	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8 (ISTD)	145324	7.883	183404	7.877	
Acenaphthene-d10 (ISTD)	123956	9.638	133678	9.632	
Phenanthrene-d10 (ISTD)	241466	11.141	265548	11.141	
Chrysene-d12 (ISTD)	203752	14.907	234147	14.901	
Perylene-d12 (ISTD)	176592	18.375	211145	18.375	
Dibenz(a,h)anthracene-d14 (ISTD)	142990	20.764	166237	20.759	

METHOD BLANK DATA SHEET

EPA 8270D

Laboratory: Apex Laboratories SDG: A9I0771
Client: Anchor QEA, LLC Project: Gasco PreRD_DG 2019 - 2a. Surface Sediments
Matrix: Sediment Laboratory ID: 9091304-BLK2 File ID: N09261909.D
Prepared: 09/26/19 07:03 Preparation: EPA 3546 Initial/Final: 11 g / 5 mL
Analyzed: 09/26/19 18:21 Instrument: SV-GCMS14
Batch: 9091304 Sequence: 9I26035 Calibration: A9I1001

CAS NO.	COMPOUND	CONC. (ug/kg wet)	Q
91-20-3	Naphthalene	478	BD

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8 (ISTD)	186611	7.877	183404	7.877	

METHOD BLANK DATA SHEET

EPA 8270D

Laboratory: <u>Apex Laboratories</u>	SDG: <u>A9I0771</u>	
Client: <u>Anchor QEA, LLC</u>	Project: <u>Gasco PreRD_DG 2019 - 2a. Surface Sediments</u>	
Matrix: <u>Sediment</u>	Laboratory ID: <u>9100550-BLK1</u>	File ID: <u>N10021904.D</u>
Prepared: <u>10/02/19 11:20</u>	Preparation: <u>EPA 3546</u>	Initial/Final: <u>11 g / 5 mL</u>
Analyzed: <u>10/02/19 16:07</u>	Instrument: <u>SV-GCMS14</u>	
Batch: <u>9100550</u>	Sequence: <u>9J02028</u>	Calibration: <u>A9I1001</u>

CAS NO.	COMPOUND	CONC. (ug/kg wet)	Q
83-32-9	Acenaphthene	1.14	U
208-96-8	Acenaphthylene	1.14	U
120-12-7	Anthracene	1.14	U
56-55-3	Benz(a)anthracene	1.14	U
50-32-8	Benzo(a)pyrene	1.14	U
205-99-2	Benzo(b)fluoranthene	1.14	U
207-08-9	Benzo(k)fluoranthene	1.14	U
191-24-2	Benzo(g,h,i)perylene	1.14	U
218-01-9	Chrysene	1.14	U
53-70-3	Dibenz(a,h)anthracene	1.14	U
206-44-0	Fluoranthene	1.14	U
86-73-7	Fluorene	1.14	U
193-39-5	Indeno(1,2,3-cd)pyrene	1.14	U
91-57-6	2-Methylnaphthalene	1.14	U
91-20-3	Naphthalene	1.34	J
85-01-8	Phenanthrene	1.14	U
129-00-0	Pyrene	1.14	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg wet)	CONC (ug/kg wet)	% REC	QC LIMITS	Q
2-Fluorobiphenyl (Surr)	45.5	33.0	73	44 - 115	
p-Terphenyl-d14 (Surr)	45.5	35.7	79	54 - 127	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8 (ISTD)	211503	7.877	185509	7.877	
Acenaphthene-d10 (ISTD)	132291	9.632	134579	9.632	
Phenanthrene-d10 (ISTD)	236423	11.141	260602	11.141	
Chrysene-d12 (ISTD)	178757	14.901	220436	14.907	
Perylene-d12 (ISTD)	148852	18.369	191913	18.375	
Dibenz(a,h)anthracene-d14 (ISTD)	110247	20.759	137197	20.764	

LCS / LCS DUPLICATE RECOVERY

EPA 8270D

Laboratory: Apex Laboratories

SDG: A9I0771

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 2a. Surface Sediments

Matrix: Sediment

Batch: 9091304

Laboratory ID: 9091304-BS1

Preparation: EPA 3546

Initial/Final: 10 g / 5 mL

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC. (* = Out)	QC LIMITS REC.
Acenaphthene	20.0	39.5	198 *	40 - 122
Acenaphthylene	20.0	17.6	88	32 - 132
Anthracene	20.0	19.3	96	47 - 123
Benz(a)anthracene	20.0	17.5	88	49 - 126
Benzo(a)pyrene	20.0	18.7	94	45 - 129
Benzo(b)fluoranthene	20.0	18.5	93	45 - 132
Benzo(k)fluoranthene	20.0	18.8	94	47 - 132
Benzo(g,h,i)perylene	20.0	16.9	84	43 - 134
Chrysene	20.0	18.6	93	50 - 124
Dibenz(a,h)anthracene	20.0	17.3	86	45 - 134
Fluoranthene	20.0	19.7	98	50 - 127
Fluorene	20.0	23.6	118	43 - 125
Indeno(1,2,3-cd)pyrene	20.0	17.0	85	45 - 133
2-Methylnaphthalene	20.0	86.9	435 *	38 - 122
Naphthalene	20.0	570	2850 *	35 - 123
Phenanthrene	20.0	26.8	134 *	50 - 121
Pyrene	20.0	16.9	85	47 - 127

* = Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

EPA 8270D

Laboratory: Apex Laboratories

SDG: A9I0771

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 2a. Surface Sediments

Matrix: Sediment

Batch: 9100550

Laboratory ID: 9100550-BS1

Preparation: EPA 3546

Initial/Final: 10 g / 5 mL

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC. (* = Out)	QC LIMITS REC.
Acenaphthene	20.0	15.7	78	40 - 122
Acenaphthylene	20.0	15.0	75	32 - 132
Anthracene	20.0	16.0	80	47 - 123
Benz(a)anthracene	20.0	16.9	85	49 - 126
Benzo(a)pyrene	20.0	18.1	90	45 - 129
Benzo(b)fluoranthene	20.0	18.7	93	45 - 132
Benzo(k)fluoranthene	20.0	17.8	89	47 - 132
Benzo(g,h,i)perylene	20.0	17.4	87	43 - 134
Chrysene	20.0	18.3	91	50 - 124
Dibenz(a,h)anthracene	20.0	15.7	79	45 - 134
Fluoranthene	20.0	19.3	97	50 - 127
Fluorene	20.0	16.2	81	43 - 125
Indeno(1,2,3-cd)pyrene	20.0	16.9	84	45 - 133
2-Methylnaphthalene	20.0	15.1	75	38 - 122
Naphthalene	20.0	16.4	82	35 - 123
Phenanthrene	20.0	17.9	90	50 - 121
Pyrene	20.0	17.9	89	47 - 127

* = Values outside of QC limits

DUPLICATES

PDI-014SG-00-0.78-190923

EPA 8270D

Laboratory: Apex Laboratories

SDG: A9I0771

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 2a. Surface Sedin

Matrix: Sediment

Laboratory ID: 9091304-DUP1

Batch: 9091304

Lab Source ID: A9I0771-01

Preparation: EPA 3546

Initial/Final: 10.6 g / 5 mL

Source Sample Name: PDI-014SG-00-0.78-190923

% Solids: 56.34

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (ug/kg dry)	C	DUPLICATE CONCENTRATION (ug/kg dry)	C	RPD %	Q	METHOD
Acenaphthene	30	354000		264000		29		EPA 8270D
Acenaphthylene	30	38500		25200		42	*	EPA 8270D
Anthracene	30	172000		141000		20		EPA 8270D
Benz(a)anthracene	30	127000		154000		19		EPA 8270D
Benzo(a)pyrene	30	174000		221000		24		EPA 8270D
Benzo(b)fluoranthene	30	148000		203000		31	*	EPA 8270D
Benzo(k)fluoranthene	30	52100		66500		24		EPA 8270D
Benzo(g,h,i)perylene	30	123000		146000		17		EPA 8270D
Chrysene	30	160000		181000		12		EPA 8270D
Dibenz(a,h)anthracene	30	12400		16400		28		EPA 8270D
Fluorene	30	181000		131000		32	*	EPA 8270D
Indeno(1,2,3-cd)pyrene	30	102000		133000		26		EPA 8270D
2-Methylnaphthalene	30	384000		254000		41	*	EPA 8270D

* Values outside of QC limits

DUPLICATES

PDI-014SG-00-0.78-190923

EPA 8270D

Laboratory: Apex Laboratories

SDG: A9I0771

Client: Anchor QEA, LLC

Project: Gasco PreRD DG 2019 - 2a. Surface Sedir

Matrix: Sediment

Laboratory ID: 9091304-DUP2

Batch: 9091304

Lab Source ID: A9I0771-01RE1

Preparation: EPA 3546

Initial/Final: 10.6 g / 5 mL

Source Sample Name: PDI-014SG-00-0.78-190923

% Solids: 56.34

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (ug/kg dry)	C	DUPLICATE CONCENTRATION (ug/kg dry)	C	RPD %	Q	METHOD
Acenaphthylene	30	38700		25000		43	*	EPA 8270D
Fluoranthene	30	474000		463000		2		EPA 8270D
2-Methylnaphthalene	30	367000		232000		45	*	EPA 8270D
Naphthalene	30	1590000		1040000		42	*	EPA 8270D
Phenanthrene	30	941000		686000		31	*	EPA 8270D
Pyrene	30	548000		514000		6		EPA 8270D

* Values outside of QC limits

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

PDI-102SG-00-01-190923

EPA 8270D

Laboratory: Apex Laboratories

SDG: A910771

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 2a. Surface Sediments

Matrix: Sediment

Batch: 9100550

Laboratory ID: 9100550-MS1

Preparation: EPA 3546

Initial/Final: 10.5 g / 5 mL

Source Sample Name: PDI-102SG-00-01-190923

COMPOUND	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC. (*=Out)	QC LIMITS REC.
Acenaphthene	42.3	599	1380	1840 *	40 - 122
Acenaphthylene	42.3	51.5	99.0	112	32 - 132
Anthracene	42.3	110	353	573 *	47 - 123
Benz(a)anthracene	42.3	163	278	274 *	49 - 126
Benzo(a)pyrene	42.3	179	203	56	45 - 129
Benzo(b)fluoranthene	42.3	189	272	195 *	45 - 132
Benzo(k)fluoranthene	42.3	72.8	115	99	47 - 132
Benzo(g,h,i)perylene	42.3	137	147	23 *	43 - 134
Chrysene	42.3	187	373	440 *	50 - 124
Dibenz(a,h)anthracene	42.3	ND	48.8	115	45 - 134
Fluoranthene	42.3	652	1280	1490 *	50 - 127
Fluorene	42.3	362	921	1320 *	43 - 125
Indeno(1,2,3-cd)pyrene	42.3	117	136	45	45 - 133
2-Methylnaphthalene	42.3	39.9	61.8	52	38 - 122
Naphthalene	42.3	71.6	127	132 *	35 - 123
Phenanthrene	42.3	1050	2400	3190 *	50 - 121
Pyrene	42.3	562	961	944 *	47 - 127

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8270D

PDI-102SG-00-01-190923

Laboratory: Apex Laboratories

SDG: A9I0771

Client: Anchor QEA, LLC

Project: Gasco PreRD DG 2019 - 2a. Surface Sediments

Matrix: Sediment

Batch: 9100550

Laboratory ID: 9100550-MSD1

Preparation: EPA 3546

Initial/Final: 10.52 g / 5 mL

Source Sample Name: PDI-102SG-00-01-190923

COMPOUND	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % RECOVERY	% RPD	QC LIMITS	
					RPD	REC.
Acenaphthene	42.2	795	465 *	54 *	30	40 - 122
Acenaphthylene	42.2	79.8	67	21	30	32 - 132
Anthracene	42.2	153	102	79 *	30	47 - 123
Benzo(a)anthracene	42.2	294	311 *	5	30	49 - 126
Benzo(a)pyrene	42.2	284	249 *	33 *	30	45 - 129
Benzo(b)fluoranthene	42.2	292	244 *	7	30	45 - 132
Benzo(k)fluoranthene	42.2	114	97	0.9	30	47 - 132
Benzo(g,h,i)perylene	42.2	193	133	27	30	43 - 134
Chrysene	42.2	301	270 *	21	30	50 - 124
Dibenz(a,h)anthracene	42.2	50.2	119	3	30	45 - 134
Fluoranthene	42.2	915	621 *	33 *	30	50 - 127
Fluorene	42.2	489	300 *	61 *	30	43 - 125
Indeno(1,2,3-cd)pyrene	42.2	170	127	23	30	45 - 133
2-Methylnaphthalene	42.2	54.5	34 *	13	30	38 - 122
Naphthalene	42.2	116	105	9	30	35 - 123
Phenanthrene	42.2	1190	315 *	68 *	30	50 - 121
Pyrene	42.2	821	615 *	16	30	47 - 127

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270D

Laboratory: Apex Laboratories

SDG: A9I0771

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 2a. Surface Sediments

Sequence: 9I06028

Instrument: SV-GCMS14

Matrix: Sediment

Calibration: A9I1001

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	9I06028-TUN1	N09061911.D	09/06/19 15:51
Initial Cal Blank	9I06028-ICB1	N09061912.D	09/06/19 16:18
Cal Standard	9I06028-CAL1	N09061913.D	09/06/19 16:51
Cal Standard	9I06028-CAL2	N09061914.D	09/06/19 17:23
Cal Standard	9I06028-CAL3	N09061915.D	09/06/19 17:55
Cal Standard	9I06028-CAL4	N09061916.D	09/06/19 18:27
Cal Standard	9I06028-CAL5	N09061917.D	09/06/19 19:00
Cal Standard	9I06028-CAL6	N09061918.D	09/06/19 19:32
Cal Standard	9I06028-CAL7	N09061919.D	09/06/19 20:04
Cal Standard	9I06028-CAL8	N09061920.D	09/06/19 20:37
Cal Standard	9I06028-CAL9	N09061921.D	09/06/19 21:09
Cal Standard	9I06028-CALA	N09061922.D	09/06/19 21:41
Initial Cal Check	9I06028-ICV1	N09061924.D	09/06/19 22:45

Note: Client samples are listed only if they are included in this report.

Duplicates and Matrix Spike/Duplicates QC Samples are only listed if sourced from a sample included in this report.

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270D

Laboratory: <u>Apex Laboratories</u>	SDG: <u>A9I0771</u>
Client: <u>Anchor QEA, LLC</u>	Project: <u>Gasco PreRD_DG 2019 - 2a. Surface Sediments</u>
Sequence: <u>9I26035</u>	Instrument: <u>SV-GCMS14</u>
Matrix: <u>Sediment</u>	Calibration: <u>A9I1001</u>

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	9I26035-TUN1	N09261901.D	09/26/19 14:01
Calibration Check	9I26035-CCV1	N09261902.D	09/26/19 14:29
Calibration Blank	9I26035-CCB1	N09261903.D	09/26/19 15:02
Blank	9091304-BLK1	N09261904.D	09/26/19 15:34
LCS	9091304-BS1	N09261905.D	09/26/19 16:07
PDI-014SG-00-0.78-190923	A9I0771-01	N09261907.D	09/26/19 17:12
PDI-014SG-00-0.78-190923 (Dup)	9091304-DUP1	N09261908.D	09/26/19 17:49
Blank	9091304-BLK2	N09261909.D	09/26/19 18:21
PDI-1014SG-00-0.78-190923	A9I0771-02	N09261910.D	09/26/19 18:53
PDI-015SG-00-0.87-190924	A9I0771-03	N09261911.D	09/26/19 19:25

Note: Client samples are listed only if they are included in this report.

Duplicates and Matrix Spike/Duplicates QC Samples are only listed if sourced from a sample included in this report.

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270D

Laboratory: Apex Laboratories

SDG: A9I0771

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 2a. Surface Sediments

Sequence: 9I27028

Instrument: SV-GCMS14

Matrix: Sediment

Calibration: A9I1001

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	9I27028-TUN1	N09271901.D	09/27/19 10:11
Calibration Check	9I27028-CCV1	N09271902.D	09/27/19 10:38
Calibration Blank	9I27028-CCB1	N09271903.D	09/27/19 11:10
PDI-014SG-00-0.78-190923	A9I0771-01RE1	N09271905.D	09/27/19 12:14
PDI-014SG-00-0.78-190923 (Dup)	9091304-DUP2	N09271906.D	09/27/19 12:46
PDI-1014SG-00-0.78-190923	A9I0771-02RE1	N09271907.D	09/27/19 13:18
PDI-015SG-00-0.87-190924	A9I0771-03RE1	N09271908.D	09/27/19 13:50

Note: Client samples are listed only if they are included in this report.

Duplicates and Matrix Spike/Duplicates QC Samples are only listed if sourced from a sample included in this report.

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270D

Laboratory: Apex Laboratories

SDG: A9I0771

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 2a. Surface Sediments

Sequence: 9J02028

Instrument: SV-GCMS14

Matrix: Sediment

Calibration: A9I1001

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	9J02028-TUN1	N10021901.D	10/02/19 14:36
Calibration Check	9J02028-CCV1	N10021902.D	10/02/19 15:03
Calibration Blank	9J02028-CCB1	N10021903.D	10/02/19 15:35
Blank	9100550-BLK1	N10021904.D	10/02/19 16:07
LCS	9100550-BS1	N10021905.D	10/02/19 16:39
PDI-102SG-00-01-190923	A9I0771-06RE3	N10021906.D	10/02/19 17:15
PDI-102SG-00-01-190923 (MS)	9100550-MS1	N10021907.D	10/02/19 17:47
PDI-102SG-00-01-190923 (MSD)	9100550-MSD1	N10021908.D	10/02/19 18:19
PDI-022SG-00-01-190924	A9I0771-04RE3	N10021909.D	10/02/19 18:51
PDI-101SG-00-01-190923	A9I0771-05RE3	N10021910.D	10/02/19 19:23

Note: Client samples are listed only if they are included in this report.

Duplicates and Matrix Spike/Duplicates QC Samples are only listed if sourced from a sample included in this report.

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8270D

Laboratory: Apex Laboratories

SDG: A910771

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 2a. Surface Sediments

Lab File ID: N09061911.D

Injection Date: 09/06/19

Instrument ID: SV-GCMS14

Injection Time: 15:51

Sequence: 9I06028

Lab Sample ID: 9I06028-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
m/z 68	Less than 2% of m/z 69	1.53	PASS
m/z 69	Base peak, 100% relative abundance	100.00	PASS
m/z 70	Less than 2% of m/z 69	0.47	PASS
m/z 197	Less than 2% of m/z 198	0.48	PASS
m/z 198	Base peak, 100% relative abundance	100.00	PASS
m/z 199	5 - 9% of m/z 198	6.86	PASS
m/z 365	1 - 100% of m/z 198	3.62	PASS
m/z 441	Less than 150% of m/z 443	78.02	PASS
m/z 442	0.1 - 200% of m/z 198	93.14	PASS
m/z 443	15 - 24% of m/z 442	19.59	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8270D

Laboratory: Apex Laboratories

SDG: A910771

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 2a. Surface Sediments

Lab File ID: N09261901.D

Injection Date: 09/26/19

Instrument ID: SV-GCMS14

Injection Time: 14:01

Sequence: 9I26035

Lab Sample ID: 9I26035-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
m/z 68	Less than 2% of m/z 69	1.55	PASS
m/z 69	Base peak, 100% relative abundance	100.00	PASS
m/z 70	Less than 2% of m/z 69	0.47	PASS
m/z 197	Less than 2% of m/z 198	0.47	PASS
m/z 198	Base peak, 100% relative abundance	100.00	PASS
m/z 199	5 - 9% of m/z 198	6.75	PASS
m/z 365	1 - 100% of m/z 198	3.99	PASS
m/z 441	Less than 150% of m/z 443	77.58	PASS
m/z 442	0.1 - 200% of m/z 198	112.24	PASS
m/z 443	15 - 24% of m/z 442	19.19	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8270D

Laboratory: Apex Laboratories

SDG: A910771

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 2a. Surface Sediments

Lab File ID: N09271901.D

Injection Date: 09/27/19

Instrument ID: SV-GCMS14

Injection Time: 10:11

Sequence: 9I27028

Lab Sample ID: 9I27028-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
m/z 68	Less than 2% of m/z 69	1.61	PASS
m/z 69	Base peak, 100% relative abundance	100.00	PASS
m/z 70	Less than 2% of m/z 69	0.50	PASS
m/z 197	Less than 2% of m/z 198	0.46	PASS
m/z 198	Base peak, 100% relative abundance	100.00	PASS
m/z 199	5 - 9% of m/z 198	6.86	PASS
m/z 365	1 - 100% of m/z 198	3.79	PASS
m/z 441	Less than 150% of m/z 443	76.75	PASS
m/z 442	0.1 - 200% of m/z 198	106.32	PASS
m/z 443	15 - 24% of m/z 442	19.51	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8270D

Laboratory: Apex Laboratories

SDG: A910771

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 2a. Surface Sediments

Lab File ID: N10021901.D

Injection Date: 10/02/19

Instrument ID: SV-GCMS14

Injection Time: 14:36

Sequence: 9J02028

Lab Sample ID: 9J02028-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
m/z 68	Less than 2% of m/z 69	1.51	PASS
m/z 69	Base peak, 100% relative abundance	100.00	PASS
m/z 70	Less than 2% of m/z 69	0.52	PASS
m/z 197	Less than 2% of m/z 198	0.45	PASS
m/z 198	Base peak, 100% relative abundance	100.00	PASS
m/z 199	5 - 9% of m/z 198	6.83	PASS
m/z 365	1 - 100% of m/z 198	3.88	PASS
m/z 441	Less than 150% of m/z 443	77.40	PASS
m/z 442	0.1 - 200% of m/z 198	107.63	PASS
m/z 443	15 - 24% of m/z 442	19.28	PASS

INITIAL CALIBRATION DATA (Summary)

EPA 8270D

Laboratory: Apex Laboratories

SDG: A9I0771

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 2a. Surface Sediments

Calibration: A9I1001

Date: 09/10/19 10:37

Instrument: SV-GCMS14

Compound	Mean RF	FIT	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acenaphthene	1.421956	Ave	2.101464	9.6727	1.195025E-02			20	
Acenaphthylene	2.170985	Ave	2.552103	9.498	1.184114E-02			20	
Anthracene	1.088443	Ave	2.157413	11.223	6.057048E-03			20	
Benz(a)anthracene	1.161023	Ave	7.869323	14.886	2.183092E-02			20	
Benzo(a)pyrene	0.9876419	Ave	9.000056	18.2396	6.304434E-02			20	
Benzo(b)fluoranthene	1.153887	Ave	5.67895	17.4697	5.010002E-02			20	
Benzo(k)fluoranthene	1.136093	Ave	6.126	17.5355	5.121218E-02			20	
Benzo(g,h,i)perylene	1.308305	Ave	5.850826	21.3008	4.687611E-02			20	
Chrysene	1.098706	Ave	1.523471	14.9673	0.0413593			20	
Dibenz(a,h)anthracene	1.158853	Ave	3.005339	20.8333	3.856247E-02			20	
Fluoranthene	1.178979	Ave	4.301023	12.435	3.109609E-02			20	
Fluorene	1.455085	Ave	3.852545	10.1928	3.089686E-02			20	
Indeno(1,2,3-cd)pyrene	1.233305	Ave	3.076119	20.7652	4.855178E-02			20	
2-Methylnaphthalene	0.9346173	Ave	5.160884	8.5884	7.334806E-03			20	
Naphthalene	1.102926	Ave	2.419226	7.9059	1.784269E-02			20	
Phenanthrene	1.170171	Ave	3.845985	11.1707	1.240085E-02			20	
Pyrene	1.217768	Ave	5.116628	12.7234	2.554012E-02			20	
2-Fluorobiphenyl (Surr)	1.491847	Ave	2.25656	8.9523	3.166423E-02			20	
p-Terphenyl-d14 (Surr)	1.051726	Ave	4.2222	12.9315	1.002441E-02			20	

Note: ** Quad COD may be incorrect if weighting (1/a) or (1/a²) used. Weighting not shown here. Please see instrument calibration printouts for validation.

INITIAL CALIBRATION DATA

EPA 8270D

Laboratory: Apex Laboratories

SDG: A9I0771

Client: Anchor QEA, LLC

Project: Gasco PreRD DG 2019 - 2a. Surface Sedime

Calibration: A9I1001

Instrument: SV-GCMS14

Calibration Date: 09/10/19 10:37

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF
Acenaphthene	1	1.438843	2.5	1.487282	5	1.404065	10	1.417353	25	1.419193	50	1.394003
Acenaphthylene	1	2.050122	2.5	2.174081	5	2.138587	10	2.170914	25	2.195113	50	2.171665
Anthracene	1	1.097223	2.5	1.089279	5	1.048542	10	1.062312	25	1.06872	50	1.076085
Benz(a)anthracene	1	1.393885	2.5	1.220902	5	1.088043	10	1.09326	25	1.113653	50	1.09758
Benzo(a)pyrene	1	0.9831077	2.5	0.860229	5	0.8587498	10	0.9020412	25	0.976879	50	1.004382
Benzo(b)fluoranthene	1	1.117055	2.5	1.085157	5	1.064599	10	1.091936	25	1.128411	50	1.163732
Benzo(k)fluoranthene	1	1.067445	2.5	1.081921	5	1.086293	10	1.035921	25	1.12827	50	1.118386
Benzo(b+k)fluoranthene(s)	2	1.112094	5	1.118006	10	1.116503	20	1.114938	50	1.172148	100	1.178575
Benzo(g,h,i)perylene	1	1.244973	2.5	1.184733	5	1.240673	10	1.251188	25	1.288531	50	1.327508
Chrysene	1	1.134167	2.5	1.107207	5	1.086845	10	1.086606	25	1.097682	50	1.081788
Dibenz(a,h)anthracene	1	1.172765	2.5	1.143563	5	1.121188	10	1.116162	25	1.120297	50	1.14373
Fluoranthene	1	1.194051	2.5	1.126776	5	1.104079	10	1.123912	25	1.161779	50	1.170777
Fluorene	1	1.368696	2.5	1.404785	5	1.408744	10	1.421664	25	1.460973	50	1.446685
Indeno(1,2,3-cd)pyrene	1	1.207624	2.5	1.279667	5	1.185249	10	1.191109	25	1.192038	50	1.22331
1-Methylnaphthalene	1	0.8213813	2.5	0.8752222	5	0.8374479	10	0.9164978	25	0.9229373	50	0.9636201
2-Methylnaphthalene	1	0.8933817	2.5	0.9068991	5	0.8805457	10	0.8856102	25	0.8950085	50	0.9411598
Naphthalene	1	1.158343	2.5	1.134973	5	1.097604	10	1.122705	25	1.090082	50	1.082918
Phenanthrene	1	1.287154	2.5	1.193603	5	1.137078	10	1.164717	25	1.154027	50	1.151784
Pyrene	1	1.133534	2.5	1.228873	5	1.132418	10	1.158663	25	1.202686	50	1.214535
Carbazole	1	0.8723786	2.5	0.8303246	5	0.809563	10	0.8178062	25	0.8662439	50	0.8707417
Dibenzofuran	1	1.760349	2.5	1.772666	5	1.736411	10	1.780314	25	1.790475	50	1.776721
2-Fluorobiphenyl (Surr)	1	1.423811	2.5	1.562065	5	1.481173	10	1.49926	25	1.499776	50	1.48226
p-Terphenyl-d14 (Surr)	1	1.150274	2.5	1.092469	5	1.036656	10	1.057709	25	1.06012	50	1.045507

INITIAL CALIBRATION DATA (Continued)

EPA 8270D

Laboratory: Apex Laboratories

SDG: A9I0771

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 2a. Surface Sedime

Calibration: A9I1001

Instrument: SV-GCMS14

Matrix:

Calibration Date: 09/10/19 10:37

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF
Acenaphthene	100	1.443403	200	1.431066	300	1.387896	400	1.396451				
Acenaphthylene	100	2.247844	200	2.243032	300	2.16069	400	2.157799				
Anthracene	100	1.109829	200	1.115327	300	1.102276	400	1.114841				
Benz(a)anthracene	100	1.142091	200	1.148716	300	1.139155	400	1.17295				
Benzo(a)pyrene	100	1.043258	200	1.084563	300	1.067927	400	1.095282				
Benzo(b)fluoranthene	100	1.194311	200	1.23063	300	1.216813	400	1.246224				
Benzo(k)fluoranthene	100	1.195543	200	1.221498	300	1.197767	400	1.227883				
Benzo(b+k)fluoranthene(s)	200	1.228745	400	1.259094	600	1.236491	800	1.266041				
Benzo(g,h,i)perylene	100	1.387838	200	1.395223	300	1.36793	400	1.394456				
Chrysene	100	1.095048	200	1.103107	300	1.080265	400	1.114348				
Dibenz(a,h)anthracene	100	1.178156	200	1.193501	300	1.181668	400	1.217496				
Fluoranthene	100	1.201514	200	1.227472	300	1.217957	400	1.261473				
Fluorene	100	1.525529	200	1.545124	300	1.492702	400	1.475951				
Indeno(1,2,3-cd)pyrene	100	1.260309	200	1.262162	300	1.248776	400	1.282806				
1-Methylnaphthalene	100	0.9858109	200	1.024788	300	1.01574	400	0.9810225				
2-Methylnaphthalene	100	0.9654103	200	1.001432	300	1.001474	400	0.9752517				
Naphthalene	100	1.082489	200	1.091885	300	1.077863	400	1.090395				
Phenanthrene	100	1.157739	200	1.178493	300	1.133633	400	1.143483				
Pyrene	100	1.250477	200	1.276867	300	1.260119	400	1.319506				
Carbazole	100	0.9049028	200	0.9454096	300	0.9401746	400	0.949796				
Dibenzofuran	100	1.831193	200	1.826652	300	1.770992	400	1.764878				
2-Fluorobiphenyl (Surr)	100	1.499049	200	1.496115	300	1.47728	400	1.49768				
p-Terphenyl-d14 (Surr)	100	1.048827	200	1.020622	300	0.9928344	400	1.012238				

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8270D

Laboratory: <u>Apex Laboratories</u>	SDG: <u>A9I0771</u>
Client: <u>Anchor QEA, LLC</u>	Project: <u>Gasco PreRD_DG 2019 - 2a. Surface Sedin</u>
Instrument ID: <u>SV-GCMS14</u>	Calibration: <u>A9I1001</u>
Lab File ID: <u>N09061924.D</u>	
Sequence: <u>9I06028</u>	Inject Date: <u>09/06/19</u>
Lab Sample ID: <u>9I06028-ICV1</u>	Inject Time: <u>22:45</u>

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
Acenaphthene	50.0	50.3	0.7	70 - 130
Acenaphthylene	50.0	51.9	3.9	70 - 130
Anthracene	50.0	51.8	3.6	70 - 130
Benz(a)anthracene	50.0	48.5	-3.0	70 - 130
Benzo(a)pyrene	50.0	51.2	2.4	70 - 130
Benzo(b)fluoranthene	50.0	50.6	1.2	70 - 130
Benzo(k)fluoranthene	50.0	50.0	-0.06	70 - 130
Benzo(g,h,i)perylene	50.0	53.6	7.2	70 - 130
Chrysene	50.0	52.4	4.8	70 - 130
Dibenz(a,h)anthracene	50.0	49.3	-1.3	70 - 130
Fluoranthene	50.0	50.6	1.1	70 - 130
Fluorene	50.0	50.9	1.7	70 - 130
Indeno(1,2,3-cd)pyrene	50.0	50.0	-0.05	70 - 130
2-Methylnaphthalene	50.0	46.8	-6.3	70 - 130
Naphthalene	50.0	49.9	-0.1	70 - 130
Phenanthrene	50.0	50.4	0.8	70 - 130
Pyrene	50.0	50.6	1.2	70 - 130
2-Fluorobiphenyl (Surr)	50.0	49.7	-0.7	70 - 130
p-Terphenyl-d14 (Surr)	50.0	48.7	-2.6	70 - 130

CONTINUING CALIBRATION CHECK

EPA 8270D

Laboratory: Apex Laboratories

SDG: A9I0771

Client: Anchor QEA, LLC

Project: Gasco PreRD DG 2019 - 2a. Surface Sediments

Instrument ID: SV-GCMS14

Calibration: A9I1001

Lab File ID: N09261902.D

Calibration Date: 09/10/19 10:37

Sequence: 9I26035

Injection Date: 09/26/19

Lab Sample ID: 9I26035-CCV1

Injection Time: 14:29

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
Acenaphthene	Ave	50.0	49.8		1.421956	1.415491	-0.5	20
Acenaphthylene	Ave	50.0	49.8		2.170985	2.160355	-0.5	20
Anthracene	Ave	50.0	48.7		1.088443	1.059364	-2.7	20
Benz(a)anthracene	Ave	50.0	47.2		1.161023	1.096038	-5.6	20
Benzo(a)pyrene	Ave	50.0	50.5		0.9876419	0.9977409	1.0	20
Benzo(b)fluoranthene	Ave	50.0	49.3		1.153887	1.137967	-1.4	20
Benzo(k)fluoranthene	Ave	50.0	50.1		1.136093	1.138507	0.2	20
Benzo(g,h,i)perylene	Ave	50.0	46.7		1.308305	1.221774	-6.6	20
Chrysene	Ave	50.0	49.1		1.098706	1.078835	-1.8	20
Dibenz(a,h)anthracene	Ave	50.0	48.5		1.158853	1.122999	-3.1	20
Fluoranthene	Ave	50.0	49.7		1.178979	1.172609	-0.5	20
Fluorene	Ave	50.0	51.4		1.455085	1.496417	2.8	20
Indeno(1,2,3-cd)pyrene	Ave	50.0	45.8		1.233305	1.128654	-8.5	20
2-Methylnaphthalene	Ave	50.0	45.6		0.9346173	0.8522933	-8.8	20
Naphthalene	Ave	50.0	49.0		1.102926	1.081481	-1.9	20
Phenanthrene	Ave	50.0	48.5		1.170171	1.133912	-3.1	20
Pyrene	Ave	50.0	44.2		1.217768	1.218492	0.06	20

** Quadratic Curve fit may be weighted (1/a or 1/a2).

* = Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8270D

Laboratory: Apex Laboratories

SDG: A9I0771

Client: Anchor QEA, LLC

Project: Gasco PreRD DG 2019 - 2a. Surface Sediments

Instrument ID: SV-GCMS14

Calibration: A9I1001

Lab File ID: N09271902.D

Calibration Date: 09/10/19 10:37

Sequence: 9I27028

Injection Date: 09/27/19

Lab Sample ID: 9I27028-CCV1

Injection Time: 10:38

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
Acenaphthene	Ave	50.0	49.3		1.421956	1.401854	-1.4	20
Acenaphthylene	Ave	50.0	49.3		2.170985	2.138635	-1.5	20
Anthracene	Ave	50.0	49.0		1.088443	1.067001	-2.0	20
Benz(a)anthracene	Ave	50.0	46.0		1.161023	1.06889	-7.9	20
Benzo(a)pyrene	Ave	50.0	51.1		0.9876419	1.008618	2.1	20
Benzo(b)fluoranthene	Ave	50.0	49.4		1.153887	1.140027	-1.2	20
Benzo(k)fluoranthene	Ave	50.0	49.9		1.136093	1.133303	-0.2	20
Benzo(g,h,i)perylene	Ave	50.0	46.5		1.308305	1.215647	-7.1	20
Chrysene	Ave	50.0	48.6		1.098706	1.068024	-2.8	20
Dibenz(a,h)anthracene	Ave	50.0	48.8		1.158853	1.130608	-2.4	20
Fluoranthene	Ave	50.0	50.8		1.178979	1.19709	1.5	20
Fluorene	Ave	50.0	50.3		1.455085	1.464076	0.6	20
Indeno(1,2,3-cd)pyrene	Ave	50.0	46.5		1.233305	1.146526	-7.0	20
2-Methylnaphthalene	Ave	50.0	45.4		0.9346173	0.8490122	-9.2	20
Naphthalene	Ave	50.0	48.8		1.102926	1.077281	-2.3	20
Phenanthrene	Ave	50.0	49.4		1.170171	1.156117	-1.2	20
Pyrene	Ave	50.0	45.3		1.217768	1.227876	0.8	20

** Quadratic Curve fit may be weighted (1/a or 1/a2).

* = Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8270D

Laboratory: Apex Laboratories

SDG: A9I0771

Client: Anchor QEA, LLC

Project: Gasco PreRD DG 2019 - 2a. Surface Sediments

Instrument ID: SV-GCMS14

Calibration: A9I1001

Lab File ID: N10021902.D

Calibration Date: 09/10/19 10:37

Sequence: 9J02028

Injection Date: 10/02/19

Lab Sample ID: 9J02028-CCV1

Injection Time: 15:03

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
Acenaphthene	Ave	50.0	49.7		1.421956	1.413237	-0.6	20
Acenaphthylene	Ave	50.0	49.5		2.170985	2.148225	-1.0	20
Anthracene	Ave	50.0	48.4		1.088443	1.05267	-3.3	20
Benz(a)anthracene	Ave	50.0	46.6		1.161023	1.082564	-6.8	20
Benzo(a)pyrene	Ave	50.0	50.1		0.9876419	0.9893024	0.2	20
Benzo(b)fluoranthene	Ave	50.0	49.4		1.153887	1.139027	-1.3	20
Benzo(k)fluoranthene	Ave	50.0	50.5		1.136093	1.147697	1.0	20
Benzo(g,h,i)perylene	Ave	50.0	47.8		1.308305	1.25061	-4.4	20
Chrysene	Ave	50.0	49.0		1.098706	1.076748	-2.0	20
Dibenz(a,h)anthracene	Ave	50.0	48.5		1.158853	1.124135	-3.0	20
Fluoranthene	Ave	50.0	50.7		1.178979	1.196453	1.5	20
Fluorene	Ave	50.0	50.5		1.455085	1.469353	1.0	20
Indeno(1,2,3-cd)pyrene	Ave	50.0	47.2		1.233305	1.163334	-5.7	20
1-Methylnaphthalene	Ave	50.0	47.5		0.9344468	0.8872561	-5.1	20
2-Methylnaphthalene	Ave	50.0	45.7		0.9346173	0.8546	-8.6	20
Naphthalene	Ave	50.0	48.6		1.102926	1.071323	-2.9	20
Phenanthrene	Ave	50.0	49.4		1.170171	1.156284	-1.2	20
Pyrene	Ave	50.0	46.9		1.217768	1.239446	1.8	20

** Quadratic Curve fit may be weighted (1/a or 1/a²).

* = Values outside of QC limits

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8270D

Laboratory: <u>Apex Laboratories</u>	SDG: <u>A9I0771</u>
Client: <u>Anchor QEA, LLC</u>	Project: <u>Gasco PreRD_DG 2019 - 2a. Surface Sediments</u>
Sequence: <u>9I06028</u>	Instrument: <u>SV-GCMS14</u>
Matrix: <u>Sediment</u>	Calibration: <u>A9I1001</u>

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Initial Cal Check (9I06028-ICV1)			Lab File ID: N09061924.D		Analyzed: 09/06/19 22:45			
2-Fluorobiphenyl (Surr)	50.0	99	70 - 130	8.95	8.9523	-0.0023	+/-1.0	
p-Terphenyl-d14 (Surr)	50.0	97	70 - 130	12.925	12.9315	-0.0065	+/-1.0	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8270D

Laboratory: Apex Laboratories
 Client: Anchor QEA, LLC
 Sequence: 9I26035
 Matrix: Sediment

SDG: A9I0771
 Project: Gasco PreRD_DG 2019 - 2a. Surface Sediments
 Instrument: SV-GCMS14
 Calibration: A9I1001

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (9I26035-CCV1)			Lab File ID: N09261902.D		Analyzed: 09/26/19 14:29			
2-Fluorobiphenyl (Surr)	50.0	99	80 - 120	8.944	8.9523	-0.0083	+/-1.0	
p-Terphenyl-d14 (Surr)	50.0	95	80 - 120	12.925	12.9315	-0.0065	+/-1.0	
Calibration Blank (9I26035-CCB1)			Lab File ID: N09261903.D		Analyzed: 09/26/19 15:02			
2-Fluorobiphenyl (Surr)			44 - 115	0	8.9523	-8.9523	+/-1.0	
p-Terphenyl-d14 (Surr)			54 - 127	12.925	12.9315	-0.0065	+/-1.0	
Blank (9091304-BLK1)			Lab File ID: N09261904.D		Analyzed: 09/26/19 15:34			
2-Fluorobiphenyl (Surr)	45.5	91	44 - 115	8.95	8.9523	-0.0023	+/-1.0	
p-Terphenyl-d14 (Surr)	45.5	98	54 - 127	12.931	12.9315	-0.0005	+/-1.0	
LCS (9091304-BS1)			Lab File ID: N09261905.D		Analyzed: 09/26/19 16:07			
2-Fluorobiphenyl (Surr)	50.0	86	44 - 115	8.944	8.9523	-0.0083	+/-1.0	
p-Terphenyl-d14 (Surr)	50.0	89	54 - 127	12.925	12.9315	-0.0065	+/-1.0	
PDI-014SG-00-0.78-190923 (A9I0771-01)			Lab File ID: N09261907.D		Analyzed: 09/26/19 17:12			
2-Fluorobiphenyl (Surr)	84.0	342	44 - 115	8.944	8.9523	-0.0083	+/-1.0	*
p-Terphenyl-d14 (Surr)	84.0	357	54 - 127	12.919	12.9315	-0.0125	+/-1.0	*
Duplicate (9091304-DUP1)			Lab File ID: N09261908.D		Analyzed: 09/26/19 17:49			
2-Fluorobiphenyl (Surr)	83.7	220	44 - 115	8.944	8.9523	-0.0083	+/-1.0	*
p-Terphenyl-d14 (Surr)	83.7	340	54 - 127	12.919	12.9315	-0.0125	+/-1.0	*
PDI-1014SG-00-0.78-190923 (A9I0771-02)			Lab File ID: N09261910.D		Analyzed: 09/26/19 18:53			
2-Fluorobiphenyl (Surr)	85.8	242	44 - 115	8.944	8.9523	-0.0083	+/-1.0	*
p-Terphenyl-d14 (Surr)	85.8	214	54 - 127	12.925	12.9315	-0.0065	+/-1.0	*
PDI-015SG-00-0.87-190924 (A9I0771-03)			Lab File ID: N09261911.D		Analyzed: 09/26/19 19:25			
2-Fluorobiphenyl (Surr)	73.6	275	44 - 115	8.944	8.9523	-0.0083	+/-1.0	*
p-Terphenyl-d14 (Surr)	73.6	210	54 - 127	12.925	12.9315	-0.0065	+/-1.0	*

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8270D

Laboratory: <u>Apex Laboratories</u>	SDG: <u>A9I0771</u>
Client: <u>Anchor QEA, LLC</u>	Project: <u>Gasco PreRD_DG 2019 - 2a. Surface Sediments</u>
Sequence: <u>9I27028</u>	Instrument: <u>SV-GCMS14</u>
Matrix: <u>Sediment</u>	Calibration: <u>A9I1001</u>

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (9I27028-CCV1)			Lab File ID: N09271902.D		Analyzed: 09/27/19 10:38			
2-Fluorobiphenyl (Surr)	50.0	100	80 - 120	8.944	8.9523	-0.0083	+/-1.0	
p-Terphenyl-d14 (Surr)	50.0	96	80 - 120	12.925	12.9315	-0.0065	+/-1.0	
Calibration Blank (9I27028-CCB1)			Lab File ID: N09271903.D		Analyzed: 09/27/19 11:10			
2-Fluorobiphenyl (Surr)			44 - 115	0	8.9523	-8.9523	+/-1.0	
p-Terphenyl-d14 (Surr)			54 - 127	0	12.9315	-12.9315	+/-1.0	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8270D

Laboratory: Apex Laboratories

SDG: A9I0771

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 2a. Surface Sediments

Sequence: 9J02028

Instrument: SV-GCMS14

Matrix: Sediment

Calibration: A9I1001

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (9J02028-CCV1)			Lab File ID: N10021902.D		Analyzed: 10/02/19 15:03			
2-Fluorobiphenyl (Surr)	50.0	98	80 - 120	8.944	8.9523	-0.0083	+/-1.0	
p-Terphenyl-d14 (Surr)	50.0	96	80 - 120	12.925	12.9315	-0.0065	+/-1.0	
Calibration Blank (9J02028-CCB1)			Lab File ID: N10021903.D		Analyzed: 10/02/19 15:35			
2-Fluorobiphenyl (Surr)			44 - 120	0	8.9523	-8.9523	+/-1.0	
p-Terphenyl-d14 (Surr)			50 - 133	0	12.9315	-12.9315	+/-1.0	
Blank (9100550-BLK1)			Lab File ID: N10021904.D		Analyzed: 10/02/19 16:07			
2-Fluorobiphenyl (Surr)	45.5	73	44 - 115	8.944	8.9523	-0.0083	+/-1.0	
p-Terphenyl-d14 (Surr)	45.5	79	54 - 127	12.925	12.9315	-0.0065	+/-1.0	
LCS (9100550-BS1)			Lab File ID: N10021905.D		Analyzed: 10/02/19 16:39			
2-Fluorobiphenyl (Surr)	50.0	71	44 - 115	8.95	8.9523	-0.0023	+/-1.0	
p-Terphenyl-d14 (Surr)	50.0	79	54 - 127	12.925	12.9315	-0.0065	+/-1.0	
PDI-102SG-00-01-190923 (A9I0771-06RE3)			Lab File ID: N10021906.D		Analyzed: 10/02/19 17:15			
2-Fluorobiphenyl (Surr)	105	51	44 - 115	8.944	8.9523	-0.0083	+/-1.0	
p-Terphenyl-d14 (Surr)	105	76	54 - 127	12.925	12.9315	-0.0065	+/-1.0	
Matrix Spike (9100550-MS1)			Lab File ID: N10021907.D		Analyzed: 10/02/19 17:47			
2-Fluorobiphenyl (Surr)	106	49	44 - 115	8.944	8.9523	-0.0083	+/-1.0	
p-Terphenyl-d14 (Surr)	106	55	54 - 127	12.925	12.9315	-0.0065	+/-1.0	
Matrix Spike Dup (9100550-MSD1)			Lab File ID: N10021908.D		Analyzed: 10/02/19 18:19			
2-Fluorobiphenyl (Surr)	106	61	44 - 115	8.95	8.9523	-0.0023	+/-1.0	
p-Terphenyl-d14 (Surr)	106	73	54 - 127	12.931	12.9315	-0.0005	+/-1.0	
PDI-022SG-00-01-190924 (A9I0771-04RE3)			Lab File ID: N10021909.D		Analyzed: 10/02/19 18:51			
2-Fluorobiphenyl (Surr)	74.4	155	44 - 115	8.95	8.9523	-0.0023	+/-1.0	*
p-Terphenyl-d14 (Surr)	74.4	89	54 - 127	12.925	12.9315	-0.0065	+/-1.0	
PDI-101SG-00-01-190923 (A9I0771-05RE3)			Lab File ID: N10021910.D		Analyzed: 10/02/19 19:23			
2-Fluorobiphenyl (Surr)	117	73	44 - 115	8.95	8.9523	-0.0023	+/-1.0	
p-Terphenyl-d14 (Surr)	117	82	54 - 127	12.925	12.9315	-0.0065	+/-1.0	

**INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270D**

Laboratory: Apex Laboratories

SDG: A910771

Client: Anchor QEA, LLC

Project: Gasco PreRD DG 2019 - 2a. Surface Sediments

Sequence: 9I26035

Instrument: SV-GCMS14

Matrix: Sediment

Calibration: A9I1001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (9I26035-CCV1)			Lab File ID: N09261902.D			Analyzed: 09/26/19 14:29			
Naphthalene-d8 (ISTD)	183404	7.877	148351	7.883	124	50 - 200	-0.0060	+/-0.50	
Acenaphthene-d10 (ISTD)	133678	9.632	117951	9.638	113	50 - 200	-0.0060	+/-0.50	
Phenanthrene-d10 (ISTD)	265548	11.141	219661	11.147	121	50 - 200	-0.0060	+/-0.50	
Chrysene-d12 (ISTD)	234147	14.901	169841	14.907	138	50 - 200	-0.0060	+/-0.50	
Perylene-d12 (ISTD)	211145	18.375	142416	18.375	148	50 - 200	0.0000	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	166237	20.759	93265	20.765	178	50 - 200	-0.0060	+/-0.50	
Calibration Blank (9I26035-CCB1)			Lab File ID: N09261903.D			Analyzed: 09/26/19 15:02			
Naphthalene-d8 (ISTD)	161011	7.877	183404	7.877	88	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	118187	9.632	133678	9.632	88	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	224683	11.141	265548	11.141	85	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	176936	14.895	234147	14.901	76	50 - 200	-0.0060	+/-0.50	
Perylene-d12 (ISTD)	148515	18.369	211145	18.375	70	50 - 200	-0.0060	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	114192	20.753	166237	20.759	69	50 - 200	-0.0060	+/-0.50	
Blank (9091304-BLK1)			Lab File ID: N09261904.D			Analyzed: 09/26/19 15:34			
Naphthalene-d8 (ISTD)	145324	7.883	183404	7.877	79	50 - 200	0.0060	+/-0.50	
Acenaphthene-d10 (ISTD)	123956	9.638	133678	9.632	93	50 - 200	0.0060	+/-0.50	
Phenanthrene-d10 (ISTD)	241466	11.141	265548	11.141	91	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	203752	14.907	234147	14.901	87	50 - 200	0.0060	+/-0.50	
Perylene-d12 (ISTD)	176592	18.375	211145	18.375	84	50 - 200	0.0000	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	142990	20.764	166237	20.759	86	50 - 200	0.0050	+/-0.50	
LCS (9091304-BS1)			Lab File ID: N09261905.D			Analyzed: 09/26/19 16:07			
Naphthalene-d8 (ISTD)	147572	7.877	183404	7.877	80	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	130257	9.632	133678	9.632	97	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	256394	11.141	265548	11.141	97	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	229224	14.901	234147	14.901	98	50 - 200	0.0000	+/-0.50	
Perylene-d12 (ISTD)	200096	18.369	211145	18.375	95	50 - 200	-0.0060	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	161803	20.758	166237	20.759	97	50 - 200	-0.0010	+/-0.50	
PDI-014SG-00-0.78-190923 (A9I0771-01)			Lab File ID: N09261907.D			Analyzed: 09/26/19 17:12			
Naphthalene-d8 (ISTD)	165302	7.877	183404	7.877	90	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	133729	9.632	133678	9.632	100	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	259867	11.141	265548	11.141	98	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	241535	14.907	234147	14.901	103	50 - 200	0.0060	+/-0.50	
Perylene-d12 (ISTD)	223430	18.375	211145	18.375	106	50 - 200	0.0000	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	178607	20.765	166237	20.759	107	50 - 200	0.0060	+/-0.50	

**INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270D**

Laboratory: Apex Laboratories
 Client: Anchor QEA, LLC
 Sequence: 9I26035
 Matrix: Sediment

SDG: A9I0771
 Project: Gasco PreRD DG 2019 - 2a. Surface Sediments
 Instrument: SV-GCMS14
 Calibration: A9I1001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Duplicate (9091304-DUP1)			Lab File ID: N09261908.D			Analyzed: 09/26/19 17:49			
Naphthalene-d8 (ISTD)	165620	7.877	183404	7.877	90	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	128189	9.638	133678	9.632	96	50 - 200	0.0060	+/-0.50	
Phenanthrene-d10 (ISTD)	248396	11.147	265548	11.141	94	50 - 200	0.0060	+/-0.50	
Chrysene-d12 (ISTD)	237269	14.907	234147	14.901	101	50 - 200	0.0060	+/-0.50	
Perylene-d12 (ISTD)	223579	18.381	211145	18.375	106	50 - 200	0.0060	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	177023	20.765	166237	20.759	106	50 - 200	0.0060	+/-0.50	
Blank (9091304-BLK2)			Lab File ID: N09261909.D			Analyzed: 09/26/19 18:21			
Naphthalene-d8 (ISTD)	186611	7.877	183404	7.877	102	50 - 200	0.0000	+/-0.50	
PDI-1014SG-00-0.78-190923 (A9I0771-02)			Lab File ID: N09261910.D			Analyzed: 09/26/19 18:53			
Naphthalene-d8 (ISTD)	157389	7.877	183404	7.877	86	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	127247	9.632	133678	9.632	95	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	248353	11.141	265548	11.141	94	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	228343	14.901	234147	14.901	98	50 - 200	0.0000	+/-0.50	
Perylene-d12 (ISTD)	210630	18.369	211145	18.375	100	50 - 200	-0.0060	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	164339	20.759	166237	20.759	99	50 - 200	0.0000	+/-0.50	
PDI-015SG-00-0.87-190924 (A9I0771-03)			Lab File ID: N09261911.D			Analyzed: 09/26/19 19:25			
Naphthalene-d8 (ISTD)	163387	7.877	183404	7.877	89	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	134046	9.632	133678	9.632	100	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	259539	11.141	265548	11.141	98	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	229149	14.901	234147	14.901	98	50 - 200	0.0000	+/-0.50	
Perylene-d12 (ISTD)	208651	18.369	211145	18.375	99	50 - 200	-0.0060	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	159097	20.759	166237	20.759	96	50 - 200	0.0000	+/-0.50	

**INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270D**

Laboratory: Apex Laboratories

SDG: A910771

Client: Anchor QEA, LLC

Project: Gasco PreRD DG 2019 - 2a. Surface Sediments

Sequence: 9127028

Instrument: SV-GCMS14

Matrix: Sediment

Calibration: A911001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (9127028-CCV1)			Lab File ID: N09271902.D			Analyzed: 09/27/19 10:38			
Naphthalene-d8 (ISTD)	179849	7.877	148351	7.883	121	50 - 200	-0.0060	+/-0.50	
Acenaphthene-d10 (ISTD)	129246	9.632	117951	9.638	110	50 - 200	-0.0060	+/-0.50	
Phenanthrene-d10 (ISTD)	247385	11.141	219661	11.147	113	50 - 200	-0.0060	+/-0.50	
Chrysene-d12 (ISTD)	214821	14.901	169841	14.907	126	50 - 200	-0.0060	+/-0.50	
Calibration Blank (9127028-CCB1)			Lab File ID: N09271903.D			Analyzed: 09/27/19 11:10			
Naphthalene-d8 (ISTD)	181973	7.877	179849	7.877	101	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	124327	9.632	129246	9.632	96	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	230633	11.141	247385	11.141	93	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	178143	14.895	214821	14.901	83	50 - 200	-0.0060	+/-0.50	
PDI-014SG-00-0.78-190923 (A910771-01RE1)			Lab File ID: N09271905.D			Analyzed: 09/27/19 12:14			
Naphthalene-d8 (ISTD)	182402	7.877	179849	7.877	101	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	130136	9.632	129246	9.632	101	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	249656	11.141	247385	11.141	101	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	205371	14.895	214821	14.901	96	50 - 200	-0.0060	+/-0.50	
Duplicate (9091304-DUP2)			Lab File ID: N09271906.D			Analyzed: 09/27/19 12:46			
Naphthalene-d8 (ISTD)	184721	7.877	179849	7.877	103	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	133196	9.632	129246	9.632	103	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	251875	11.141	247385	11.141	102	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	203084	14.901	214821	14.901	95	50 - 200	0.0000	+/-0.50	
PDI-1014SG-00-0.78-190923 (A910771-02RE1)			Lab File ID: N09271907.D			Analyzed: 09/27/19 13:18			
Naphthalene-d8 (ISTD)	174302	7.877	179849	7.877	97	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	238229	11.141	247385	11.141	96	50 - 200	0.0000	+/-0.50	
PDI-015SG-00-0.87-190924 (A910771-03RE1)			Lab File ID: N09271908.D			Analyzed: 09/27/19 13:50			
Naphthalene-d8 (ISTD)	198344	7.877	179849	7.877	110	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	217244	11.141	247385	11.141	88	50 - 200	0.0000	+/-0.50	

**INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270D**

Laboratory: Apex Laboratories
 Client: Anchor QEA, LLC
 Sequence: 9J02028
 Matrix: Sediment

SDG: A910771
 Project: Gasco PreRD DG 2019 - 2a. Surface Sediments
 Instrument: SV-GCMS14
 Calibration: A911001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (9J02028-CCV1)			Lab File ID: N10021902.D			Analyzed: 10/02/19 15:03			
Naphthalene-d8 (ISTD)	185509	7.877	148351	7.883	125	50 - 200	-0.0060	+/-0.50	
Acenaphthene-d10 (ISTD)	134579	9.632	117951	9.638	114	50 - 200	-0.0060	+/-0.50	
Phenanthrene-d10 (ISTD)	260602	11.141	219661	11.147	119	50 - 200	-0.0060	+/-0.50	
Chrysene-d12 (ISTD)	220436	14.907	169841	14.907	130	50 - 200	0.0000	+/-0.50	
Perylene-d12 (ISTD)	191913	18.375	142416	18.375	135	50 - 200	0.0000	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	137197	20.764	93265	20.765	147	50 - 200	-0.0010	+/-0.50	
Calibration Blank (9J02028-CCB1)			Lab File ID: N10021903.D			Analyzed: 10/02/19 15:35			
Naphthalene-d8 (ISTD)	191493	7.877	185509	7.877	103	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	132515	9.632	134579	9.632	98	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	249370	11.142	260602	11.141	96	50 - 200	0.0010	+/-0.50	
Chrysene-d12 (ISTD)	183878	14.901	220436	14.907	83	50 - 200	-0.0060	+/-0.50	
Perylene-d12 (ISTD)	148234	18.369	191913	18.375	77	50 - 200	-0.0060	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	109385	20.759	137197	20.764	80	50 - 200	-0.0050	+/-0.50	
Blank (9100550-BLK1)			Lab File ID: N10021904.D			Analyzed: 10/02/19 16:07			
Naphthalene-d8 (ISTD)	211503	7.877	185509	7.877	114	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	132291	9.632	134579	9.632	98	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	236423	11.141	260602	11.141	91	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	178757	14.901	220436	14.907	81	50 - 200	-0.0060	+/-0.50	
Perylene-d12 (ISTD)	148852	18.369	191913	18.375	78	50 - 200	-0.0060	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	110247	20.759	137197	20.764	80	50 - 200	-0.0050	+/-0.50	
LCS (9100550-BS1)			Lab File ID: N10021905.D			Analyzed: 10/02/19 16:39			
Naphthalene-d8 (ISTD)	175574	7.877	185509	7.877	95	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	141554	9.638	134579	9.632	105	50 - 200	0.0060	+/-0.50	
Phenanthrene-d10 (ISTD)	275822	11.141	260602	11.141	106	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	235476	14.901	220436	14.907	107	50 - 200	-0.0060	+/-0.50	
Perylene-d12 (ISTD)	202037	18.375	191913	18.375	105	50 - 200	0.0000	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	146077	20.759	137197	20.764	106	50 - 200	-0.0050	+/-0.50	
PDI-102SG-00-01-190923 (A910771-06RE3)			Lab File ID: N10021906.D			Analyzed: 10/02/19 17:15			
Naphthalene-d8 (ISTD)	223686	7.877	185509	7.877	121	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	137552	9.632	134579	9.632	102	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	250380	11.141	260602	11.141	96	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	216049	14.901	220436	14.907	98	50 - 200	-0.0060	+/-0.50	
Perylene-d12 (ISTD)	207077	18.375	191913	18.375	108	50 - 200	0.0000	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	155310	20.765	137197	20.764	113	50 - 200	0.0010	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270D

Laboratory: Apex Laboratories
 Client: Anchor QEA, LLC
 Sequence: 9J02028
 Matrix: Sediment

SDG: A9I0771
 Project: Gasco PreRD DG 2019 - 2a. Surface Sediments
 Instrument: SV-GCMS14
 Calibration: A9I1001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Matrix Spike (9100550-MS1)			Lab File ID: N10021907.D			Analyzed: 10/02/19 17:47			
Naphthalene-d8 (ISTD)	218414	7.877	185509	7.877	118	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	146454	9.632	134579	9.632	109	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	269878	11.141	260602	11.141	104	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	246329	14.901	220436	14.907	112	50 - 200	-0.0060	+/-0.50	
Perylene-d12 (ISTD)	236643	18.375	191913	18.375	123	50 - 200	0.0000	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	187376	20.764	137197	20.764	137	50 - 200	0.0000	+/-0.50	
Matrix Spike Dup (9100550-MSD1)			Lab File ID: N10021908.D			Analyzed: 10/02/19 18:19			
Naphthalene-d8 (ISTD)	219964	7.883	185509	7.877	119	50 - 200	0.0060	+/-0.50	
Acenaphthene-d10 (ISTD)	144208	9.638	134579	9.632	107	50 - 200	0.0060	+/-0.50	
Phenanthrene-d10 (ISTD)	265634	11.142	260602	11.141	102	50 - 200	0.0010	+/-0.50	
Chrysene-d12 (ISTD)	241761	14.907	220436	14.907	110	50 - 200	0.0000	+/-0.50	
Perylene-d12 (ISTD)	227730	18.381	191913	18.375	119	50 - 200	0.0060	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	177364	20.765	137197	20.764	129	50 - 200	0.0010	+/-0.50	
PDI-022SG-00-01-190924 (A9I0771-04RE3)			Lab File ID: N10021909.D			Analyzed: 10/02/19 18:51			
Naphthalene-d8 (ISTD)	214472	7.877	185509	7.877	116	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	139141	9.638	134579	9.632	103	50 - 200	0.0060	+/-0.50	
Phenanthrene-d10 (ISTD)	247544	11.141	260602	11.141	95	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	206173	14.901	220436	14.907	94	50 - 200	-0.0060	+/-0.50	
Perylene-d12 (ISTD)	194243	18.375	191913	18.375	101	50 - 200	0.0000	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	142978	20.759	137197	20.764	104	50 - 200	-0.0050	+/-0.50	
PDI-101SG-00-01-190923 (A9I0771-05RE3)			Lab File ID: N10021910.D			Analyzed: 10/02/19 19:23			
Naphthalene-d8 (ISTD)	225986	7.877	185509	7.877	122	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	142704	9.638	134579	9.632	106	50 - 200	0.0060	+/-0.50	
Phenanthrene-d10 (ISTD)	256541	11.141	260602	11.141	98	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	231082	14.907	220436	14.907	105	50 - 200	0.0000	+/-0.50	
Perylene-d12 (ISTD)	227151	18.375	191913	18.375	118	50 - 200	0.0000	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	173167	20.765	137197	20.764	126	50 - 200	0.0010	+/-0.50	
Matrix Spike (9100550-MS2)			Lab File ID: N10021912.D			Analyzed: 10/02/19 20:27			
Naphthalene-d8 (ISTD)	199696	7.877	185509	7.877	108	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	125401	9.637	134579	9.632	93	50 - 200	0.0050	+/-0.50	
Phenanthrene-d10 (ISTD)	221941	11.141	260602	11.141	85	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	192767	14.901	220436	14.907	87	50 - 200	-0.0060	+/-0.50	
Perylene-d12 (ISTD)	192894	18.375	191913	18.375	101	50 - 200	0.0000	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	144822	20.759	137197	20.764	106	50 - 200	-0.0050	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270D

Laboratory: Apex Laboratories

SDG: A9I0771

Client: Anchor QEA, LLC

Project: Gasco PreRD DG 2019 - 2a. Surface Sediments

Sequence: 9J02028

Instrument: SV-GCMS14

Matrix: Sediment

Calibration: A9I1001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Matrix Spike Dup (9100550-MSD2)			Lab File ID: N10021913.D			Analyzed: 10/02/19 20:59			
Naphthalene-d8 (ISTD)	206140	7.877	185509	7.877	111	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	128113	9.637	134579	9.632	95	50 - 200	0.0050	+/-0.50	
Phenanthrene-d10 (ISTD)	230343	11.141	260602	11.141	88	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	206655	14.901	220436	14.907	94	50 - 200	-0.0060	+/-0.50	
Perylene-d12 (ISTD)	205080	18.375	191913	18.375	107	50 - 200	0.0000	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	162589	20.764	137197	20.764	119	50 - 200	0.0000	+/-0.50	

HOLDING TIME SUMMARY

EPA 8270D

Laboratory: Apex Laboratories

SDG: A9I0771

Client: Anchor QEA, LLC

Project: Gasco PreRD DG 2019 - 2a. Surface Sediments

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
PDI-014SG-00-0.78-190923	09/23/19 17:05	09/25/19 10:36	09/26/19 07:03	2.58	14.00	09/26/19 17:12	0.42	40.00	
PDI-014SG-00-0.78-190923	09/23/19 17:05	09/25/19 10:36	09/26/19 07:03	2.58	14.00	09/27/19 12:14	1.22	40.00	
PDI-1014SG-00-0.78-190923	09/23/19 17:10	09/25/19 10:36	09/26/19 07:03	2.58	14.00	09/26/19 18:53	0.49	40.00	
PDI-1014SG-00-0.78-190923	09/23/19 17:10	09/25/19 10:36	09/26/19 07:03	2.58	14.00	09/27/19 13:18	1.26	40.00	
PDI-015SG-00-0.87-190924	09/24/19 11:19	09/25/19 10:36	09/26/19 07:03	1.82	14.00	09/26/19 19:25	0.52	40.00	
PDI-015SG-00-0.87-190924	09/24/19 11:19	09/25/19 10:36	09/26/19 07:03	1.82	14.00	09/27/19 13:50	1.28	40.00	
PDI-022SG-00-01-190924	09/24/19 13:00	09/25/19 10:36	10/02/19 11:20	7.93	14.00	10/02/19 18:51	0.31	40.00	
PDI-101SG-00-01-190923	09/23/19 13:35	09/25/19 10:36	10/02/19 11:20	8.91	14.00	10/02/19 19:23	0.34	40.00	
PDI-102SG-00-01-190923	09/23/19 15:05	09/25/19 10:36	10/02/19 11:20	8.84	14.00	10/02/19 17:15	0.25	40.00	

Apex Laboratories

SDG: A9I0771

CLASS: WET

METHOD: SM 5310 B MOD

ANALYSES DATA PACKAGE COVER PAGE

SM 5310 B MOD

Laboratory: Apex Laboratories

SDG: A9I0771

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 2a. Surface Sediments

Client Sample Id:	Lab Sample Id:	Matrix
<u>PDI-014SG-00-0.78-190923</u>	<u>A9I0771-01</u>	<u>Sediment</u>
<u>PDI-1014SG-00-0.78-190923</u>	<u>A9I0771-02</u>	<u>Sediment</u>
<u>PDI-015SG-00-0.87-190924</u>	<u>A9I0771-03</u>	<u>Sediment</u>
<u>PDI-022SG-00-01-190924</u>	<u>A9I0771-04</u>	<u>Sediment</u>
<u>PDI-101SG-00-01-190923</u>	<u>A9I0771-05</u>	<u>Sediment</u>
<u>PDI-102SG-00-01-190923</u>	<u>A9I0771-06</u>	<u>Sediment</u>

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: _____



Name: _____

David G. Jack

Forms Created: _____

11/1/2019 2:31PM

Title: _____

Technical Manager

METHOD DETECTION AND REPORTING LIMITS

SM 5310 B MOD

Laboratory: Apex Laboratories

SDG: A910771

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 2a. Surface Sedi

Batch Matrix: Sediment

Analyte	MDL	MRL	Units
Total Organic Carbon	0.020	0.020	% by Weight

Note: MDLs are listed only if the corresponding analyte was evaluated to the MDL in this report .

INORGANIC ANALYSIS DATA SHEET
SM 5310 B MOD

PDI-014SG-00-0.78-190923

Laboratory: Apex Laboratories

SDG: A9I0771

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 2a. Surface Sediments

Matrix: Sediment

Laboratory ID: A9I0771-01

Sampled: 09/23/19 17:05

Prepared: 09/26/19 10:43

Analyzed: 10/03/19 12:50

Solids: 56.34

Preparation: PSEP-5310B TOC

Initial/Final: 5 N/A / 5 N/A

Batch: 9091328

Sequence: 9J03020

Calibration: A8B0203

Instrument: TOC

CAS NO.	Analyte	Concentration (% by Weight)	Dilution Factor	Q	Method
TOC	Total Organic Carbon	3.3	1		SM 5310 B MOD

INORGANIC ANALYSIS DATA SHEET
SM 5310 B MOD

PDI-1014SG-00-0.78-190923

Laboratory: Apex Laboratories

SDG: A9I0771

Client: Anchor QEA, LLC

Project: Gasco PreRD DG 2019 - 2a. Surface Sediments

Matrix: Sediment

Laboratory ID: A9I0771-02

Sampled: 09/23/19 17:10

Prepared: 09/26/19 10:43

Analyzed: 10/03/19 13:45

Solids: 56.39

Preparation: PSEP-5310B TOC

Initial/Final: 5 N/A / 5 N/A

Batch: 9091328

Sequence: 9J03020

Calibration: A8B0203

Instrument: TOC

CAS NO.	Analyte	Concentration (% by Weight)	Dilution Factor	Q	Method
TOC	Total Organic Carbon	3.2	1		SM 5310 B MOD

INORGANIC ANALYSIS DATA SHEET
SM 5310 B MOD

PDI-015SG-00-0.87-190924

Laboratory: Apex Laboratories

SDG: A9I0771

Client: Anchor QEA, LLC

Project: Gasco PreRD DG 2019 - 2a. Surface Sediments

Matrix: Sediment

Laboratory ID: A9I0771-03

Sampled: 09/24/19 11:19

Prepared: 09/26/19 10:43

Analyzed: 10/03/19 14:19

Solids: 67.47

Preparation: PSEP-5310B TOC

Initial/Final: 5 N/A / 5 N/A

Batch: 9091328

Sequence: 9J03020

Calibration: A8B0203

Instrument: TOC

CAS NO.	Analyte	Concentration (% by Weight)	Dilution Factor	Q	Method
TOC	Total Organic Carbon	2.1	1		SM 5310 B MOD

INORGANIC ANALYSIS DATA SHEET
SM 5310 B MOD

PDI-022SG-00-01-190924

Laboratory: Apex Laboratories

SDG: A9I0771

Client: Anchor QEA, LLC

Project: Gasco PreRD DG 2019 - 2a. Surface Sediments

Matrix: Sediment

Laboratory ID: A9I0771-04

Sampled: 09/24/19 13:00

Prepared: 09/26/19 10:43

Analyzed: 10/03/19 14:40

Solids: 61.36

Preparation: PSEP-5310B TOC

Initial/Final: 5 N/A / 5 N/A

Batch: 9091328

Sequence: 9J03020

Calibration: A8B0203

Instrument: TOC

CAS NO.	Analyte	Concentration (% by Weight)	Dilution Factor	Q	Method
TOC	Total Organic Carbon	0.82	1		SM 5310 B MOD

INORGANIC ANALYSIS DATA SHEET
SM 5310 B MOD

PDI-101SG-00-01-190923

Laboratory: Apex Laboratories

SDG: A9I0771

Client: Anchor QEA, LLC

Project: Gasco PreRD DG 2019 - 2a. Surface Sediments

Matrix: Sediment

Laboratory ID: A9I0771-05

Sampled: 09/23/19 13:35

Prepared: 09/26/19 10:43

Analyzed: 10/03/19 15:05

Solids: 40.20

Preparation: PSEP-5310B TOC

Initial/Final: 5 N/A / 5 N/A

Batch: 9091328

Sequence: 9J03020

Calibration: A8B0203

Instrument: TOC

CAS NO.	Analyte	Concentration (% by Weight)	Dilution Factor	Q	Method
TOC	Total Organic Carbon	2.8	1		SM 5310 B MOD

INORGANIC ANALYSIS DATA SHEET
SM 5310 B MOD

PDI-102SG-00-01-190923

Laboratory: Apex Laboratories

SDG: A9I0771

Client: Anchor QEA, LLC

Project: Gasco PreRD DG 2019 - 2a. Surface Sediments

Matrix: Sediment

Laboratory ID: A9I0771-06

Sampled: 09/23/19 15:05

Prepared: 09/26/19 10:43

Analyzed: 10/03/19 11:40

Solids: 45.03

Preparation: PSEP-5310B TOC

Initial/Final: 5 N/A / 5 N/A

Batch: 9091328

Sequence: 9J03020

Calibration: A8B0203

Instrument: TOC

CAS NO.	Analyte	Concentration (% by Weight)	Dilution Factor	Q	Method
TOC	Total Organic Carbon	2.1	1		SM 5310 B MOD

PREPARATION BATCH SUMMARY

SM 5310 B MOD

Laboratory: Apex Laboratories

SDG: A9I0771

Client: Anchor QEA, LLC

Project: Gasco PreRD DG 2019 - 2a. Surface Sediments

Batch: 9091328

Batch Matrix: Sediment

Preparation: PSEP-5310B TOC

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	9091328-BLK1		09/26/19 10:43	
LCS	9091328-BS1		09/26/19 10:43	
PDI-102SG-00-01-190923 (Dup)	9091328-DUP1		09/26/19 10:43	
PDI-014SG-00-0.78-190923	A9I0771-01		09/26/19 10:43	
PDI-1014SG-00-0.78-190923	A9I0771-02		09/26/19 10:43	
PDI-015SG-00-0.87-190924	A9I0771-03		09/26/19 10:43	
PDI-022SG-00-01-190924	A9I0771-04		09/26/19 10:43	
PDI-101SG-00-01-190923	A9I0771-05		09/26/19 10:43	
PDI-102SG-00-01-190923	A9I0771-06		09/26/19 10:43	

Note: Client samples are listed only if they are included in this report.

Duplicates and Matrix Spike/Duplicates QC Samples are only listed if sourced from a sample included in this report.

METHOD BLANK DATA SHEET
SM 5310 B MOD

Laboratory: <u>Apex Laboratories</u>	SDG: <u>A9I0771</u>	
Client: <u>Anchor QEA, LLC</u>	Project: <u>Gasco PreRD_DG 2019 - 2a. Surface Sediments</u>	
Matrix: <u>Sediment</u>	Laboratory ID: <u>9091328-BLK1</u>	File ID:
Prepared: <u>09/26/19 10:43</u>	Preparation: <u>PSEP-5310B TOC</u>	Initial/Final: <u>5 N/A / 5 N/A</u>
Analyzed: <u>10/03/19 10:57</u>	Instrument: <u>TOC</u>	
Batch: <u>9091328</u>	Sequence: <u>9J03020</u>	Calibration: <u>A8B0203</u>

CAS NO.	COMPOUND	CONC. (% by Weight)	Q
TOC	Total Organic Carbon	0.020	U

LCS / LCS DUPLICATE RECOVERY
SM 5310 B MOD

Laboratory: <u>Apex Laboratories</u>	SDG: <u>A9I0771</u>
Client: <u>Anchor QEA, LLC</u>	Project: <u>Gasco PreRD_DG 2019 - 2a. Surface Sediments</u>
Matrix: <u>Sediment</u>	
Batch: <u>9091328</u>	Laboratory ID: <u>9091328-BS1</u>
Preparation: <u>PSEP-5310B TOC</u>	Initial/Final: <u>5 N/A / 5 N/A</u>

COMPOUND	SPIKE ADDED (mg/kg)	LCS CONCENTRATION (mg/kg)	LCS % REC. (*=Out)	QC LIMITS REC.
Total Organic Carbon	10000	10000	100	90 - 110

* = Values outside of QC limits

DUPLICATES
SM 5310 B MOD

PDI-102SG-00-01-190923

Laboratory: Apex Laboratories

SDG: A9I0771

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 2a. Surface Sedin

Matrix: Sediment

Laboratory ID: 9091328-DUP1

Batch: 9091328

Lab Source ID: A9I0771-06

Preparation: PSEP-5310B TOC

Initial/Final: 5 N/A / 5 N/A

Source Sample Name: PDI-102SG-00-01-190923

% Solids: 45.03

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (% by Weight)	C	DUPLICATE CONCENTRATION (% by Weight)	C	RPD %	Q	METHOD
Total Organic Carbon	20	2.1		2.1		3		SM 5310 B MOD

* Values outside of QC limits

ANALYSIS BATCH (SEQUENCE) SUMMARY
SM 5310 B MOD

Laboratory: Apex Laboratories

SDG: A9I0771

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 2a. Surface Sediments

Sequence: 8B02022

Instrument: TOC

Matrix: Sediment

Calibration: A8B0203

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	8B02022-CAL2		02/02/18 17:35
Cal Standard	8B02022-CAL3		02/02/18 17:35
Cal Standard	8B02022-CAL4		02/02/18 17:35
Cal Standard	8B02022-CAL5		02/02/18 17:35
Cal Standard	8B02022-CAL6		02/02/18 17:35
Cal Standard	8B02022-CAL7		02/02/18 17:35
Cal Standard	8B02022-CAL8		02/02/18 17:35
Cal Standard	8B02022-CAL9		02/02/18 17:35
Cal Standard	8B02022-CALA		02/02/18 17:35
Cal Standard	8B02022-CALB		02/02/18 17:35
Initial Cal Check	8B02022-ICV2		02/02/18 17:35
Initial Cal Blank	8B02022-ICB2		02/02/18 17:35

Note: Client samples are listed only if they are included in this report.

Duplicates and Matrix Spike/Duplicates QC Samples are only listed if sourced from a sample included in this report.

ANALYSIS BATCH (SEQUENCE) SUMMARY
SM 5310 B MOD

Laboratory: Apex Laboratories

SDG: A9I0771

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 2a. Surface Sediments

Sequence: 9J03020

Instrument: TOC

Matrix: Sediment

Calibration: A8B0203

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	9J03020-CCV1		10/03/19 10:45
Calibration Blank	9J03020-CCB1		10/03/19 10:50
Blank	9091328-BLK1		10/03/19 10:57
LCS	9091328-BS1		10/03/19 11:18
PDI-102SG-00-01-190923	A9I0771-06		10/03/19 11:40
PDI-102SG-00-01-190923 (Dup)	9091328-DUP1		10/03/19 12:05
PDI-014SG-00-0.78-190923	A9I0771-01		10/03/19 12:50
PDI-1014SG-00-0.78-190923	A9I0771-02		10/03/19 13:45
PDI-015SG-00-0.87-190924	A9I0771-03		10/03/19 14:19
PDI-022SG-00-01-190924	A9I0771-04		10/03/19 14:40
PDI-101SG-00-01-190923	A9I0771-05		10/03/19 15:05
Calibration Check	9J03020-CCV2		10/03/19 16:00
Calibration Blank	9J03020-CCB2		10/03/19 16:19
Calibration Check	9J03020-CCV3		10/03/19 17:29
Calibration Blank	9J03020-CCB3		10/03/19 17:37

Note: Client samples are listed only if they are included in this report.

Duplicates and Matrix Spike/Duplicates QC Samples are only listed if sourced from a sample included in this report.

INITIAL CALIBRATION DATA (Summary)

SM 5310 B MOD

Laboratory: Apex Laboratories

SDG: A9I0771

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 2a. Surface Sediments

Calibration: A8B0203

Date: 02/02/18 15:56

Instrument: TOC

Compound	Mean RF	FIT	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Total Organic Carbon		Lin				0.00000			

Note: ** Quad COD may be incorrect if weighting (1/a) or (1/a²) used. Weighting not shown here. Please see instrument calibration printouts for validation.

INITIAL CALIBRATION DATA
SM 5310 B MOD

Laboratory: Apex Laboratories

SDG: A9I0771

Client: Anchor QEA, LLC

Project: Gasco PreRD DG 2019 - 2a. Surface Sedime

Calibration: A8B0203

Instrument: TOC

Calibration Date: 02/02/18 15:56

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	mg/kg	RF	mg/kg	RF	mg/kg	RF	mg/kg	RF	mg/kg	RF	mg/kg	RF
Total Organic Carbon	1000		2500		5000		10000		15000		20000	

INITIAL CALIBRATION DATA (Continued)

SM 5310 B MOD

Laboratory: Apex Laboratories

SDG: A9I0771

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 2a. Surface Sedime

Calibration: A8B0203

Instrument: TOC

Matrix:

Calibration Date: 02/02/18 15:56

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	mg/kg	RF	mg/kg	RF	mg/kg	RF	mg/kg	RF	mg/kg	RF	mg/kg	RF
Total Organic Carbon	25000		30000		35000		40000					

INITIAL AND CONTINUING CALIBRATION CHECK

SM 5310 B MOD

Laboratory: Apex Laboratories

SDG: A9I0771

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 2a. Surface Sediments

Instrument ID: TOC

Calibration: A8B0203

Control Limit: +/- 10.00%

Sequence: 8B02022

Lab Sample ID	Analyte	True	Found	%R	Units	Method
8B02022-ICV2	Total Organic Carbon	10000	10000	104	mg/kg	SM 5310 B MOD

* Values outside of QC limits

INITIAL AND CONTINUING CALIBRATION CHECK

SM 5310 B MOD

Laboratory: Apex Laboratories

SDG: A9I0771

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 2a. Surface Sediments

Instrument ID: TOC

Calibration: A8B0203

Control Limit: +/- 10.00%

Sequence: 9J03020

Lab Sample ID	Analyte	True	Found	%R	Units	Method
9J03020-CCV1	Total Organic Carbon	10000	11000	106	mg/kg	SM 5310 B MOD
9J03020-CCV2	Total Organic Carbon	10000	9800	98	mg/kg	SM 5310 B MOD
9J03020-CCV3	Total Organic Carbon	10000	10000	100	mg/kg	SM 5310 B MOD

* Values outside of QC limits

INSTRUMENT BLANKS
SM 5310 B MOD

Laboratory: Apex Laboratories

SDG: A9I0771

Client: Anchor QEA, LLC

Instrument ID: TOC

Project: Gasco PreRD DG 2019 - 2a. Surface Sediments

Sequence: 8B02022

Calibration: A8B0203

Lab Sample ID	Analyte	Found	RL	Units	C	Method
8B02022-ICB2	Total Organic Carbon	260	200 (Inst)	mg/kg	*	SM 5310 B MOD

(Inst) indicates on-Instrument Result and Reporting Level. Used for non-digested Instrument Blanks.

INSTRUMENT BLANKS
SM 5310 B MOD

Laboratory: Apex Laboratories

SDG: A9I0771

Client: Anchor QEA, LLC

Instrument ID: TOC

Project: Gasco PreRD DG 2019 - 2a. Surface Sediments

Sequence: 9J03020

Calibration: A8B0203

Lab Sample ID	Analyte	Found	RL	Units	C	Method
9J03020-CCB1	Total Organic Carbon	ND	200 (Inst)	mg/kg		SM 5310 B MOD
9J03020-CCB2	Total Organic Carbon	ND	200 (Inst)	mg/kg		SM 5310 B MOD
9J03020-CCB3	Total Organic Carbon	ND	200 (Inst)	mg/kg		SM 5310 B MOD

(Inst) indicates on-Instrument Result and Reporting Level. Used for non-digested Instrument Blanks.

HOLDING TIME SUMMARY
SM 5310 B MOD

Laboratory: Apex Laboratories

SDG: A9I0771

Client: Anchor QEA, LLC

Project: Gasco PreRD DG 2019 - 2a. Surface Sediments

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
PDI-014SG-00-0.78-190923	09/23/19 17:05	09/25/19 10:36	09/26/19 10:43	2.73	28.00	10/03/19 12:50	9.82	28.00	
PDI-1014SG-00-0.78-190923	09/23/19 17:10	09/25/19 10:36	09/26/19 10:43	2.73	28.00	10/03/19 13:45	9.86	28.00	
PDI-015SG-00-0.87-190924	09/24/19 11:19	09/25/19 10:36	09/26/19 10:43	1.98	28.00	10/03/19 14:19	9.13	28.00	
PDI-022SG-00-01-190924	09/24/19 13:00	09/25/19 10:36	09/26/19 10:43	1.90	28.00	10/03/19 14:40	9.07	28.00	
PDI-101SG-00-01-190923	09/23/19 13:35	09/25/19 10:36	09/26/19 10:43	2.88	28.00	10/03/19 15:05	10.06	28.00	
PDI-102SG-00-01-190923	09/23/19 15:05	09/25/19 10:36	09/26/19 10:43	2.82	28.00	10/03/19 11:40	9.86	28.00	

Apex Laboratories

SDG: A9I0771

CLASS: WET

METHOD: SM 2540 G

ANALYSES DATA PACKAGE COVER PAGE

SM 2540 G

Laboratory: Apex Laboratories

SDG: A9I0771

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 2a. Surface Sediments

Client Sample Id:	Lab Sample Id:	Matrix
<u>PDI-014SG-00-0.78-190923</u>	<u>A9I0771-01</u>	<u>Sediment</u>
<u>PDI-1014SG-00-0.78-190923</u>	<u>A9I0771-02</u>	<u>Sediment</u>
<u>PDI-015SG-00-0.87-190924</u>	<u>A9I0771-03</u>	<u>Sediment</u>
<u>PDI-022SG-00-01-190924</u>	<u>A9I0771-04</u>	<u>Sediment</u>
<u>PDI-101SG-00-01-190923</u>	<u>A9I0771-05</u>	<u>Sediment</u>
<u>PDI-102SG-00-01-190923</u>	<u>A9I0771-06</u>	<u>Sediment</u>

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature:



Name:

David G. Jack

Forms Created:

11/1/2019 12:20PM

Title:

Technical Manager

METHOD DETECTION AND REPORTING LIMITS

SM 2540 G

Laboratory: Apex Laboratories

SDG: A910771

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 2a. Surface Sedi

Batch Matrix: Sediment

Analyte	MDL	MRL	Units
Total Solids	1.00	1.00	% by Weight

Note: MDLs are listed only if the corresponding analyte was evaluated to the MDL in this report .

INORGANIC ANALYSIS DATA SHEET
SM 2540 G

PDI-014SG-00-0.78-190923

Laboratory: Apex Laboratories

SDG: A9I0771

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 2a. Surface Sediments

Matrix: Sediment

Laboratory ID: A9I0771-01

Sampled: 09/23/19 17:05

Prepared: 09/25/19 17:40

Analyzed: 09/27/19 18:00

Solids: 56.34

Preparation: Total Solids (SM2540G/PSEP)

Initial/Final: 1 N/A / 1 N/A

Batch: 9091299

Calibration:

Instrument: Inst

CAS NO.	Analyte	Concentration (% by Weight)	Dilution Factor	Q	Method
TS	Total Solids	56.3	1		SM 2540 G

INORGANIC ANALYSIS DATA SHEET

SM 2540 G

PDI-1014SG-00-0.78-190923

Laboratory: Apex Laboratories

SDG: A9I0771

Client: Anchor QEA, LLC

Project: Gasco PreRD DG 2019 - 2a. Surface Sediments

Matrix: Sediment

Laboratory ID: A9I0771-02

Sampled: 09/23/19 17:10

Prepared: 09/25/19 17:40

Analyzed: 09/27/19 18:00

Solids: 56.39

Preparation: Total Solids (SM2540G/PSEP)

Initial/Final: 1 N/A / 1 N/A

Batch: 9091299

Calibration:

Instrument: Inst

CAS NO.	Analyte	Concentration (% by Weight)	Dilution Factor	Q	Method
TS	Total Solids	56.4	1		SM 2540 G

INORGANIC ANALYSIS DATA SHEET

SM 2540 G

PDI-015SG-00-0.87-190924

Laboratory: Apex Laboratories

SDG: A9I0771

Client: Anchor QEA, LLC

Project: Gasco PreRD DG 2019 - 2a. Surface Sediments

Matrix: Sediment

Laboratory ID: A9I0771-03

Sampled: 09/24/19 11:19

Prepared: 09/25/19 17:40

Analyzed: 09/27/19 18:00

Solids: 67.47

Preparation: Total Solids (SM2540G/PSEP)

Initial/Final: 1 N/A / 1 N/A

Batch: 9091299

Calibration:

Instrument: Inst

CAS NO.	Analyte	Concentration (% by Weight)	Dilution Factor	Q	Method
TS	Total Solids	67.5	1		SM 2540 G

INORGANIC ANALYSIS DATA SHEET

SM 2540 G

PDI-022SG-00-01-190924

Laboratory: Apex Laboratories

SDG: A9I0771

Client: Anchor QEA, LLC

Project: Gasco PreRD DG 2019 - 2a. Surface Sediments

Matrix: Sediment

Laboratory ID: A9I0771-04

Sampled: 09/24/19 13:00

Prepared: 09/25/19 17:40

Analyzed: 09/27/19 18:00

Solids: 61.36

Preparation: Total Solids (SM2540G/PSEP)

Initial/Final: 1 N/A / 1 N/A

Batch: 9091299

Calibration:

Instrument: Inst

CAS NO.	Analyte	Concentration (% by Weight)	Dilution Factor	Q	Method
TS	Total Solids	61.4	1		SM 2540 G

INORGANIC ANALYSIS DATA SHEET

SM 2540 G

PDI-101SG-00-01-190923

Laboratory: Apex Laboratories

SDG: A9I0771

Client: Anchor QEA, LLC

Project: Gasco PreRD DG 2019 - 2a. Surface Sediments

Matrix: Sediment

Laboratory ID: A9I0771-05

Sampled: 09/23/19 13:35

Prepared: 09/25/19 17:40

Analyzed: 09/27/19 18:00

Solids: 40.20

Preparation: Total Solids (SM2540G/PSEP)

Initial/Final: 1 N/A / 1 N/A

Batch: 9091299

Calibration:

Instrument: Inst

CAS NO.	Analyte	Concentration (% by Weight)	Dilution Factor	Q	Method
TS	Total Solids	40.2	1		SM 2540 G

INORGANIC ANALYSIS DATA SHEET

SM 2540 G

PDI-102SG-00-01-190923

Laboratory: Apex Laboratories

SDG: A9I0771

Client: Anchor QEA, LLC

Project: Gasco PreRD DG 2019 - 2a. Surface Sediments

Matrix: Sediment

Laboratory ID: A9I0771-06

Sampled: 09/23/19 15:05

Prepared: 09/25/19 17:40

Analyzed: 09/27/19 18:00

Solids: 45.03

Preparation: Total Solids (SM2540G/PSEP)

Initial/Final: 1 N/A / 1 N/A

Batch: 9091299

Calibration:

Instrument: Inst

CAS NO.	Analyte	Concentration (% by Weight)	Dilution Factor	Q	Method
TS	Total Solids	45.0	1		SM 2540 G

PREPARATION BATCH SUMMARY

SM 2540 G

Laboratory: Apex Laboratories

SDG: A9I0771

Client: Anchor QEA, LLC

Project: Gasco PreRD DG 2019 - 2a. Surface Sediments

Batch: 9091299

Batch Matrix: Sediment

Preparation: Total Solids (SM2540G/PSEP)

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
PDI-102SG-00-01-190923 (Dup)	9091299-DUP1		09/25/19 17:40	
PDI-014SG-00-0.78-190923	A9I0771-01		09/25/19 17:40	
PDI-1014SG-00-0.78-190923	A9I0771-02		09/25/19 17:40	
PDI-015SG-00-0.87-190924	A9I0771-03		09/25/19 17:40	
PDI-022SG-00-01-190924	A9I0771-04		09/25/19 17:40	
PDI-101SG-00-01-190923	A9I0771-05		09/25/19 17:40	
PDI-102SG-00-01-190923	A9I0771-06		09/25/19 17:40	

Note: Client samples are listed only if they are included in this report.

Duplicates and Matrix Spike/Duplicates QC Samples are only listed if sourced from a sample included in this report.

DUPLICATES

PDI-102SG-00-01-190923

SM 2540 G

Laboratory: Apex Laboratories

SDG: A9I0771

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 2a. Surface Sedin

Matrix: Sediment

Laboratory ID: 9091299-DUP1

Batch: 9091299

Lab Source ID: A9I0771-06

Preparation: Total Solids (SM2540G/PSEP)

Initial/Final: 1 N/A / 1 N/A

Source Sample Name: PDI-102SG-00-01-190923

% Solids: 45.03

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (% by Weight)	C	DUPLICATE CONCENTRATION (% by Weight)	C	RPD %	Q	METHOD
Total Solids	10	45.0		44.5		1		SM 2540 G

* Values outside of QC limits

HOLDING TIME SUMMARY

SM 2540 G

Laboratory: Apex Laboratories

SDG: A9I0771

Client: Anchor QEA, LLC

Project: Gasco PreRD DG 2019 - 2a. Surface Sediments

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
PDI-014SG-00-0.78-190923	09/23/19 17:05	09/25/19 10:36	09/25/19 17:40	2.02	180.00	09/27/19 18:00	2.01		
PDI-1014SG-00-0.78-190923	09/23/19 17:10	09/25/19 10:36	09/25/19 17:40	2.02	180.00	09/27/19 18:00	2.01		
PDI-015SG-00-0.87-190924	09/24/19 11:19	09/25/19 10:36	09/25/19 17:40	1.26	180.00	09/27/19 18:00	2.01		
PDI-022SG-00-01-190924	09/24/19 13:00	09/25/19 10:36	09/25/19 17:40	1.19	180.00	09/27/19 18:00	2.01		
PDI-101SG-00-01-190923	09/23/19 13:35	09/25/19 10:36	09/25/19 17:40	2.17	180.00	09/27/19 18:00	2.01		
PDI-102SG-00-01-190923	09/23/19 15:05	09/25/19 10:36	09/25/19 17:40	2.11	180.00	09/27/19 18:00	2.01		

Raw Data

**Organochloride Pesticides by EPA 8081B
Benchsheet & Analysis Sequence Data**

Batch 9091407

Sequence 9J03031 (A9I0771-02RE1,03RE1,04RE1,06RE1)



Apex Laboratories
PREPARATION BENCH SHEET

BATCH #: 9091407 (Sediment)

Prep Method: EPA 3546/3640A (GPC)

#	Lab Number	Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH	
												<2	>11
	9091407-BLK1	QC	09/26/19 07:17	11	10				100				
	9091407-BS1	QC	09/26/19 07:17	10	10	A19I221		100	100				
	A9I0771-01RE1	B 8081B 2,4+4,4-DDx Only (+Add)	09/26/19 07:17	10.08	10				100	PDI-014SG-00-0-78-190923	From 9091305 by gwh on 09/27/19		
	9091407-DUP1	QC	09/26/19 07:17	10.09	10		A9I0771-01RE1		100				
	A9I0771-01RE2	B 8081B 2,4+4,4-DDx Only (+Add)	09/26/19 07:17	10.08	10				100	PDI-014SG-00-0-78-190923	Added 10/4/2019 By MJB		
	9091407-DUP2	QC	09/26/19 07:17	10.09	10		A9I0771-01RE2		100		Added 10/8/2019 by MJB		
	A9I0771-02RE1	B 8081B 2,4+4,4-DDx Only (+Add)	09/26/19 07:17	10.18	10				100	PDI-1014SG-00-0-0.78-190923	From 9091305 by gwh on 09/27/19		
	A9I0771-03RE1	B 8081B 2,4+4,4-DDx Only (+Add)	09/26/19 07:17	10.08	10				100	PDI-015SG-00-0-87-190924	From 9091305 by gwh on 09/27/19		
	A9I0771-04RE1	B 8081B 2,4+4,4-DDx Only (+Add)	09/26/19 07:17	10.4	10				100	PDI-022SG-00-0-1-190924	From 9091305 by gwh on 09/27/19		
	A9I0771-05RE1	B 8081B 2,4+4,4-DDx Only (+Add)	09/26/19 07:17	10.16	10				100	PDI-101SG-00-0-1-190923	From 9091305 by gwh on 09/27/19		
	A9I0771-05RE2	B 8081B 2,4+4,4-DDx Only (+Add)	09/26/19 07:17	10.16	10				100	PDI-101SG-00-0-1-190923	Added 10/4/2019 By MJB		
	A9I0771-06RE1	C 8081B 2,4+4,4-DDx Only (+Add)	09/26/19 07:17	10.14	10				100	PDI-102SG-00-0-1-190923	MS/MSD this sample		
	9091407-MS1	QC	09/26/19 07:17	10.15	10	A19I221	A9I0771-06RE1	100	100				
	9091407-MSD1	QC	09/26/19 07:17	10.1	10	A19I221	A9I0771-06RE1	100	100				

Standards/Reagents

Reagent(s)			Analyte Spike(s)			Surrogate(s)		
Std ID	Exp. Date	Description	Std ID	Exp. Date	Description	Std ID	Exp. Date	Description
A19H411	08/31/21	n-Hexane Lot# 192712	A19I221	03/18/20	2,4 + 4,4 DDx Pesticide Matrix Spike	A19I298	03/19/20	8082 PCB Surrogate Spike
A19I262	08/30/22	DCM CHEM PROD. 186806						

From 9091305 on 9/27/2019 by gwh

Prepared By: _____ Date: _____

Reviewed By: _____ Date: 10/8/19



Apex Laboratories
PREPARATION BENCH SHEET

BATCH #: 9091407 (Sediment)

Prep Method: EPA 3546/3640A (GPC)

initial | final

#	Lab Number	Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction	Comments	pH		
													<2	5-8	>11
	9091407-BLK1	QC	09/26/19 07:17	11	5.10				100		1mL	2mL			
	9091407-BS1	QC	09/26/19 07:17	10	5.10	A19I221		100	100		1mL	2mL			
	A9I0771-01RE1	B 8081B 2,4+4,4-DDx Only (+Add)	09/26/19 07:17	10.08	5.10				100	PDI-014SG-00-0-78-190923	From 9091305 by gwh on 09/27/19	1mL	2mL		
	9091407-DUP1	QC	09/26/19 07:17	10.09	5.10		A9I0771-01RE1		100			1mL	2mL		
	A9I0771-02RE1	B 8081B 2,4+4,4-DDx Only (+Add)	09/26/19 07:17	10.18	5.10				100	PDI-1014SG-00-0-78-190923	From 9091305 by gwh on 09/27/19	1mL	2mL		
	A9I0771-03RE1	B 8081B 2,4+4,4-DDx Only (+Add)	09/26/19 07:17	10.08	5.10				100	PDI-015SG-00-0-87-190924	From 9091305 by gwh on 09/27/19	1mL	2mL		
	A9I0771-04RE1	B 8081B 2,4+4,4-DDx Only (+Add)	09/26/19 07:17	10.4	5.10				100	PDI-022SG-00-0-1-190924	From 9091305 by gwh on 09/27/19	1mL	2mL		
	A9I0771-05RE1	B 8081B 2,4+4,4-DDx Only (+Add)	09/26/19 07:17	10.16	5.10				100	PDI-101SG-00-0-1-190923	From 9091305 by gwh on 09/27/19	1mL	2mL		
	A9I0771-06RE1	C 8081B 2,4+4,4-DDx Only (+Add)	09/26/19 07:17	10.14	5.10				100	PDI-102SG-00-0-1-190923	MS/MSD this sample	1mL	2mL		
	9091407-MS1	QC	09/26/19 07:17	10.15	5.10	A19I221	A9I0771-06RE1	100	100			1mL	2mL		
	9091407-MSD1	QC	09/26/19 07:17	10.1	5.10	A19I221	A9I0771-06RE1	100	100			1mL	2mL		

Standards/Reagents

Reagent(s)			Analyte Spike(s)			Surrogate(s)		
Std ID	Exp. Date	Description	Std ID	Exp. Date	Description	Std ID	Exp. Date	Description
A19H411	08/31/21	n-Hexane Lot# 192712	A19I221	03/18/20	2,4 + 4,4 DDx Pesticide Matrix Spike	A19I298	03/19/20	8082 PCB Surrogate Spike
A19I262	08/30/22	DCM CHEM PROD. 186806						

From 9091305 on 9/27/2019 by gwh

gwh
Prepared By: _____ Date: 9/27/19

gwh
Reviewed By: _____ Date: 9/27/19



Apex Laboratories
PREPARATION BENCH SHEET

BATCH #: **9091305 (Sediment)**

Prep Method: EPA 3546

#	Lab Number	Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH	
												<2	>11
1	9091305-BLK1	QC	09/26/19 07:17	10.11	5				100				
2	9091305-BS1	QC	09/26/19 07:17	10	5	A19I221		100	100				
3	A9I0771-01	B 8081B 2,4+4,4-DDx Only (+Add)	09/26/19 07:17	10 10.08	5				100	PDI-014SG-00-0.78-190923	mud, odor		
4	9091305-DUP1	QC	09/26/19 07:17	10 10.09	5		A9I0771-01		100		mud, odor		
5	A9I0771-02	B 8081B 2,4+4,4-DDx Only (+Add)	09/26/19 07:17	10 10.18	5				100	PDI-1014SG-00-0.78-190923	mud, odor		
6	A9I0771-03	B 8081B 2,4+4,4-DDx Only (+Add)	09/26/19 07:17	10 10.08	5				100	PDI-015SG-00-0.87-190924	mud, odor		
7	A9I0771-04	B 8081B 2,4+4,4-DDx Only (+Add)	09/26/19 07:17	10 10.40	5				100	PDI-022SG-00-0.1-190924	mud, odor		
8	A9I0771-05	B 8081B 2,4+4,4-DDx Only (+Add)	09/26/19 07:17	10 10.16	5				100	PDI-101SG-00-0.1-190923	mud, odor		
9	A9I0771-06	C 8081B 2,4+4,4-DDx Only (+Add)	09/26/19 07:17	10 10.14	5				100	PDI-102SG-00-0.1-190923	MS/MSD this sample		
10	9091305-MS1	QC	09/26/19 07:17	10 10.15	5	A19I221	A9I0771-06	100	100		mud, odor		
11	9091305-MSD1	QC	09/26/19 07:17	10 10.10	5	A19I221	A9I0771-06	100	100		mud, odor		

Standards/Reagents

Reagent(s)			Analyte Spike(s)			Surrogate(s)		
Std ID	Exp. Date	Description	Std ID	Exp. Date	Description	Std ID	Exp. Date	Description
A13L219	11/30/23	Extractions Balance	A19I221	03/18/20	2,4 + 4,4 DDx Pesticide Matrix Spike	A19I298	03/19/20	8082 PCB Surrogate Spike
A18K311	12/31/20	Glass Wool	JAG			JAG		
A19H436	07/31/21	Sodium Sulfate Lot # 190116						
A19I262	08/30/22	DCM CHEM PROD. 186806						

Method 3546 digestion time and temperture achieved.

Initial: JAG

Witness: JOS 9-26-19

Prepared By: JAG Date: 9/26/19

Reviewed By: SCG Date: 9/26/2019



ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence: **9J03031**

Instrument: **DUALECD5**

Date: **10/03/19 10:45**

Calibration: **A9H2608**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	9J03031-BKD1	Sediment	QC	QC				A19G138
2	9J03031-CCV1	Sediment	QC	QC				A19H383
3	9J03031-CCV2	Sediment	QC	QC				A19E154
4	9J03031-CCB1	Sediment	QC	QC				A19I233
5	9091407-BLK1	Sediment	QC	QC		9091407		
6	9091407-BS1	Sediment	QC	QC		9091407		
7	A9I0771-01RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	10/08/19	9091407		
8	9J03031-IBL1	Sediment	QC	QC				
9	9J03031-IBL2	Sediment	QC	QC				
10	9091407-DUP1	Sediment	QC	QC		9091407		
11	9J03031-IBL3	Sediment	QC	QC				
12	9J03031-IBL4	Sediment	QC	QC				
13	9J03031-IBL5	Sediment	QC	QC				
14	A9I0771-02RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	10/08/19	9091407		
15	9J03031-IBL6	Sediment	QC	QC				
16	9J03031-IBL7	Sediment	QC	QC				
17	A9I0771-03RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	10/08/19	9091407		
18	9J03031-IBL8	Sediment	QC	QC				
19	9J03031-IBL9	Sediment	QC	QC				
20	9J03031-CCV3	Sediment	QC	QC				A19H384
21	9J03031-CCV4	Sediment	QC	QC				A19E155
22	9J03031-CCB2	Sediment	QC	QC				A19I233
23	A9I0771-04RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	10/08/19	9091407		
24	9J03031-IBLA	Sediment	QC	QC				
25	9J03031-IBLB	Sediment	QC	QC				
26	A9I0771-05RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	10/08/19	9091407		
27	9J03031-IBLC	Sediment	QC	QC				
28	9J03031-IBLD	Sediment	QC	QC				
29	A9I0771-06RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	10/08/19	9091407		
30	9J03031-IBLE	Sediment	QC	QC				
31	9J03031-IBLF	Sediment	QC	QC				
32	9091407-MS1	Sediment	QC	QC		9091407		
33	9J03031-IBLG	Sediment	QC	QC				
34	9J03031-IBLH	Sediment	QC	QC				
35	9091407-MSD1	Sediment	QC	QC		9091407		
36	9J03031-IBLI	Sediment	QC	QC				
37	9J03031-IBLJ	Sediment	QC	QC				
38	9J03031-CCV5	Sediment	QC	QC				A19H383
39	9J03031-CCV6	Sediment	QC	QC				A19E154
40	9J03031-CCB3	Sediment	QC	QC				A19I233
41	9J03031-IBLK	Sediment	QC	QC				

Data Entered By: NJB 10/4/19

Comments:

Control Limits updated to project specification

Data Reviewed By: [Signature] 10/7/19

[Signature]

Data Path : C:\msdchem\4\data\2019-10\9J03031\
 Data File : ECD5-10031903.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 03 Oct 2019 11:39
 Operator : MJB
 Sample : 9J03031-BKD1
 Misc : A19G138
 ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Oct 03 17:12:51 2019
 Quant Method : C:\msdchem\4\methods\PestBreakdownCHK_190823RT3.M
 Quant Title : Pesticides
 QLast Update : Thu Aug 21 11:53:22 2014
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Compound	R.T.	Response	Conc	Units

Target Compounds				
1) 4,4'-DDE	7.476	1393622	NoCal	ng/mL
2) Endrin	7.840	73935179	NoCal	ng/mL
3) 4,4'-DDD	7.895	11373984	NoCal	ng/mL
4) 4,4'-DDT	8.089	111931242	NoCal	ng/mL
5) Endrin Aldehyde	8.286	3469897	NoCal	ng/mL
6) Endrin Ketone	8.778	7740607	NoCal	ng/mL
8) 4,4'-DDE [2C]	8.234	1911302	NoCal	ng/mL
9) Endrin [2C]	8.599	109444012	NoCal	ng/mL
10) 4,4'-DDD [2C]	8.647	15940837	NoCal	ng/mL
11) Endrin Aldehyde [2C]	8.983	4345344	NoCal	ng/mL
12) 4,4'-DDT [2C]	8.872	172246137	NoCal	ng/mL
13) Endrin Ketone [2C]	9.568	10265923	NoCal	ng/mL

(f)=RT Delta > 1/2 Window

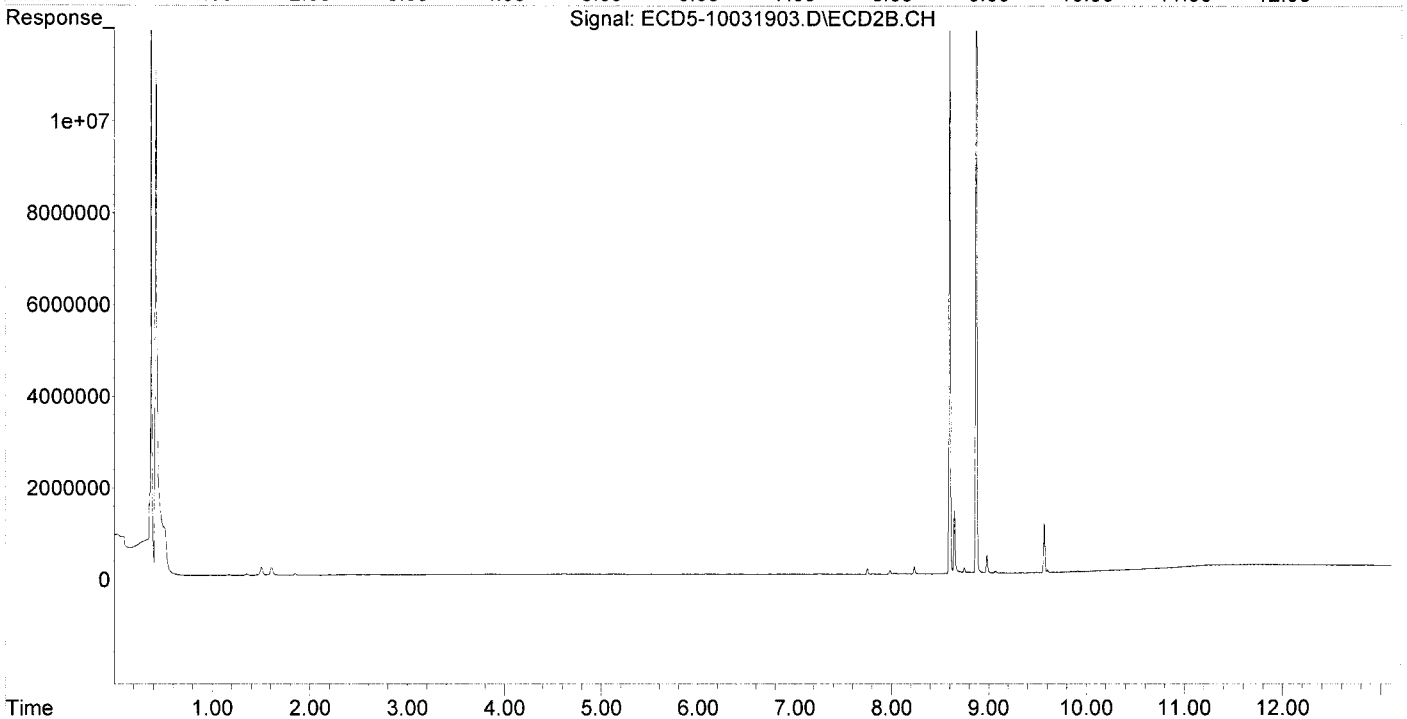
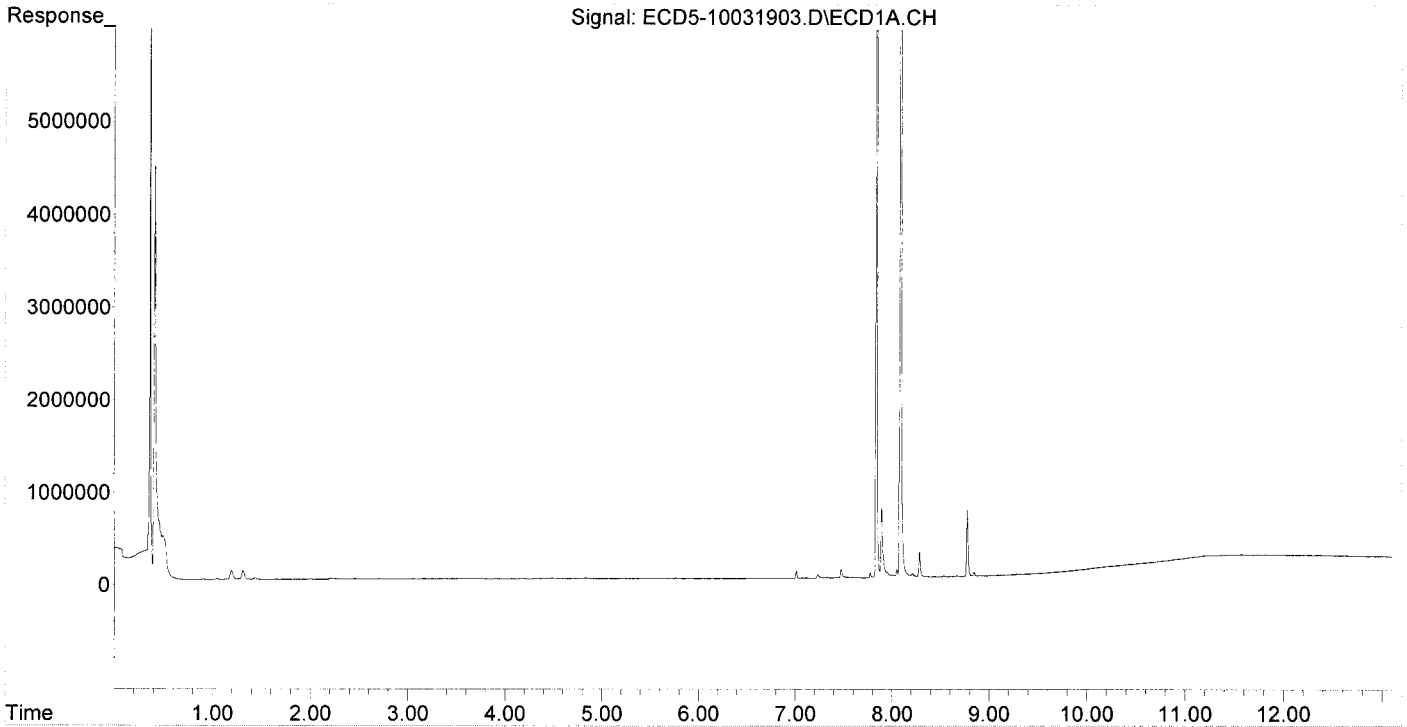
(m)=manual int.

MB
10/31/19

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\4\data\2019-10\9J03031\
Data File : ECD5-10031903.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Oct 2019 11:39
Operator : MJB
Sample : 9J03031-BKD1
Misc : A19G138
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 03 17:12:51 2019
Quant Method : C:\msdchem\4\methods\PestBreakdownCHK_190823RT3.M
Quant Title : Pesticides
QLast Update : Thu Aug 21 11:53:22 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : R:\data\2019-10\9J03031\
 Data File : ECD5-10031904.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 03 Oct 2019 12:03
 Operator : MJB
 Sample : 9J03031-CCV1
 Misc : A19H383, AB 50 ppb
 ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

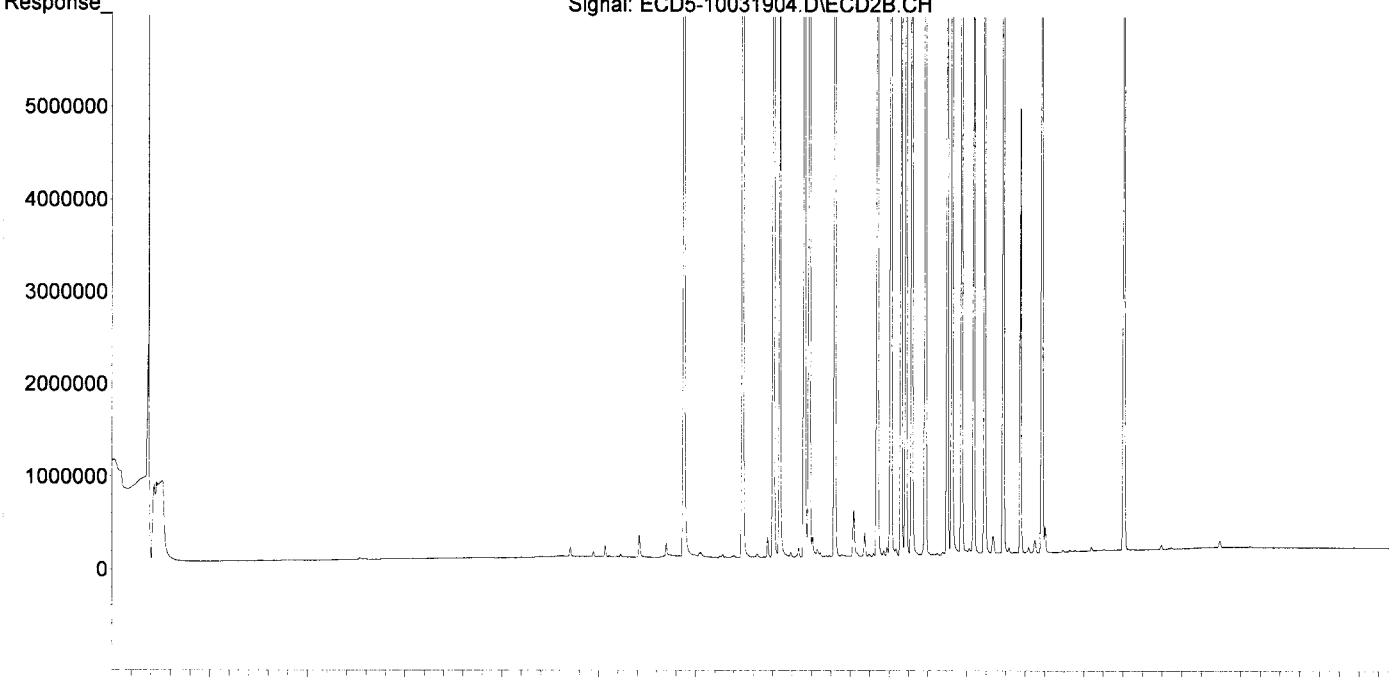
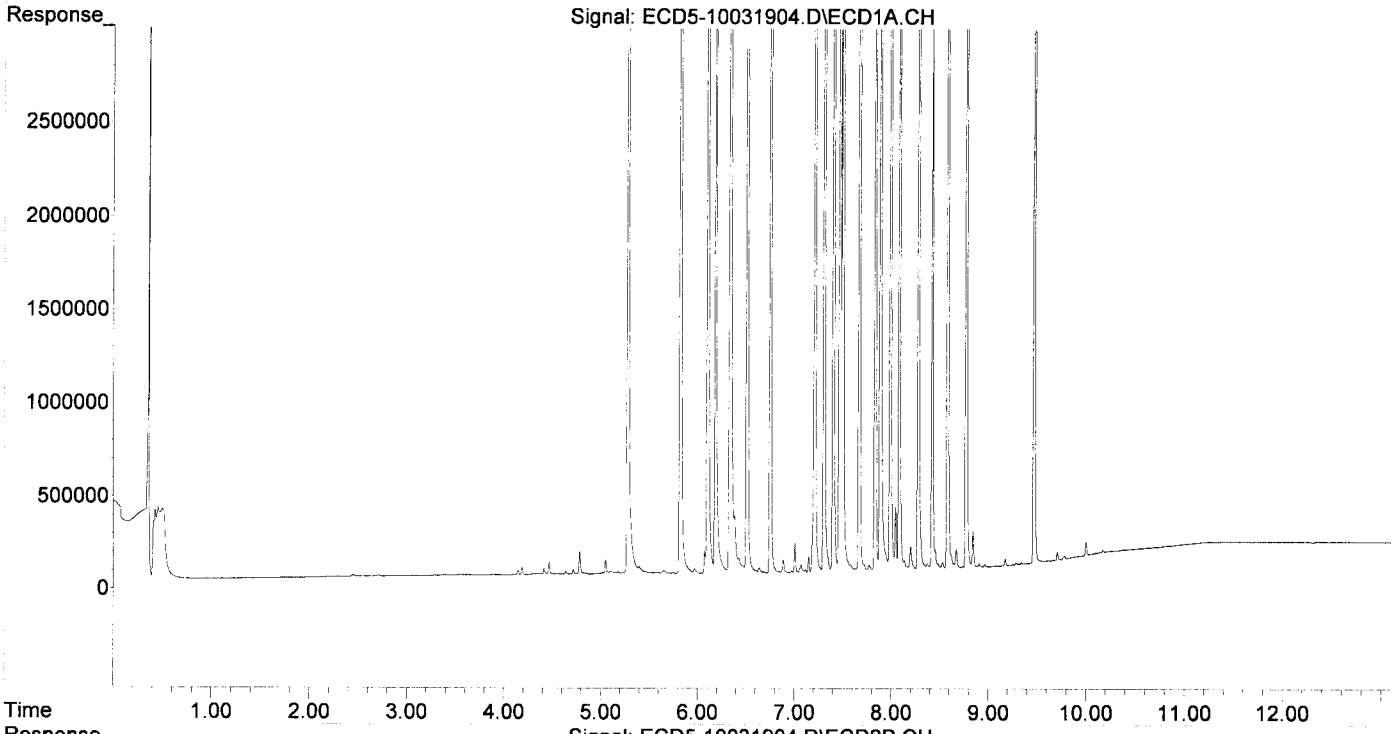
Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Oct 03 17:37:22 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.282	5.874	8370046	15688198	50.429	53.476
22) S DCBP (S)	9.472	10.404	6803794	9227019	48.220	51.329
Target Compounds						
2) a-BHC	5.822	6.483	11369396	22175597	49.577	54.042
3) g-BHC	6.106	6.800	9591847	18526642	47.537	51.938
4) b-BHC	6.187	6.867	3515100	7558663	38.891	47.759
5) Heptachlor	6.515	7.172	9008767	15652322	49.691	51.155
6) d-BHC	6.337	7.120	7721750	17406897	39.258	49.358
7) Aldrin	6.754	7.436	10360285	17910301	52.472	54.374
8) Heptachlo...	7.214	7.874	9328347	15081830	50.648	50.131
9) trans-Chl...	7.309	8.013	9466717	15908212	51.201	50.772
10) cis-Chlor...	7.405	8.121	9359791	15251462	51.407	52.366
11) Endosulfa...	7.502	8.170	8757688	14249337	51.461	51.783
12) 4,4'-DDE	7.470	8.230	8375534	15517094	44.425m	49.946
13) Dieldrin	7.674	8.370	10031185	16276241	52.251	53.514
14) Endrin	7.837	8.596	7807172	12070868	53.100	53.452
15) 4,4'-DDD	7.890	8.644	6733049	12593967	42.847	49.154
16) Endosulfa...	7.994	8.743	6914537	12138178	48.148	52.636
17) 4,4'-DDT	8.086	8.869	5624572	9382008	47.044	49.902
18) Endrin Al...	8.283	8.980	6393520	10083196	52.053	51.222
19) Endosulfa...	8.583	9.171	7512734	12551108	48.476	50.388
20) Methoxychlor	8.425	9.348	2864182	4817523	48.898	53.374
21) Endrin Ke...	8.776	9.566	8232483	13112338	49.368	50.958
23) Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
24) Hexachlor...	5.657	6.373f	15975	12495	0.091	0.040 #
25) Oxychlordan	7.151	7.790	83446	28846	0.507	0.105 #
26) 2,4'-DDE	7.214	8.013	9328347	15908212	72.729	74.990
27) trans-Non...	7.405	8.068	9359791	72977	51.957	0.242 #
28) 2,4'-DDD	0.000	8.370	0	16276241	N.D.	86.180 #
29) 2,4'-DDT	7.774	8.596	26889	12070868	0.245	67.685 #
30) cis-Nonac...	7.890f	8.644	6733049	12593967	32.430	37.544
31) Mirex	8.532	9.566	33245	13112338	0.265	70.469 #
32) Chlordane...	0.000	8.068	0	72977	N.D.	2.017 #
33) Chlordane...	0.000	8.170	0	14249337	N.D.	469.283 #
34) Chlordane...	7.994	8.821	6914537	67799	1196.055	7.562 #
35) Chlordane...	3.390	0.000	3869	0	NoCal	N.D.
36) Toxaphene...	7.405f	8.370f	9359791	16276241	10450.307	6202.226 #
37) Toxaphene...	0.000	8.743	0	12138178	N.D.	3688.267 #
38) Toxaphene...	0.000	8.743f	0	12138178	N.D.	2394.913 #
39) Toxaphene...	8.283	8.869f	6393520	9382008	1973.216	1123.616 #
40) Toxaphene...	8.532f	0.000	33245	0	13.869	N.D. #
41) Toxaphene...	8.583	9.432f	7512734	63970	2374.004	13.467 #
42) Toxaphene...	3.390	0.000	3869	0	NoCal	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Data Path : R:\data\2019-10\9J03031\
Data File : ECD5-10031904.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Oct 2019 12:03
Operator : MJB
Sample : 9J03031-CCV1
Misc : A19H383, AB 50 ppb
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

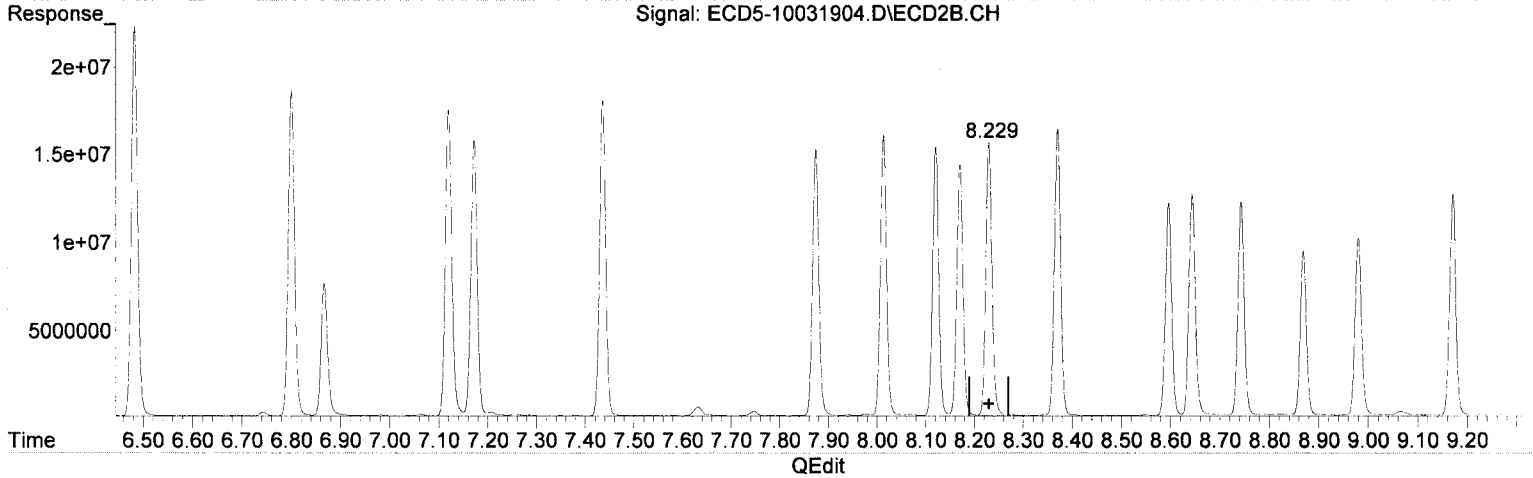
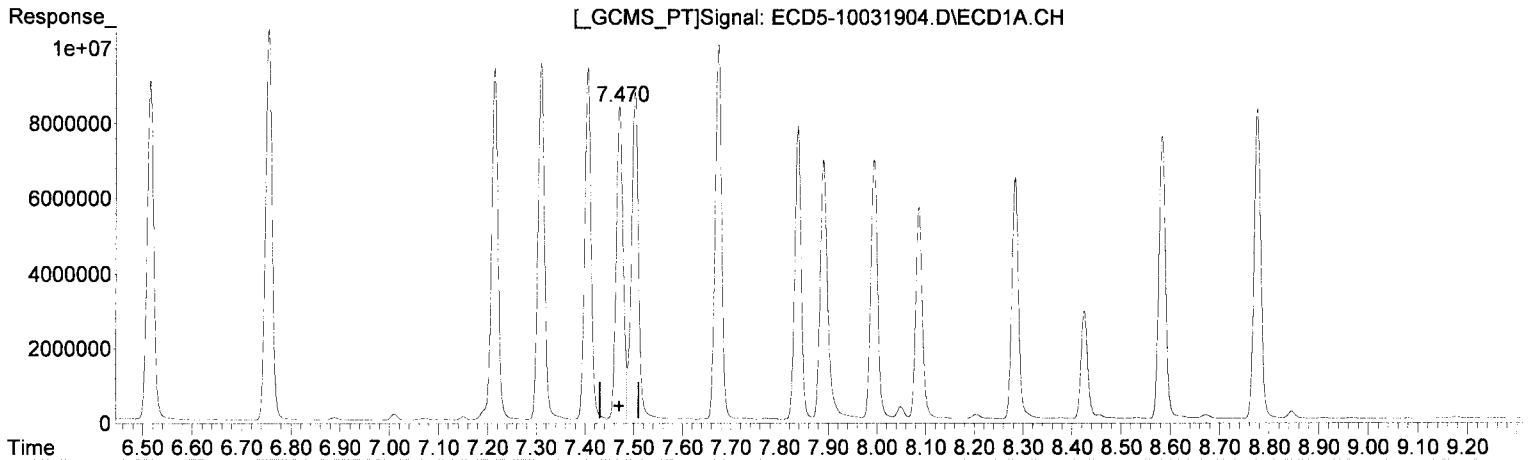
Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 03 17:37:22 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J03031\
Data File : ECD5-10031904.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Oct 2019 12:03
Operator : MJB
Sample : 9J03031-CCV1
Misc : A19H383, AB 50 ppb
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 03 17:18:46 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(12) 4,4'-DDE
7.470min 44.425 ng/mL(m)
response 8375534

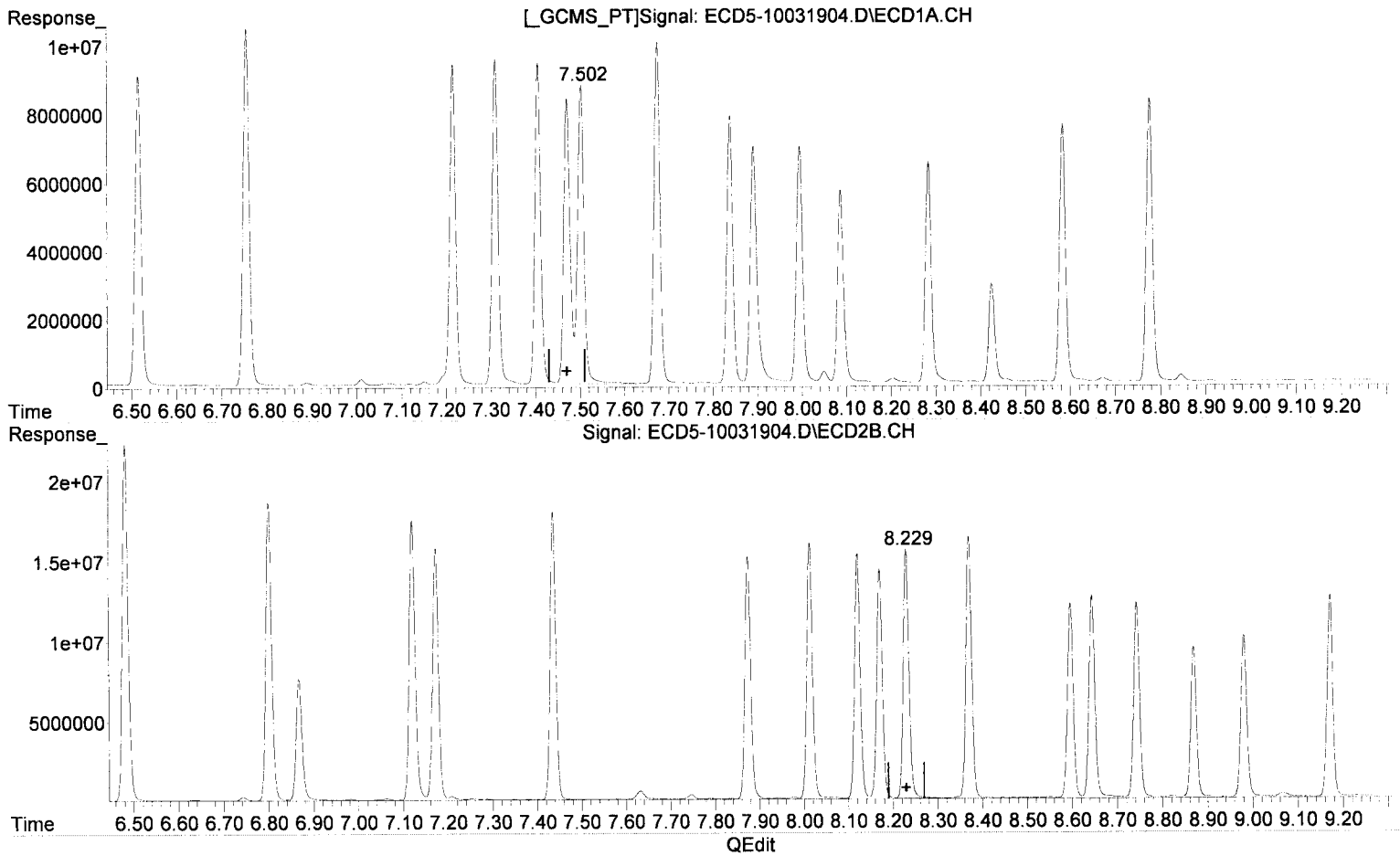
MB
10/3/19

(12) 4,4'-DDE #2
8.230min 49.946 ng/mL
response 15517094

Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J03031\
Data File : ECD5-10031904.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Oct 2019 12:03
Operator : MJB
Sample : 9J03031-CCV1
Misc : A19H383, AB 50 ppb
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 03 17:18:46 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(12) 4,4'-DDE
7.502min 46.463 ng/mL
response 8757688

MJB
10/3/19

(12) 4,4'-DDE #2
8.230min 49.946 ng/mL
response 15517094

Data Path : R:\data\2019-10\9J03031\
 Data File : ECD5-10031904.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 03 Oct 2019 12:03
 Operator : MJB
 Sample : 9J03031-CCV1
 Misc : A19H383, AB 50 ppb
 ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Oct 03 17:18:46 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB
10/3/19

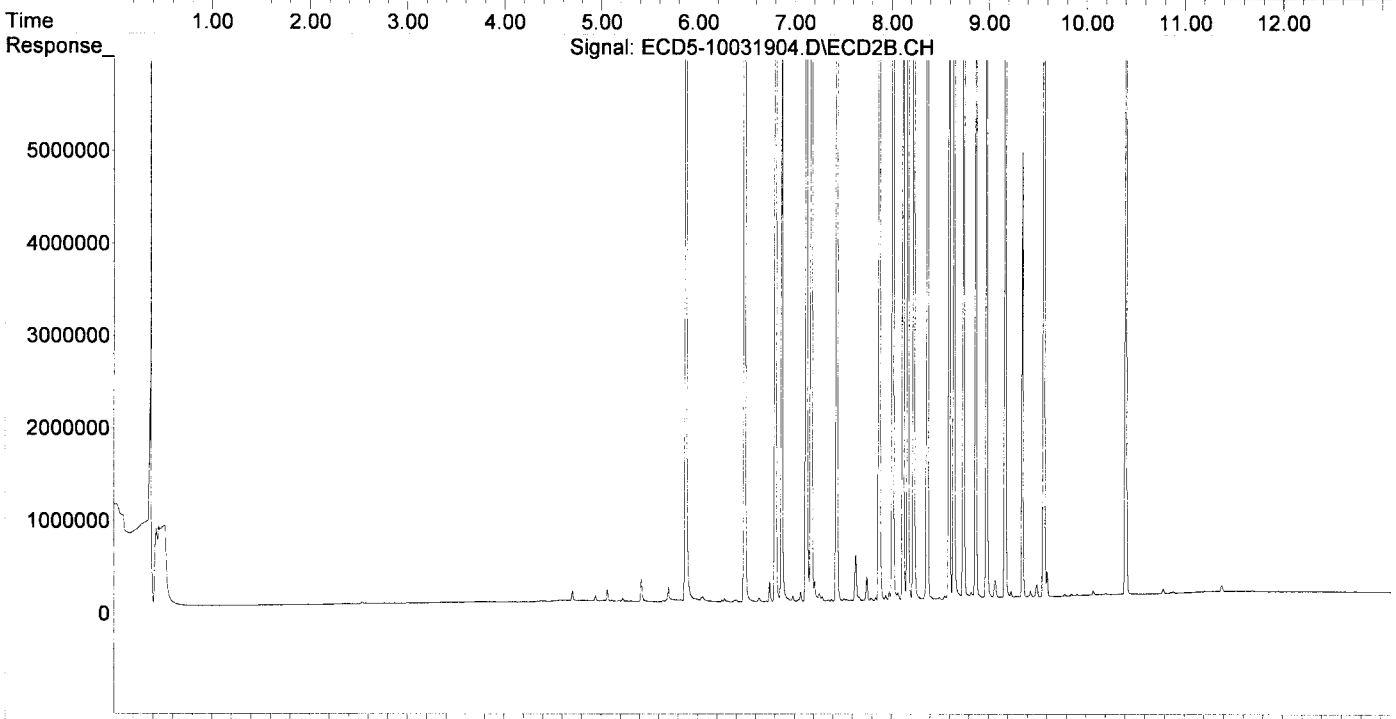
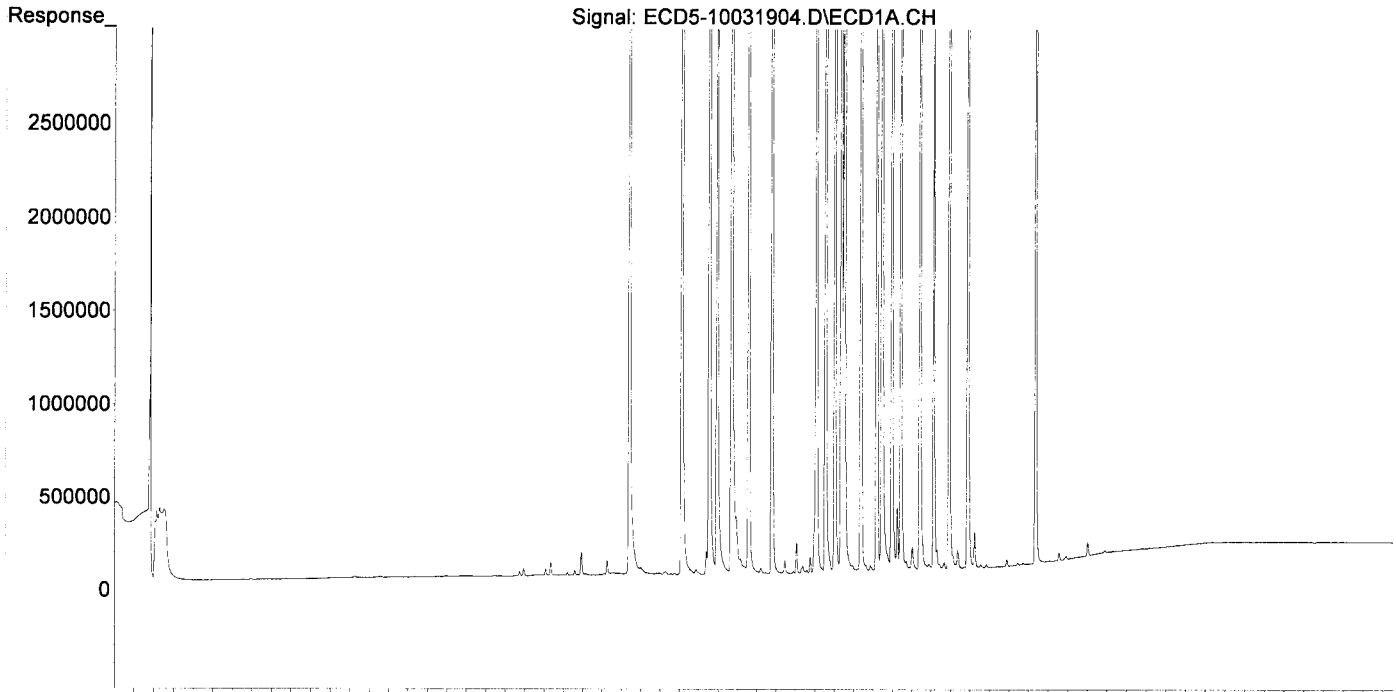
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.282	5.874	8370046	15688198	50.429	53.476
22) S DCBP (S)	9.472	10.404	6803794	9227019	48.220	51.329
Target Compounds						
2) a-BHC	5.822	6.483	11369396	22175597	49.577	54.042
3) g-BHC	6.106	6.800	9591847	18526642	47.537	51.938
4) b-BHC	6.187	6.867	3515100	7558663	38.891	47.759
5) Heptachlor	6.515	7.172	9008767	15652322	49.691	51.155
6) d-BHC	6.337	7.120	7721750	17406897	39.258	49.358
7) Aldrin	6.754	7.436	10360285	17910301	52.472	54.374
8) Heptachlo...	7.214	7.874	9328347	15081830	50.648	50.131
9) trans-Chl...	7.309	8.013	9466717	15908212	51.201	50.772
10) cis-Chlor...	7.405	8.121	9359791	15251462	51.407	52.366
11) Endosulfa...	7.502	8.170	8757688	14249337	51.461	51.783
12) 4,4'-DDE	7.502f	8.230	8757688	15517094	46.453	49.946
13) Dieldrin	7.674	8.370	10031185	16276241	52.251	53.514
14) Endrin	7.837	8.596	7807172	12070868	53.100	53.452
15) 4,4'-DDD	7.890	8.644	6733049	12593967	42.847	49.154
16) Endosulfa...	7.994	8.743	6914537	12138178	48.148	52.636
17) 4,4'-DDT	8.086	8.869	5624572	9382008	47.044	49.902
18) Endrin Al...	8.283	8.980	6393520	10083196	52.053	51.222
19) Endosulfa...	8.583	9.171	7512734	12551108	48.476	50.388
20) Methoxychlor	8.425	9.348	2864182	4817523	48.898	53.374
21) Endrin Ke...	8.776	9.566	8232483	13112338	49.368	50.958
23) Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
24) Hexachlor...	5.657	6.373f	15975	12495	0.091	0.040 #
25) Oxychlorane	7.151	7.790	83446	28846	0.507	0.105 #
26) 2,4'-DDE	7.214	8.013	9328347	15908212	72.729	74.990
27) trans-Non...	7.405	8.068	9359791	72977	51.957	0.242 #
28) 2,4'-DDD	0.000	8.370	0	16276241	N.D.	86.180 #
29) 2,4'-DDT	7.774	8.596	26889	12070868	0.245	67.685 #
30) cis-Nonac...	7.890f	8.644	6733049	12593967	32.430	37.544
31) Mirex	8.532	9.566	33245	13112338	0.265	70.469 #
32) Chlordane...	0.000	8.068	0	72977	N.D.	2.017 #
33) Chlordane...	0.000	8.170	0	14249337	N.D.	469.283 #
34) Chlordane...	7.994	8.821	6914537	67799	1196.055	7.562 #
35) Chlordane...	3.390	0.000	3869	0	NoCal	N.D.
36) Toxaphene...	7.405f	8.370f	9359791	16276241	10450.307	6202.226 #
37) Toxaphene...	0.000	8.743	0	12138178	N.D.	3688.267 #
38) Toxaphene...	0.000	8.743f	0	12138178	N.D.	2394.913 #
39) Toxaphene...	8.283	8.869f	6393520	9382008	1973.216	1123.616 #
40) Toxaphene...	8.532f	0.000	33245	0	13.869	N.D. #
41) Toxaphene...	8.583	9.432f	7512734	63970	2374.004	13.467 #
42) Toxaphene...	3.390	0.000	3869	0	NoCal	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-10\9J03031\
Data File : ECD5-10031904.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Oct 2019 12:03
Operator : MJB
Sample : 9J03031-CCV1
Misc : A19H383, AB 50 ppb
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 03 17:18:46 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : R:\data\2019-10\9J03031\
 Data File : ECD5-10031905.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 03 Oct 2019 12:28
 Operator : MJB
 Sample : 9J03031-CCV2
 Misc : A19E154, 9-42 50 ppb
 ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Oct 03 17:18:53 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB
10/3/19

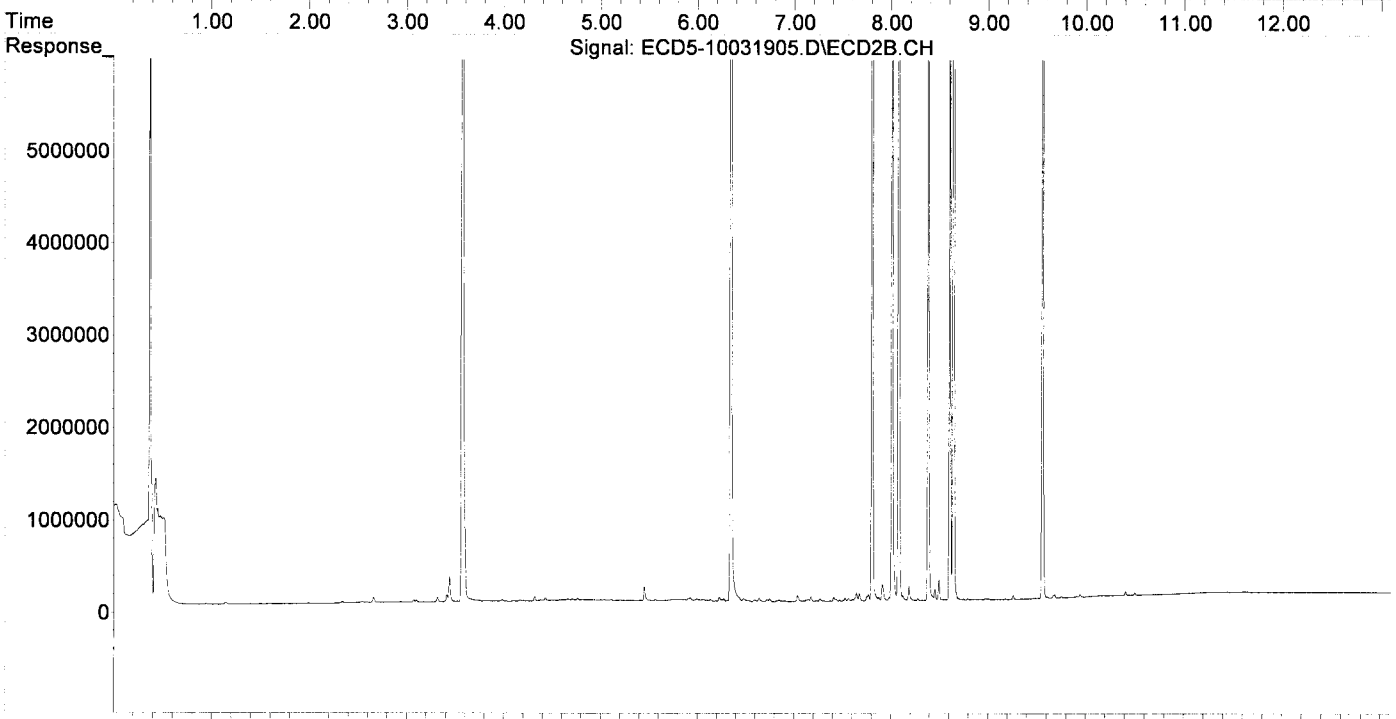
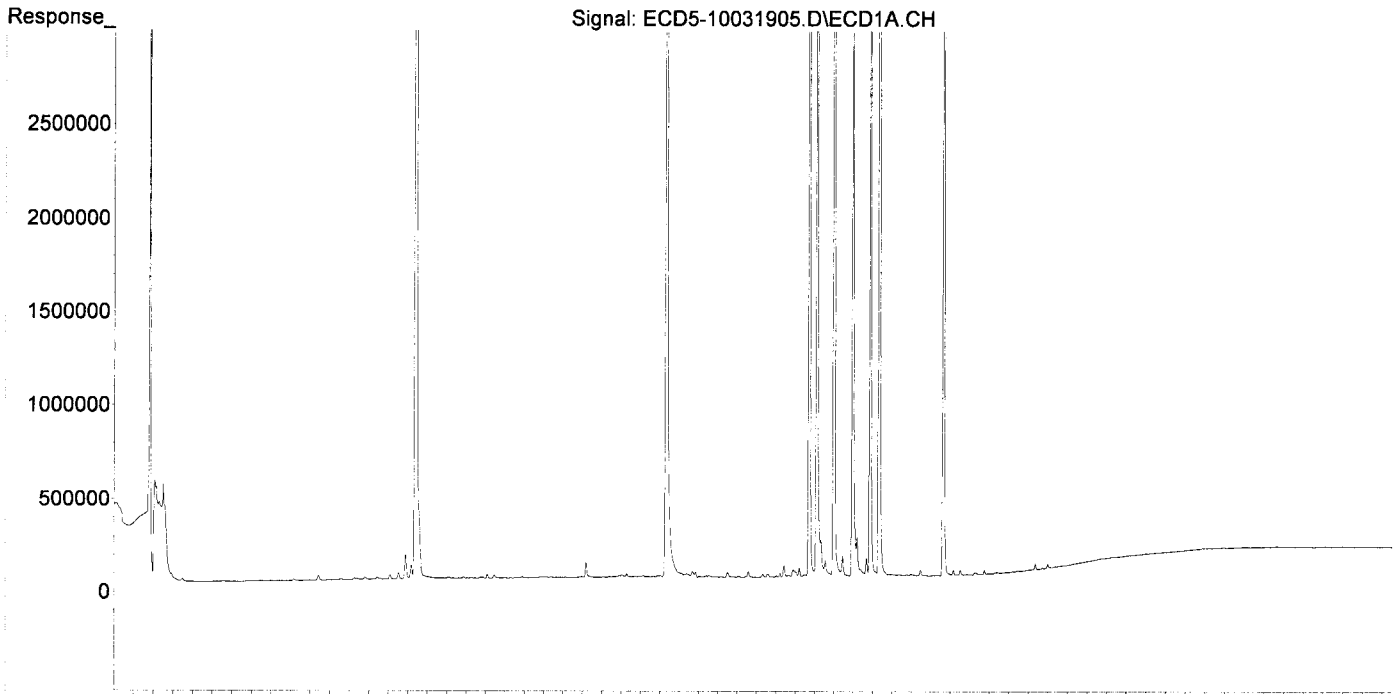
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.257f	5.864	22394	13340	0.135	0.045 #
22) S DCBP (S)	9.473	10.405	35065	36052	0.249	0.201
Target Compounds						
2) a-BHC	0.000	6.478	0	31450	N.D.	0.077 #
3) g-BHC	6.105	6.814	13730	12529	0.068	0.035 #
4) b-BHC	0.000	6.837f	0	16962	N.D.	0.107 #
5) Heptachlor	6.514	7.172	32351	48365	0.178	0.158
6) d-BHC	6.299f	7.146f	27746	20766	0.141	0.059 #
7) Aldrin	6.715f	7.432	18519	20723	0.094	0.063
8) Heptachlo...	7.222	7.874	6171779	40630	33.510	0.135 #
9) trans-Chl...	7.310	8.010	88112	10919718	0.477	34.851 #
10) cis-Chlor...	7.398	8.121	9194064	52812	50.497	0.181 #
11) Endosulfa...	7.489	8.185	108342	155659	0.637	0.566
12) 4,4'-DDE	7.489	0.000	108342	0	0.575	N.D. #
13) Dieldrin	7.638f	8.382	211216	9329111	1.100	30.673 #
14) Endrin	7.867f	8.605	10713186	7644917	72.865	33.853 #
15) 4,4'-DDD	7.867f	8.642	10713186	17059881	68.176	66.585
16) Endosulfa...	0.000	0.000	0	0	N.D.	N.D.
17) 4,4'-DDT	8.068	8.871	8285	5456	0.069	BelowCal #
18) Endrin Al...	8.294	8.978	31781	7112	BelowCal	BelowCal
19) Endosulfa...	0.000	9.175	0	5018	N.D.	0.020 #
20) Methoxychlor	0.000	0.000	0	0	N.D.	N.D.
21) Endrin Ke...	0.000	9.556	0	8821346	N.D.	34.282 #
23) Hexachlor...	3.080	3.570	10280268	22527062	56.257	59.923
24) Hexachlor...	5.664	6.343	7932113	16194157	44.994	51.559
25) Oxychlordane	7.143	7.805	7859277	12972980	47.766	47.363
26) 2,4'-DDE	7.222	8.010	6171779	10919718	48.119	51.475
27) trans-Non...	7.398	8.079	9194064	15276142	51.031	50.644
28) 2,4'-DDD	7.593	8.382	5213312	9329111	45.681	49.396
29) 2,4'-DDT	7.774	8.605	4709621	7644917	42.937	42.867
30) cis-Nonac...	7.867	8.642	10713186	17059881	51.601	50.857
31) Mirex	8.529	9.556	5935995	8821346	47.349	47.408
32) Chlordane...	7.398f	8.079	9194064	15276142	466.950	422.173
33) Chlordane...	7.489f	8.185	108342	155659	4.323	5.126
34) Chlordane...	0.000	8.871f	0	5456	N.D.	0.608 #
35) Chlordane...	3.416f	0.000	4799	0	NoCal	N.D.
36) Toxaphene...	7.398f	8.382	9194064	9329111	10265.272	3554.952 #
37) Toxaphene...	7.736	0.000	95575	0	59.182	N.D. #
38) Toxaphene...	8.068f	8.788	8285	10307	2.460	2.034
39) Toxaphene...	8.294	8.871f	31781	5456	9.809	0.653 #
40) Toxaphene...	8.529f	8.997f	5935995	8889	2476.280	1.907 #
41) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.
42) Toxaphene...	3.416f	3.411f	4799	72919	NoCal	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-10\9J03031\
Data File : ECD5-10031905.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Oct 2019 12:28
Operator : MJB
Sample : 9J03031-CCV2
Misc : A19E154, 9-42 50 ppb
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 03 17:18:53 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : R:\data\2019-10\9J03031\
 Data File : ECD5-10031906.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 03 Oct 2019 13:04
 Operator : MJB
 Sample : 9J03031-CCB1
 Misc : A19I233
 ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Oct 03 17:19:01 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

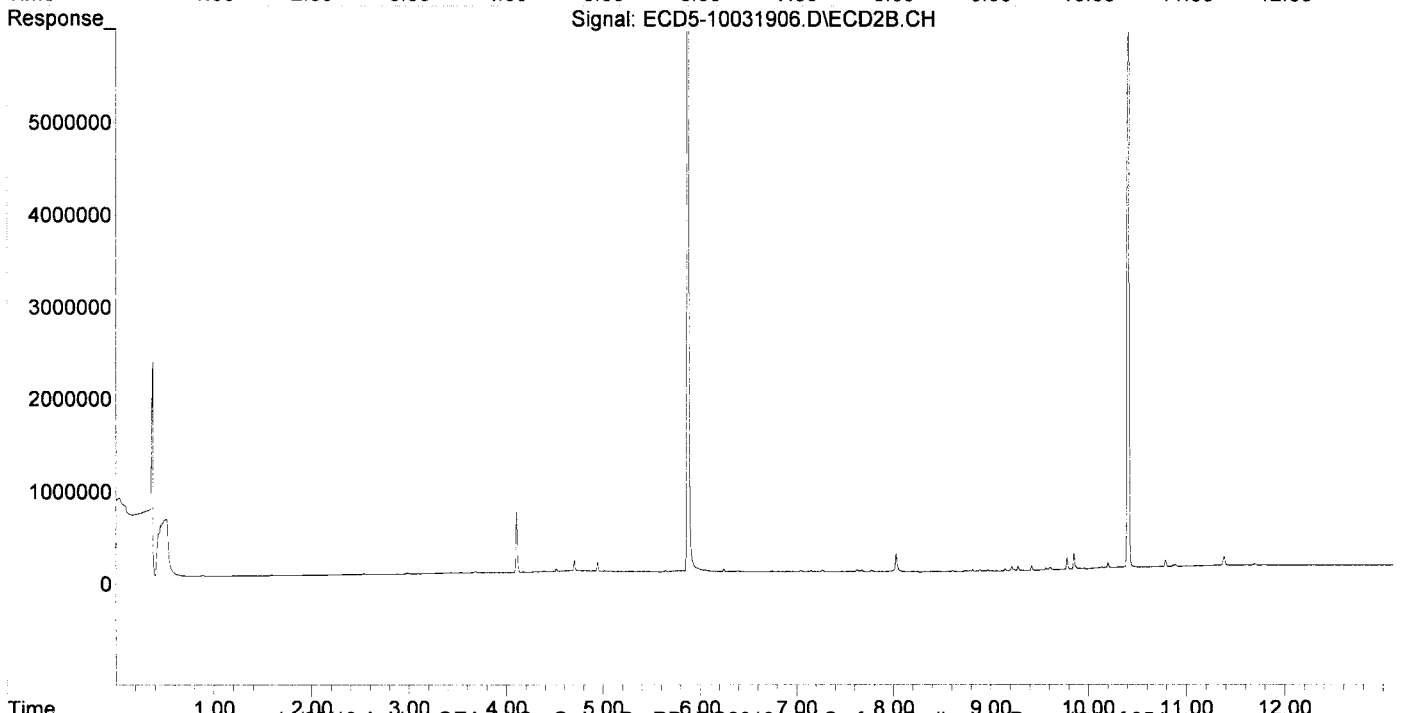
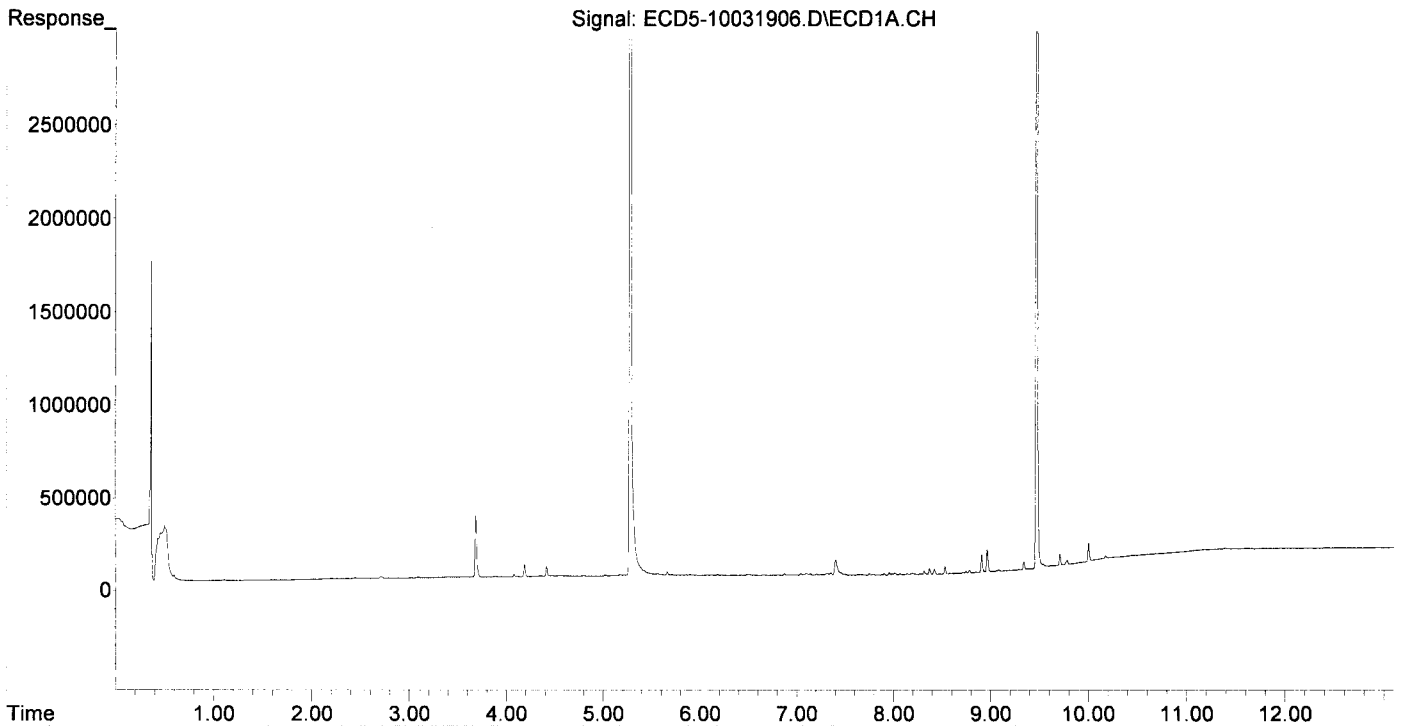
*MJB
10/3/19*

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.280	5.873	13730877	26847143	82.728	91.514
22) S DCBP (S)	9.471	10.404	10436481	14391274	73.966	80.057
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D.	N.D.
3) g-BHC	0.000	6.811	0	8080	N.D.	0.023 #
4) b-BHC	6.180	6.892f	7702	4765	0.085	0.030 #
5) Heptachlor	6.494f	7.146f	7401	15284	0.041	0.050
6) d-BHC	0.000	7.146f	0	15284	N.D.	0.043 #
7) Aldrin	0.000	0.000	0	0	N.D.	N.D.
8) Heptachlo...	7.203	0.000	7724	0	0.042	N.D. #
9) trans-Chl...	7.305	8.025	9291	195314	0.050	0.623 #
10) cis-Chlor...	7.403	0.000	80719	0	0.443	N.D. #
11) Endosulfa...	0.000	0.000	0	0	N.D.	N.D.
12) 4,4'-DDE	0.000	0.000	0	0	N.D.	N.D.
13) Dieldrin	7.658	8.388	4815	9014	0.025	0.030
14) Endrin	0.000	8.607	0	14535	N.D.	0.064 #
15) 4,4'-DDD	7.879	8.607f	3557	14535	0.023	0.057 #
16) Endosulfa...	7.984	8.754	7192	13262	0.050	0.058
17) 4,4'-DDT	8.066	8.887	5754	15953	0.048	0.055
18) Endrin Al...	8.271	8.967	3477	10370	BelowCal	BelowCal
19) Endosulfa...	0.000	9.146f	0	23826	N.D.	0.096 #
20) Methoxychlor	8.421	0.000	25350	0	0.433	N.D. #
21) Endrin Ke...	8.782	9.563	13432	19406	0.081	0.075
23) Hexachlor...	3.091	0.000	5190	0	0.028	N.D. #
24) Hexachlor...	5.662	0.000	20865	0	0.118	N.D. #
25) Oxychlorane	7.141	7.785	9630	10914	0.059	0.040
26) 2,4'-DDE	7.203	8.025	7724	195314	0.060	0.921 #
27) trans-Non...	7.403	0.000	80719	0	0.134	N.D. #
28) 2,4'-DDD	0.000	8.388	0	9014	N.D.	0.048 #
29) 2,4'-DDT	7.792	8.607	5003	14535	0.046	0.082 #
30) cis-Nonac...	7.879	8.607f	3557	14535	0.017	0.043 #
31) Mirex	8.530	9.563	37231	19406	0.297	0.104 #
32) Chlordane...	7.352	8.025f	13424	195314	0.682	5.398 #
33) Chlordane...	0.000	0.000	0	0	N.D.	N.D.
34) Chlordane...	8.012	8.813	10420	19329	1.803	2.156
35) Chlordane...	3.392	0.000	2202	0	NoCal	N.D.
36) Toxaphene...	7.403f	8.388	80719	9014	90.124	3.435 #
37) Toxaphene...	7.750f	8.754	9829	13262	6.087	4.030
38) Toxaphene...	8.012f	8.786	10420	11416	3.094	2.253
39) Toxaphene...	8.271	8.813f	3477	19329	1.073	2.315 #
40) Toxaphene...	8.530f	8.996f	37231	6171	15.531	1.324 #
41) Toxaphene...	0.000	9.417	0	51135	N.D.	10.765 #
42) Toxaphene...	3.392	0.000	2202	0	NoCal	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Data Path : R:\data\2019-10\9J03031\
Data File : ECD5-10031906.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Oct 2019 13:04
Operator : MJB
Sample : 9J03031-CCB1
Misc : A19I233
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 03 17:19:01 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-10\9J03031\
 Data File : ECD5-10031907.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 03 Oct 2019 13:28
 Operator : MJB
 Sample : 9091407-BLK1
 Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
 ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Oct 03 17:40:30 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB
10/3/19

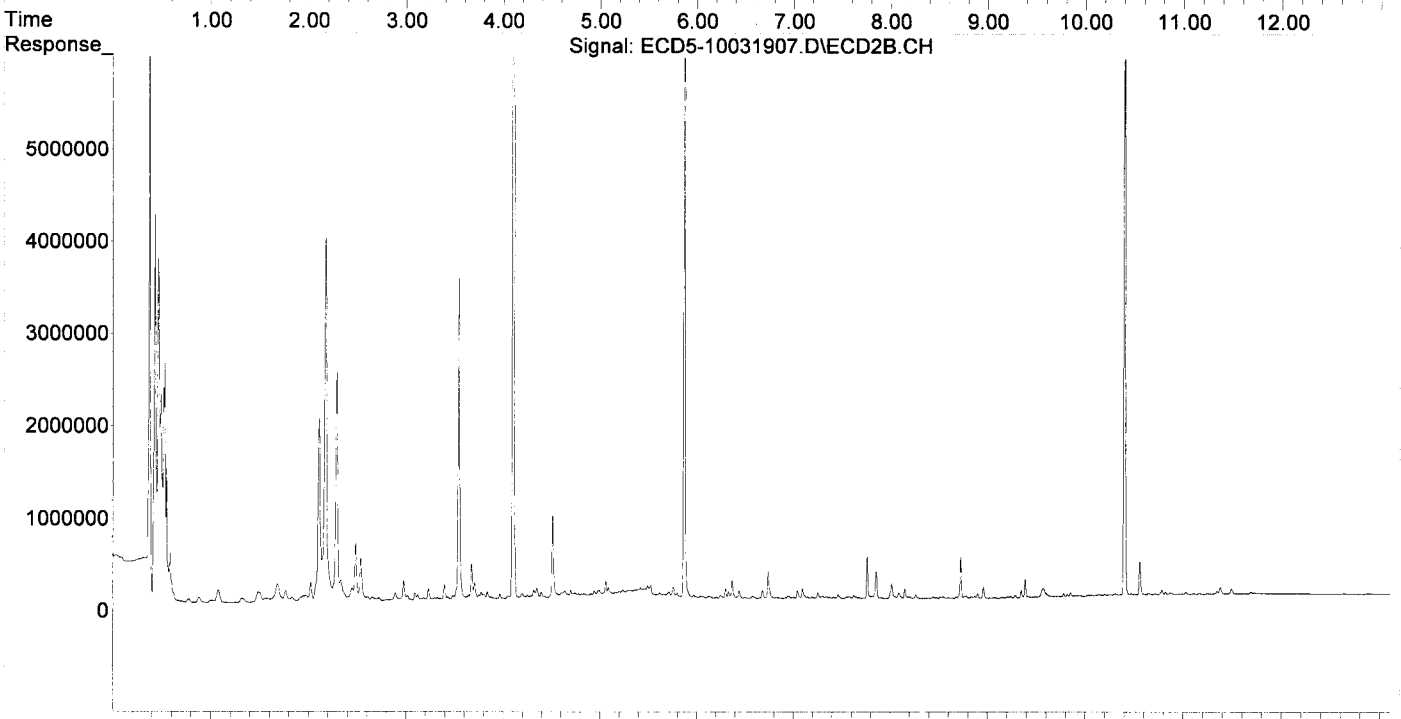
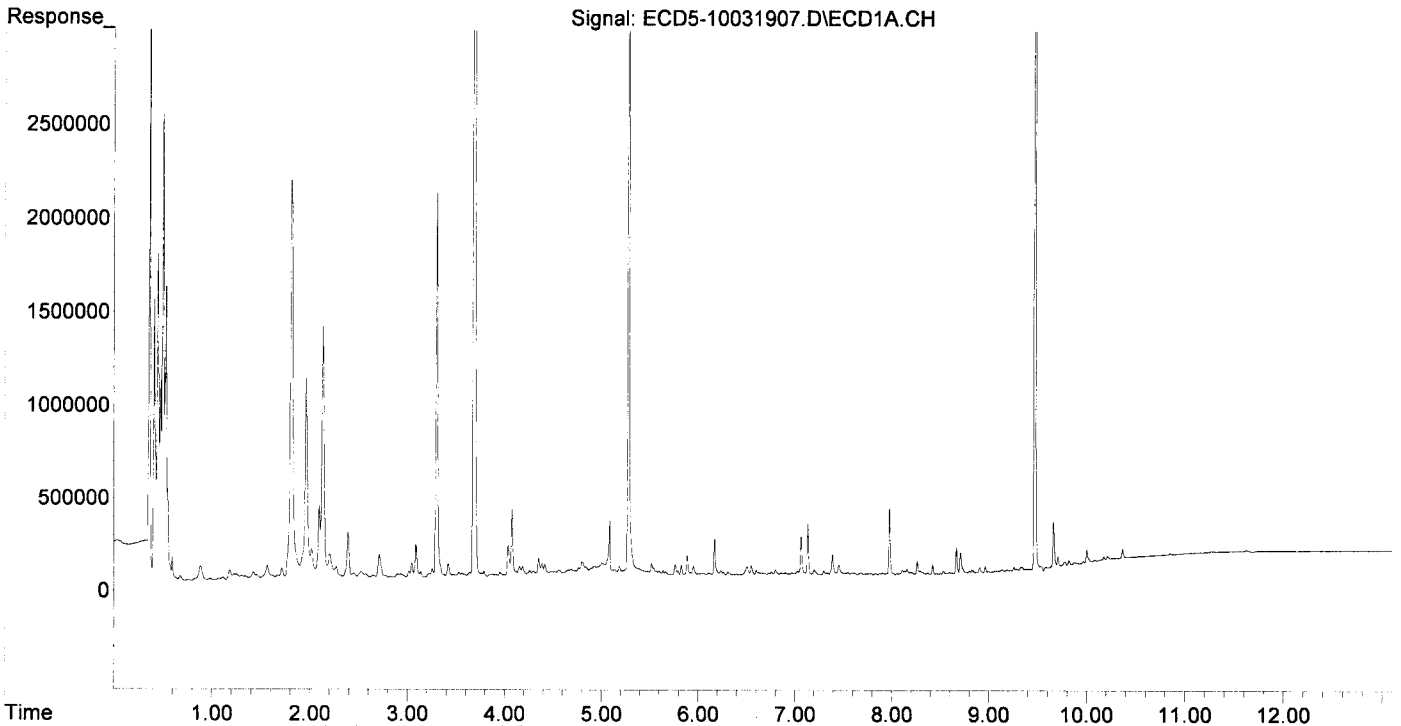
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.279	5.871	5110404	8829717	30.790	30.098
22) S DCBP (S)	9.470	10.402	5925111	7503108	41.993	41.739
Target Compounds						
2) a-BHC	5.826	6.501	60591	22835	0.264	0.056 #
3) g-BHC	6.110	6.785	17267	24665	0.086	0.069
4) b-BHC	6.171	6.847	198404	21065	2.195	0.133 #
5) Heptachlor	6.506	7.191	51416	22858	0.284	0.075 #
6) d-BHC	6.309f	7.094f	20294	110252	0.103	0.313 #
7) Aldrin	6.758	7.413f	20264	22288	0.103	0.068
8) Heptachlo...	7.201	7.856	27831	297671	0.151	0.989 #
9) trans-Chl...	7.298	8.015	24062	156729	0.130	0.500 #
10) cis-Chlor...	7.390	8.151f	104602	104872	0.575	0.360
11) Endosulfa...	0.000	8.185	0	21160	N.D.	0.077 #
12) 4,4'-DDE	7.456	8.216	53193	9639	0.282	0.031m#
13) Dieldrin	7.679	8.390f	11349	7535	0.059	0.025 #
14) Endrin	7.829	8.599	6975	5552	0.047	0.025 #
15) 4,4'-DDD	7.905	8.643	8417	4679	0.054	0.018m#
16) Endosulfa...	7.979	8.725	352235	444577	2.453	1.928
17) 4,4'-DDT	8.109f	8.869	22895	20096	0.191	0.079 #
18) Endrin Al...	8.295	8.959f	19681	120029	BelowCal	BelowCal
19) Endosulfa...	8.595	9.148f	7130	10389	0.046	0.042
20) Methoxychlor	8.423	9.347	48951	76658	0.836	0.765
21) Endrin Ke...	8.801f	9.570	10626	94221	0.064	0.366 #
23) Hexachlor...	3.088	3.542f	182252	3496238	0.997	9.300 #
24) Hexachlor...	5.665	6.330	23491	86083	0.133	0.274 #
25) Oxychlorane	7.135	7.800	274113	28485	1.666	0.104 #
26) 2,4'-DDE	7.201f	8.015	27831	156729	0.217	0.739 #
27) trans-Non...	7.390	8.089	104602	57942	0.268	0.192
28) 2,4'-DDD	7.602	8.390	11677	7535	0.102	0.040 #
29) 2,4'-DDT	7.773	8.599	6543	5552	0.060	0.031 #
30) cis-Nonac...	7.829f	8.679f	6975	14361	0.034	0.043
31) Mirex	8.532	9.570	15769	94221	0.126	0.506 #
32) Chlordane...	7.340f	8.089f	11699	57942	0.594	1.601 #
33) Chlordane...	7.456	8.185	53193	21160	2.122	0.697 #
34) Chlordane...	7.979f	8.836	352235	16931	60.929	1.888 #
35) Chlordane...	3.420f	3.395f	77403	177111	NoCal	NoCal
36) Toxaphene...	7.456f	8.390	53193	7535	59.391	2.871 #
37) Toxaphene...	7.745	8.725	5781	444577	3.579	135.088 #
38) Toxaphene...	8.052	8.769	4821	25632	1.432	5.057 #
39) Toxaphene...	8.265	8.836	69202	16931	21.358	2.028 #
40) Toxaphene...	8.532f	0.000	15769	0	6.578	N.D. #
41) Toxaphene...	8.595f	9.416	7130	16156	2.253	3.401 #
42) Toxaphene...	3.420f	3.395f	77403	177111	NoCal	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-10\9J03031\
Data File : ECD5-10031907.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Oct 2019 13:28
Operator : MJB
Sample : 9091407-BLK1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

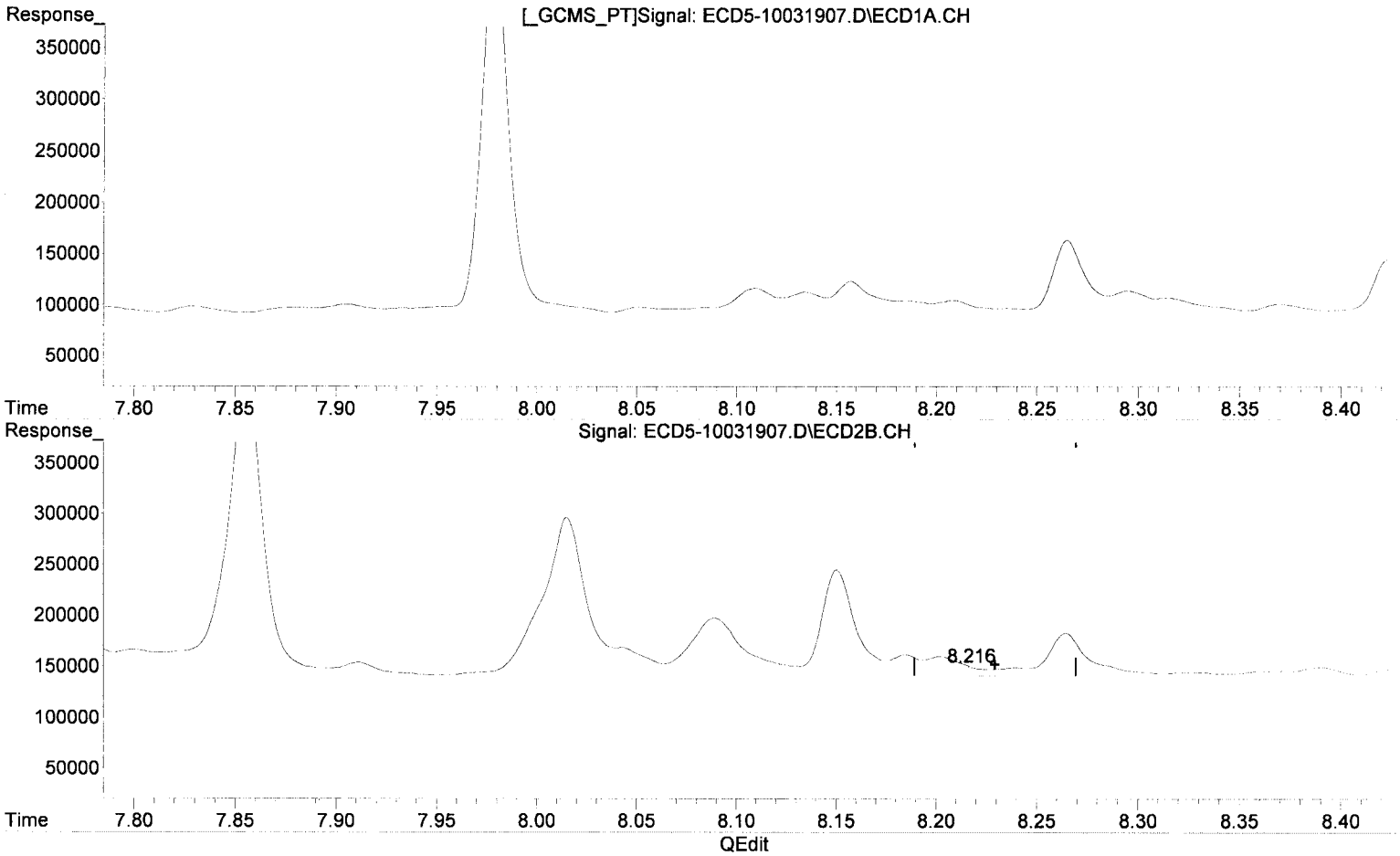
Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 03 17:40:30 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J03031\
Data File : ECD5-10031907.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Oct 2019 13:28
Operator : MJB
Sample : 9091407-BLK1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 03 17:19:06 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(12) 4,4'-DDE
7.456min 0.282 ng/mL
response 53193

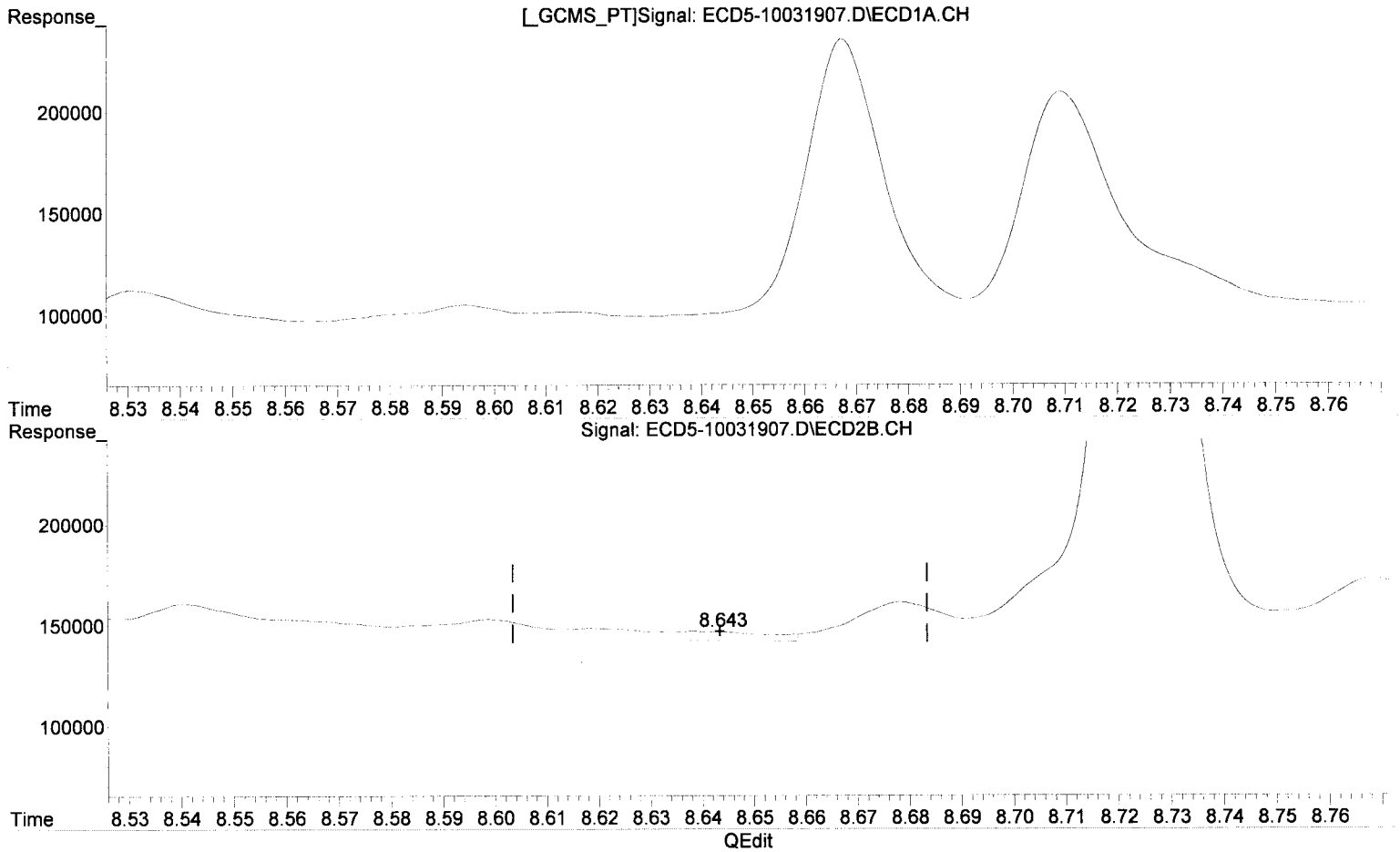
*MJB
10/3/19*

(12) 4,4'-DDE #2
8.216min 0.031 ng/mL m
response 9639

Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J03031\
Data File : ECD5-10031907.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Oct 2019 13:28
Operator : MJB
Sample : 9091407-BLK1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 03 17:19:06 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(15) 4,4'-DDD
7.905min 0.054 ng/mL
response 8417

MJB 10/3/19

(15) 4,4'-DDD #2
8.643min 0.018 ng/mL
response 4679

Data Path : R:\data\2019-10\9J03031\
 Data File : ECD5-10031907.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 03 Oct 2019 13:28
 Operator : MJB
 Sample : 9091407-BLK1
 Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
 ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Oct 03 17:19:06 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MT
MJB
 10/3/19

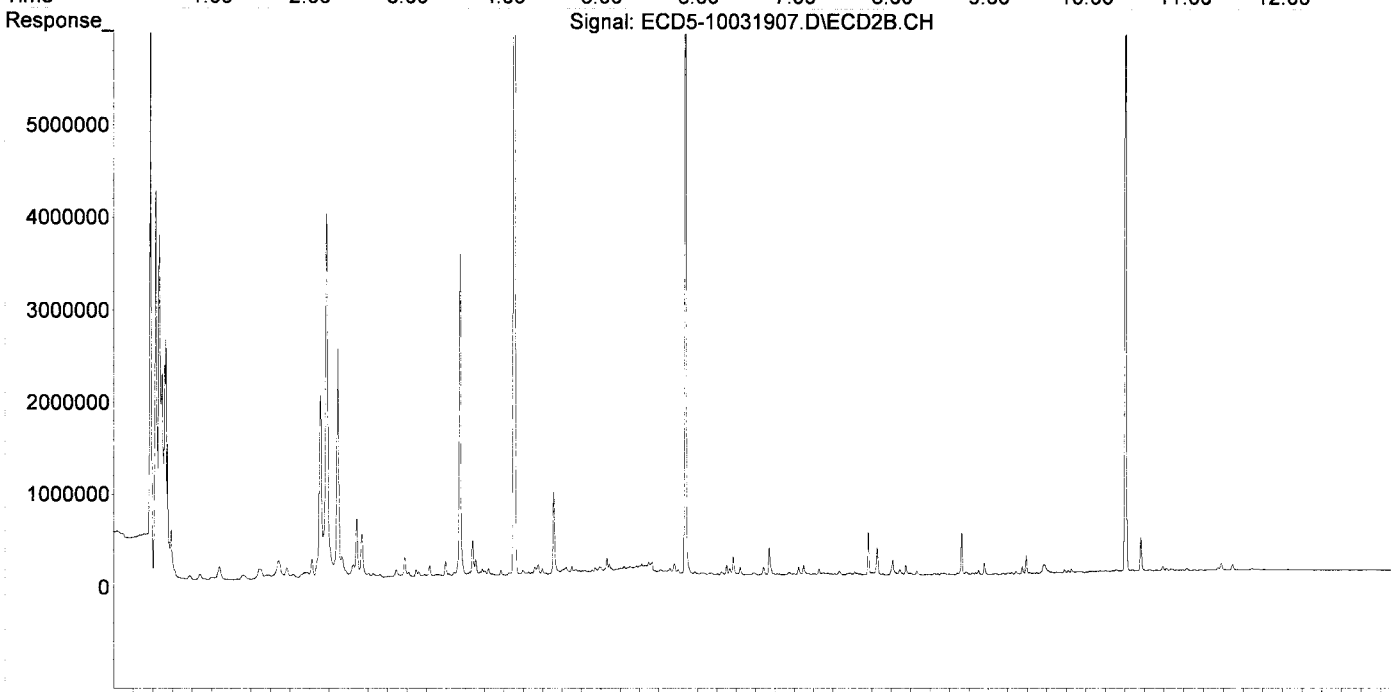
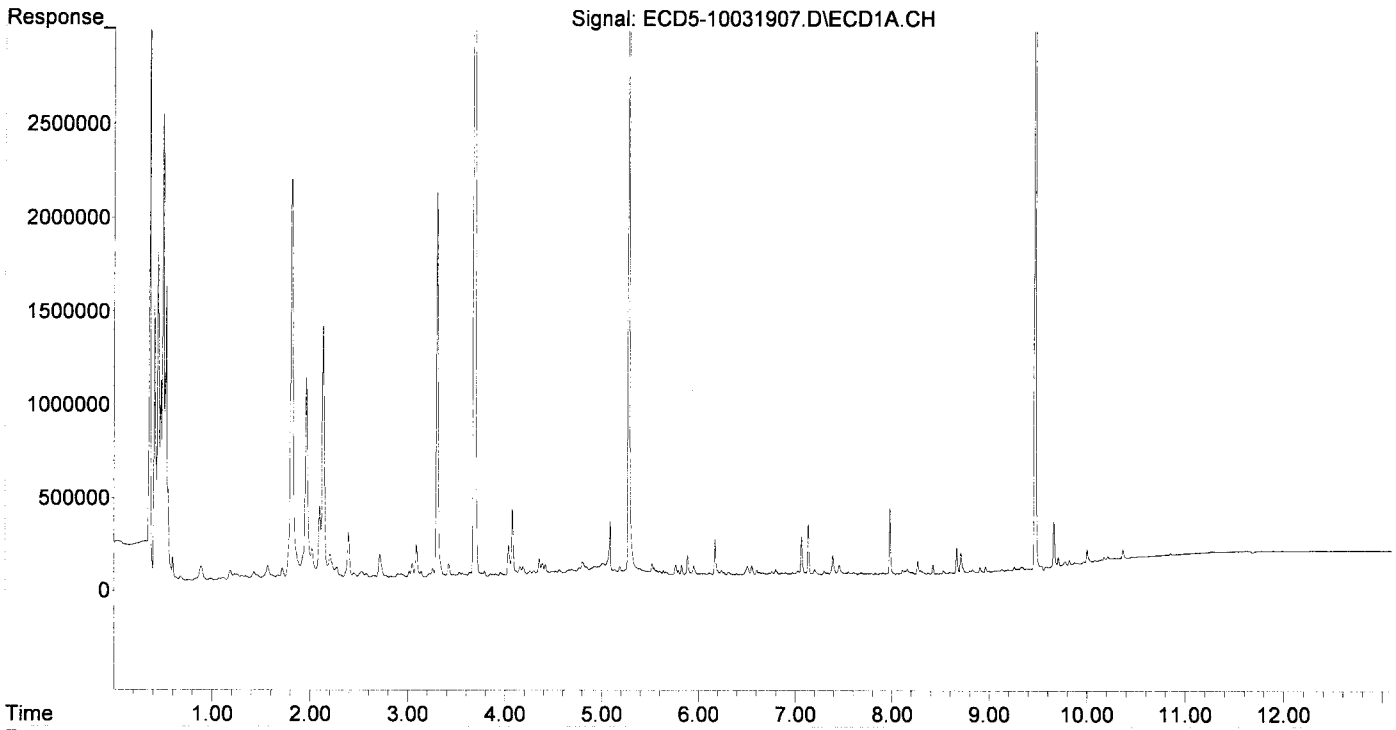
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.279	5.871	5110404	8829717	30.790	30.098
22) S DCBP (S)	9.470	10.402	5925111	7503108	41.993	41.739
Target Compounds						
2) a-BHC	5.826	6.501	60591	22835	0.264	0.056 #
3) g-BHC	6.110	6.785	17267	24665	0.086	0.069
4) b-BHC	6.171	6.847	198404	21065	2.195	0.133 #
5) Heptachlor	6.506	7.191	51416	22858	0.284	0.075 #
6) d-BHC	6.309f	7.094f	20294	110252	0.103	0.313 #
7) Aldrin	6.758	7.413f	20264	22288	0.103	0.068
8) Heptachlo...	7.201	7.856	27831	297671	0.151	0.989 #
9) trans-Chl...	7.298	8.015	24062	156729	0.130	0.500 #
10) cis-Chlor...	7.390	8.151f	104602	104872	0.575	0.360
11) Endosulfa...	0.000	8.185	0	21160	N.D.	0.077 #
12) 4,4'-DDE	7.456	8.202f	53193	19372	0.282	0.062 #
13) Dieldrin	7.679	8.390f	11349	7535	0.059	0.025 #
14) Endrin	7.829	8.599	6975	5552	0.047	0.025 #
15) 4,4'-DDD	7.905	8.679f	8417	14361	0.054	0.056
16) Endosulfa...	7.979	8.725	352235	444577	2.453	1.928
17) 4,4'-DDT	8.109f	8.869	22895	20096	0.191	0.079 #
18) Endrin Al...	8.295	8.959f	19681	120029	BelowCal	BelowCal
19) Endosulfa...	8.595	9.148f	7130	10389	0.046	0.042
20) Methoxychlor	8.423	9.347	48951	76658	0.836	0.765
21) Endrin Ke...	8.801f	9.570	10626	94221	0.064	0.366 #
23) Hexachlor...	3.088	3.542f	182252	3496238	0.997	9.300 #
24) Hexachlor...	5.665	6.330	23491	86083	0.133	0.274 #
25) Oxychlorane	7.135	7.800	274113	28485	1.666	0.104 #
26) 2,4'-DDE	7.201f	8.015	27831	156729	0.217	0.739 #
27) trans-Non...	7.390	8.089	104602	57942	0.268	0.192
28) 2,4'-DDD	7.602	8.390	11677	7535	0.102	0.040 #
29) 2,4'-DDT	7.773	8.599	6543	5552	0.060	0.031 #
30) cis-Nonac...	7.829f	8.679f	6975	14361	0.034	0.043
31) Mirex	8.532	9.570	15769	94221	0.126	0.506 #
32) Chlordane...	7.340f	8.089f	11699	57942	0.594	1.601 #
33) Chlordane...	7.456	8.185	53193	21160	2.122	0.697 #
34) Chlordane...	7.979f	8.836	352235	16931	60.929	1.888 #
35) Chlordane...	3.420f	3.395f	77403	177111	NoCal	NoCal
36) Toxaphene...	7.456f	8.390	53193	7535	59.391	2.871 #
37) Toxaphene...	7.745	8.725	5781	444577	3.579	135.088 #
38) Toxaphene...	8.052	8.769	4821	25632	1.432	5.057 #
39) Toxaphene...	8.265	8.836	69202	16931	21.358	2.028 #
40) Toxaphene...	8.532f	0.000	15769	0	6.578	N.D. #
41) Toxaphene...	8.595f	9.416	7130	16156	2.253	3.401 #
42) Toxaphene...	3.420f	3.395f	77403	177111	NoCal	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-10\9J03031\
Data File : ECD5-10031907.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Oct 2019 13:28
Operator : MJB
Sample : 9091407-BLK1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 03 17:19:06 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : R:\data\2019-10\9J03031\
 Data File : ECD5-10031908.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 03 Oct 2019 13:45
 Operator : MJB
 Sample : 9091407-BS1
 Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
 ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Oct 03 17:19:14 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB
10/3/19

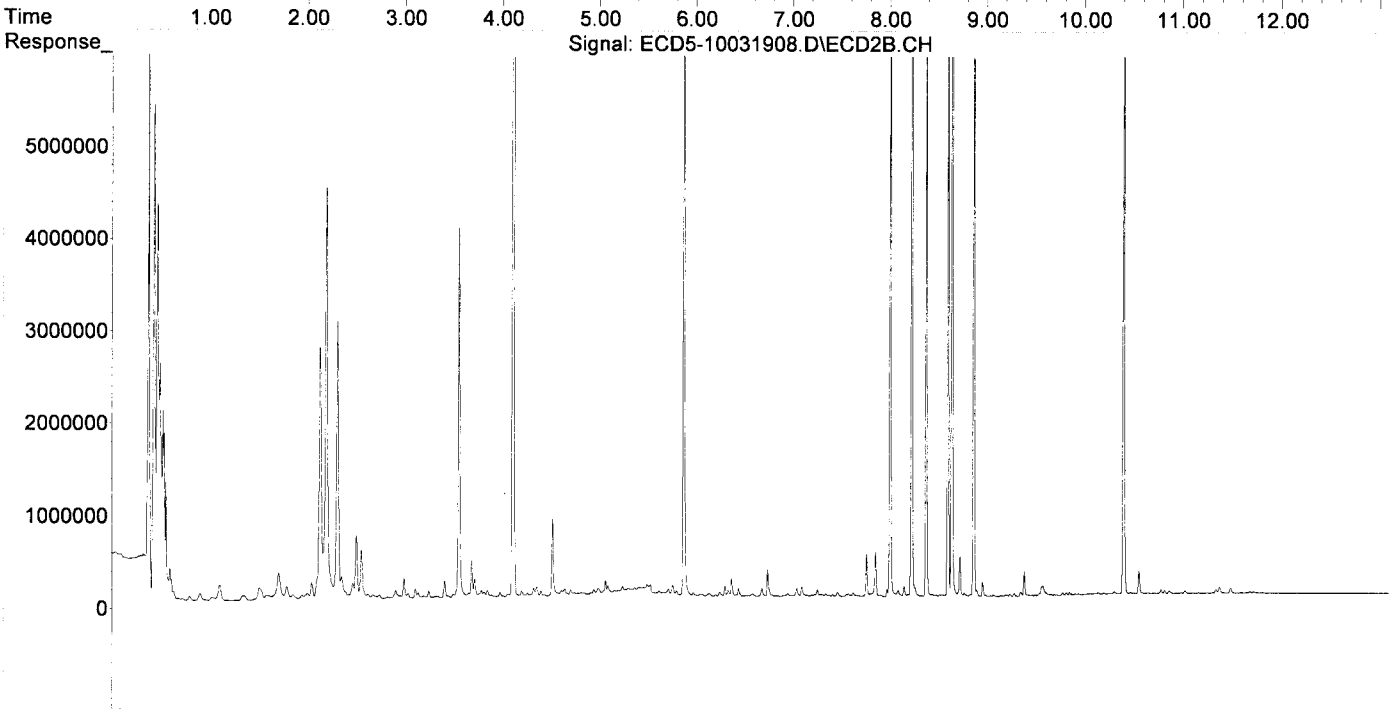
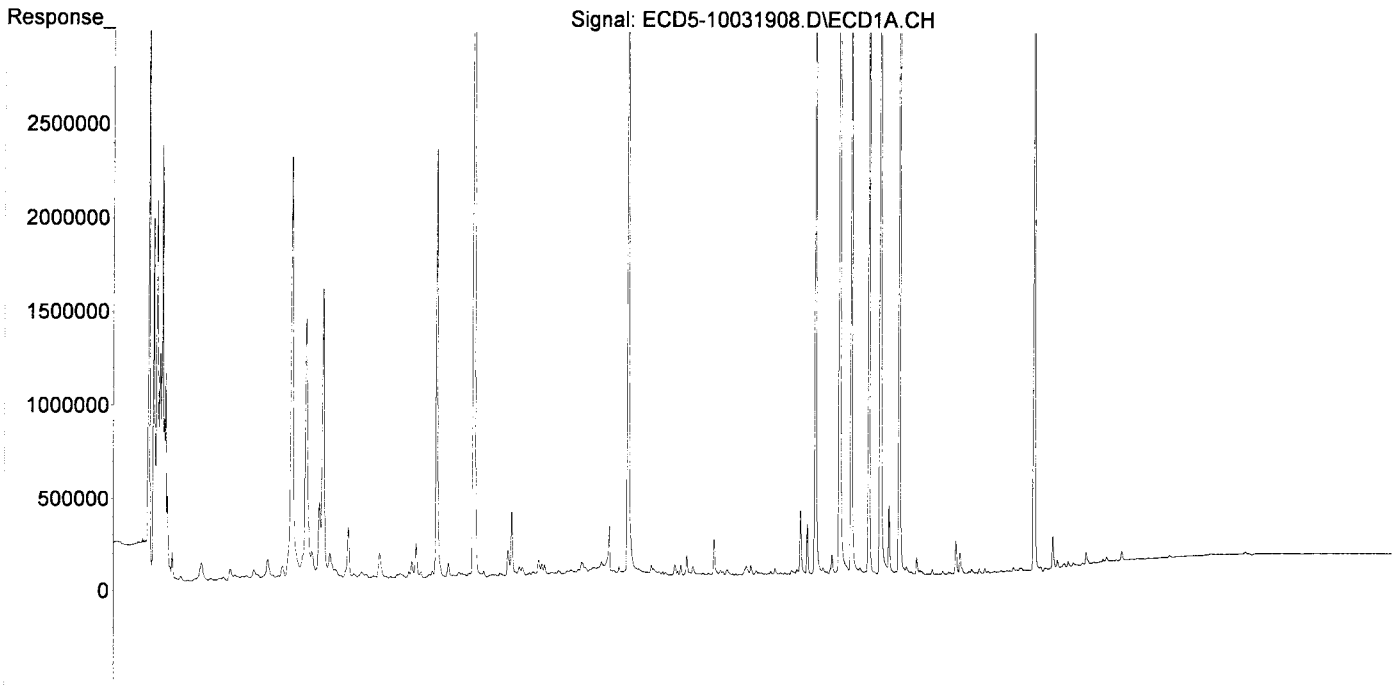
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.281	5.875	5375184	9235066	32.385	31.480
22) S DCBP (S)	9.470	10.403	5141982	7018693	36.442	39.044
Target Compounds						
2) a-BHC	5.827	0.000	60633	0	0.264	N.D. #
3) g-BHC	6.110	6.789	17419	32385	0.086	0.091
4) b-BHC	6.171	0.000	199082	0	2.203	N.D. #
5) Heptachlor	6.506	7.194f	52429	27555	0.289	0.090 #
6) d-BHC	6.363f	7.096f	12665	116062	0.064	0.329 #
7) Aldrin	6.757	7.415f	22851	28851	0.116	0.088
8) Heptachlo...	7.217	7.857	4125833	483522	22.401	1.607 #
9) trans-Chl...	7.296	8.008	41613	7114852	0.225	22.708 #
10) cis-Chlor...	7.389	8.090f	108715	68992	0.597	0.237 #
11) Endosulfa...	7.468f	8.186	6376468	26190	37.469	0.095 #
12) 4,4'-DDE	7.468	8.229	6376468	11155638	33.822	35.907
13) Dieldrin	7.677	8.379	38817	6683362	0.202	21.974 #
14) Endrin	0.000	8.603	0	6794495	N.D.	30.087 #
15) 4,4'-DDD	7.887	8.643	5546553	9842082	35.297	38.414
16) Endosulfa...	7.978	8.727	374529	427336	2.608	1.853
17) 4,4'-DDT	8.084	8.868	5212381	8323406	43.596	44.678
18) Endrin Al...	8.296	8.992	22506	15544	BelowCal	BelowCal
19) Endosulfa...	8.595	9.149f	12155	10071	0.078	0.040 #
20) Methoxychlor	8.423	9.348	28612	43612	0.488	0.355
21) Endrin Ke...	8.800f	9.576	13334	100906	0.080	0.392 #
23) Hexachlor...	3.094	3.552	190365	4019648	1.042	10.692 #
24) Hexachlor...	5.666	6.335	23298	83041	0.132	0.264 #
25) Oxychlorane	7.135	7.765f	279256	465482	1.697	1.699
26) 2,4'-DDE	7.217	8.008	4125833	7114852	32.167	33.539
27) trans-Non...	7.389	8.090	108715	68992	0.291	0.229
28) 2,4'-DDD	7.588	8.379	3996057	6683362	35.015	35.387
29) 2,4'-DDT	7.770	8.603	4288633	6794495	39.099	38.099
30) cis-Nonac...	7.887f	8.643	5546553	9842082	26.716	29.340
31) Mirex	8.531	9.576	16144	100906	0.129	0.542 #
32) Chlordane...	7.338f	8.090f	19187	68992	0.974	1.907 #
33) Chlordane...	7.468	8.186	6376468	26190	254.404	0.863 #
34) Chlordane...	7.978f	8.838	374529	24103	64.785	2.688 #
35) Chlordane...	0.000	3.332f	0	37331	N.D.	NoCal
36) Toxaphene...	7.468f	8.379	6376468	6683362	7119.396	2546.763 #
37) Toxaphene...	7.736	8.727	20276	427336	12.555	129.849 #
38) Toxaphene...	0.000	8.770	0	34737	N.D.	6.854 #
39) Toxaphene...	8.264	8.838	89308	24103	27.563	2.887 #
40) Toxaphene...	8.531f	8.992f	16144	15544	6.735	3.335 #
41) Toxaphene...	8.595f	9.418	12155	14526	3.841	3.058
42) Toxaphene...	3.425f	3.406f	82902	199092	NoCal	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-10\9J03031\
Data File : ECD5-10031908.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Oct 2019 13:45
Operator : MJB
Sample : 9091407-BS1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 03 17:19:14 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : R:\data\2019-10\9J03031\
 Data File : ECD5-10031909.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 03 Oct 2019 14:02
 Operator : MJB
 Sample : A9I0771-01RE182
 Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
 ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Oct 03 17:19:21 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

PR-2
MJB
10/3/19

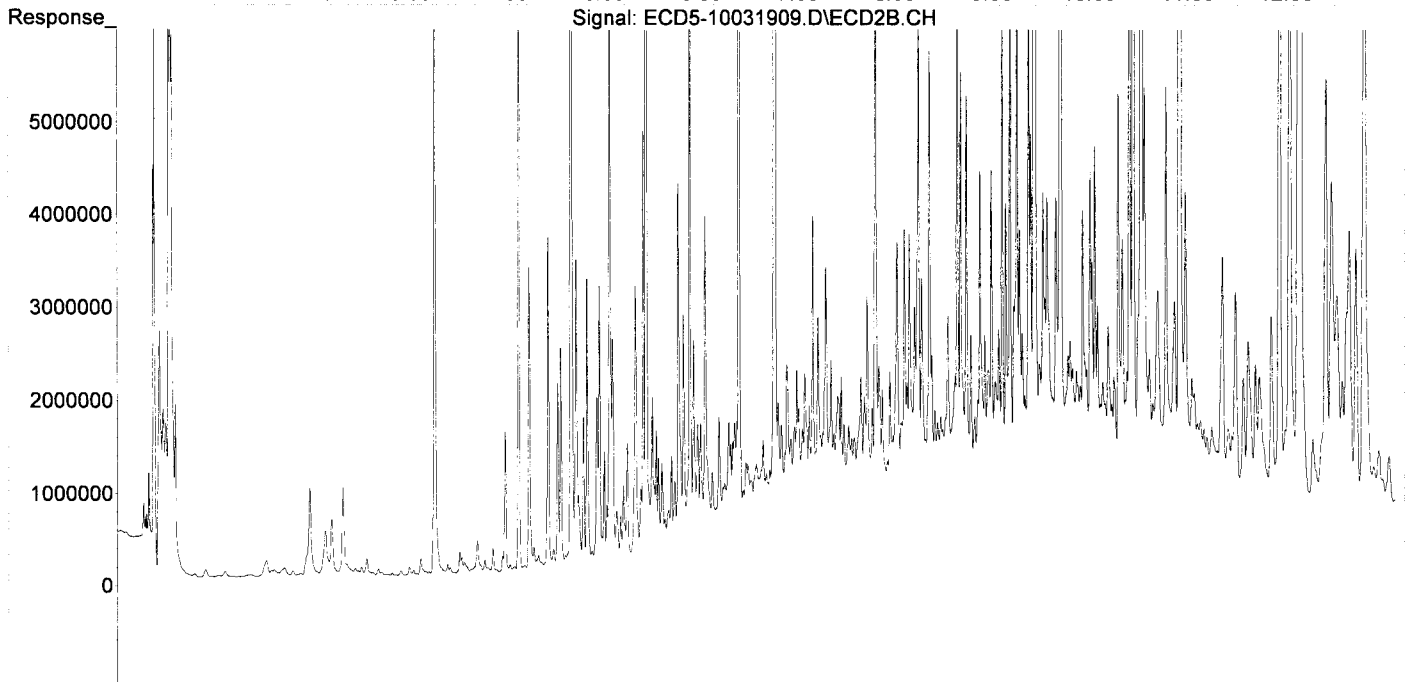
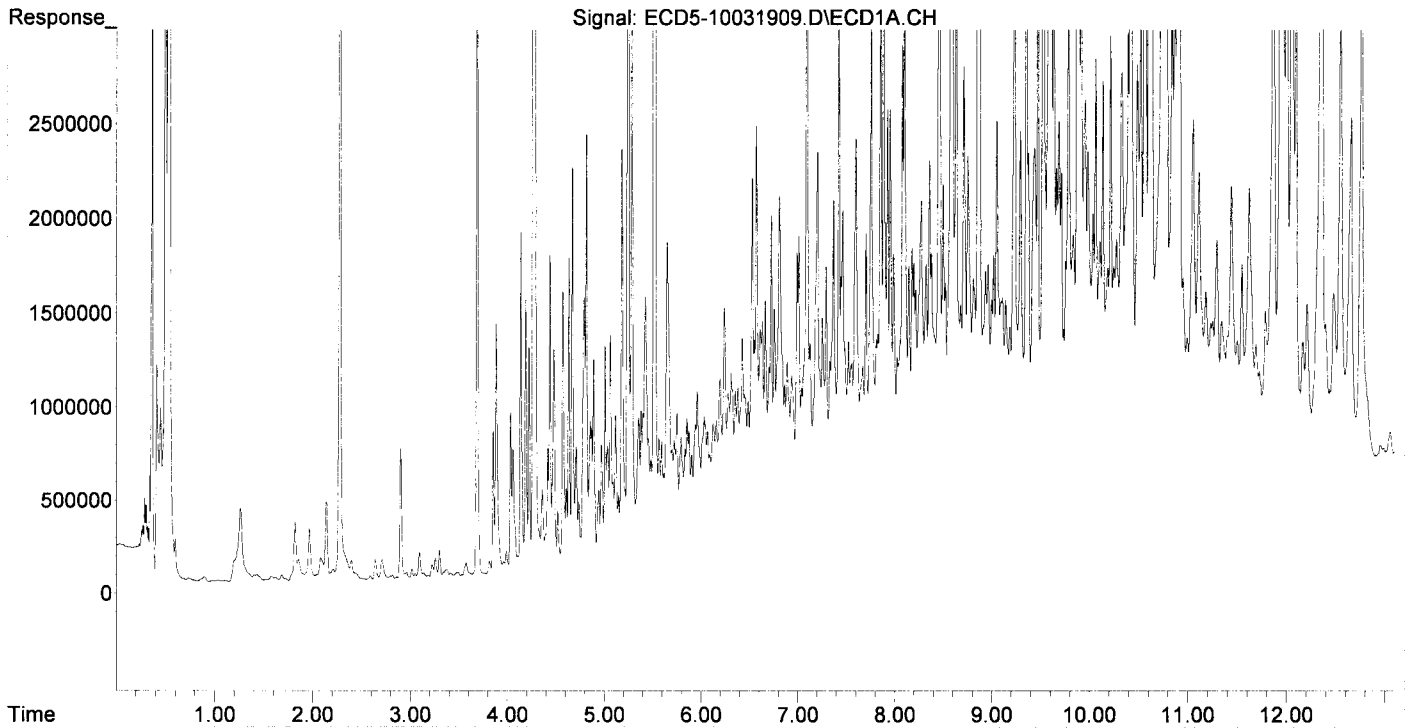
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.286	5.881	3612715	6615285	21.767	22.550
22) S DCBP (S)	9.472	10.407	3878003	8614503	27.484	47.921 #
Target Compounds						
2) a-BHC	5.796f	6.479	659231	950203	2.875	2.316
3) g-BHC	6.127f	6.791	722503	1587647	3.581	4.451
4) b-BHC	6.198	6.883	958989	1987574	10.610	12.558
5) Heptachlor	6.531	7.152f	2010787	3562162	11.091	11.642
6) d-BHC	6.356	7.112	886006	1526725	4.505	4.329
7) Aldrin	6.759	7.443	1303986	1804195	6.604	5.477
8) Heptachlo...	7.204	7.868	2126975	1628692	11.548	5.414 #
9) trans-Chl...	7.295	8.024	1505593	3199578	8.143	10.212
10) cis-Chlor...	7.425f	8.124	2887242	1689717	15.858	5.802 #
11) Endosulfa...	7.525f	8.149f	1108967	3280537	6.516	11.922 #
12) 4,4'-DDE	7.465	8.243	1795192	5975207	9.522	19.233 #
13) Dieldrin	7.672	8.380	971377	1951096	5.060	6.415
14) Endrin	7.855	8.620f	2949738	1719019	20.063	7.612 #
15) 4,4'-DDD	7.888	8.643	4528436	8198012	28.818	31.997
16) Endosulfa...	7.991	8.736	1546924	4727702	10.772	20.501 #
17) 4,4'-DDT	8.101	8.877	3379771	3903208	28.268	21.817
18) Endrin Al...	8.274	8.993	1822546	3903880	14.496	20.045
19) Endosulfa...	8.589	9.186	16691178	6060146	107.701	24.329 #
20) Methoxychlor	8.461f	9.336	5654948	1447369	96.543	17.151 #
21) Endrin Ke...	8.755f	9.564	2038345	3556830	12.223	13.823
23) Hexachlor...	3.096	3.554	130777	118210	0.716	0.314 #
24) Hexachlor...	5.652	6.342	1700832	1404385	9.648	4.471 #
25) Oxychlor dane	7.128	7.799	1116881	6283856	6.788	22.942 #
26) 2,4'-DDE	7.204	8.024	2126975	3199578	16.583	15.083
27) trans-Non...	7.371f	8.063	1860192	1261486	10.068	4.182 #
28) 2,4'-DDD	7.601	8.380	2178664	1951096	19.090	10.331 #
29) 2,4'-DDT	7.759	8.620	2861765	1719019	26.090	9.639 #
30) cis-Nonac...	7.855	8.643	2949738	8198012	14.208	24.439 #
31) Mirex	8.501f	9.564	1903866	3556830	15.186	19.115
32) Chlordane...	7.371	8.063	1860192	1261486	94.476	34.863 #
33) Chlordane...	7.465	8.149f	1795192	3280537	71.623	108.040 #
34) Chlordane...	7.991	8.821	1546924	1260594	267.582	140.599 #
35) Chlordane...	3.379	3.380	34873	99180	NoCal	NoCal
36) Toxaphene...	7.425	8.410	2887242	1362687	3223.637	519.265 #
37) Toxaphene...	7.706f	8.736	1666272	4727702	1031.786	1436.544
38) Toxaphene...	8.029	8.782	1005288	2138713	298.528	421.977 #
39) Toxaphene...	8.274	8.853	1822546	1448568	562.488	173.485 #
40) Toxaphene...	8.501	9.034	1903866	1627869	794.223	349.301 #
41) Toxaphene...	8.589	9.397	16691178	4265160	5274.369	897.890 #
42) Toxaphene...	3.379	3.380	34873	99180	NoCal	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-10\9J03031\
Data File : ECD5-10031909.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Oct 2019 14:02
Operator : MJB
Sample : A9I0771-01RE1@2
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 03 17:19:21 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : R:\data\2019-10\9J03031\
 Data File : ECD5-10031912.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 03 Oct 2019 14:54
 Operator : MJB
 Sample : 9091407-DUP1(2)
 Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
 ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Oct 03 17:19:28 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

PP-2

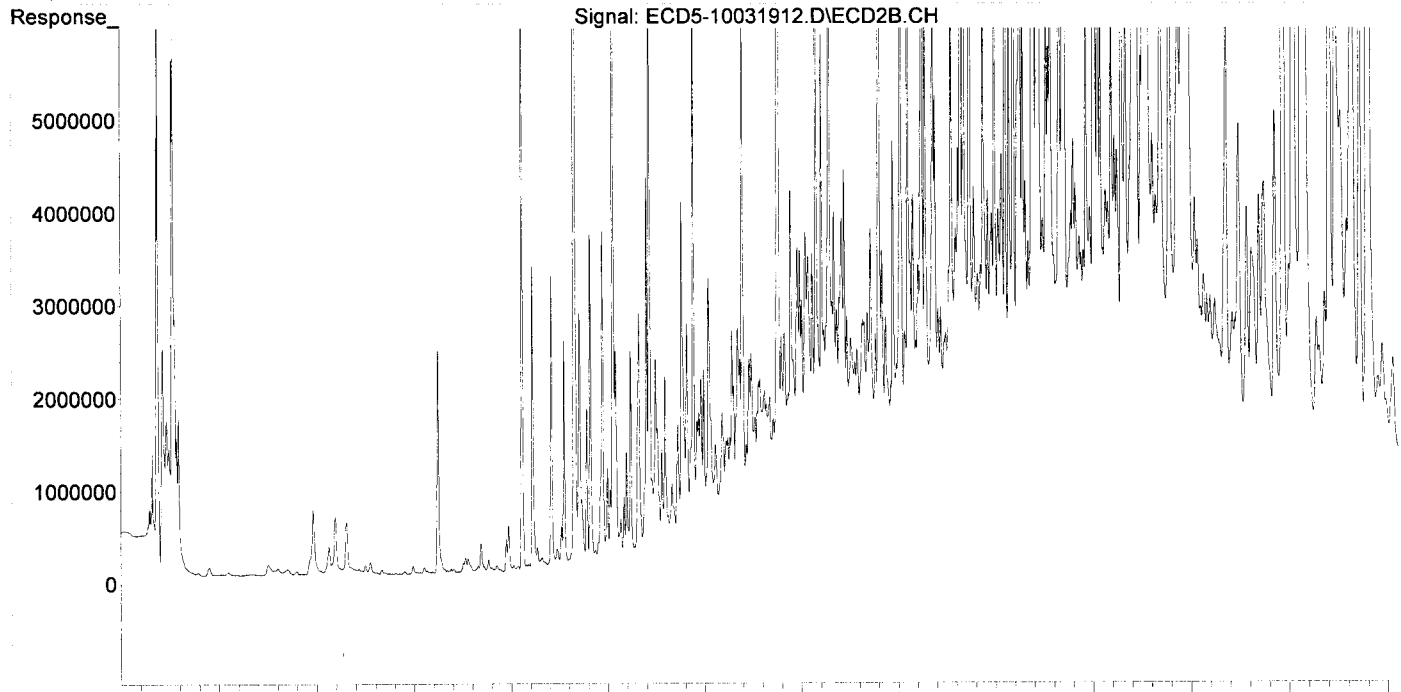
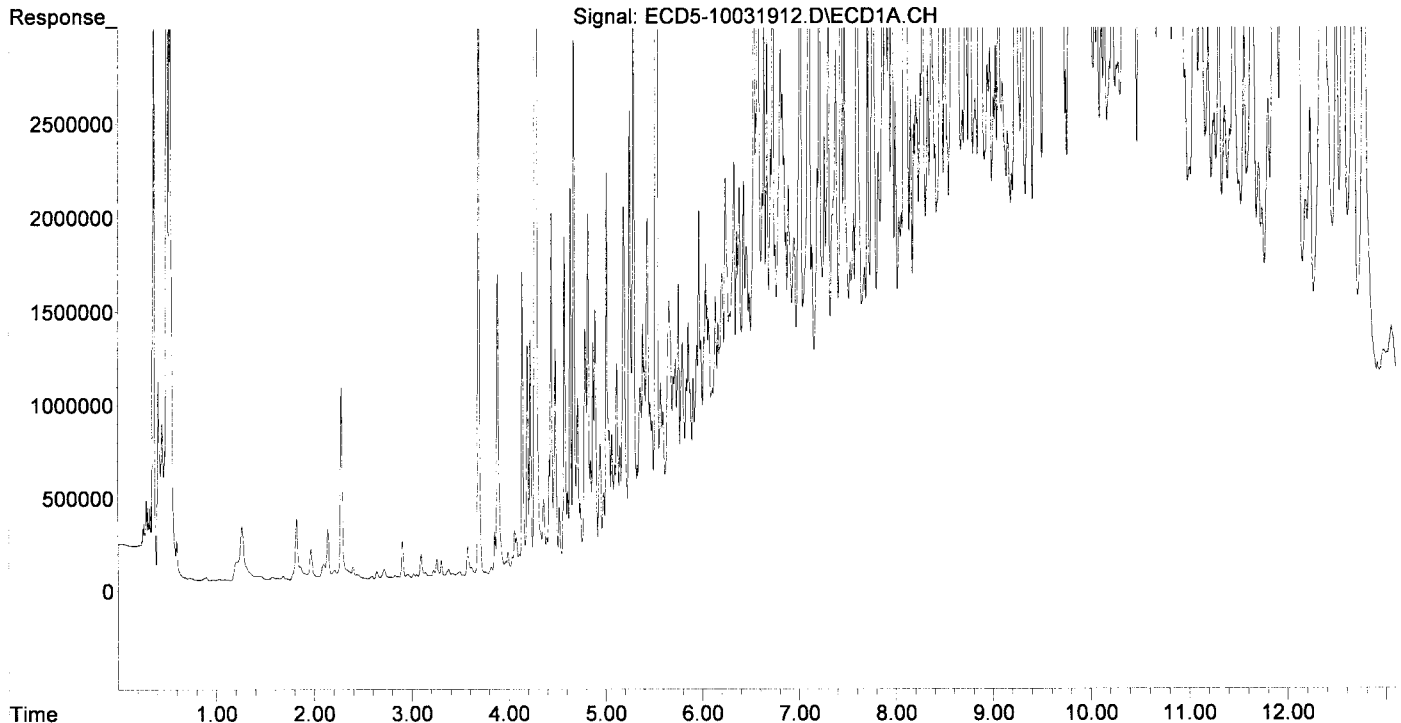
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.288	5.882	3359289	6154462	20.240	20.979
22) S DCBP (S)	9.475	10.412	4533682	13268413	32.131	73.811 #
Target Compounds						
2) a-BHC	5.794f	6.481	1084283	1972362	4.728	4.807
3) g-BHC	6.136f	6.792	1296269	2098634	6.424	5.883
4) b-BHC	6.202	6.889f	1414083	3663211	15.645	23.146 #
5) Heptachlor	6.533	7.152	4042850	8551193	22.300	27.947
6) d-BHC	6.328	7.113	1995980	2941876	10.148	8.342
7) Aldrin	6.728f	7.443	3834473	3794828	19.420	11.521 #
8) Heptachlo...	7.211	7.871	3988786	2142781	21.657	7.122 #
9) trans-Chl...	7.302	8.033	2656549	6213964	14.368	19.832
10) cis-Chlor...	7.378f	8.103	2496275	6658647	13.710	22.863 #
11) Endosulfa...	7.529f	8.182	1364367	1856443	8.017	6.746
12) 4,4'-DDE	7.469	8.248	2699371	10310259	14.318	33.186 #
13) Dieldrin	7.678	8.360	1330414	5877753	6.930	19.325 #
14) Endrin	7.819	8.595	1928286	2996144	13.115	13.267
15) 4,4'-DDD	7.891	8.645	9249567	17777365	58.862	69.385
16) Endosulfa...	7.994	8.739	2162379	12194081	15.057	52.878 #
17) 4,4'-DDT	8.104	8.878	5872358	6315805	49.116	34.515
18) Endrin Al...	8.277	8.967	3495645	3105584	28.461	15.854 #
19) Endosulfa...	8.598	9.189	30217604	10111268	194.980	40.593 #
20) Methoxychlor	0.000	9.341	0	2749071	N.D.	31.748 #
21) Endrin Ke...	8.756	9.567	3316968	6186223	19.891	24.041
23) Hexachlor...	3.095	3.552	121038	147547	0.662	0.392 #
24) Hexachlor...	5.657	6.341	1308586	2256034	7.423	7.183
25) Oxychlordan	7.133	7.803	1499203	8676767	9.112	31.678 #
26) 2,4'-DDE	7.211	8.033f	3988786	6213964	31.099	29.292
27) trans-Non...	7.378	8.068	2496275	1968345	13.619	6.526 #
28) 2,4'-DDD	7.603	8.381	4175604	4462650	36.588	23.629
29) 2,4'-DDT	7.762	8.595	5100099	2996144	46.497	16.800 #
30) cis-Nonac...	7.863	8.645	3172895	17777365	15.283	52.996 #
31) Mirex	8.507f	9.546	3133260	4812216	24.993	25.862
32) Chlordane...	7.378	8.068	2496275	1968345	126.781	54.397 #
33) Chlordane...	7.469	8.182	2699371	1856443	107.698	61.139 #
34) Chlordane...	7.994	8.821	2162379	2474345	374.041	275.973
35) Chlordane...	3.380	3.379	37690	41837	NoCal	NoCal
36) Toxaphene...	7.434	8.412	5478660	2149894	6116.983	819.239 #
37) Toxaphene...	7.709	8.739	2746118	12194081	1700.448	3705.253 #
38) Toxaphene...	8.032	8.783	1564230	3418158	464.509	674.417 #
39) Toxaphene...	8.277	8.853	3495645	2566204	1078.852	307.336 #
40) Toxaphene...	8.507	9.033	3133260	3143637	1307.082	674.548 #
41) Toxaphene...	8.598f	9.402	30217604	7188231	9548.684	1513.247 #
42) Toxaphene...	3.380	3.379	37690	41837	NoCal	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-10\9J03031\
Data File : ECD5-10031912.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Oct 2019 14:54
Operator : MJB
Sample : 9091407-DUP1@2
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 03 17:19:28 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-10\9J03031\
 Data File : ECD5-10031916.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 03 Oct 2019 16:03
 Operator : MJB
 Sample : A9I0771-02RE1@10
 Misc : 10x, 8081B 2,4,4,4-DDx Only, GPC
 ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Oct 03 17:46:32 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB
10/3/19

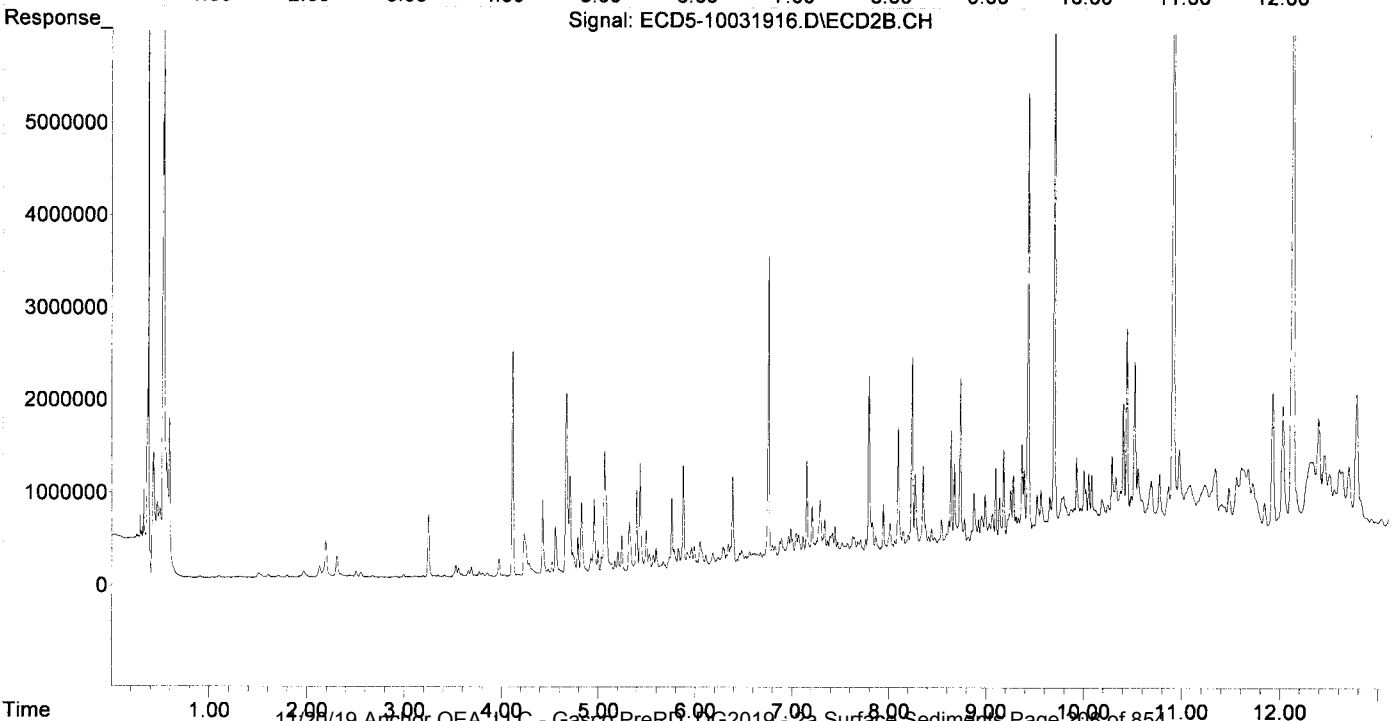
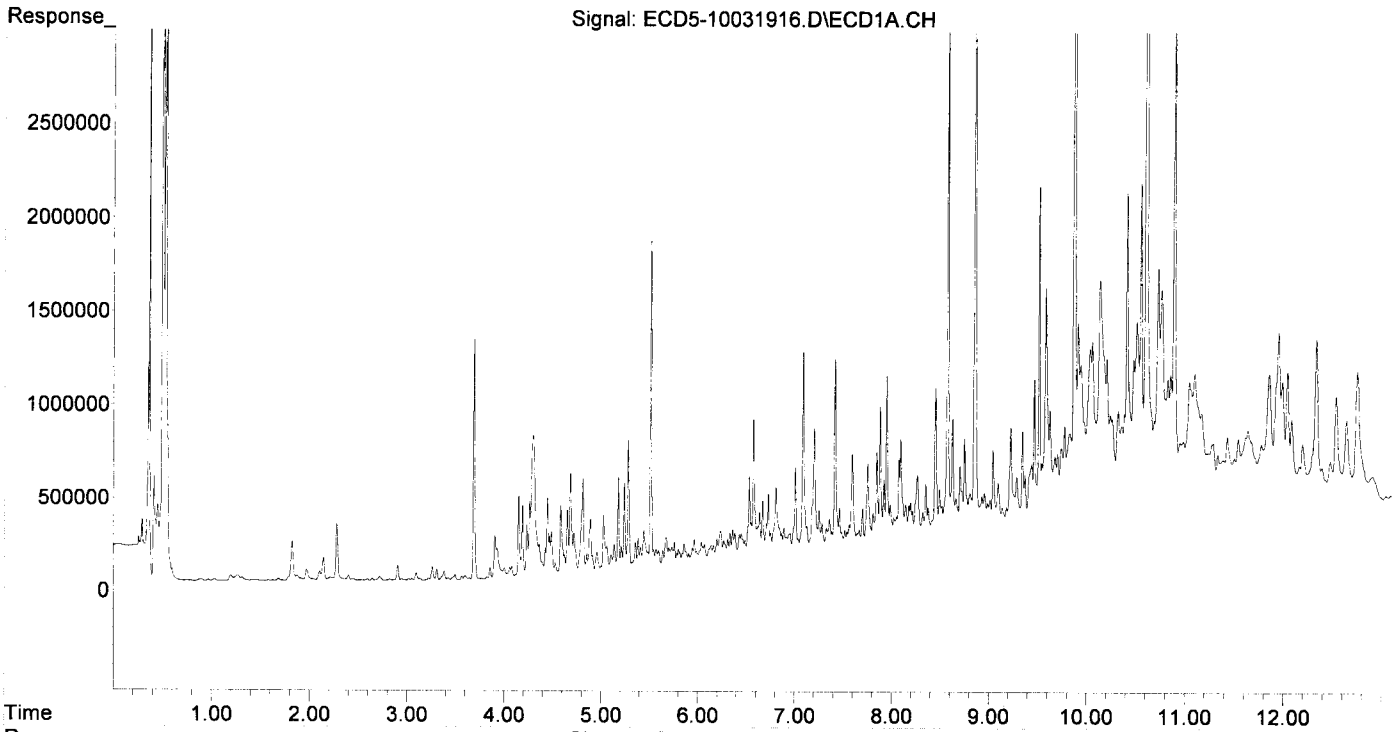
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.280	5.874	668933	1102909	4.030	3.759
22) S DCBP (S)	9.467	10.400	801067	1488848	5.677	8.282 # 604
Target Compounds						
2) a-BHC	5.800f	6.478	68315	144052	0.298	0.351
3) g-BHC	6.137f	6.795	71905	184075	0.356	0.516 #
4) b-BHC	6.198	6.873	105052	218687	1.162	1.382
5) Heptachlor	6.532	7.151f	420781	1093050	2.321	3.572 #
6) d-BHC	6.332	7.110	128576	256143	0.654	0.726
7) Aldrin	6.728f	7.441	319370	348927	1.618	1.059
8) Heptachlo...	7.203	7.863	648061	219913	3.519	0.731 #
9) trans-Chl...	7.328	8.011	109385	344975	0.592	1.101 #
10) cis-Chlor...	7.418	8.145f	1035040	249065	5.685	0.855 #
11) Endosulfa...	7.519	8.145f	90083	249065	0.529	0.905 # 201
12) 4,4'-DDE	7.462	8.237	211238	2145628	1.120	6.906 #
13) Dieldrin	7.667	8.375	85225	305338	0.444	1.004 #
14) Endrin	7.848	8.591	491377	192578	3.342	0.853 #
15) 4,4'-DDD	7.883	8.639	736623	1312533	4.688	5.123
16) Endosulfa...	7.987	8.735	203226	1872967	1.415	8.122 # 202
17) 4,4'-DDT	8.091	8.874	455394	612969	3.809m	3.514
18) Endrin Al...	8.267	8.989	349681	588777	1.980	2.368
19) Endosulfa...	8.578	9.180	2841548	1068865	18.335	4.291 #
20) Methoxychlor	8.454f	9.330	805830	321353	13.757	3.776 #
21) Endrin Ke...	8.752f	9.560	524625	599994	3.146	2.332
23) Hexachlor...	3.093	3.584	38746	31141	0.212	0.083 #
24) Hexachlor...	5.672	6.339	136546	222475	0.775	0.708
25) Oxychlorane	0.000	7.792	0	1943111	N.D.	7.094 #
26) 2,4'-DDE	7.203	8.011	648061	344975	5.053	1.626 # MBL=MBL
27) trans-Non...	7.385	8.093	91739	1387199	0.196	4.599 #
28) 2,4'-DDD	7.596	8.375	496681	305338	4.352	1.617 # MBL=MBL
29) 2,4'-DDT	7.755	8.617	432621	332369	3.944	1.864 # MBL=MBL
30) cis-Nonac...	7.883	8.639	736623	1312533	3.548	3.913
31) Mirex	8.495f	9.560	264998	599994	2.114	3.225 #
32) Chlordane...	7.361	8.057	157553	152836	8.002	4.224 #
33) Chlordane...	7.462	8.197f	211238	206508	8.428	6.801
34) Chlordane...	7.987	8.818	203226	138752	35.153	15.476 #
35) Chlordane...	3.380	3.362	44570	11893	NoCal	NoCal
36) Toxaphene...	7.418	8.406	1035040	172315	1155.634	65.662 #
37) Toxaphene...	7.702f	8.735	198517	1872967	122.925	569.113 #
38) Toxaphene...	8.024	8.779	134921	343819	40.066	67.837 #
39) Toxaphene...	8.267	8.851	349681	210839	107.921	25.251 #
40) Toxaphene...	8.495	9.029	264998	280782	110.547	60.249 #
41) Toxaphene...	8.578	9.388	2841548	830581	897.922	174.852 #
42) Toxaphene...	3.380	3.362	44570	11893	NoCal	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-10\9J03031\
Data File : ECD5-10031916.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Oct 2019 16:03
Operator : MJB
Sample : A9I0771-02RE1@10
Misc : 10x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

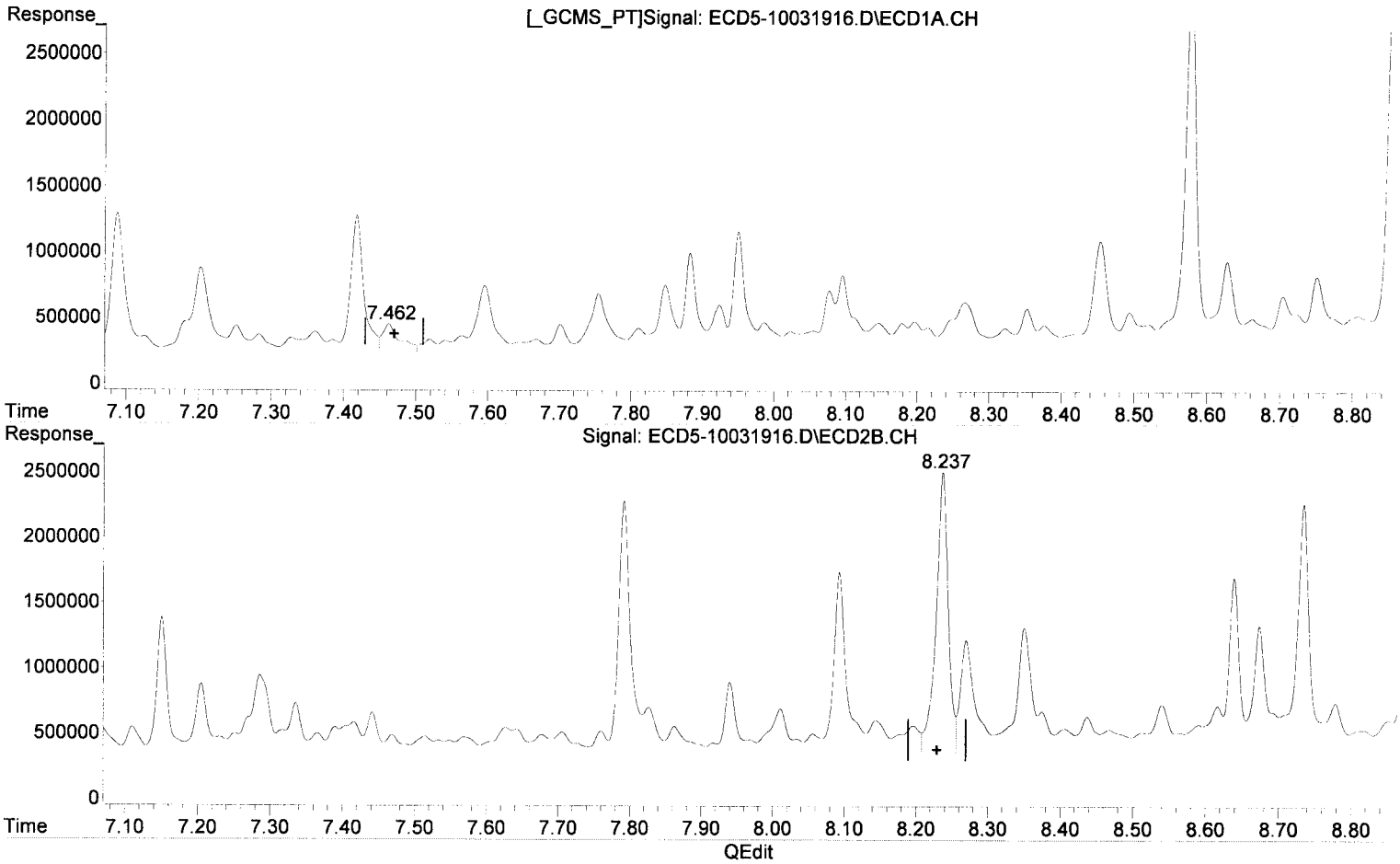
Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 03 17:46:32 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J03031\
Data File : ECD5-10031916.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Oct 2019 16:03
Operator : MJB
Sample : A9I0771-02RE1@10
Misc : 10x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 03 17:19:35 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(12) 4,4'-DDE

7.462min 1.120 ng/mL

MDE MRL

response 211238

(12) 4,4'-DDE #2

8.237min 6.906 ng/mL

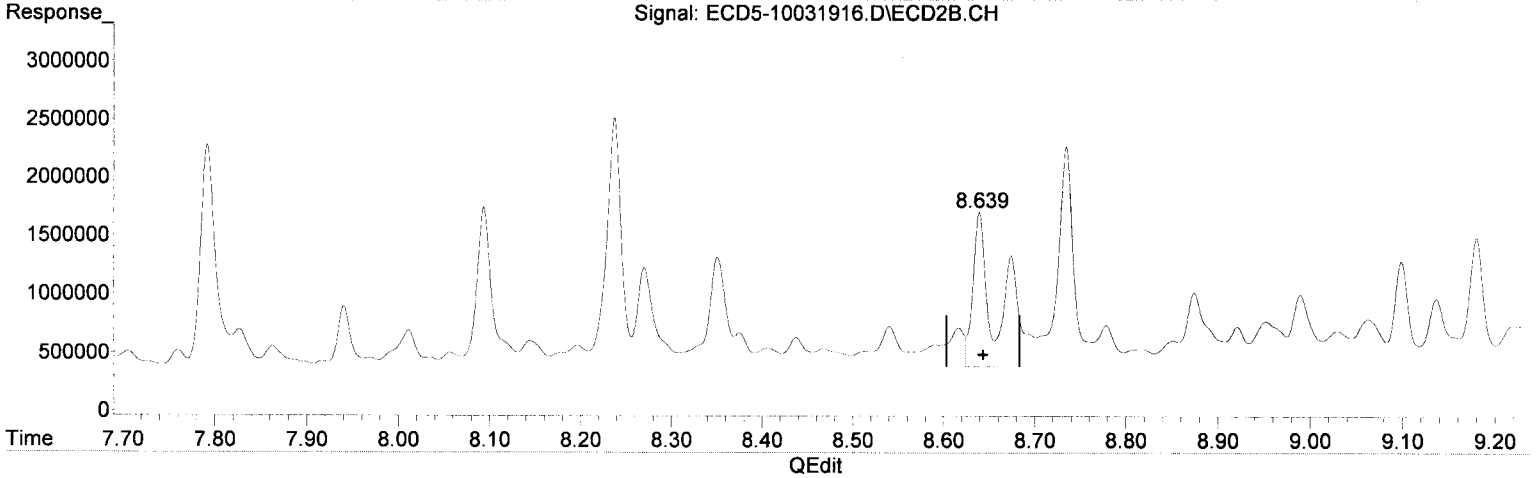
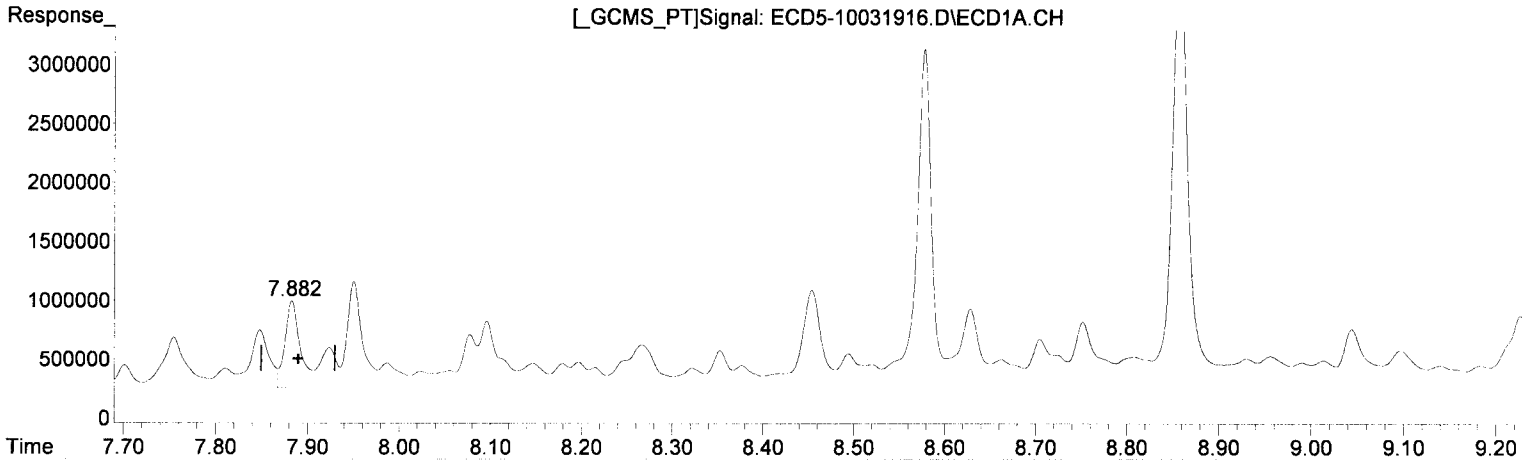
MDE

response 2145628

Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J03031\
Data File : ECD5-10031916.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Oct 2019 16:03
Operator : MJB
Sample : A9I0771-02RE1@10
Misc : 10x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 03 17:19:35 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(15) 4,4'-DDD
7.883min 4.688 ng/mL
response 736623

MJB
10/3/19

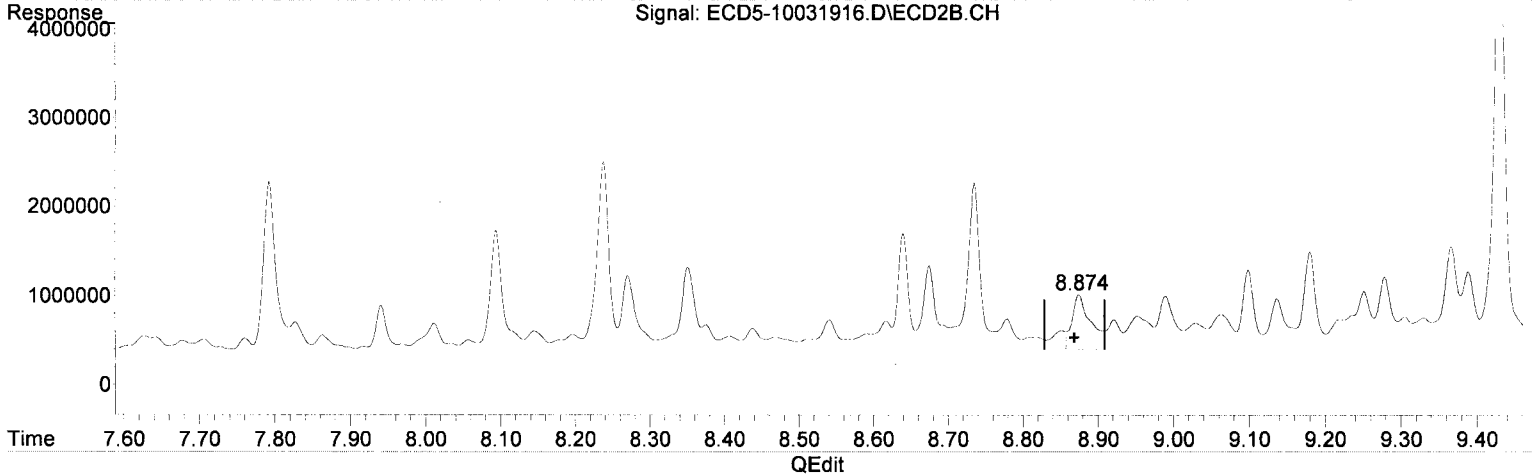
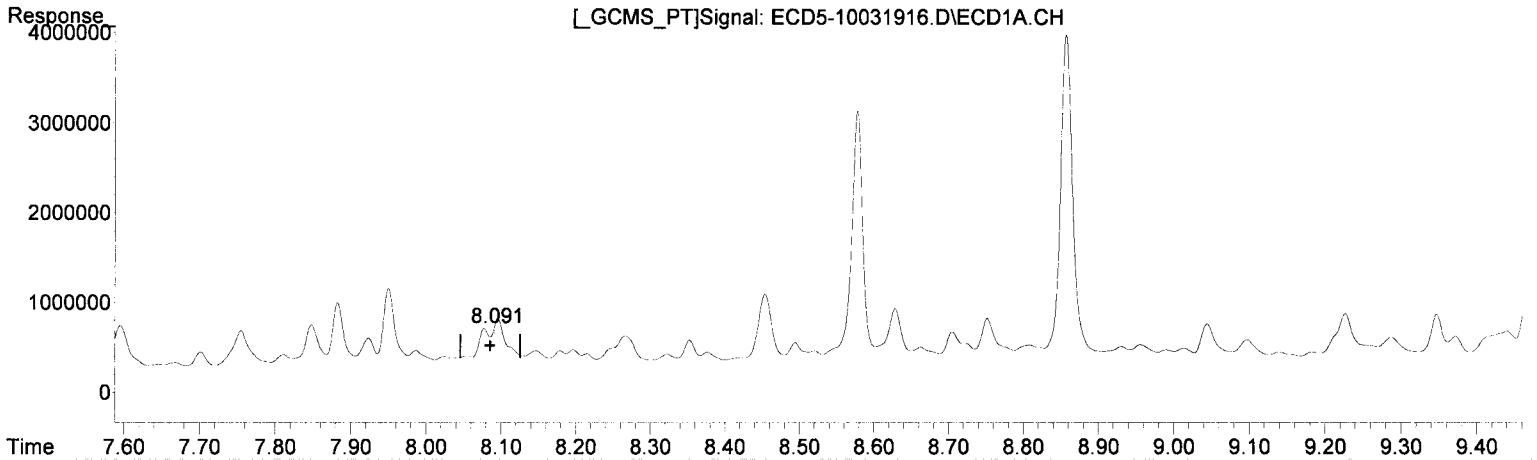


(15) 4,4'-DDD #2
8.639min 5.123 ng/mL
response 1312533

Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J03031\
Data File : ECD5-10031916.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Oct 2019 16:03
Operator : MJB
Sample : A9I0771-02RE1@10
Misc : 10x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 03 17:19:35 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(17) 4,4'-DDT
8.091min 3.809 ng/mL (m)
response 455394

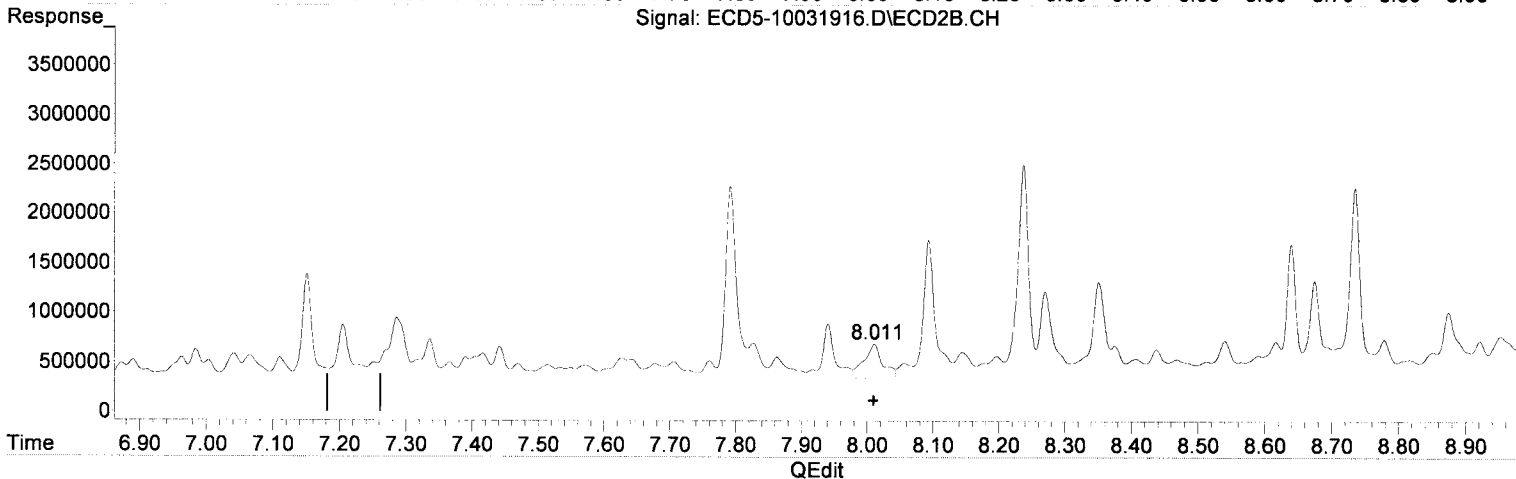
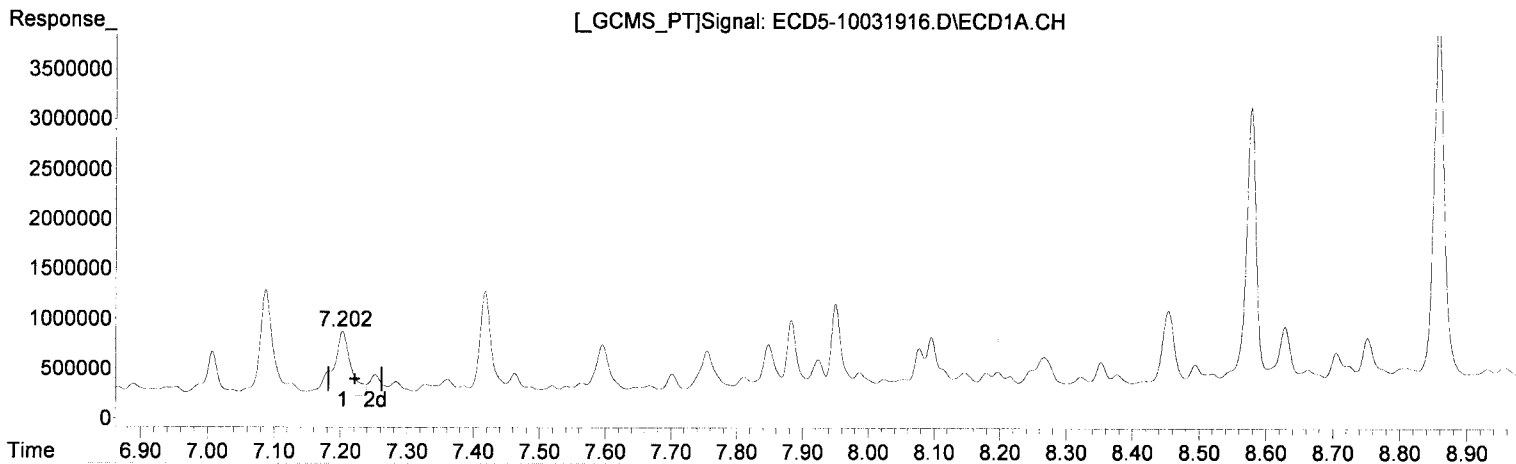
MJB
10/3/19

(17) 4,4'-DDT #2
8.874min 3.514 ng/mL R.02
response 612969

Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J03031\
Data File : ECD5-10031916.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Oct 2019 16:03
Operator : MJB
Sample : A9I0771-02RE1@10
Misc : 10x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 03 17:19:35 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(26) 2,4'-DDE
7.203min 5.053 ng/mL
response 648061

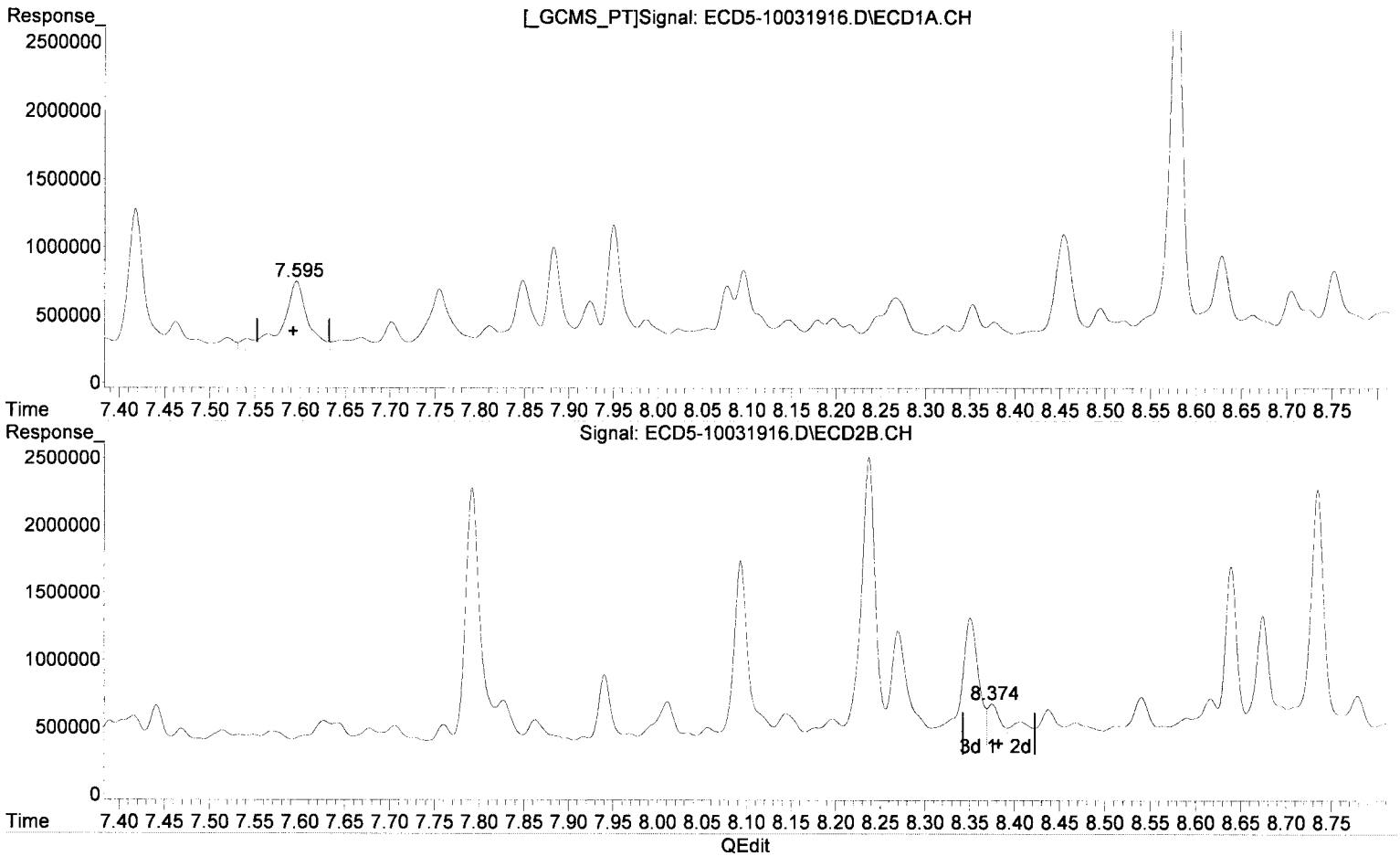
MJB 10/3/19

(26) 2,4'-DDE #2
8.011min 1.626 ng/mL *MJB MR*
response 344975

Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J03031\
Data File : ECD5-10031916.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Oct 2019 16:03
Operator : MJB
Sample : A9I0771-02RE1@10
Misc : 10x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 03 17:19:35 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(28) 2,4'-DDD
7.596min 4.352 ng/mL
response 496681

MJB
10/3/19

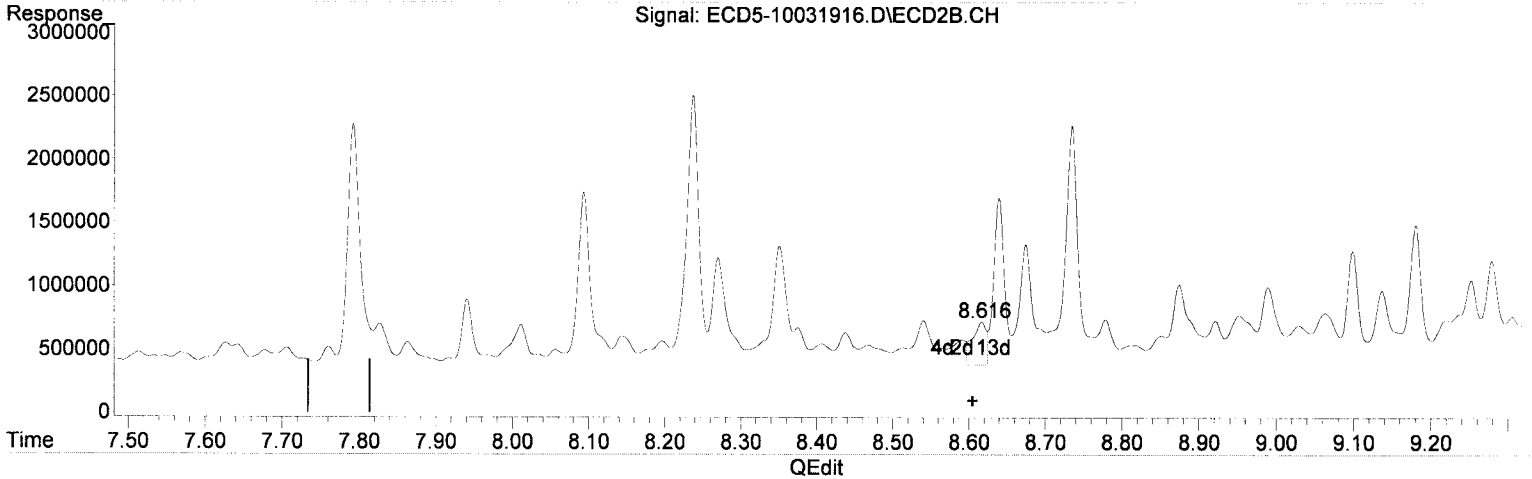
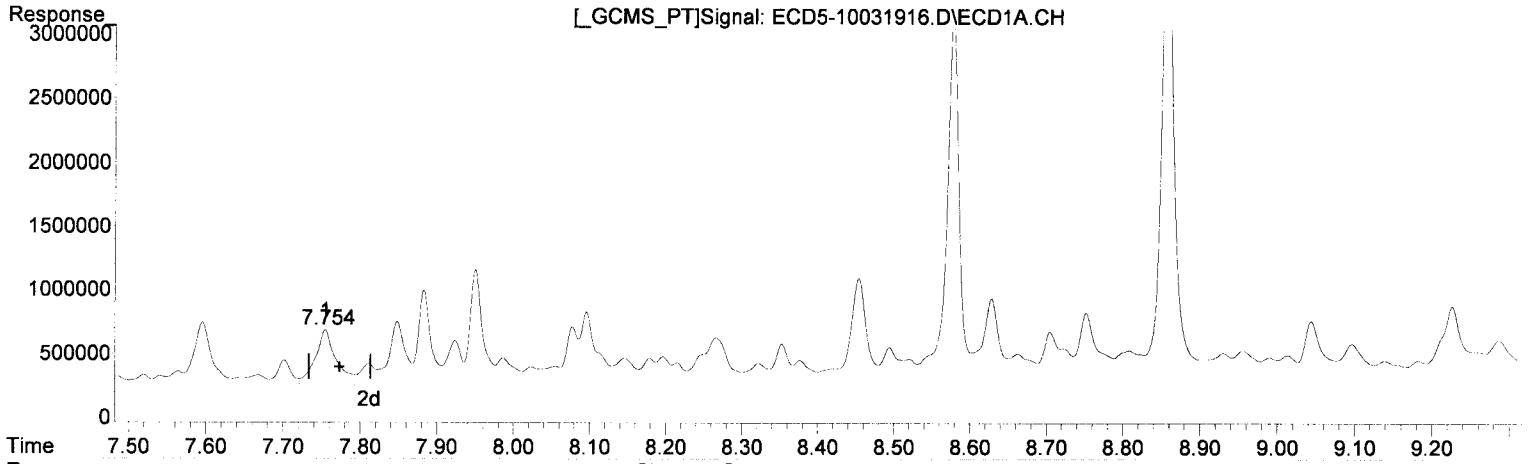
(28) 2,4'-DDD #2
8.375min 1.617 ng/mL
response 305338

MDL = MRL

Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J03031\
Data File : ECD5-10031916.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Oct 2019 16:03
Operator : MJB
Sample : A9I0771-02RE1@10
Misc : 10x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 03 17:19:35 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(29) 2,4'-DDT
7.755min 3.944 ng/mL
response 432621

MJB 10/31/19

(29) 2,4'-DDT #2
8.617min 1.864 ng/mL *MJB MJB*
response 332369

Data Path : R:\data\2019-10\9J03031\
 Data File : ECD5-10031916.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 03 Oct 2019 16:03
 Operator : MJB
 Sample : A9I0771-02RE1@10
 Misc : 10x, 8081B 2,4+4,4-DDx Only, GPC
 ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Oct 03 17:19:35 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

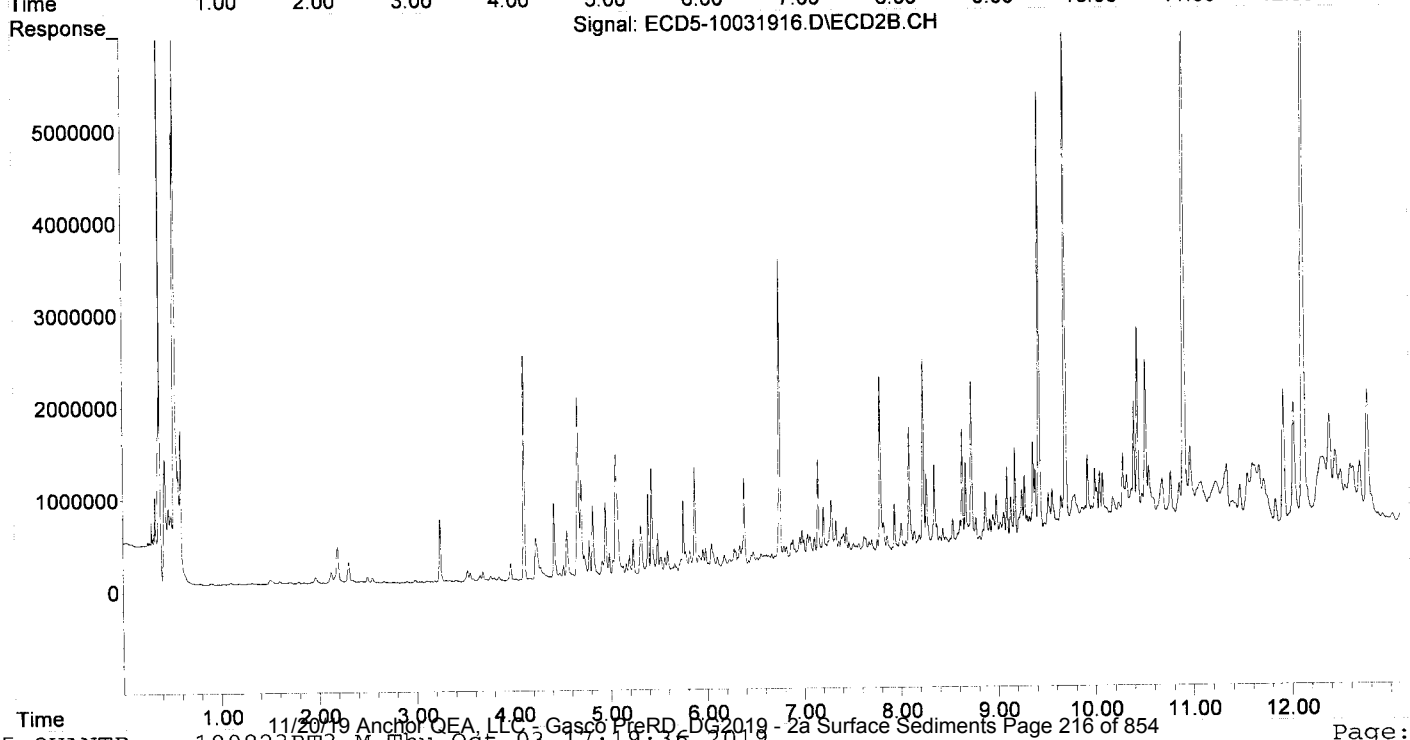
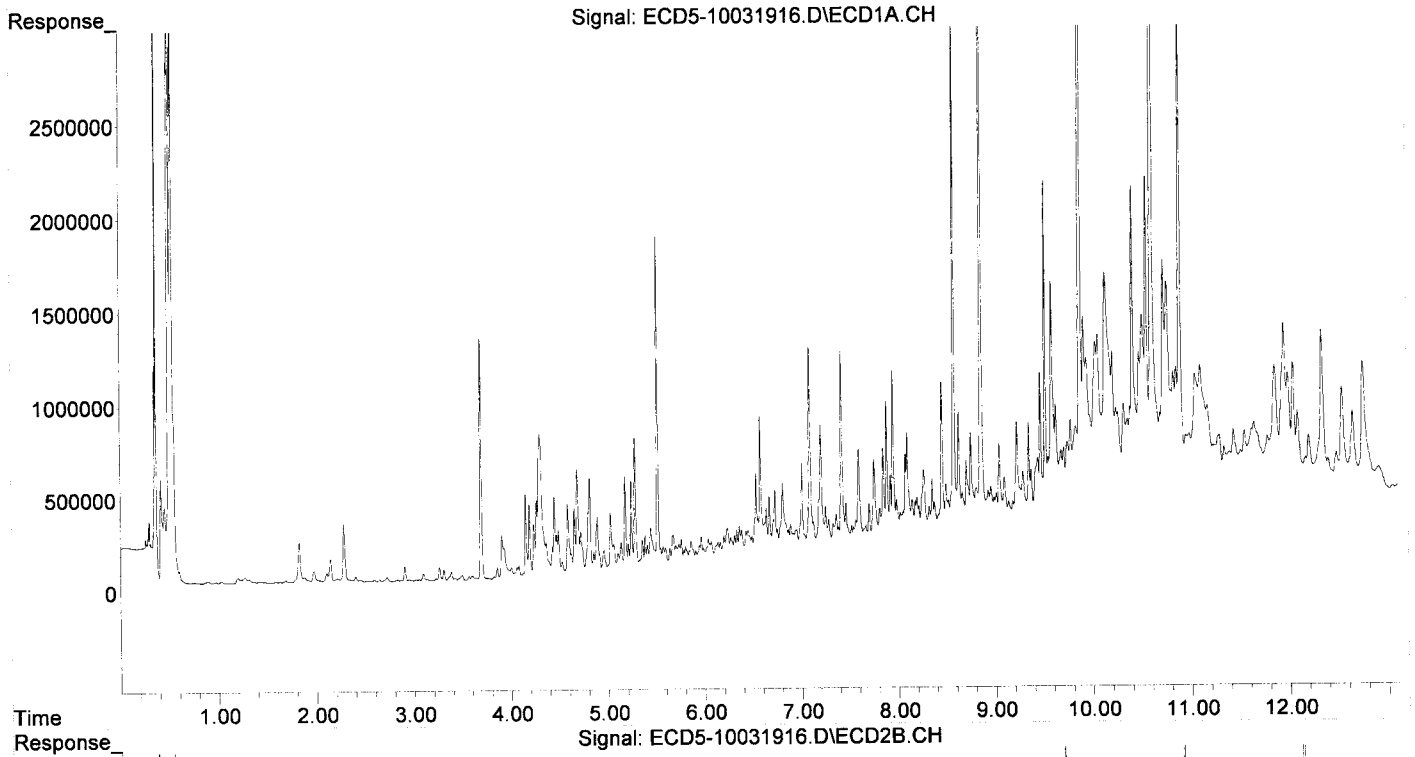
(ML)
NWB
10/3/19

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.280	5.874	668933	1102909	4.030	3.759
22) S DCBP (S)	9.467	10.400	801067	1488848	5.677	8.282 #
Target Compounds						
2) a-BHC	5.800f	6.478	68315	144052	0.298	0.351
3) g-BHC	6.137f	6.795	71905	184075	0.356	0.516 #
4) b-BHC	6.198	6.873	105052	218687	1.162	1.382
5) Heptachlor	6.532	7.151f	420781	1093050	2.321	3.572 #
6) d-BHC	6.332	7.110	128576	256143	0.654	0.726
7) Aldrin	6.728f	7.441	319370	348927	1.618	1.059
8) Heptachlo...	7.203	7.863	648061	219913	3.519	0.731 #
9) trans-Chl...	7.328	8.011	109385	344975	0.592	1.101 #
10) cis-Chlor...	7.418	8.145f	1035040	249065	5.685	0.855 #
11) Endosulfa...	7.519	8.145f	90083	249065	0.529	0.905 #
12) 4,4'-DDE	7.462	8.237	211238	2145628	1.120	6.906 #
13) Dieldrin	7.667	8.375	85225	305338	0.444	1.004 #
14) Endrin	7.848	8.591	491377	192578	3.342	0.853 #
15) 4,4'-DDD	7.883	8.639	736623	1312533	4.688	5.123
16) Endosulfa...	7.987	8.735	203226	1872967	1.415	8.122 #
17) 4,4'-DDT	8.096	8.874	557687	612969	4.664	3.514
18) Endrin Al...	8.267	8.989	349681	588777	1.980	2.368
19) Endosulfa...	8.578	9.180	2841548	1068865	18.335	4.291 #
20) Methoxychlor	8.454f	9.330	805830	321353	13.757	3.776 #
21) Endrin Ke...	8.752f	9.560	524625	599994	3.146	2.332
23) Hexachlor...	3.093	3.584	38746	31141	0.212	0.083 #
24) Hexachlor...	5.672	6.339	136546	222475	0.775	0.708
25) Oxychlordane	0.000	7.792	0	1943111	N.D.	7.094 #
26) 2,4'-DDE	7.203	8.011	648061	344975	5.053	1.626 #
27) trans-Non...	7.385	8.093	91739	1387199	0.196	4.599 #
28) 2,4'-DDD	7.596	8.375	496681	305338	4.352	1.617 #
29) 2,4'-DDT	7.755	8.617	432621	332369	3.944	1.864 #
30) cis-Nonac...	7.883	8.639	736623	1312533	3.548	3.913
31) Mirex	8.495f	9.560	264998	599994	2.114	3.225 #
32) Chlordane...	7.861	8.057	157553	152836	8.002	4.224 #
33) Chlordane...	7.462	8.197f	211238	206508	8.428	6.801
34) Chlordane...	7.987	8.818	203226	138752	35.153	15.476 #
35) Chlordane...	8.380	3.362	44570	11893	NoCal	NoCal
36) Toxaphene...	7.418	8.406	1035040	172315	1155.634	65.662 #
37) Toxaphene...	7.702f	8.735	198517	1872967	122.925	569.113 #
38) Toxaphene...	8.024	8.779	134921	343819	40.066	67.837 #
39) Toxaphene...	8.267	8.851	349681	210839	107.921	25.251 #
40) Toxaphene...	8.495	9.029	264998	280782	110.547	60.249 #
41) Toxaphene...	8.578	9.388	2841548	830581	897.922	174.852 #
42) Toxaphene...	3.380	3.362	44570	11893	NoCal	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Data Path : R:\data\2019-10\9J03031\
Data File : ECD5-10031916.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Oct 2019 16:03
Operator : MJB
Sample : A9I0771-02RE1@10
Misc : 10x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 03 17:19:35 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-10\9J03031\
 Data File : ECD5-10031919.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 03 Oct 2019 16:55
 Operator : MJB
 Sample : A9I0771-03RE10
 Misc : 10x, 8081B 2,4,4,4-DDx Only, GPC
 ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Oct 03 17:54:06 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

WF
10/31/19

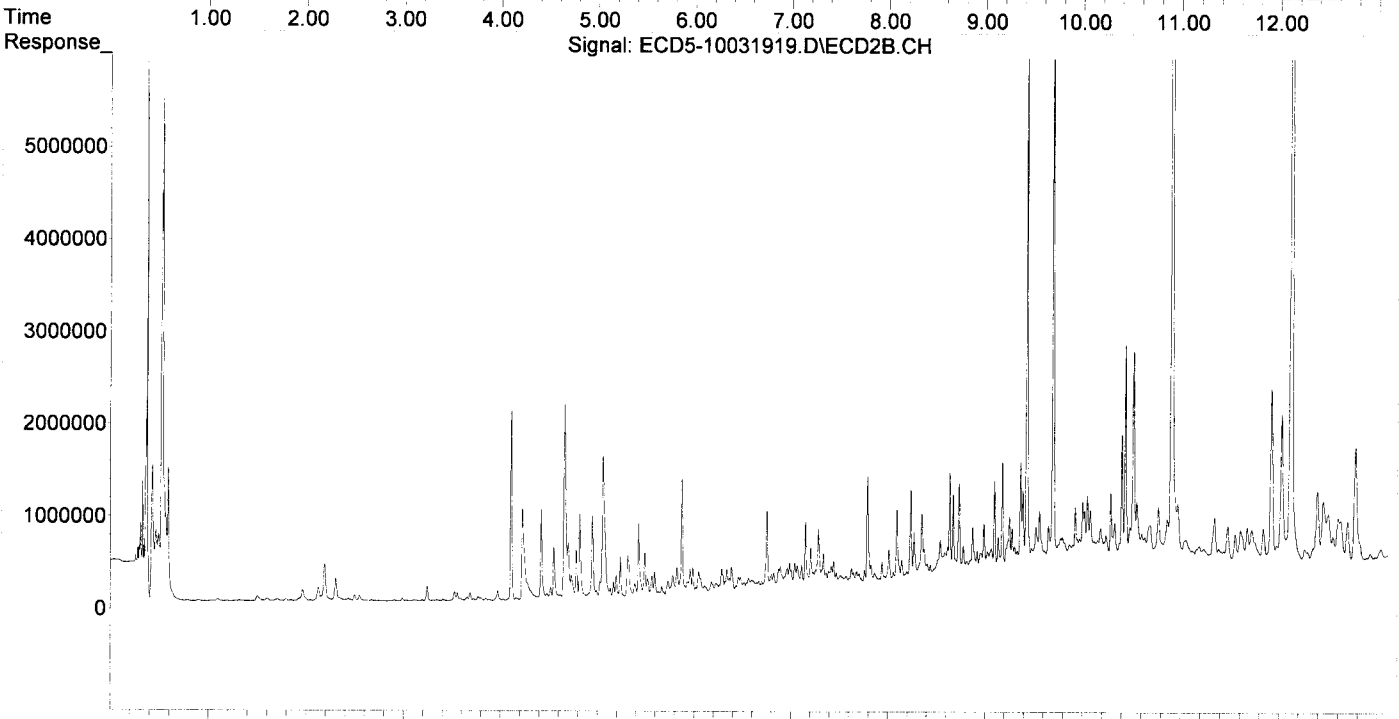
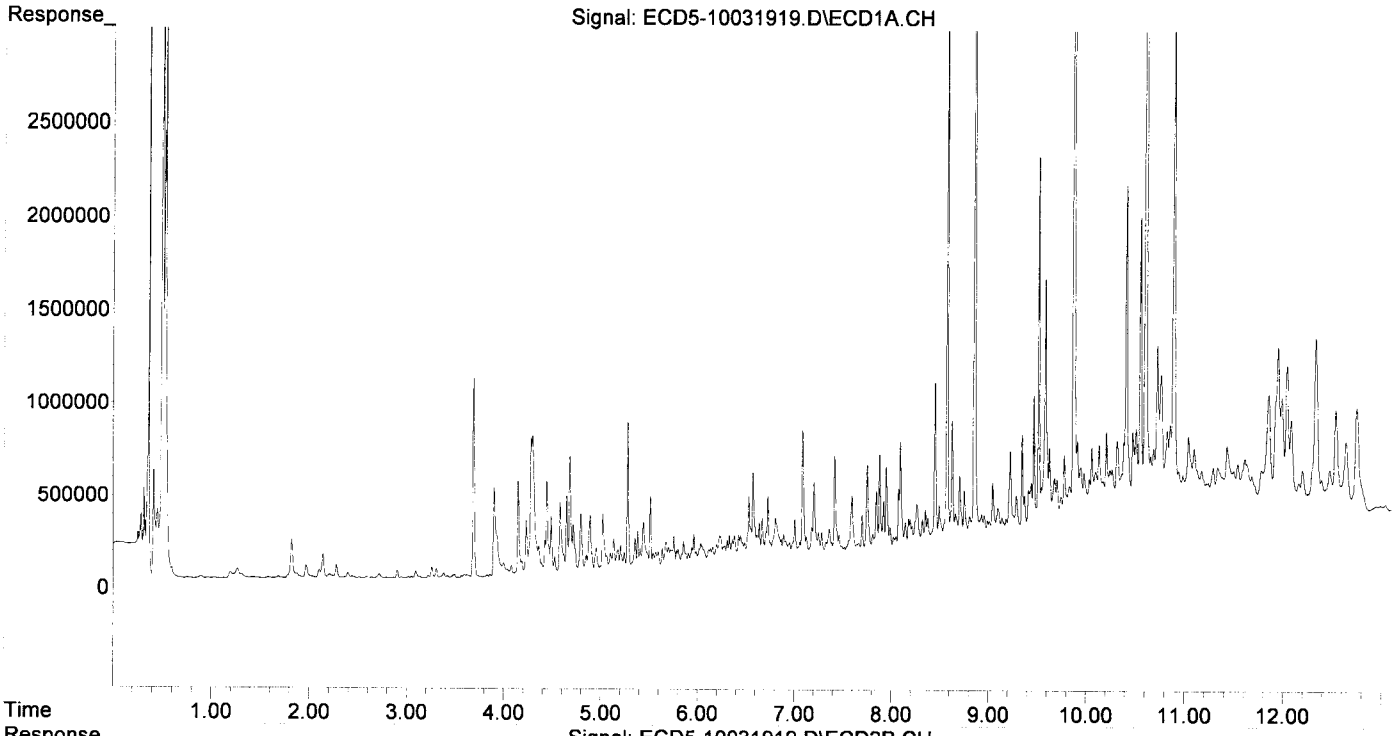
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.280	5.874	809332	1231426	4.876	4.198
22) S DCBP (S)	9.467	10.401	901022	1474869	6.386	8.205
Target Compounds						
2) a-BHC	5.798f	6.477	124536	135984	0.543	0.331
3) g-BHC	6.135f	6.796	122883	156317	0.609	0.438
4) b-BHC	6.197	6.873	144175	204408	1.595	1.292
5) Heptachlor	6.531	7.151f	394676	695430	2.177	2.273
6) d-BHC	6.330	7.109	189517	237245	0.964	0.673
7) Aldrin	6.727f	7.441	396825	261602	2.010	0.794 #
8) Heptachlo...	7.204	7.863	460608	110298	2.501	0.367 #
9) trans-Chl...	7.283f	8.012	194983	356072	1.055	1.136
10) cis-Chlor...	7.418	8.143f	602812	234289	3.311	0.804 #
11) Endosulfa...	7.519	8.196f	114426	113196	0.672	0.411
12) 4,4'-DDE	7.462	8.238	179317	989044	0.951	3.184 # ^{R-1}
13) Dieldrin	7.667	8.376	131614	347533	0.686	1.143 #
14) Endrin	7.849	8.590	407294	295373	2.770	1.308 #
15) 4,4'-DDD	7.883	8.639	603916	1158122	3.843	4.520
16) Endosulfa...	7.988	8.735	215440	1038559	1.500	4.504 #
17) 4,4'-DDT	8.090	8.874	517297	550421	4.327m	3.154 -R-02
18) Endrin Al...	8.267	8.990	331080	582438	1.820	2.333
19) Endosulfa...	8.578	9.180	3117877	1247330	20.118	5.008 #
20) Methoxychlor	8.453f	9.331	975658	273645	16.657	3.192 #
21) Endrin Ke...	8.753f	9.559	398306	693188	2.389	2.694
23) Hexachlor...	3.093	3.583	35916	27871	0.197	0.074 #
24) Hexachlor...	5.674	6.337	165476	229589	0.939	0.731
25) Oxychlorane	0.000	7.792	0	1155731	N.D.	4.219 #
26) 2,4'-DDE	7.204	8.012	460608	356072	3.591	1.678 # ^{MDL=MRL}
27) trans-Non...	7.418f	8.094	602812	781274	3.048	2.590
28) 2,4'-DDD	7.595	8.376	385511	347533	3.378	1.840 # ^{MDL=MRL}
29) 2,4'-DDT	7.755	8.617	550478	352309	5.019	1.976 # ^{MDL=MRL}
30) cis-Nonac...	7.883	8.639	603916	1158122	2.909	3.452
31) Mirex	8.495f	9.559	324220	693188	2.586	3.725 #
32) Chlordane...	7.362	8.056	211787	112898	10.756	3.120 #
33) Chlordane...	7.462	8.196f	179317	113196	7.154	3.728 #
34) Chlordane...	7.988	8.813	215440	188482	37.266	21.022 #
35) Chlordane...	3.380	3.341f	25892	14019	NoCal	NoCal
36) Toxaphene...	7.418	8.404	602812	178990	673.046	68.206 #
37) Toxaphene...	7.701f	8.735	283960	1038559	175.833	315.573 #
38) Toxaphene...	8.051	8.778	163277	357000	48.486	70.438 #
39) Toxaphene...	8.267	8.874f	331080	550421	102.180	65.920
40) Toxaphene...	8.495	9.028	324220	282673	135.253	60.655 #
41) Toxaphene...	8.578	9.389	3117877	924058	985.241	194.530 #
42) Toxaphene...	3.380	3.341f	25892	14019	NoCal	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-10\9J03031\
Data File : ECD5-10031919.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Oct 2019 16:55
Operator : MJB
Sample : A9I0771-03RE1@10
Misc : 10x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

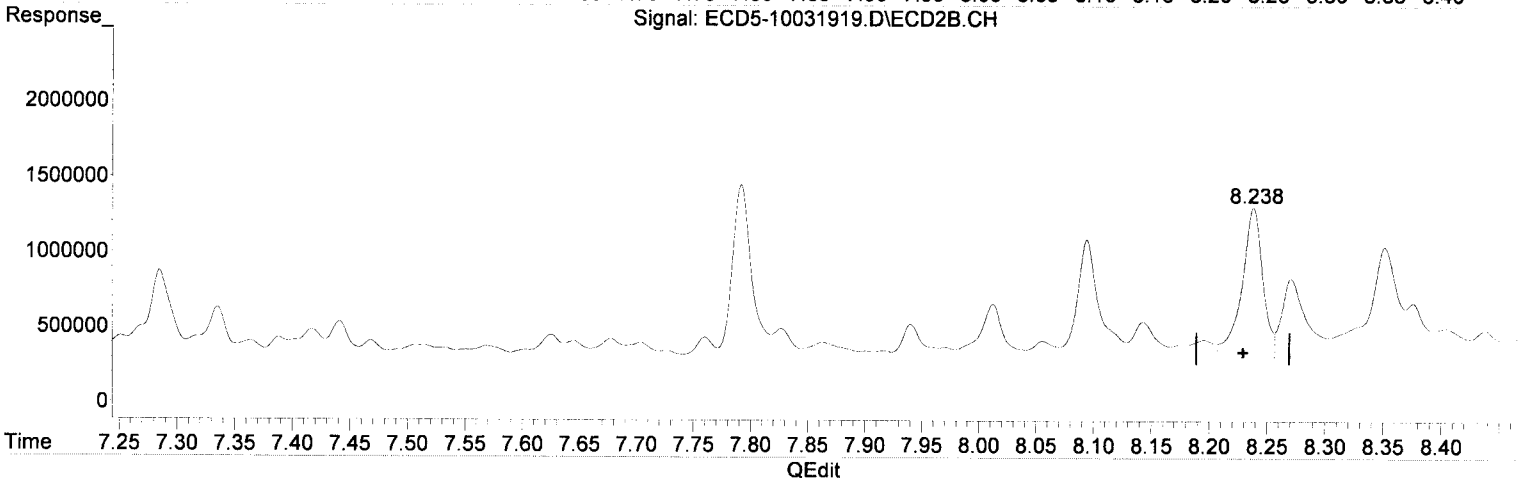
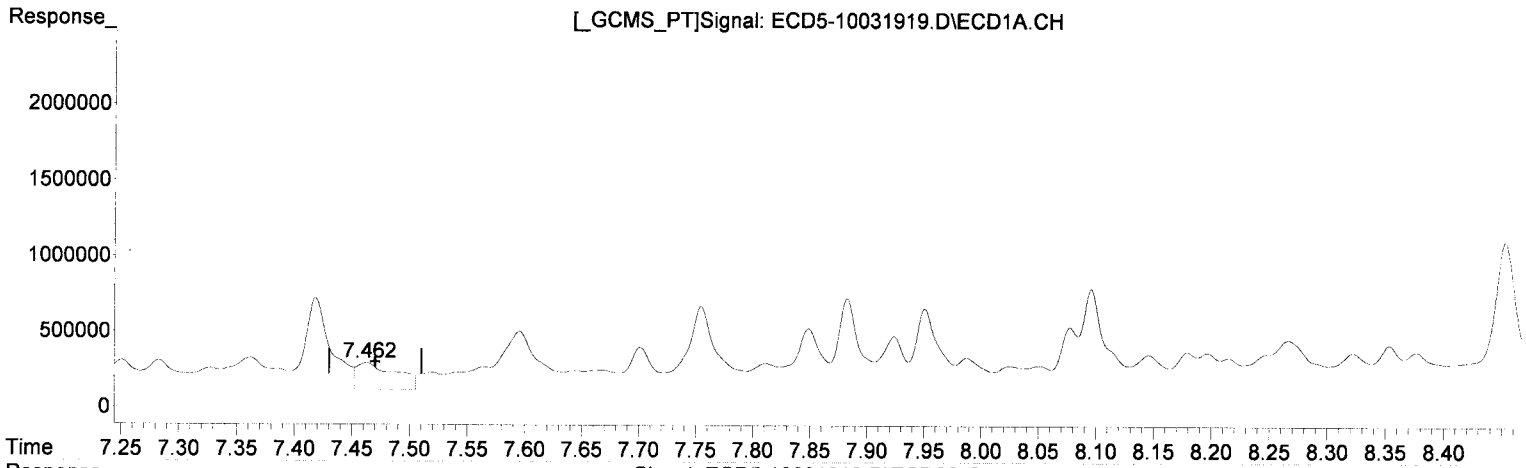
Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 03 17:54:06 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J03031\
Data File : ECD5-10031919.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Oct 2019 16:55
Operator : MJB
Sample : A9I0771-03RE1@10
Misc : 10x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 03 17:19:42 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(12) 4,4'-DDE
7.462min 0.951 ng/mL
response 179317

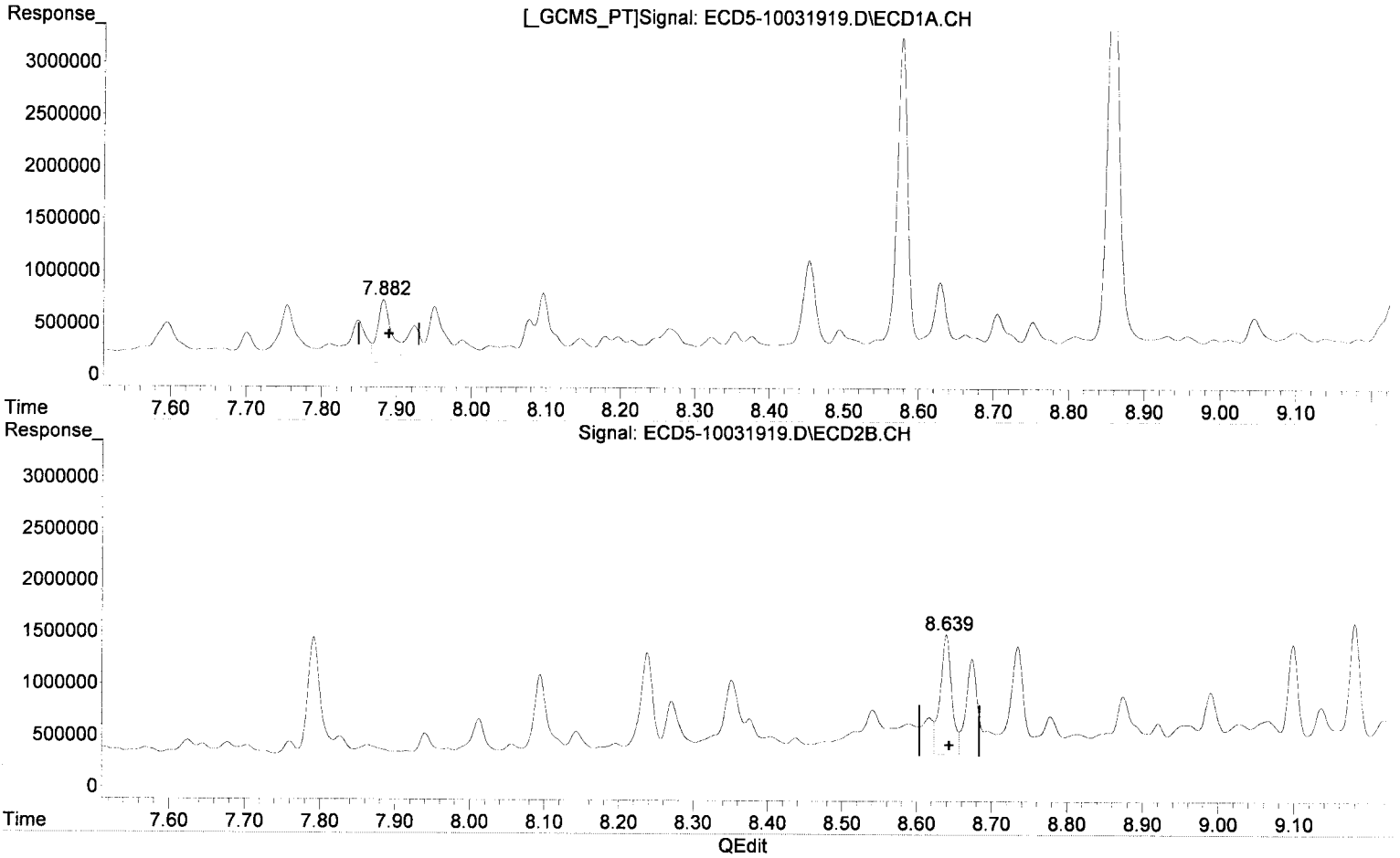
MJB
10/3/19

(12) 4,4'-DDE #2
8.238min 3.184 ng/mL *3.51*
response 989044

Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J03031\
Data File : ECD5-10031919.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Oct 2019 16:55
Operator : MJB
Sample : A9I0771-03RE1@10
Misc : 10x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 03 17:19:42 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(15) 4,4'-DDD
7.883min 3.843 ng/mL
response 603916

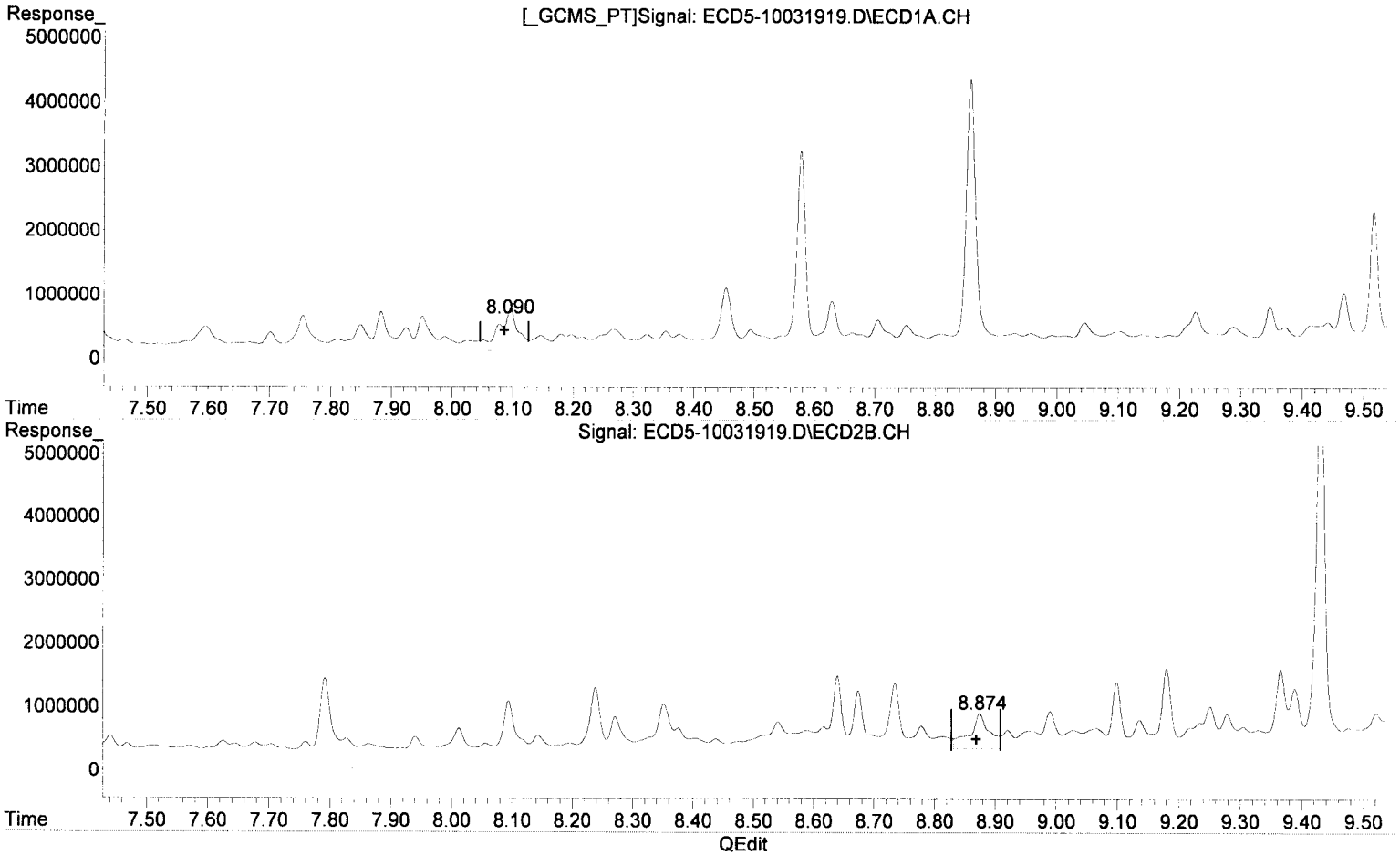
MJB
10/3/19

(15) 4,4'-DDD #2
8.639min 4.520 ng/mL
response 1158122

Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J03031\
Data File : ECD5-10031919.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Oct 2019 16:55
Operator : MJB
Sample : A9I0771-03RE1@10
Misc : 10x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 03 17:19:42 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(17) 4,4'-DDT
8.090min 4.327 ng/mL (+)
response 517297

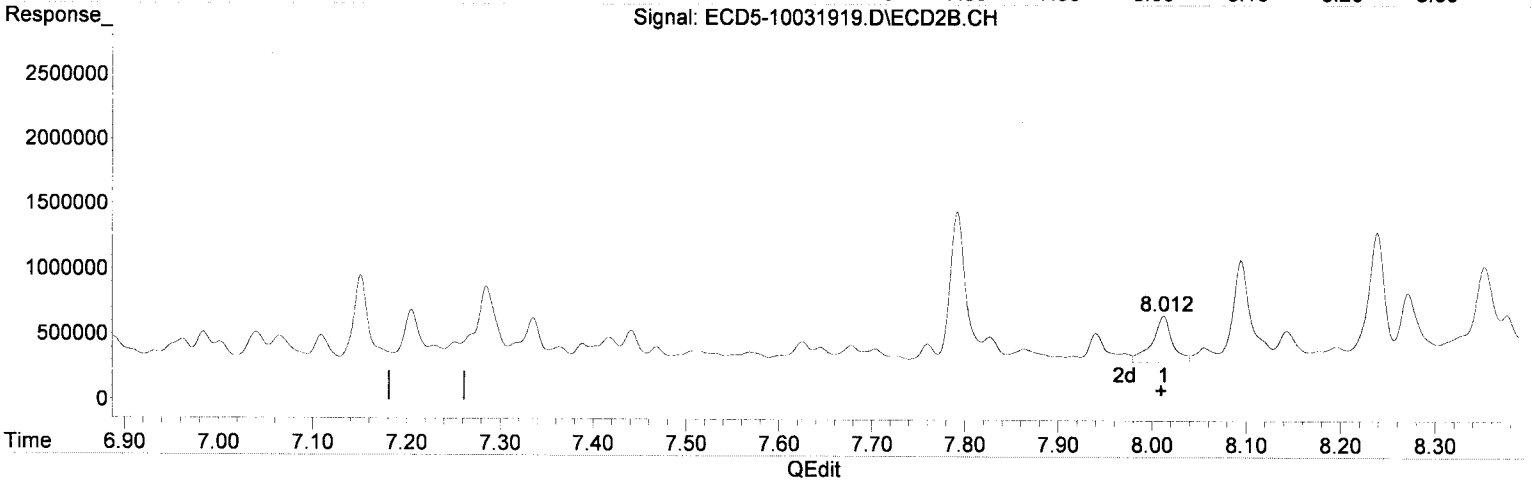
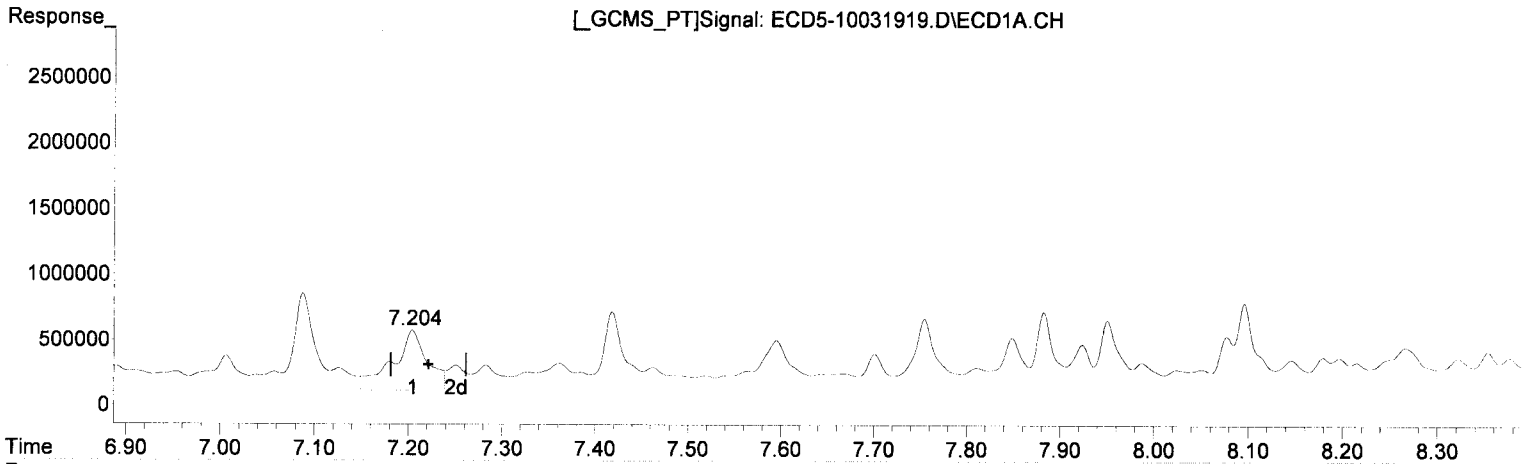
MJB 10/31/19

(17) 4,4'-DDT #2
8.874min 3.154 ng/mL *P.02*
response 550421

Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J03031\
Data File : ECD5-10031919.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Oct 2019 16:55
Operator : MJB
Sample : A9I0771-03RE1@10
Misc : 10x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 03 17:19:42 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(26) 2,4'-DDE
7.204min 3.591 ng/mL
response 460608

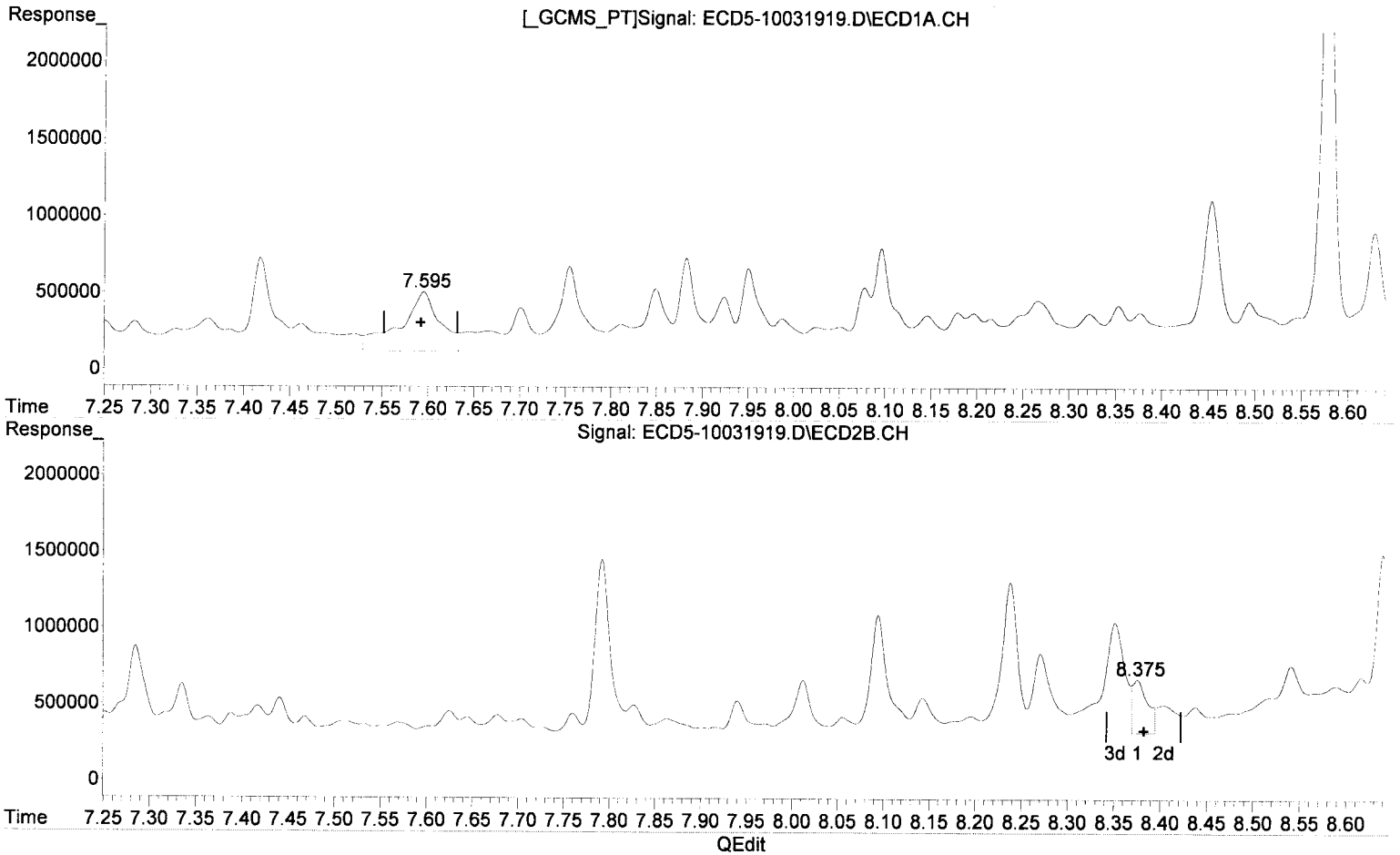
MJB 10/3/19

(26) 2,4'-DDE #2
8.012min 1.678 ng/mL *NOL: MJB*
response 356072

Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J03031\
Data File : ECD5-10031919.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Oct 2019 16:55
Operator : MJB
Sample : A9I0771-03RE1@10
Misc : 10x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 03 17:19:42 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(28) 2,4'-DDD
7.595min 3.378 ng/mL
response 385511

WB 10/3/19

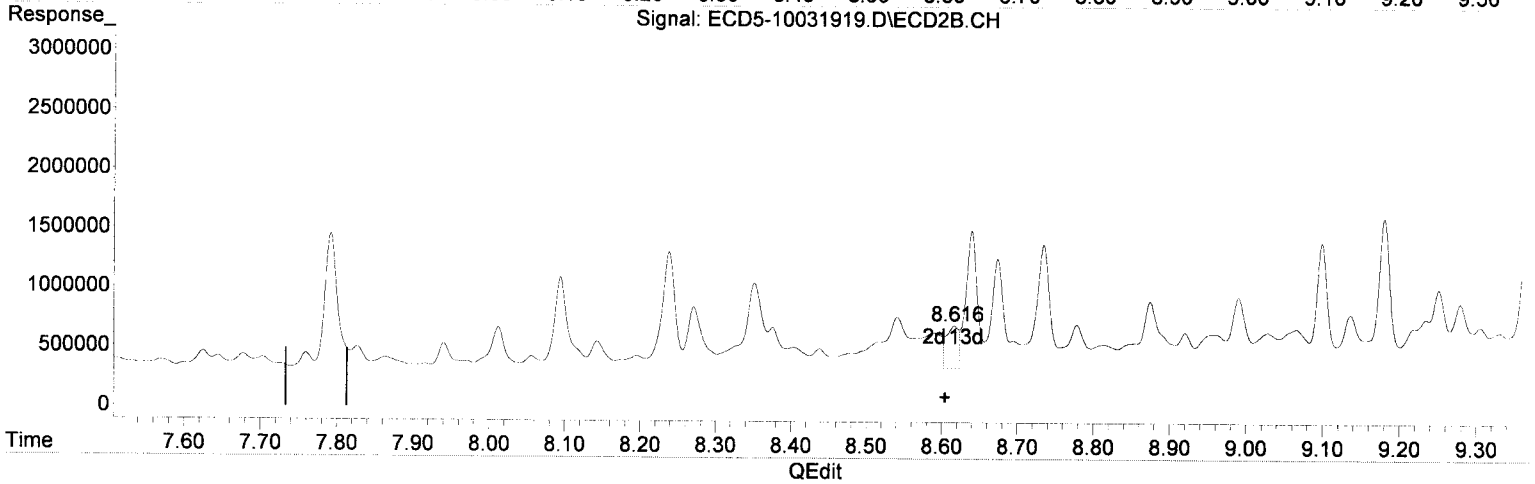
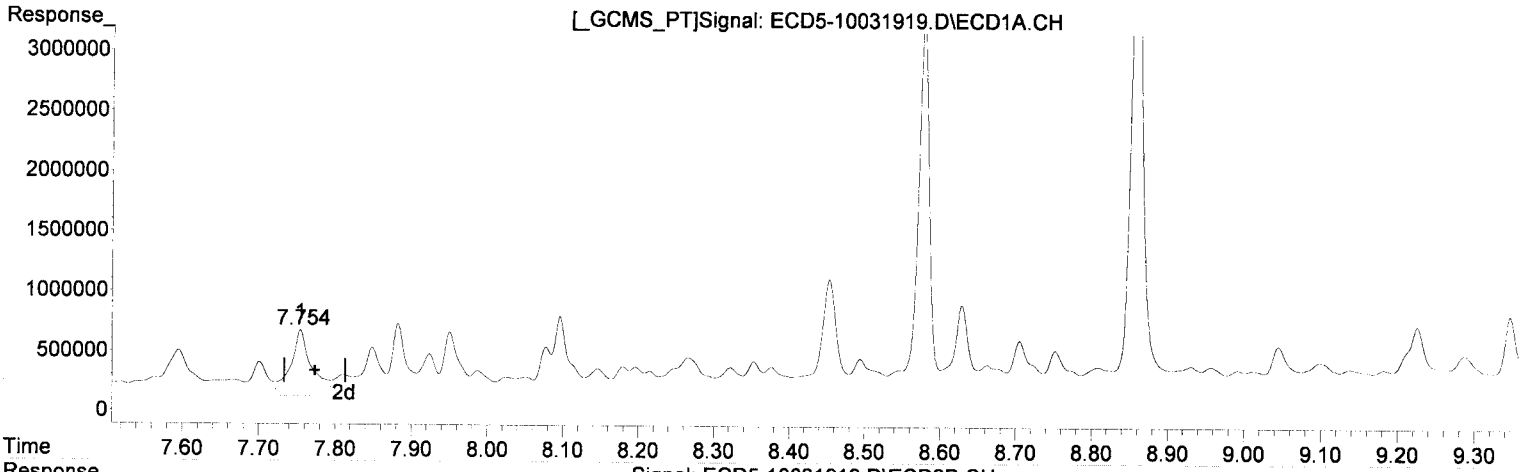
(28) 2,4'-DDD #2
8.376min 1.840 ng/mL
response 347533

MDL: MK

Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J03031\
Data File : ECD5-10031919.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Oct 2019 16:55
Operator : MJB
Sample : A9I0771-03RE1@10
Misc : 10x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 03 17:19:42 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(29) 2,4'-DDT
7.755min 5.019 ng/mL
response 550478

MJB
10/3/19

(29) 2,4'-DDT #2
8.617min 1.976 ng/mL *MJB-MJB*
response 352309

Data Path : R:\data\2019-10\9J03031\
 Data File : ECD5-10031919.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 03 Oct 2019 16:55
 Operator : MJB
 Sample : A9I0771-03RE1@10
 Misc : 10x, 8081B 2,4+4,4-DDx Only, GPC
 ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Oct 03 17:19:42 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

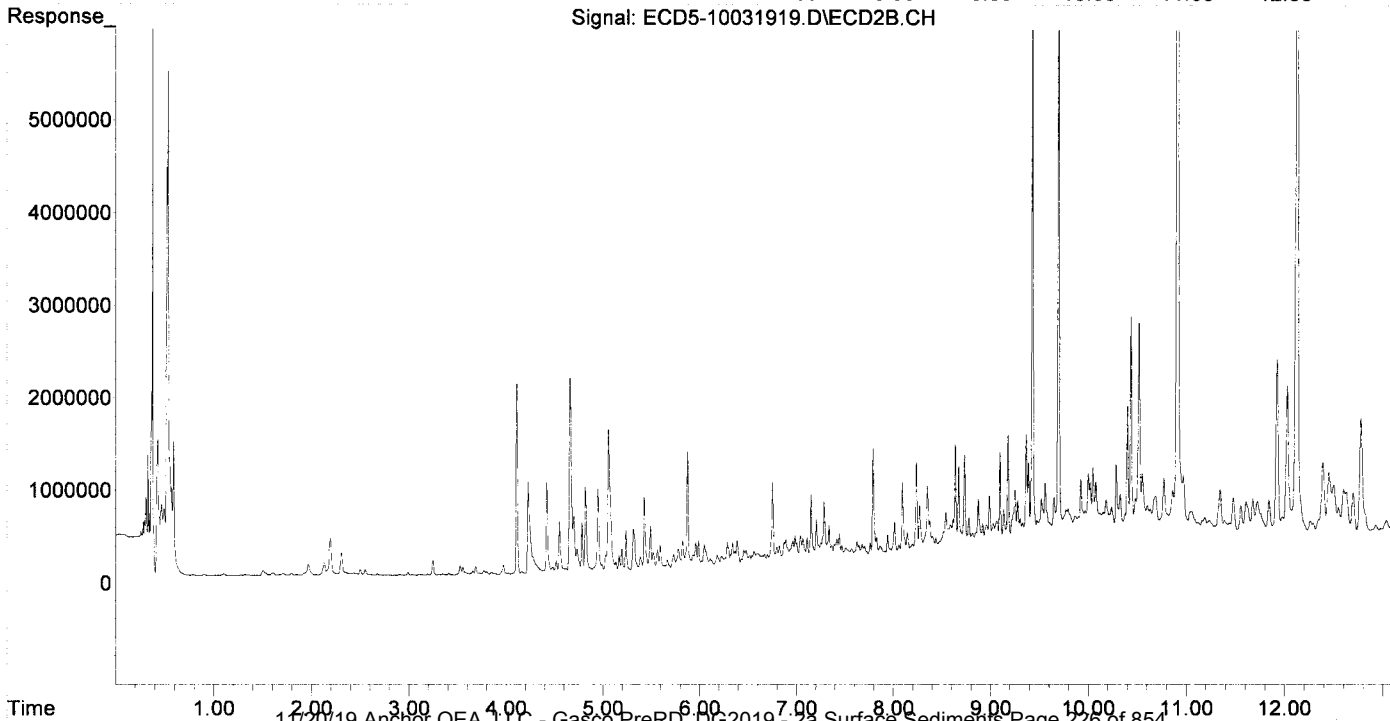
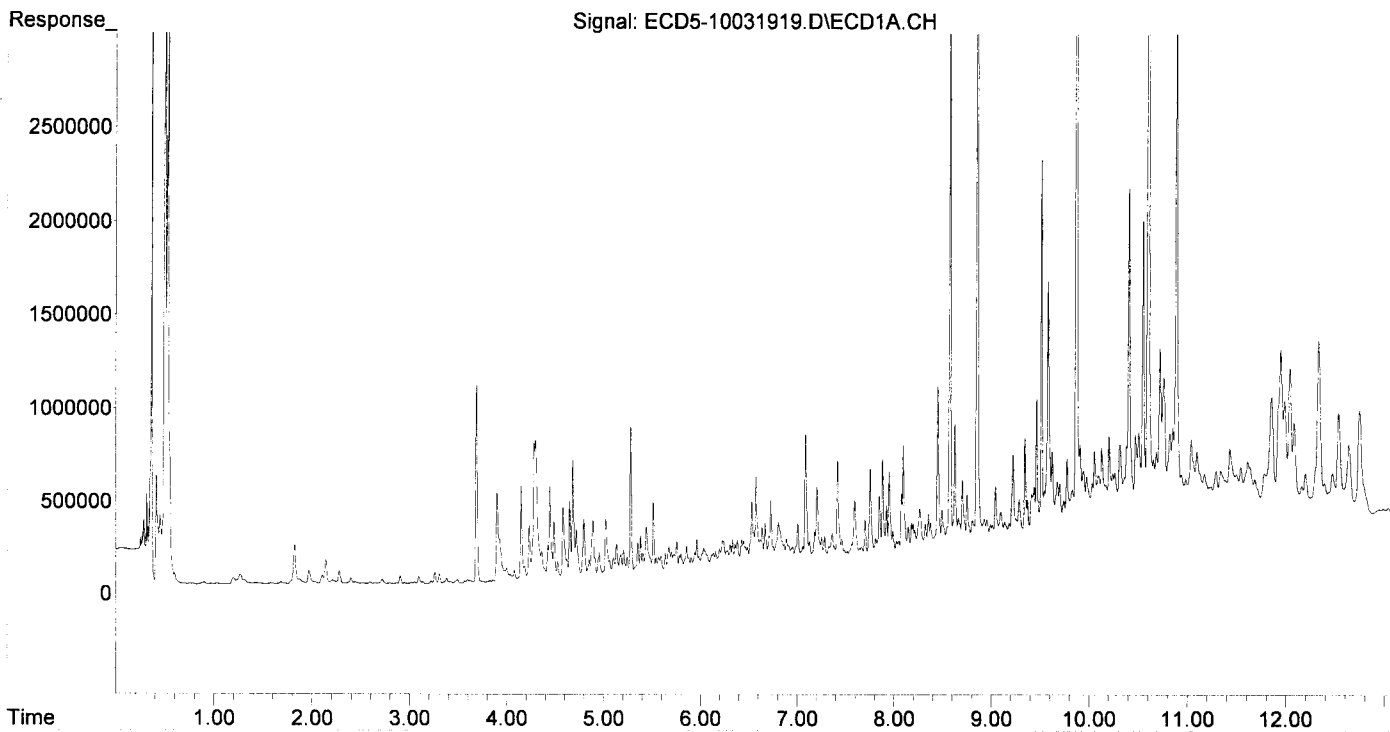
MJB
10/3/19

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.280	5.874	809332	1231426	4.876	4.198
22) S DCBP (S)	9.467	10.401	901022	1474869	6.386	8.205
Target Compounds						
2) a-BHC	5.798f	6.477	124536	135984	0.543	0.331
3) g-BHC	6.135f	6.796	122883	156317	0.609	0.438
4) b-BHC	6.197	6.873	144175	204408	1.595	1.292
5) Heptachlor	6.531	7.151f	394676	695430	2.177	2.273
6) d-BHC	6.330	7.109	189517	237245	0.964	0.673
7) Aldrin	6.727f	7.441	396825	261602	2.010	0.794 #
8) Heptachlo...	7.204	7.863	460608	110298	2.501	0.367 #
9) trans-Chl...	7.283f	8.012	194983	356072	1.055	1.136
10) cis-Chlor...	7.418	8.143f	602812	234289	3.311	0.804 #
11) Endosulfa...	7.519	8.196f	114426	113196	0.672	0.411
12) 4,4'-DDE	7.462	8.238	179317	989044	0.951	3.184 #
13) Dieldrin	7.667	8.376	131614	347533	0.686	1.143 #
14) Endrin	7.849	8.590	407294	295373	2.770	1.308 #
15) 4,4'-DDD	7.883	8.639	603916	1158122	3.843	4.520
16) Endosulfa...	7.988	8.735	215440	1038559	1.500	4.504 #
17) 4,4'-DDT	8.096	8.874	666590	550421	5.575	3.154 #
18) Endrin Al...	8.267	8.990	331080	582438	1.820	2.333
19) Endosulfa...	8.578	9.180	3117877	1247330	20.118	5.008 #
20) Methoxychlor	8.453f	9.331	975658	273645	16.657	3.192 #
21) Endrin Ke...	8.753f	9.559	398306	693188	2.389	2.694
23) Hexachlor...	3.093	3.583	35916	27871	0.197	0.074 #
24) Hexachlor...	5.674	6.337	165476	229589	0.939	0.731
25) Oxychlorane	0.000	7.792	0	1155731	N.D.	4.219 #
26) 2,4'-DDE	7.204	8.012	460608	356072	3.591	1.678 #
27) trans-Non...	7.418f	8.094	602812	781274	3.048	2.590
28) 2,4'-DDD	7.595	8.376	385511	347533	3.378	1.840 #
29) 2,4'-DDT	7.755	8.617	550478	352309	5.019	1.976 #
30) cis-Nonac...	7.883	8.639	603916	1158122	2.909	3.452
31) Mirex	8.495f	9.559	324220	693188	2.586	3.725 #
32) Chlordane...	7.362	8.056	211787	112898	10.756	3.120 #
33) Chlordane...	7.462	8.196f	179317	113196	7.154	3.728 #
34) Chlordane...	7.988	8.813	215440	188482	37.266	21.022 #
35) Chlordane...	3.380	3.341f	25892	14019	NoCal	NoCal
36) Toxaphene...	7.418	8.404	602812	178990	673.046	68.206 #
37) Toxaphene...	7.701f	8.735	283960	1038559	175.833	315.573 #
38) Toxaphene...	8.051	8.778	163277	357000	48.486	70.438 #
39) Toxaphene...	8.267	8.874f	331080	550421	102.180	65.920
40) Toxaphene...	8.495	9.028	324220	282673	135.253	60.655 #
41) Toxaphene...	8.578	9.389	3117877	924058	985.241	194.530 #
42) Toxaphene...	3.380	3.341f	25892	14019	NoCal	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Data Path : R:\data\2019-10\9J03031\
Data File : ECD5-10031919.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Oct 2019 16:55
Operator : MJB
Sample : A9I0771-03RE1@10
Misc : 10x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 03 17:19:42 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : R:\data\2019-10\9J03031\
 Data File : ECD5-10031922.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 03 Oct 2019 17:46
 Operator : MJB
 Sample : 9J03031-CCV3
 Misc : A19H384, AB 100 ppb
 ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Oct 03 18:07:48 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB
10/3/19

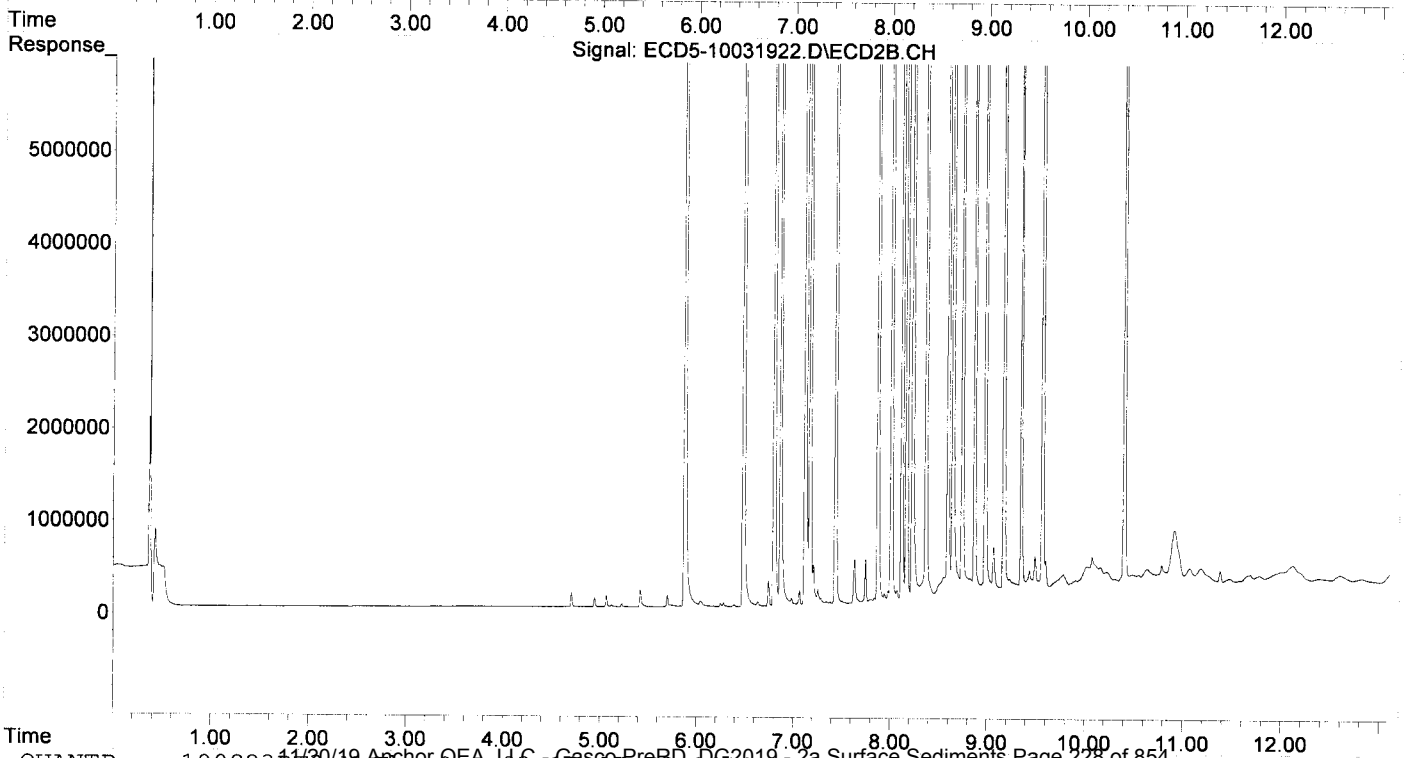
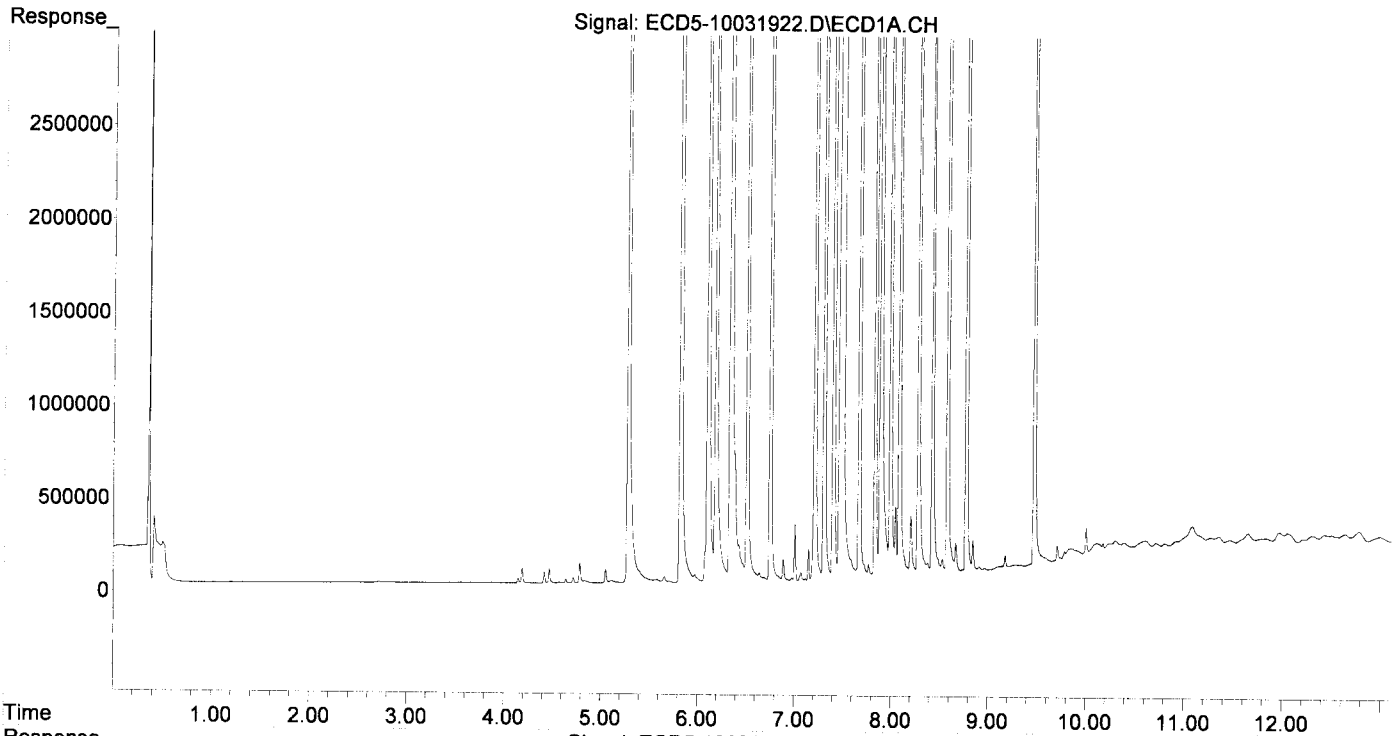
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.280	5.874	15392047	27624794	92.737	94.165
22) S DCBP (S)	9.471	10.402	12767396	18245868	90.486	101.500
Target Compounds						
2) a-BHC	5.821	6.482	21946476	42470781	95.699	103.502
3) g-BHC	6.105	6.800	18406565	36853728	91.222	103.317
4) b-BHC	6.185	6.866	6835199	14391830	75.624	90.934
5) Heptachlor	6.512	7.171	18687286	34137780	103.076	111.570
6) d-BHC	6.335	7.120	14854422	33831047	75.522	95.929
7) Aldrin	6.752	7.435	20301827	35717204	102.822	108.434
8) Heptachlo...	7.212	7.872	18203552	31221018	98.836	103.777
9) trans-Chl...	7.306	8.012	18470204	31106430	99.898	99.278
10) cis-Chlor...	7.403	8.119	17983092	30411507	98.770	104.418
11) Endosulfa...	7.500	8.169	17112468	28606368	100.555	103.956
12) 4,4'-DDE	7.469	8.229	15107660	30631987	80.134	98.597
13) Dieldrin	7.671	8.368	19562551	33847988	101.899	111.287
14) Endrin	7.835	8.594	14904326	24344027	101.371	107.799
15) 4,4'-DDD	7.889	8.643	12853161	25235836	81.794	98.495
16) Endosulfa...	7.992	8.742	14668492	24339333	102.140	105.545
17) 4,4'-DDT	8.084	8.868	11562378	20362620	96.708	99.640
18) Endrin Al...	8.281	8.978	13049908	21468791	103.699	103.817
19) Endosulfa...	8.581	9.168	15062835	25581163	97.194	102.700
20) Methoxychlor	8.425	9.348	5331477	9963961	91.021	101.023
21) Endrin Ke...	8.774	9.565	17175549	28544909	102.997	110.933
23) Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
24) Hexachlor...	5.658	0.000	29811	0	0.169	N.D. #
25) Oxychlorane	7.148	7.804	163516	29339	0.994	0.107 #
26) 2,4'-DDE	7.212	8.012	18203552	31106430	141.926	146.633
27) trans-Non...	7.403	8.070	17983092	113384	100.172	0.376 #
28) 2,4'-DDD	0.000	8.368	0	33847988	N.D.	179.219 #
29) 2,4'-DDT	7.770	8.594	65959	24344027	0.601	136.504 #
30) cis-Nonac...	7.889f	8.643	12853161	25235836	61.909	75.230
31) Mirex	8.530	9.565	69964	28544909	0.558	153.407 #
32) Chlordane...	0.000	8.070	0	113384	N.D.	3.133 #
33) Chlordane...	7.469	8.169	15107660	28606368	602.756	942.113 #
34) Chlordane...	7.992	8.818	14668492	212387	2537.309	23.688 #
35) Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36) Toxaphene...	7.403f	8.368f	17983092	33847988	20078.316	12898.117
37) Toxaphene...	0.000	8.742	0	24339333	N.D.	7395.669 #
38) Toxaphene...	8.047	8.818f	377740	212387	112.173	41.905 #
39) Toxaphene...	8.281	8.868	13049908	20362620	4027.560	2438.686
40) Toxaphene...	8.530f	9.063f	69964	544933	29.186	116.929 #
41) Toxaphene...	8.581	9.432f	15062835	272157	4759.817	57.294 #
42) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-10\9J03031\
Data File : ECD5-10031922.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Oct 2019 17:46
Operator : MJB
Sample : 9J03031-CCV3
Misc : A19H384, AB 100 ppb
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 03 18:07:48 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-10\9J03031\
 Data File : ECD5-10031923.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 03 Oct 2019 18:04
 Operator : MJB
 Sample : 9J03031-CCV4
 Misc : A19E155, 9-42 100 ppb
 ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Oct 03 18:20:26 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB
10/3/19

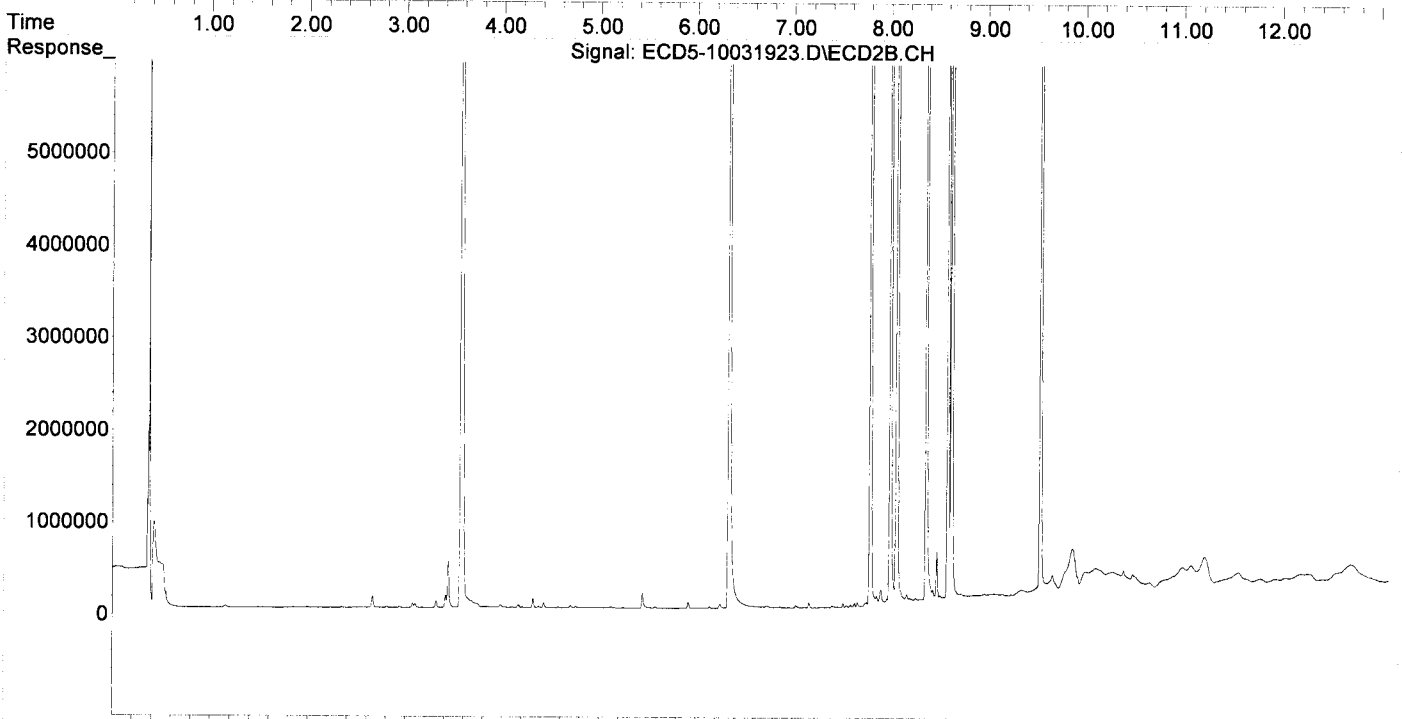
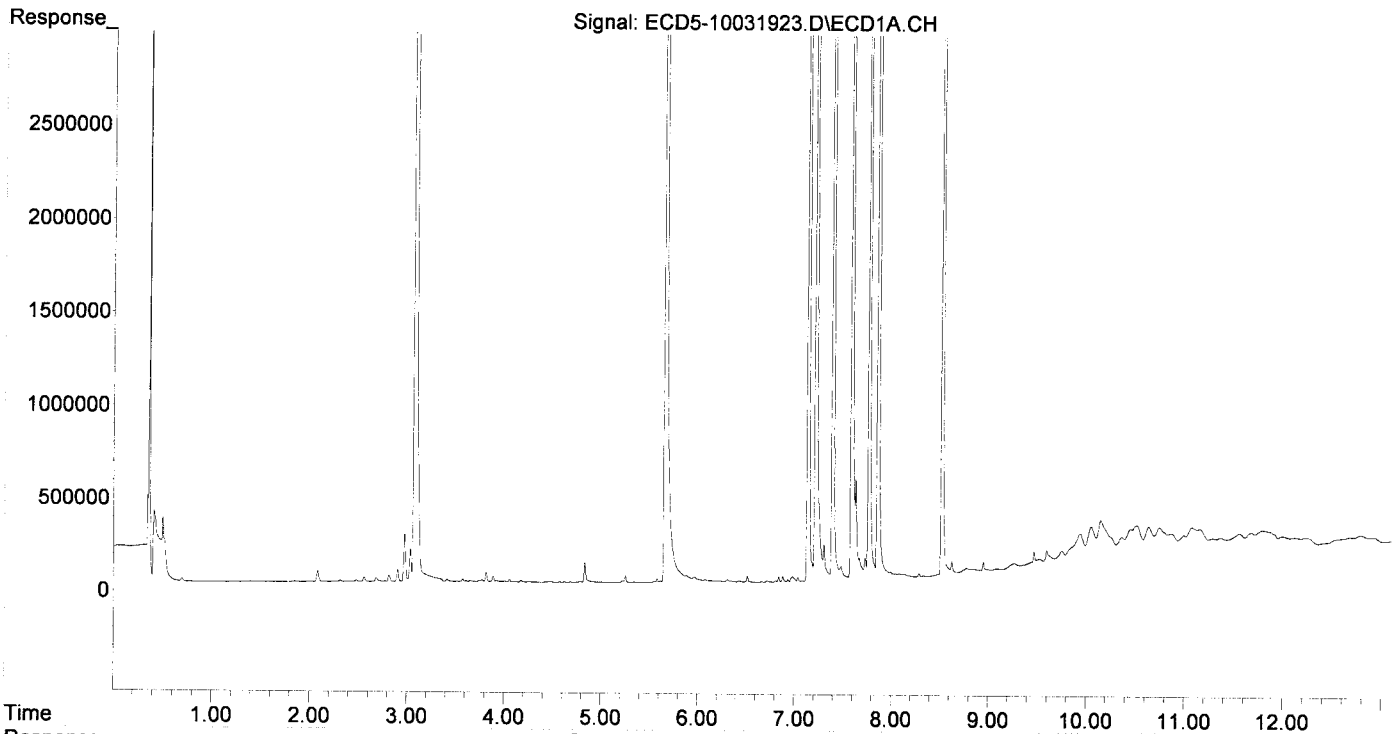
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
System Monitoring Compounds							
1) S TCMX (S)	5.254f	0.000	35901	0	0.216	N.D.	#
22) S DCBP (S)	9.471	10.401	87506	224009	0.620	1.246	#
Target Compounds							
2) a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3) g-BHC	6.080f	0.000	15125	0	0.075	N.D.	#
4) b-BHC	0.000	6.870	0	6773	N.D.	0.043	#
5) Heptachlor	6.515	7.171	33824	55771	0.187	0.182	
6) d-BHC	6.308f	7.122	13298	7264	0.068	0.021	#
7) Aldrin	6.719f	7.411f	7641	13895	0.039	0.042	
8) Heptachlo...	7.219	7.871	11446503	94696	62.149	0.315	#
9) trans-Chl...	7.306	8.007	191349	21269731	1.035	67.884	#
10) cis-Chlor...	7.395	0.000	19373424	0	106.406	N.D.	#
11) Endosulfa...	7.484	8.181	73345	83209	0.431	0.302	
12) 4,4'-DDE	7.484	8.206f	73345	37121	0.389	0.119	#
13) Dieldrin	7.634f	8.379	541296	19166203	2.820	63.016	#
14) Endrin	7.863f	8.601	22444306	19706783	152.654	87.265	#
15) 4,4'-DDD	7.863f	8.638	22444306	37323521	142.829	145.673	
16) Endosulfa...	0.000	8.740	0	31175	N.D.	0.135	#
17) 4,4'-DDT	0.000	8.867	0	7318	N.D.	0.004	#
18) Endrin Al...	8.289	8.979	16851	10989	BelowCal	BelowCal	
19) Endosulfa...	0.000	0.000	0	0	N.D.	N.D.	
20) Methoxychlor	0.000	9.360	0	57134	N.D.	0.523	#
21) Endrin Ke...	8.776	9.552	28980	20782774	0.174	80.768	#
23) Hexachlor...	3.080	3.572	20576220	44156129	112.599	117.458	
24) Hexachlor...	5.661	6.340	15802333	30540162	89.636	97.235	
25) Oxychlordane	7.140	7.802	16968345	30102754	103.127	109.903	
26) 2,4'-DDE	7.219	8.007	11446503	21269731	89.244	100.264	✓
27) trans-Non...	7.395	8.075	19373424	33628429	107.951	111.487	
28) 2,4'-DDD	7.589	8.379	10346254	19166203	90.657	101.482	✓
29) 2,4'-DDT	7.771	8.601	11427477	19706783	104.182	110.502	✓
30) cis-Nonac...	7.863	8.638	22444306	37323521	108.105	111.264	
31) Mirex	8.525	9.552	13314710	20782774	106.206	111.691	
32) Chlordane...	7.395f	8.075	19373424	33628429	983.941	929.358	
33) Chlordane...	7.484f	8.181	73345	83209	2.926	2.740	
34) Chlordane...	0.000	8.867f	0	7318	N.D.	0.816	#
35) Chlordane...	3.411f	0.000	12133	0	NoCal	N.D.	
36) Toxaphene...	7.395f	8.379f	19373424	19166203	21630.637	7303.475	#
37) Toxaphene...	7.735	8.740	112440	31175	69.625	9.473	#
38) Toxaphene...	0.000	8.740f	0	31175	N.D.	6.151	#
39) Toxaphene...	8.289	8.867	16851	7318	5.201	0.876	#
40) Toxaphene...	8.525	0.000	13314710	0	5554.410	N.D.	#
41) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	
42) Toxaphene...	3.411f	0.000	12133	0	NoCal	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-10\9J03031\
Data File : ECD5-10031923.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Oct 2019 18:04
Operator : MJB
Sample : 9J03031-CCV4
Misc : A19E155, 9-42 100 ppb
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 03 18:20:26 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : R:\data\2019-10\9J03031\
 Data File : ECD5-10031924.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 03 Oct 2019 18:21
 Operator : MJB
 Sample : 9J03031-CCB2
 Misc : A19I233
 ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Oct 03 18:38:03 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

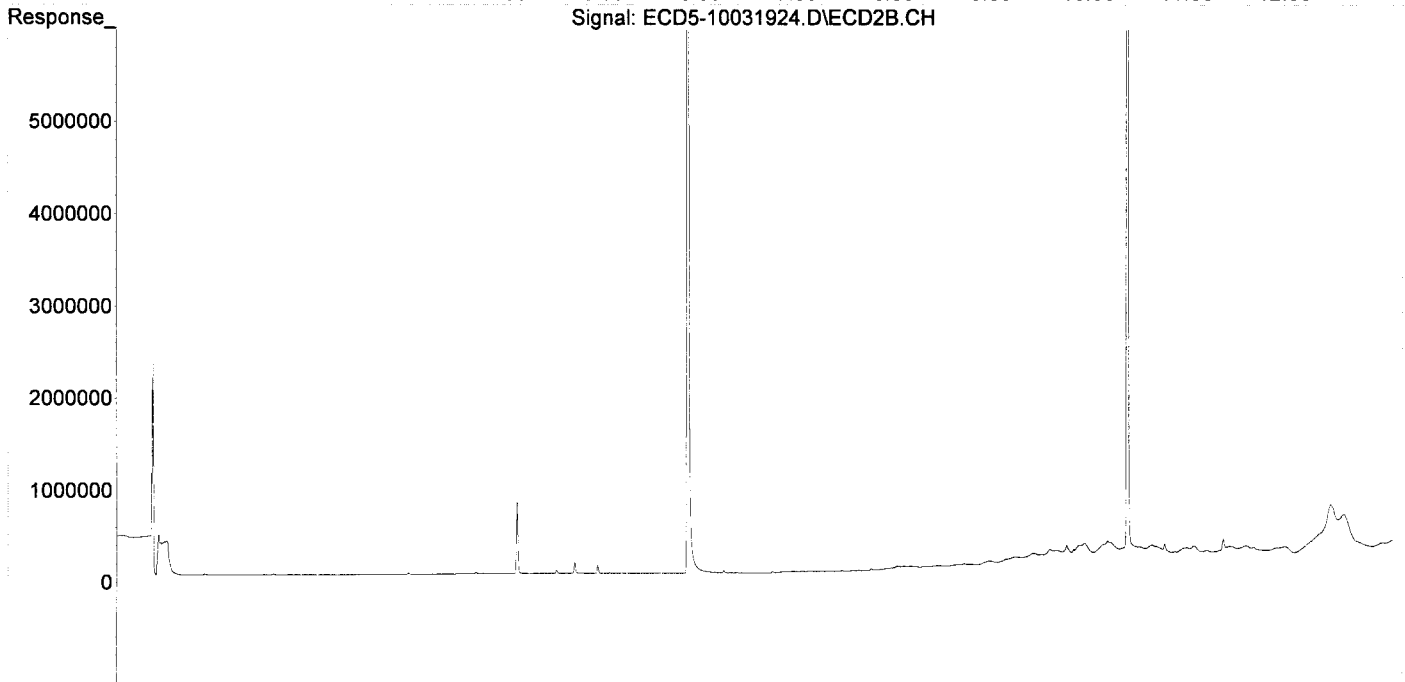
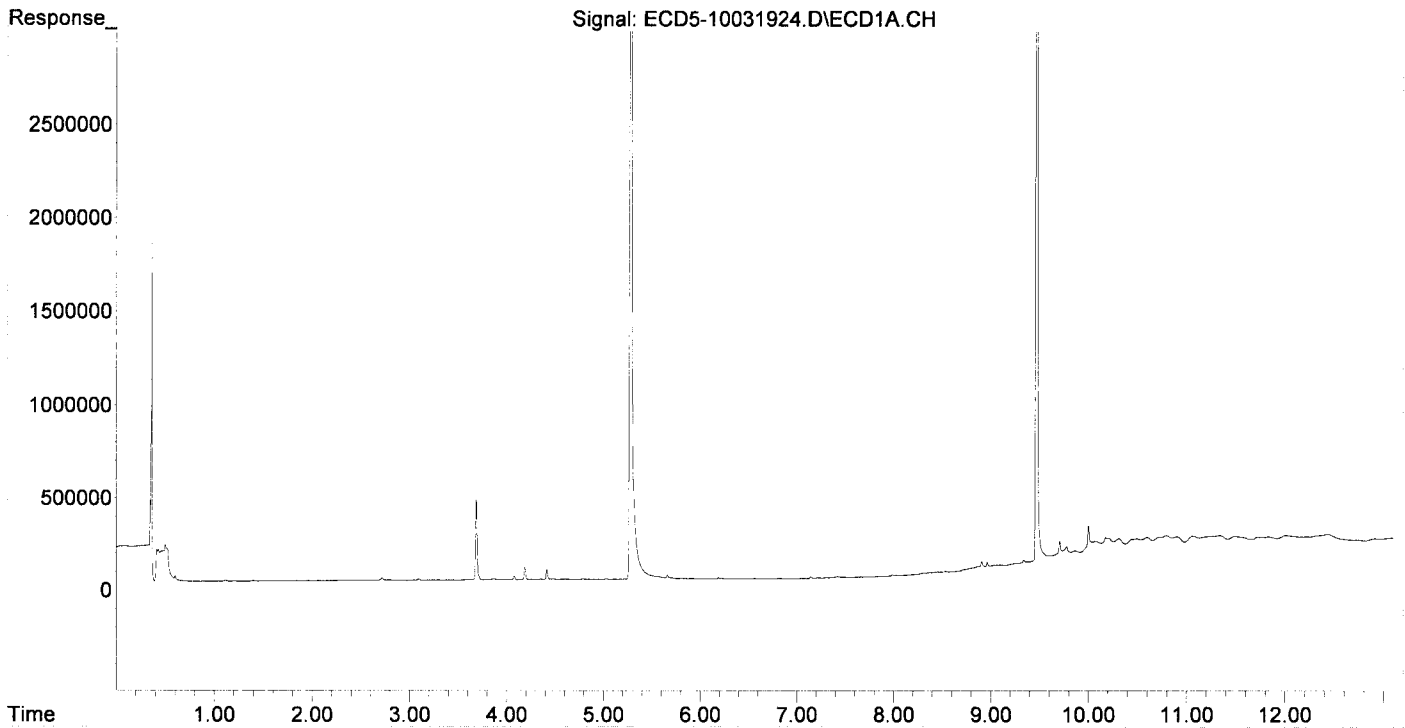
*MJB
10/3/19*

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.280	5.874	13614203	24059436	82.025	82.011
22) S DCBP (S)	9.471	10.402	11421832	16070591	80.949	89.399
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D.	N.D.
3) g-BHC	0.000	0.000	0	0	N.D.	N.D.
4) b-BHC	6.188	0.000	5365	0	0.059	N.D. #
5) Heptachlor	0.000	0.000	0	0	N.D.	N.D.
6) d-BHC	0.000	0.000	0	0	N.D.	N.D.
7) Aldrin	0.000	7.468f	0	5435	N.D.	0.016 #
8) Heptachlo...	7.215	0.000	3241	0	0.018	N.D. #
9) trans-Chl...	7.306	8.037f	3207	16466	0.017	0.053 #
10) cis-Chlor...	7.419	0.000	5481	0	0.030	N.D. #
11) Endosulfa...	0.000	8.168	0	2538	N.D.	0.009 #
12) 4,4'-DDE	0.000	0.000	0	0	N.D.	N.D.
13) Dieldrin	7.662	0.000	2414	0	0.013	N.D. #
14) Endrin	7.853	0.000	1143	0	0.008	N.D. #
15) 4,4'-DDD	7.853f	0.000	1143	0	0.007	N.D. #
16) Endosulfa...	7.988	8.729	6155	13457	0.043	0.058
17) 4,4'-DDT	0.000	0.000	0	0	N.D.	N.D.
18) Endrin Al...	8.317f	8.983	5125	26174	BelowCal	BelowCal
19) Endosulfa...	8.586	0.000	1825	0	0.012	N.D. #
20) Methoxychlor	8.430	0.000	5483	0	0.094	N.D. #
21) Endrin Ke...	0.000	9.526f	0	34247	N.D.	0.133 #
23) Hexachlor...	3.094	0.000	7478	0	0.041	N.D. #
24) Hexachlor...	5.662	6.381f	15724	7107	0.089	0.023 #
25) Oxychlordane	7.146	7.790	8475	5055	0.052	0.018 #
26) 2,4'-DDE	7.215	8.037f	3241	16466	0.025	0.078 #
27) trans-Non...	7.419f	0.000	5481	0	87346.670	N.D. #
28) 2,4'-DDD	0.000	0.000	0	0	N.D.	N.D.
29) 2,4'-DDT	0.000	0.000	0	0	N.D.	N.D.
30) cis-Nonac...	7.853	0.000	1143	0	0.006	N.D. #
31) Mirex	8.531	9.526f	6130	34247	0.049	0.184 #
32) Chlordane...	7.359	8.037f	2322	16466	0.118	0.455 #
33) Chlordane...	7.419f	8.168	5481	2538	0.219	0.084 #
34) Chlordane...	7.988	0.000	6155	0	1.065	N.D. #
35) Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36) Toxaphene...	7.419	0.000	5481	0	6.119	N.D. #
37) Toxaphene...	0.000	8.729	0	13457	N.D.	4.089 #
38) Toxaphene...	8.029	8.786	2890	3336	0.858	0.658
39) Toxaphene...	8.317f	0.000	5125	0	1.582	N.D. #
40) Toxaphene...	8.531f	0.000	6130	0	2.557	N.D. #
41) Toxaphene...	8.586	9.441f	1825	44606	0.577	9.390 #
42) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Data Path : R:\data\2019-10\9J03031\
Data File : ECD5-10031924.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Oct 2019 18:21
Operator : MJB
Sample : 9J03031-CCB2
Misc : A19I233
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 03 18:38:03 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-10\9J03031\
 Data File : ECD5-10031925.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 03 Oct 2019 18:38
 Operator : MJB
 Sample : A9I0771-04RE1
 Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
 ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Oct 04 17:23:29 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
 Quant Title : Instrument: DualeCD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 10/4/19

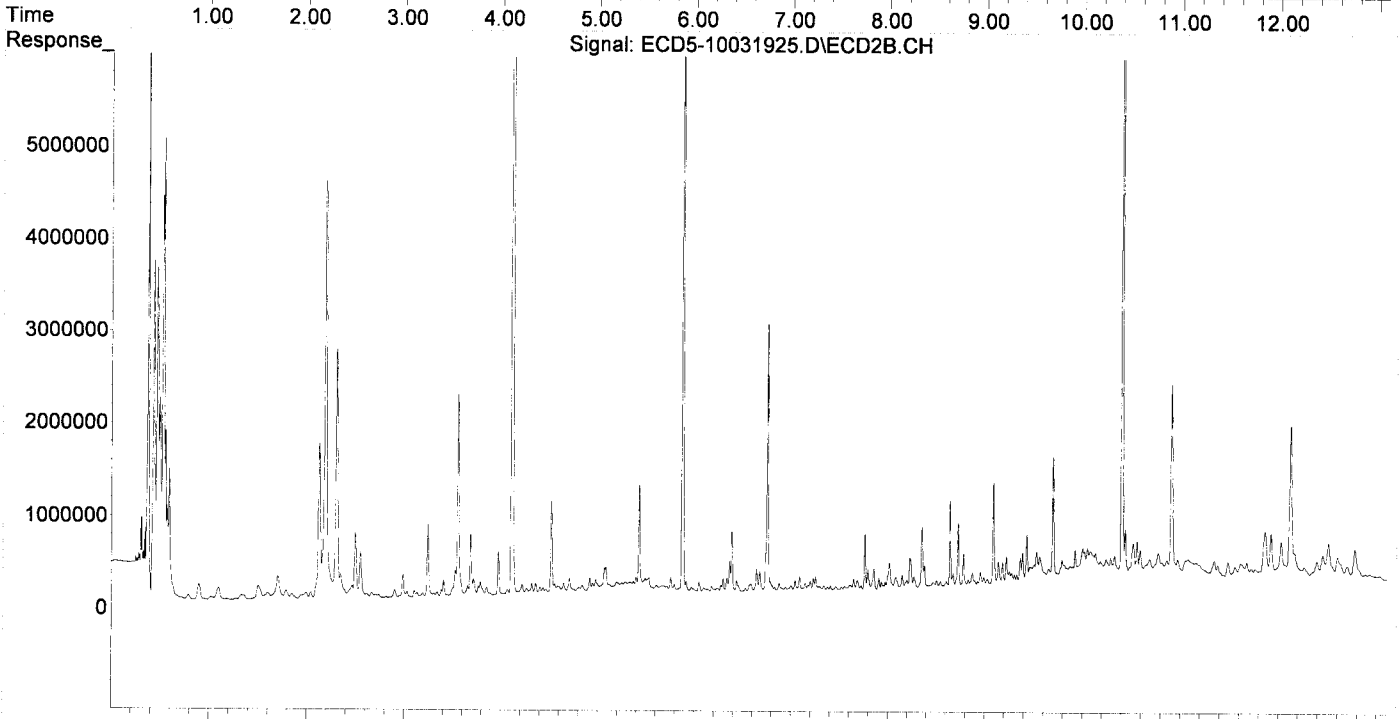
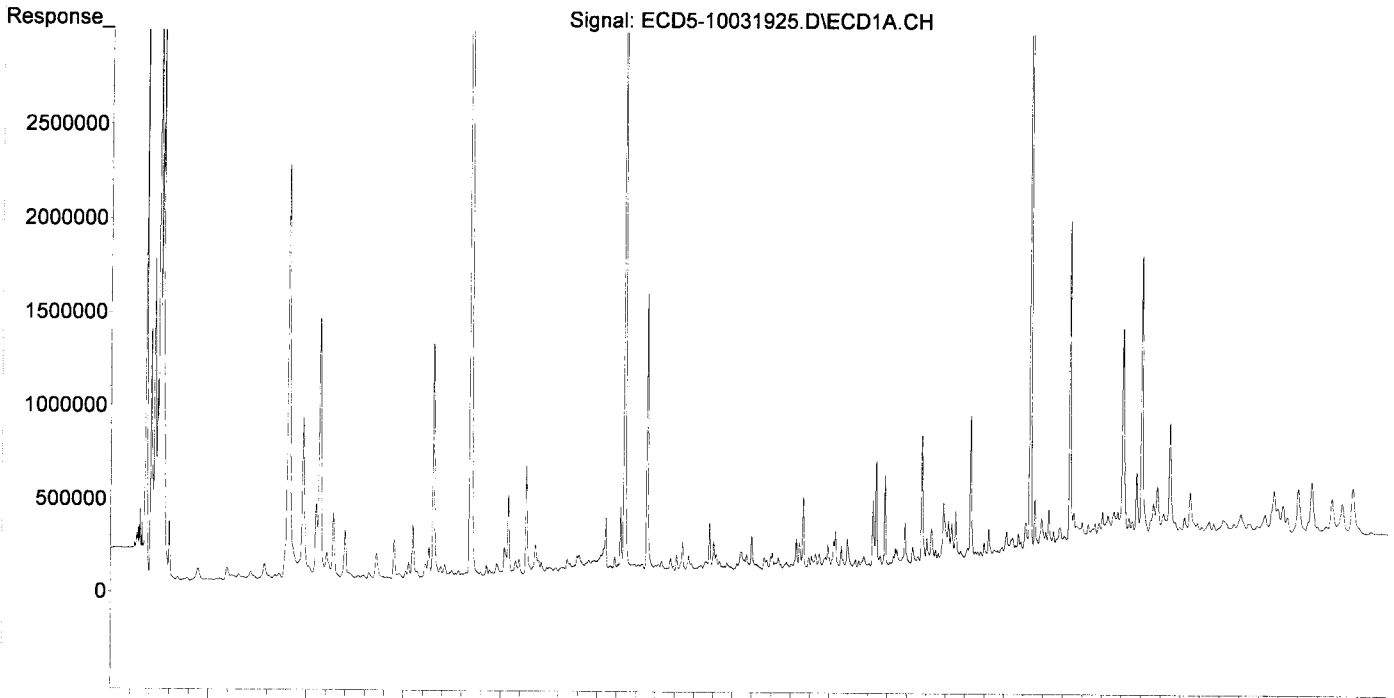
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.279	5.873	4947127	8853190	29.806	30.178
22) S DCBP (S)	9.467	10.399	5683267	8583446	40.279	47.749
Target Compounds						
2) a-BHC	5.817	0.000	85088	0	0.371	N.D. #
3) g-BHC	6.121	6.783	48646	101899	0.241	0.286
4) b-BHC	6.202	6.873	152797	78172	1.691	0.494 #
5) Heptachlor	6.486f	7.174	92336	54011	0.509	0.177 #
6) d-BHC	6.339	7.114	36709	24955	0.187	0.071 #
7) Aldrin	6.750	7.458f	47972	31913	0.243	0.097 #
8) Heptachlo...	7.215	7.854	60239	215831	0.327	0.717 #
9) trans-Chl...	7.294	8.015	70732	280995	0.383	0.897 #
10) cis-Chlor...	7.383f	8.146f	117455	140234	0.645	0.481
11) Endosulfa...	7.521	8.146f	108720	140234	0.639	0.510
12) 4,4'-DDE	7.461	8.227	192247	324768	1.020m	1.045 - <i>MA=MR</i>
13) Dieldrin	7.667	8.375	35528	249082	0.185	0.819 #
14) Endrin	7.849	8.601	349735	66303	2.379	0.294 #
15) 4,4'-DDD	7.882	8.639	564201	942354	3.590 <i>Q31</i>	3.678
16) Endosulfa...	7.973f	8.723f	478022	698373	3.329	3.028
17) 4,4'-DDT	8.079	8.869	84116	150613	0.704	0.839
18) Endrin Al...	8.259f	8.988	88722	101662	BelowCal	BelowCal
19) Endosulfa...	8.577	9.179	314315	263066	2.028	1.056 #
20) Methoxychlor	8.405	9.362	128761	307194	2.198	3.603 #
21) Endrin Ke...	8.752f	9.559	50727	315322	0.304	1.225 #
23) Hexachlor...	3.092	3.551	285835	2166868	1.564	5.764 #
24) Hexachlor...	5.662	6.334	56142	144723	0.318	0.461 #
25) Oxychlorane	7.128	7.793	383262	205926	2.329	0.752 #
26) 2,4'-DDE	7.215	8.015	60239	280995	0.470	1.325 # <i>7-01</i>
27) trans-Non...	7.383	8.081	117455	119665	0.339	0.397
28) 2,4'-DDD	7.585	8.375	146477	249082	1.283	1.319 - <i>MA=MR</i>
29) 2,4'-DDT	7.754	8.601	49662	66303	0.453	0.372
30) cis-Nonac...	7.882	8.639	564201	942354	2.718	2.809
31) Mirex	8.522	9.559	46887	315322	0.374	1.695 #
32) Chlordane...	7.358	8.081	53730	119665	2.729	3.307
33) Chlordane...	7.461	8.196f	192593	87706	7.684	2.888 #
34) Chlordane...	7.973f	8.827	478022	78561	82.687	8.762 #
35) Chlordane...	3.379	3.380	61221	57496	NoCal	NoCal
36) Toxaphene...	7.461f	8.375f	192593	249082	215.032	94.915 #
37) Toxaphene...	7.702f	8.723f	29379	698373	18.192	212.205 #
38) Toxaphene...	0.000	8.778	0	358756	N.D.	70.784 #
39) Toxaphene...	8.259	8.869f	88722	150613	27.382	18.038
40) Toxaphene...	8.494	9.024	65679	83571	27.399	17.932
41) Toxaphene...	8.577	9.385	314315	360661	99.323	75.925
42) Toxaphene...	3.379	3.380	61221	57496	NoCal	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-10\9J03031\
Data File : ECD5-10031925.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Oct 2019 18:38
Operator : MJB
Sample : A9I0771-04RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

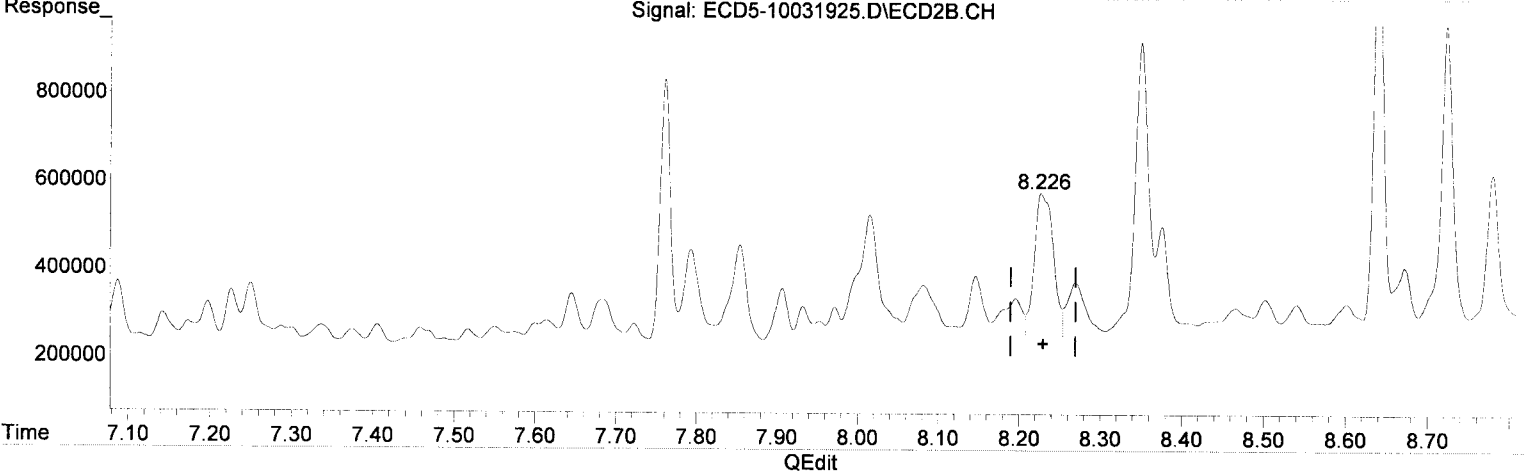
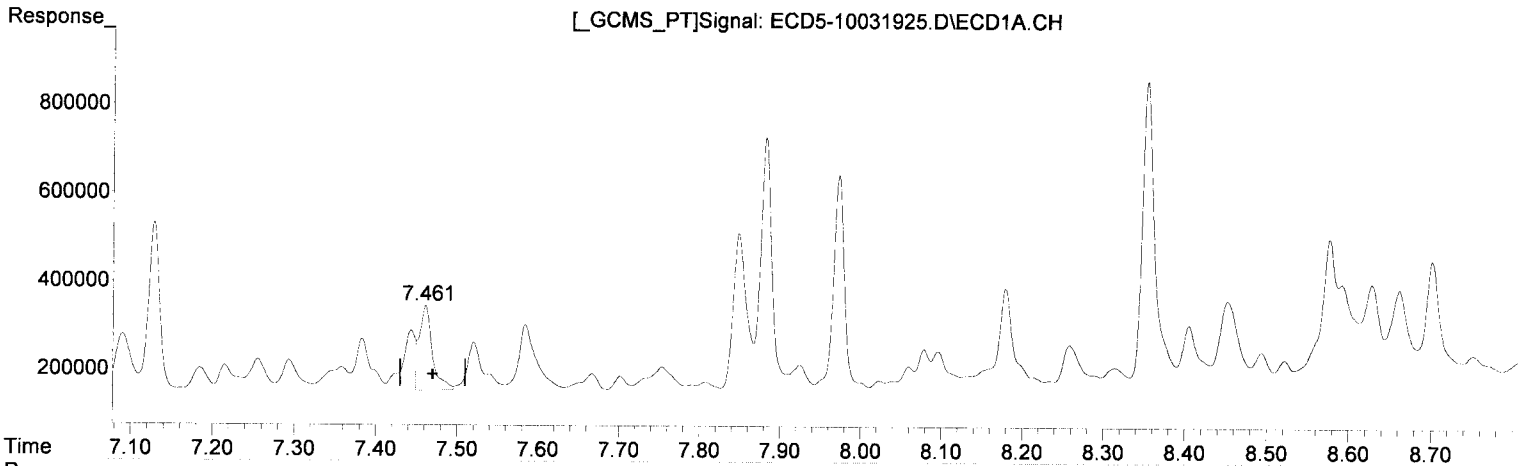
Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 04 17:23:29 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J03031\
Data File : ECD5-10031925.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Oct 2019 18:38
Operator : MJB
Sample : A9I0771-04RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 04 10:22:24 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(12) 4,4'-DDE
7.461min 1.020 ng/mL
response 192247

MJB
10/1/19

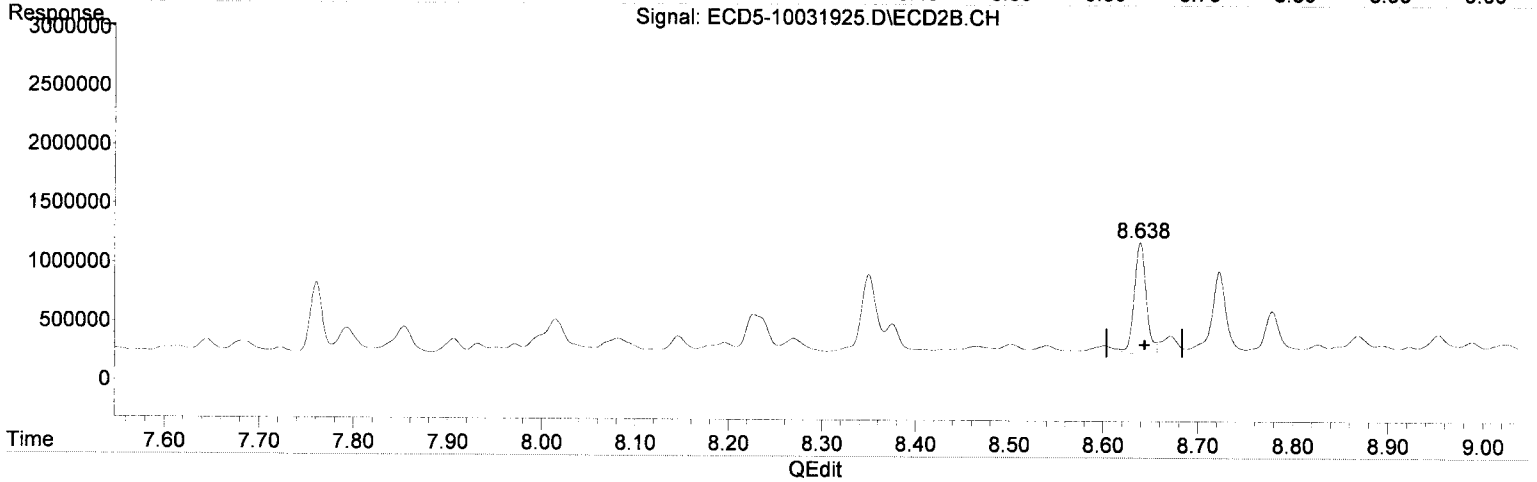
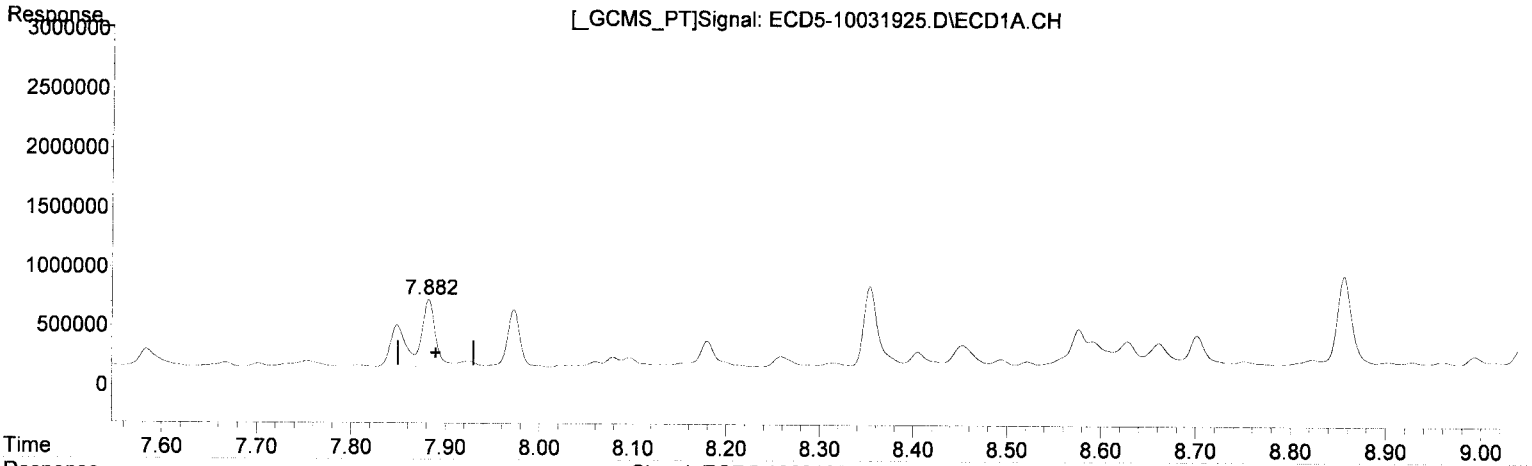
(12) 4,4'-DDE #2
8.227min 1.045 ng/mL
response 324768

10/1-19/19

Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J03031\
Data File : ECD5-10031925.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Oct 2019 18:38
Operator : MJB
Sample : A9I0771-04RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 04 10:22:24 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(15) 4,4'-DDD
7.882min 3.590 ng/mL *Q 21*
response 564201

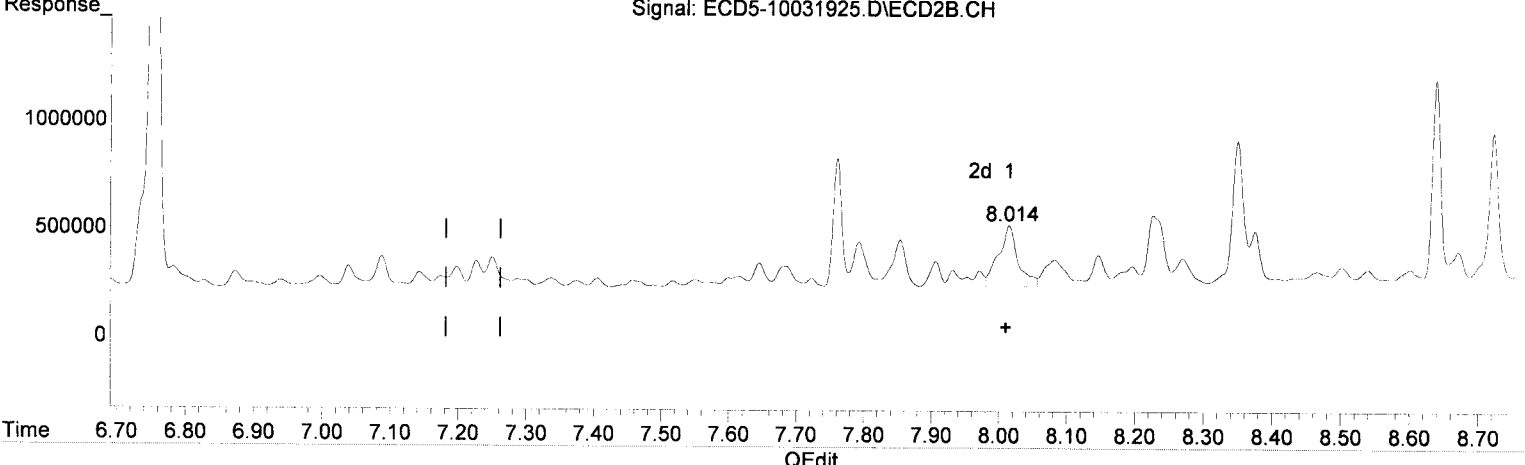
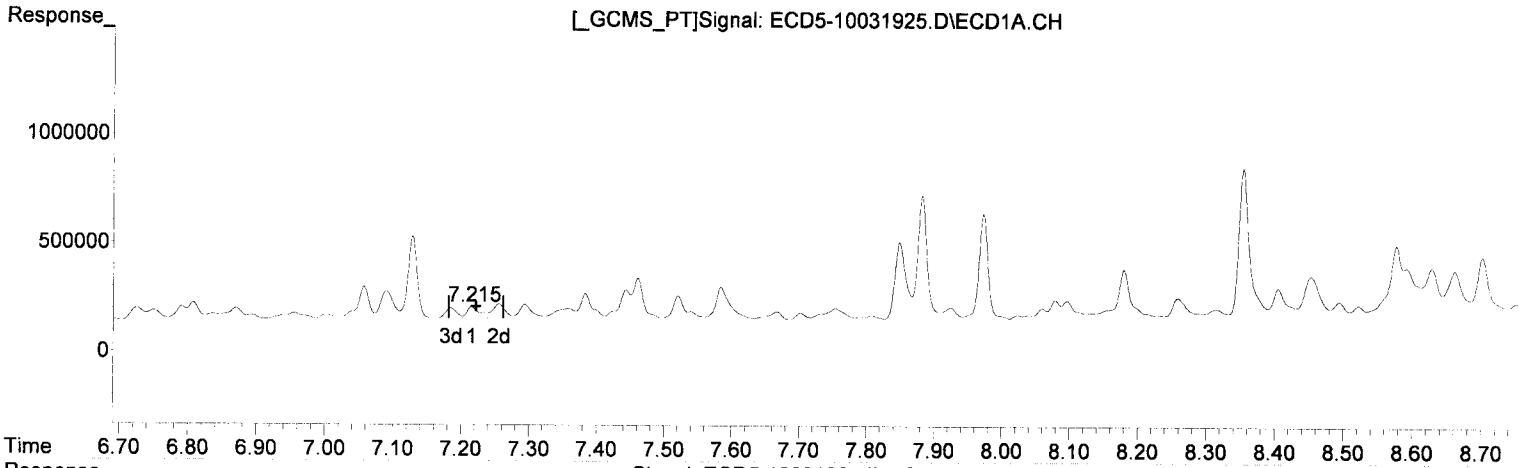
MJB
10/4/19

(15) 4,4'-DDD #2
8.639min 3.678 ng/mL
response 942354

Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J03031\
Data File : ECD5-10031925.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Oct 2019 18:38
Operator : MJB
Sample : A9I0771-04RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 04 10:22:24 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(26) 2,4'-DDE
7.215min 0.470 ng/mL
response 60239

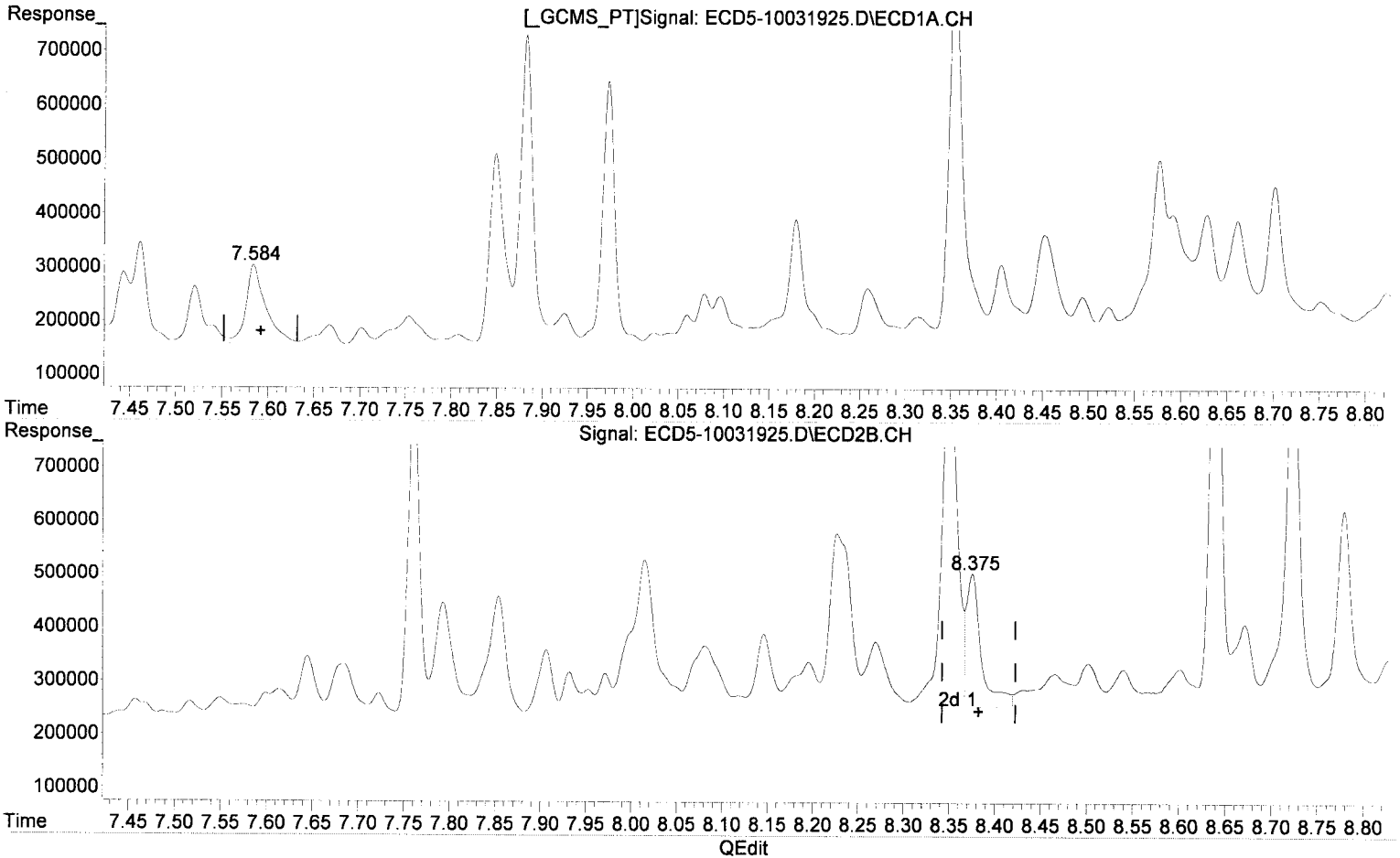
WMS 10/11/19

(26) 2,4'-DDE #2
8.015min 1.325 ng/mL *PM*
response 280995

Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J03031\
 Data File : ECD5-10031925.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 03 Oct 2019 18:38
 Operator : MJB
 Sample : A9I0771-04RE1
 Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
 ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Oct 04 10:22:24 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(28) 2,4'-DDD
 7.585min 1.283 ng/mL
 response 146477

(28) 2,4'-DDD #2
 8.375min 1.319 ng/mL *MD: MJB*
 response 249082

MJB
10/4/19

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-10\9J03031\
 Data File : ECD5-10031925.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 03 Oct 2019 18:38
 Operator : MJB
 Sample : A9I0771-04RE1
 Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
 ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Oct 04 10:22:24 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

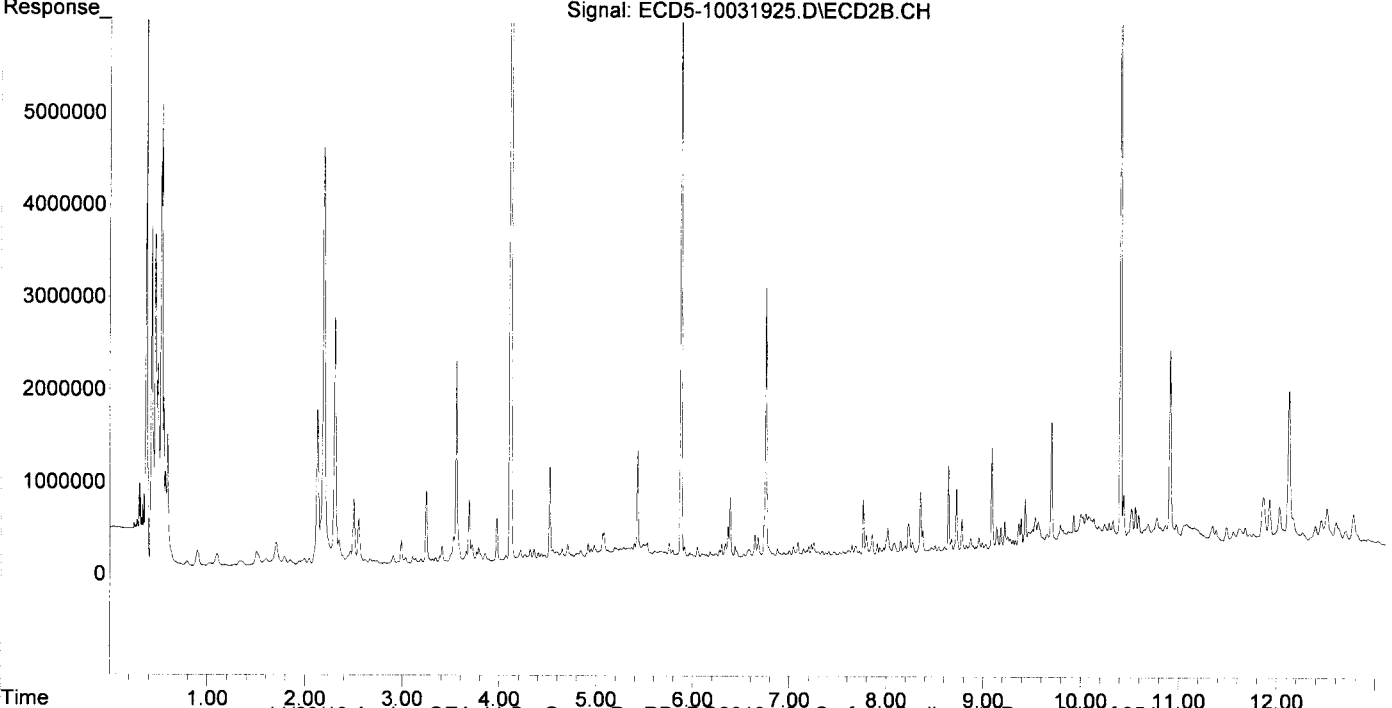
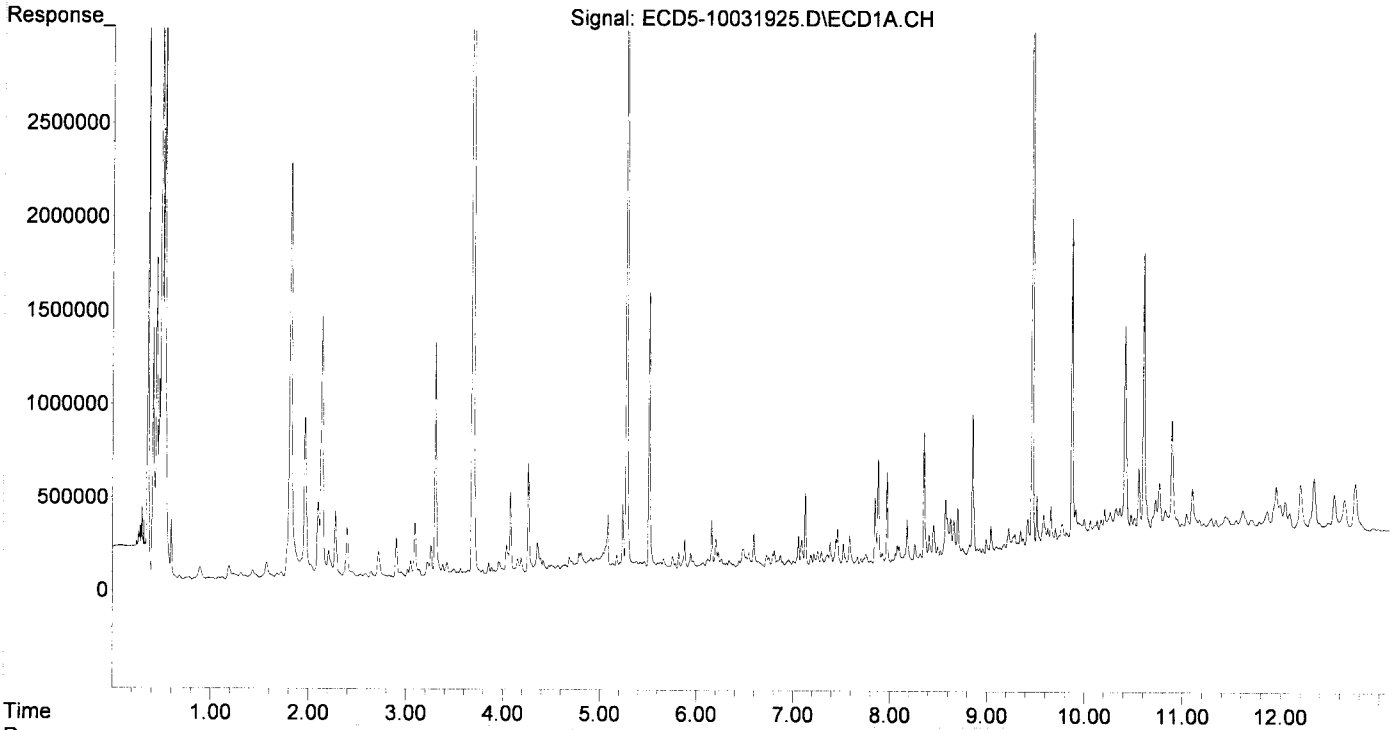
MJF
MJB
10/4/19

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.279	5.873	4947127	8853190	29.806	30.178
22) S DCBP (S)	9.467	10.399	5683267	8583446	40.279	47.749
Target Compounds						
2) a-BHC	5.817	0.000	85088	0	0.371	N.D. #
3) g-BHC	6.121	6.783	48646	101899	0.241	0.286
4) b-BHC	6.202	6.873	152797	78172	1.691	0.494 #
5) Heptachlor	6.486f	7.174	92336	54011	0.509	0.177 #
6) d-BHC	6.339	7.114	36709	24955	0.187	0.071 #
7) Aldrin	6.750	7.458f	47972	31913	0.243	0.097 #
8) Heptachlo...	7.215	7.854	60239	215831	0.327	0.717 #
9) trans-Chl...	7.294	8.015	70732	280995	0.383	0.897 #
10) cis-Chlor...	7.383f	8.146f	117455	140234	0.645	0.481
11) Endosulfa...	7.521	8.146f	108720	140234	0.639	0.510
12) 4,4'-DDE	7.461	8.227	192593	324768	1.022	1.045
13) Dieldrin	7.667	8.375	35528	249082	0.185	0.819 #
14) Endrin	7.849	8.601	349735	66303	2.379	0.294 #
15) 4,4'-DDD	7.882	8.639	564201	942354	3.590	3.678
16) Endosulfa...	7.973f	8.723f	478022	698373	3.329	3.028
17) 4,4'-DDT	8.079	8.869	84116	150613	0.704	0.839
18) Endrin Al...	8.259f	8.988	88722	101662	BelowCal	BelowCal
19) Endosulfa...	8.577	9.179	314315	263066	2.028	1.056 #
20) Methoxychlor	8.405	9.362	128761	307194	2.198	3.603 #
21) Endrin Ke...	8.752f	9.559	50727	315322	0.304	1.225 #
23) Hexachlor...	3.092	3.551	285835	2166868	1.564	5.764 #
24) Hexachlor...	5.662	6.354	56142	144723	0.318	0.461 #
25) Oxychlordane	7.128	7.793	383262	205926	2.329	0.752 #
26) 2,4'-DDE	7.215	8.015	60239	280995	0.470	1.325 #
27) trans-Non...	7.383	8.081	117455	119665	0.339	0.397
28) 2,4'-DDD	7.585	8.375	146477	249082	1.283	1.319
29) 2,4'-DDT	7.754	8.601	49662	66303	0.453	0.372
30) cis-Nonac...	7.882	8.639	564201	942354	2.718	2.809
31) Mirex	8.522	9.559	46887	315322	0.374	1.695 #
32) Chlordane...	7.358	8.081	53730	119665	2.729	3.307
33) Chlordane...	7.461	8.196f	192593	87706	7.684	2.888 #
34) Chlordane...	7.973f	8.827	478022	78561	82.687	8.762 #
35) Chlordane...	3.379	3.380	61221	57496	NoCal	NoCal
36) Toxaphene...	7.461f	8.375f	192593	249082	215.032	94.915 #
37) Toxaphene...	7.702f	8.723f	29379	698373	18.192	212.205 #
38) Toxaphene...	0.000	8.778	0	358756	N.D.	70.784 #
39) Toxaphene...	8.259	8.869f	88722	150613	27.382	18.038
40) Toxaphene...	8.494	9.024	65679	83571	27.399	17.932
41) Toxaphene...	8.577	9.385	314315	360661	99.323	75.925
42) Toxaphene...	3.379	3.380	61221	57496	NoCal	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Data Path : R:\data\2019-10\9J03031\
 Data File : ECD5-10031925.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 03 Oct 2019 18:38
 Operator : MJB
 Sample : A9I0771-04RE1
 Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
 ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Oct 04 10:22:24 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-10\9J03031\
 Data File : ECD5-10031928.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 03 Oct 2019 19:30
 Operator : MJB
 Sample : A9I0771-05RE1010
 Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
 ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Oct 04 10:22:31 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

AR-1

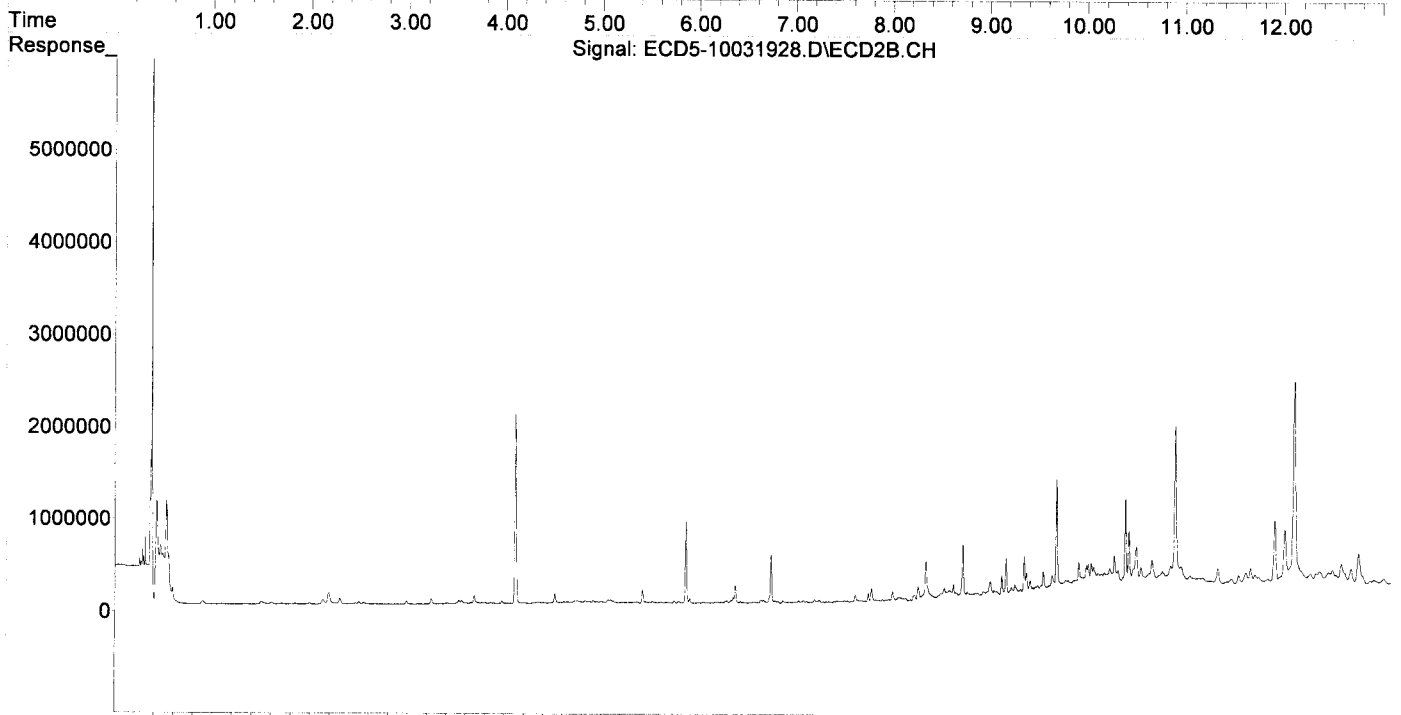
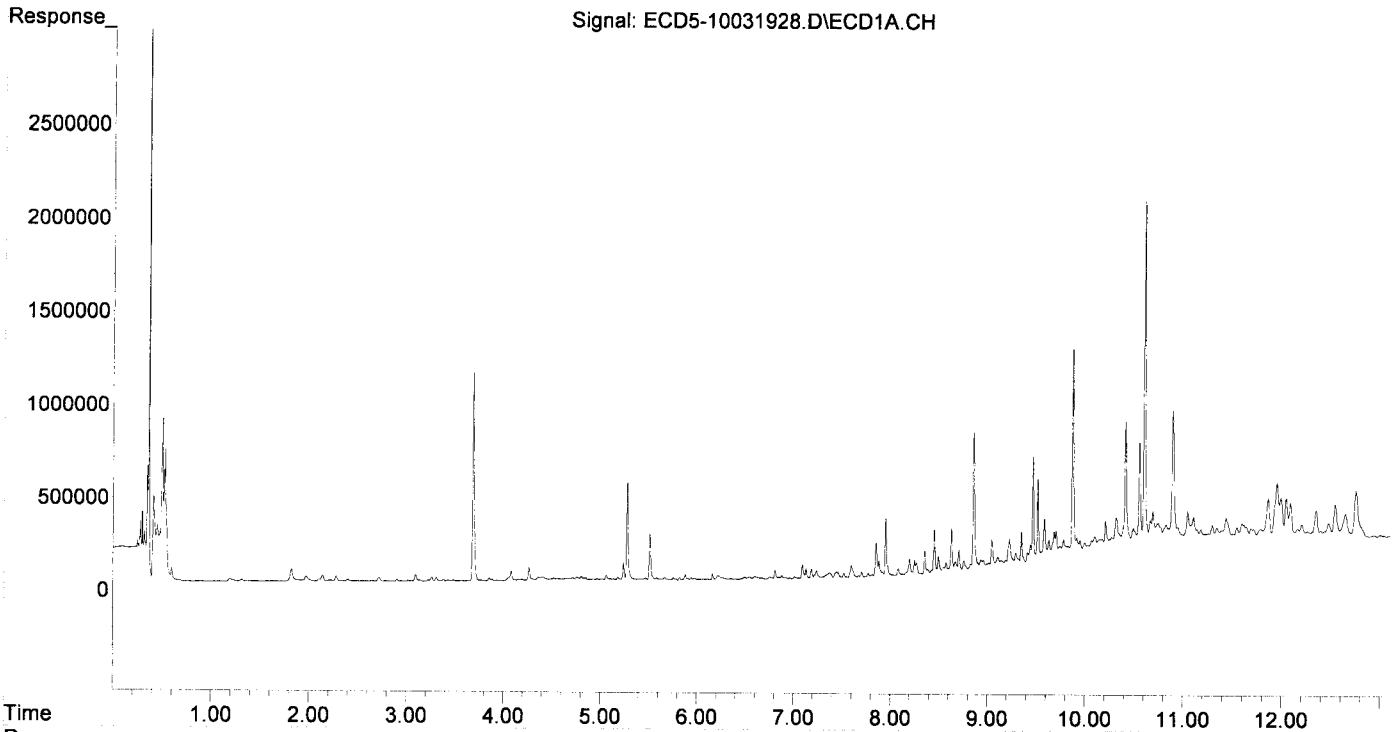
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.280	5.874	523320	877310	3.153	2.990
22) S DCBP (S)	9.468	10.401	582182	1015228	4.126	5.648
Target Compounds						
2) a-BHC	5.821	0.000	13103	0	0.057	N.D. #
3) g-BHC	6.104	6.787	5833	23368	0.029	0.066 #
4) b-BHC	6.162f	6.877	31010	27845	0.343	0.176 #
5) Heptachlor	6.497	7.206f	11903	32848	0.066	0.107 #
6) d-BHC	0.000	7.124	0	14032	N.D.	0.040 #
7) Aldrin	6.753	7.439	12398	14547	0.063	0.044 #
8) Heptachlo...	7.237f	7.869	37884	14492	0.206	0.048 #
9) trans-Chl...	0.000	8.013	0	103049	N.D.	0.329 #
10) cis-Chlor...	7.371f	8.125	26647	25791	0.146	0.089 #
11) Endosulfa...	7.521	8.147f	22427	33610	0.132	0.122 #
12) 4,4'-DDE	7.445f	8.239	32336	57485	0.172	0.185 #
13) Dieldrin	7.672	8.355	5863	421893	0.031	1.387 #
14) Endrin	7.853	8.595	180543	97561	1.228	0.432 #
15) 4,4'-DDD	7.884	8.640	83418	159848	0.531	0.624 #
16) Endosulfa...	8.023f	8.737	6919	582974	0.048	2.528 #
17) 4,4'-DDT	8.082	8.867	36024	58164	0.301	0.301 #
18) Endrin Al...	8.249f	8.986	72254	69908	BelowCal	BelowCal #
19) Endosulfa...	8.577	9.181	47094	416773	0.304	1.673 #
20) Methoxychlor	8.455f	9.366	235928	436272	4.028	5.177 #
21) Endrin Ke...	8.759	9.561	51697	263291	0.310	1.023 #
23) Hexachlor...	3.094	3.554	35841	34284	0.196	0.091 #
24) Hexachlor...	5.665	6.339	13628	26140	0.077	0.083 #
25) Oxychlordane	7.130	7.795	51741	139525	0.314	0.509 #
26) 2,4'-DDE	7.237	8.013	37884	103049	0.295	0.486 #
27) trans-Non...	7.371f	8.085	26647	36634	87346.552	0.121 #
28) 2,4'-DDD	7.599	8.355f	65512	421893	0.574	2.234 #
29) 2,4'-DDT	7.771	8.595	16241	97561	0.148	0.547 #
30) cis-Nonac...	7.853	8.640	180543	159848	0.870	0.477 #
31) Mirex	8.549f	9.561	24403	263291	0.195	1.415 #
32) Chlordane...	7.371	8.070	26647	36621	1.353	1.012 #
33) Chlordane...	7.445	8.196f	32336	14000	1.290	0.461 #
34) Chlordane...	8.023f	8.867f	6919	58164	1.197	6.487 #
35) Chlordane...	3.382	0.000	7825	0	NoCal	N.D. #
36) Toxaphene...	7.445	0.000	32336	0	36.103	N.D. #
37) Toxaphene...	7.706f	8.737	24541	582974	15.196	177.140 #
38) Toxaphene...	8.023	8.781	6919	69885	2.055	13.789 #
39) Toxaphene...	8.249f	8.867	72254	58164	22.300	6.966 #
40) Toxaphene...	8.497	9.019	83707	180434	34.919	38.717 #
41) Toxaphene...	8.577	9.390	47094	259864	14.882	54.706 #
42) Toxaphene...	3.382	3.407f	7825	8922	NoCal	NoCal #

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-10\9J03031\
Data File : ECD5-10031928.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Oct 2019 19:30
Operator : MJB
Sample : A9I0771-05RE1@10
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 04 10:22:31 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-10\9J03031\
 Data File : ECD5-10031931.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 03 Oct 2019 20:21
 Operator : MJB
 Sample : A9I0771-06RE1
 Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
 ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Oct 04 17:31:19 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB
10/4/19

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.279	5.873	4202867	7311796	25.322	24.924
22) S DCBP (S)	9.467	10.399	5525873	7319682	39.163	40.718
Target Compounds						
2) a-BHC	5.819	0.000	117916	0	0.514	N.D. #
3) g-BHC	6.127f	0.000	93974	0	0.466	N.D. #
4) b-BHC	6.206	6.867	207824	57544	2.299	0.364 #
5) Heptachlor	6.544f	7.199f	115543	267953	0.637	0.876
6) d-BHC	6.341	7.143f	101558	48547	0.516	0.138 #
7) Aldrin	6.750	7.457f	88171	56856	0.447	0.173 #
8) Heptachlo...	7.216	7.857	102910	149104	0.559	0.496
9) trans-Chl...	7.295	8.013	121009	230185	0.654	0.735
10) cis-Chlor...	7.383f	8.145f	174945	156884	0.961	0.539 #
11) Endosulfa...	7.540f	8.179	135520	59487	0.796	0.216 #
12) 4,4'-DDE	7.461	8.225	246660	304899	1.308m	0.981
13) Dieldrin	7.668	8.373	142370	216574	0.742	0.712
14) Endrin	7.853	8.602	312923	171233	2.128	0.758 #
15) 4,4'-DDD	7.882	8.638	345407	452490	2.198	1.766
16) Endosulfa...	7.973f	8.722f	513669	621773	3.577	2.696
17) 4,4'-DDT	8.079	8.865	165336	228829	1.383	1.294
18) Endrin Al...	8.259f	8.988	149036	52389	0.258	BelowCal #
19) Endosulfa...	8.579	9.183	108947	109485	0.703	0.440
20) Methoxychlor	8.401f	9.358	87114	161802	1.487	1.817
21) Endrin Ke...	8.794	9.570	90954	228602	0.545	0.888 #
23) Hexachlor...	3.093	3.551	260710	2364552	1.427	6.290 #
24) Hexachlor...	5.661	6.334	91892	138507	0.521	0.441
25) Oxychlordane	7.128	7.794	381772	206803	2.320	0.755 #
26) 2,4'-DDE	7.216	8.013	102910	230185	0.802	1.085
27) trans-Non...	7.383	8.075	174945	184797	0.660	0.613
28) 2,4'-DDD	7.583	8.373	148478	216574	1.301m	1.147
29) 2,4'-DDT	7.765	8.602	88767	171233	0.809	0.960
30) cis-Nonac...	7.853	8.638	312923	452490	1.507	1.349
31) Mirex	8.522	9.570	131922	228602	1.052	1.229
32) Chlordane...	7.344	8.075	112581	184797	5.718	5.107
33) Chlordane...	7.461	8.179	248405	59487	9.911	1.959 #
34) Chlordane...	7.973f	8.827	513669	78215	88.853	8.724 #
35) Chlordane...	3.379	3.382	55571	90876	NoCal	NoCal
36) Toxaphene...	7.461f	8.373f	248405	216574	277.347	82.528 #
37) Toxaphene...	7.735	8.722f	109772	621773	67.973	188.930 #
38) Toxaphene...	0.000	8.778	0	177187	N.D.	34.960 #
39) Toxaphene...	8.259	8.865	149036	228829	45.997	27.405 #
40) Toxaphene...	8.494	9.023	119132	82226	49.698	17.644 #
41) Toxaphene...	8.579	9.384	108947	365434	34.427	76.930 #
42) Toxaphene...	3.379	3.382	55571	90876	NoCal	NoCal

MDL=MDL

MDL=MDL

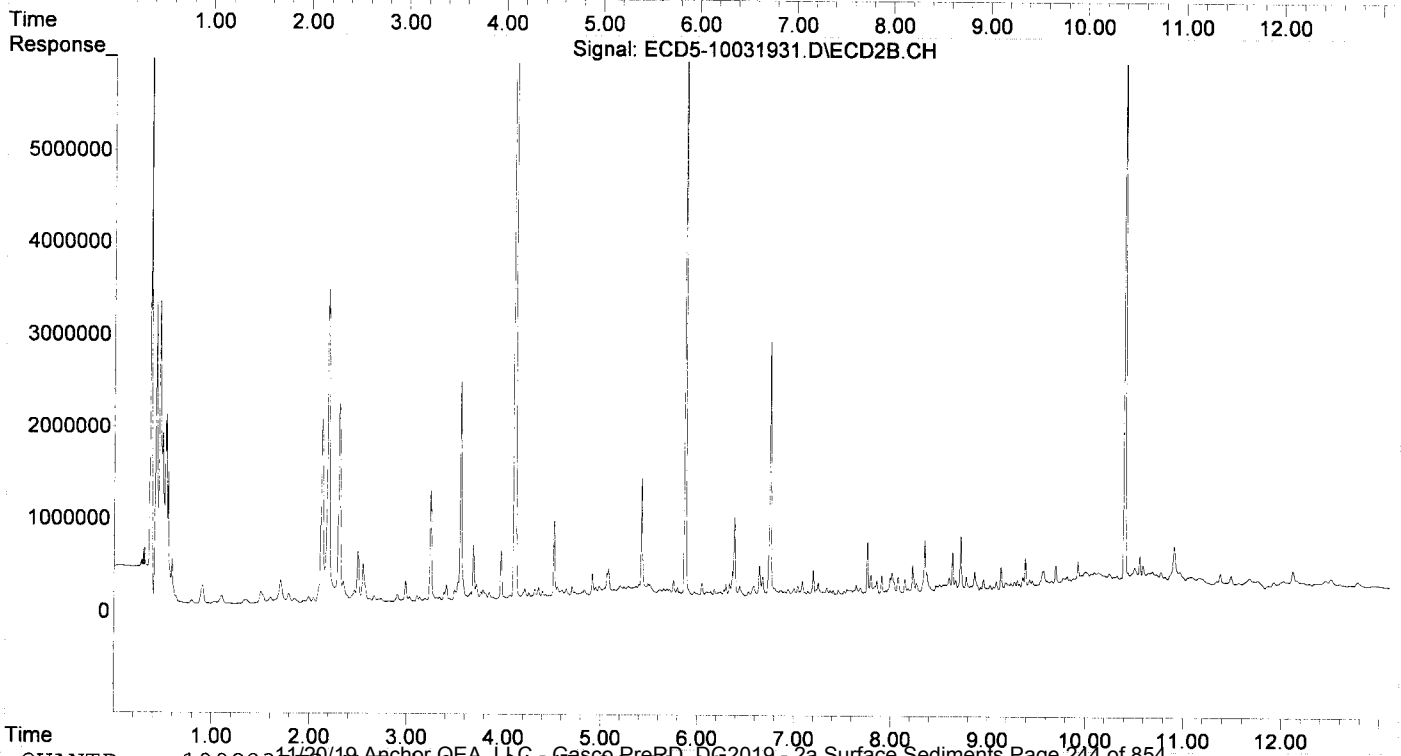
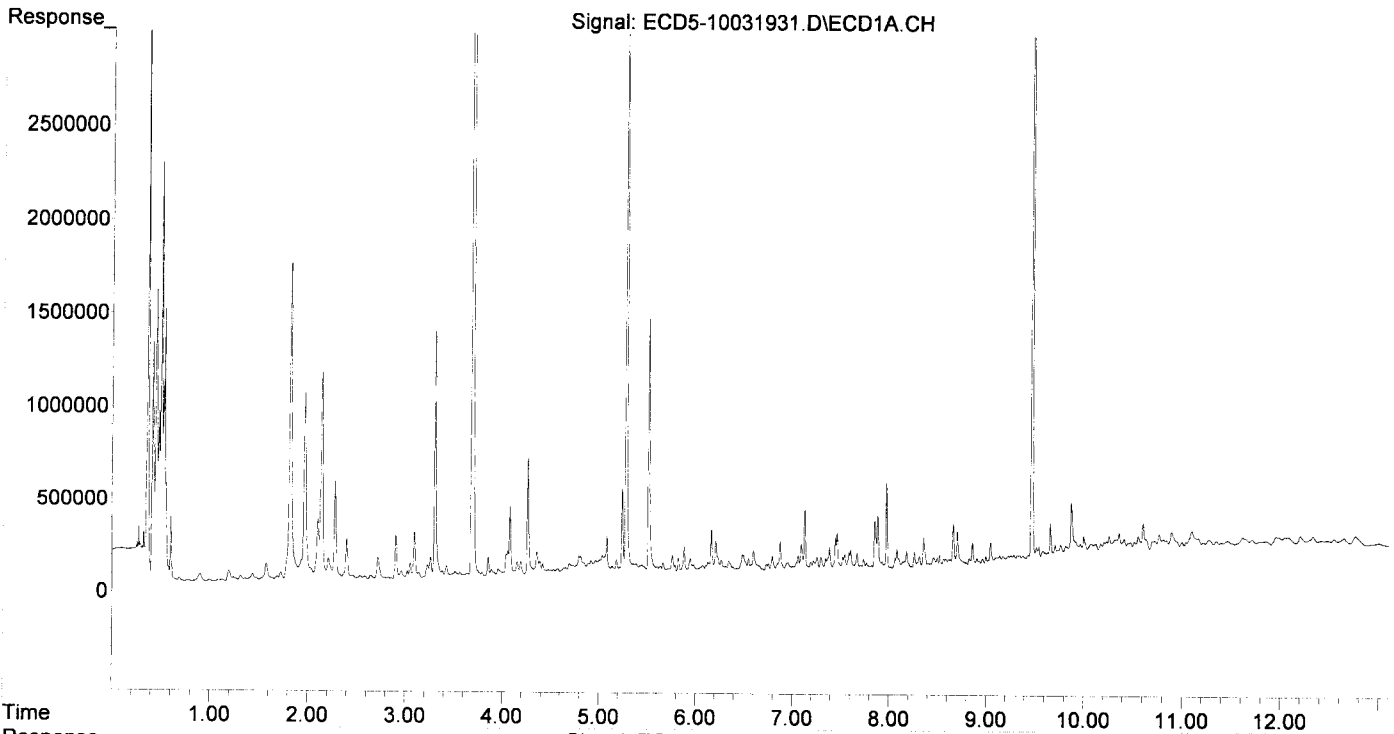
MDL=MDL

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-10\9J03031\
Data File : ECD5-10031931.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Oct 2019 20:21
Operator : MJB
Sample : A9I0771-06RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

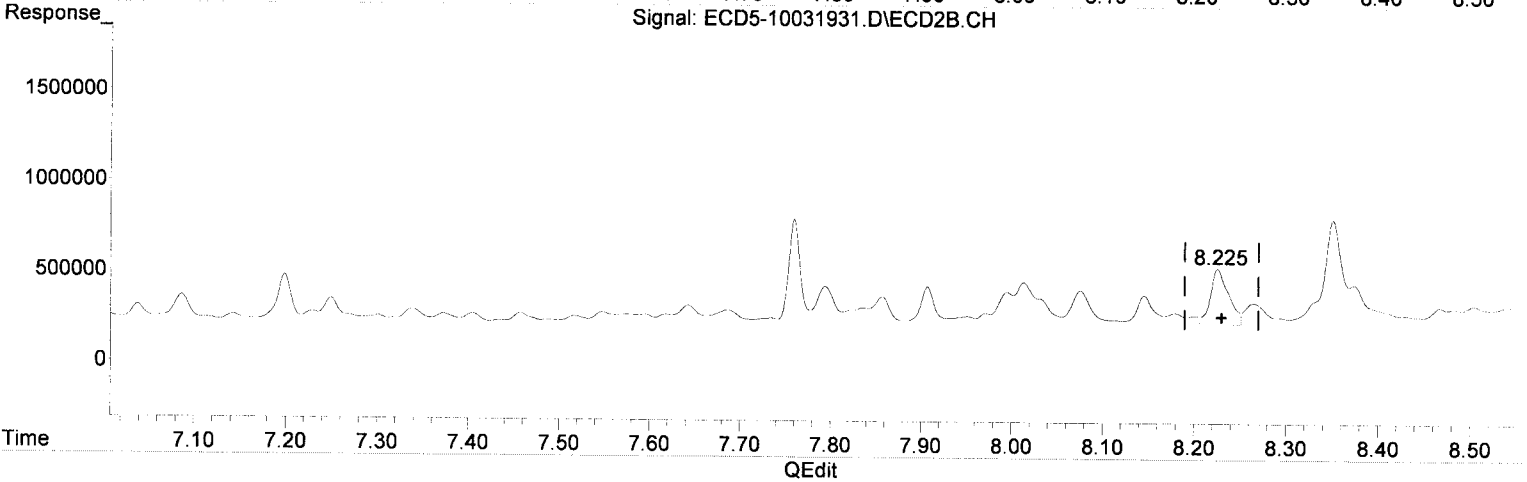
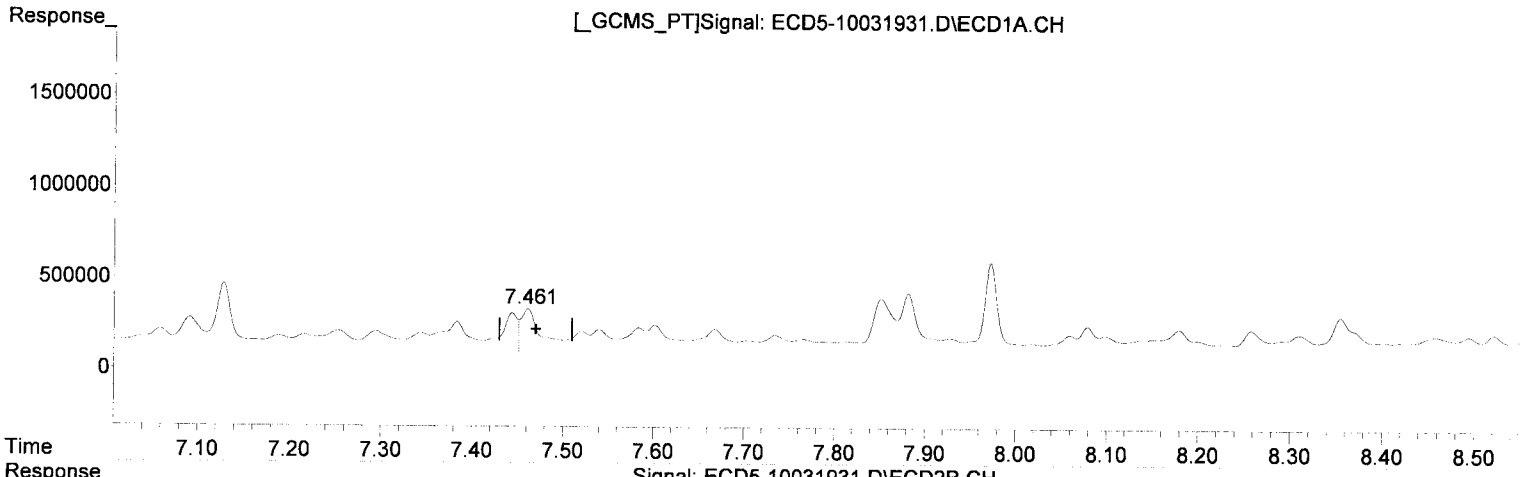
Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 04 17:31:19 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J03031\
Data File : ECD5-10031931.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Oct 2019 20:21
Operator : MJB
Sample : A9I0771-06RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 04 10:22:37 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(12) 4,4'-DDE

7.461min 1.308 ng/mL (m)
response 246660

MJB
10/4/19

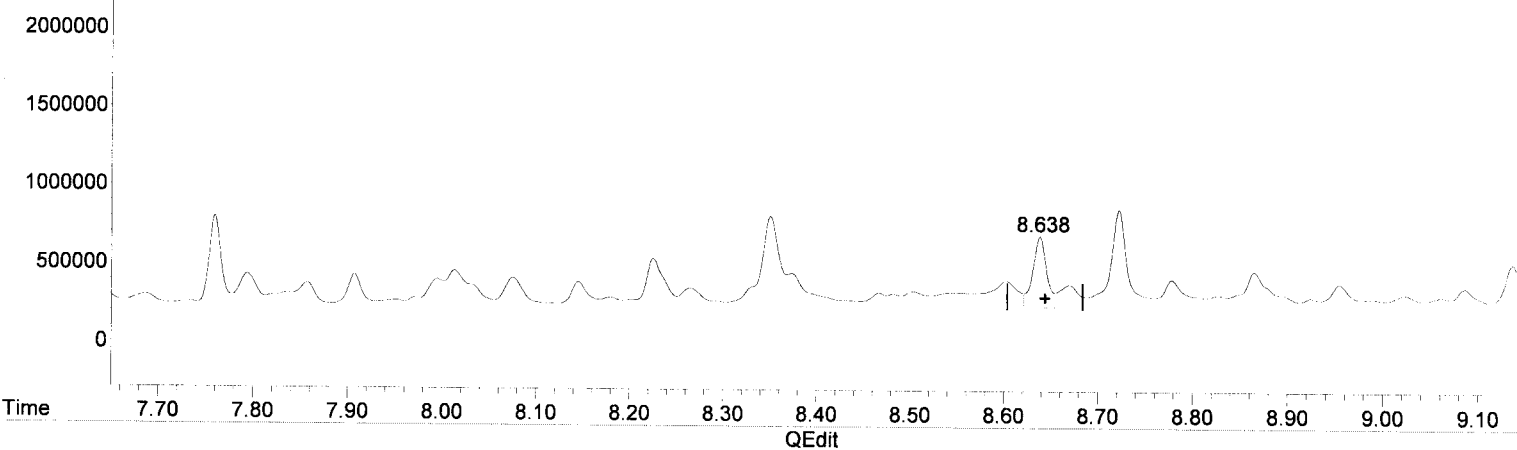
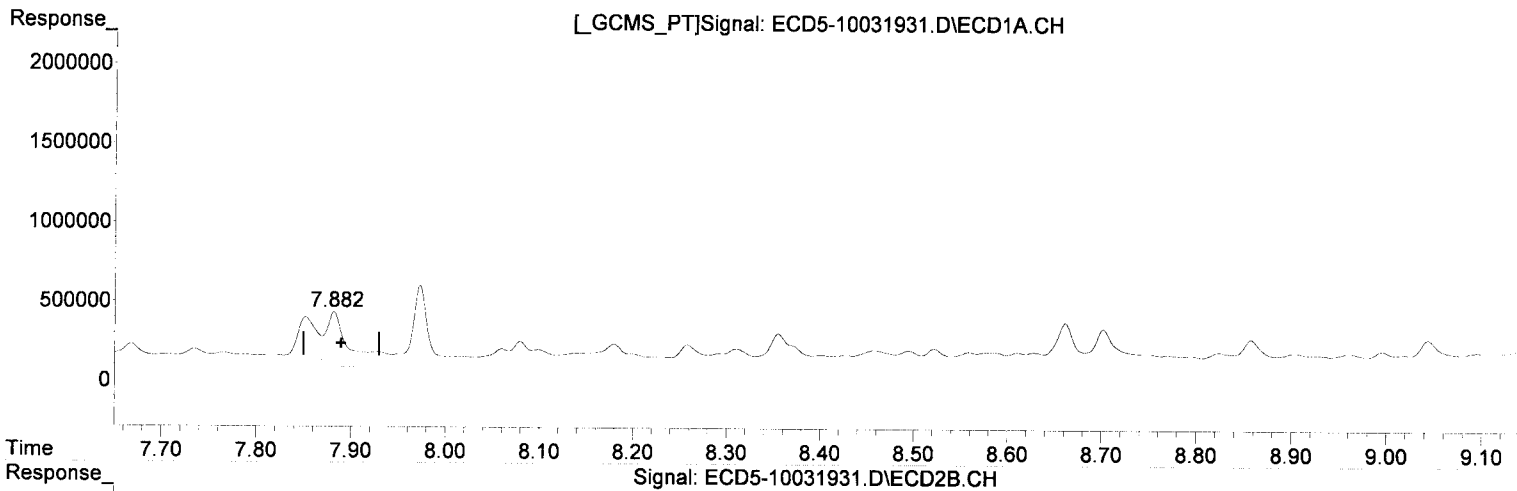
(12) 4,4'-DDE #2

8.225min 0.981 ng/mL
response 304899

Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J03031\
Data File : ECD5-10031931.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Oct 2019 20:21
Operator : MJB
Sample : A9I0771-06RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 04 10:22:37 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
Quant Title : Instrument: DualeCD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(15) 4,4'-DDD

7.882min 2.198 ng/mL

response 345407

MJB
(2/4/19)

(15) 4,4'-DDD #2

8.638min 1.766 ng/mL

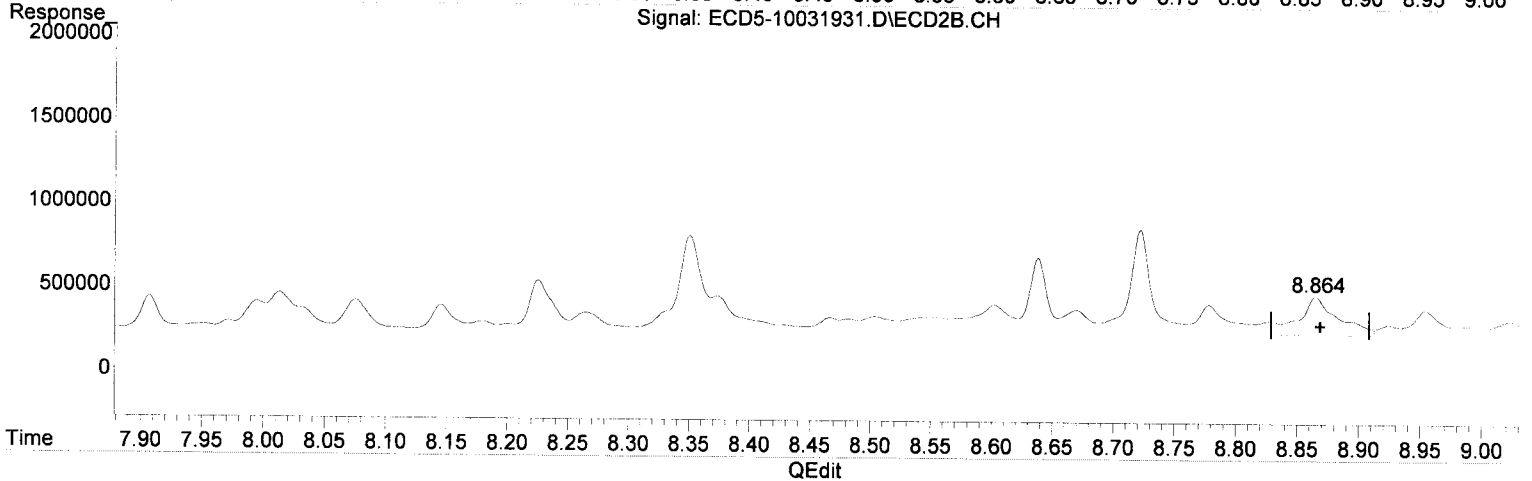
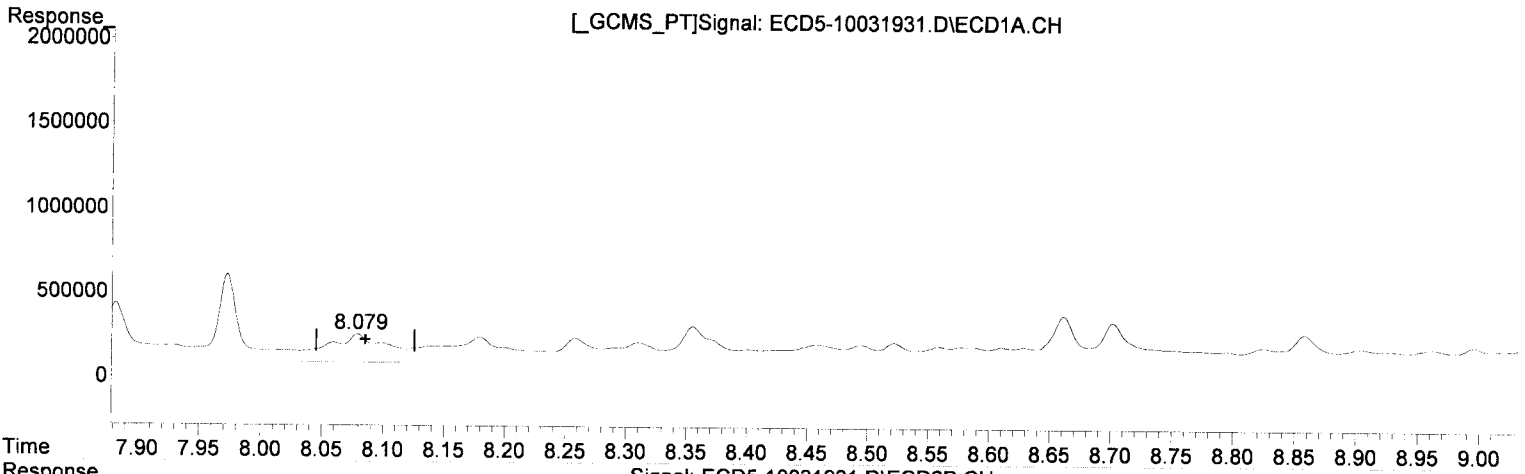
response 452490

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J03031\
Data File : ECD5-10031931.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Oct 2019 20:21
Operator : MJB
Sample : A9I0771-06RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 04 10:22:37 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(17) 4,4'-DDT

8.079min 1.383 ng/mL

response 165336

MJB 10/11/19

(17) 4,4'-DDT #2

8.865min 1.294 ng/mL

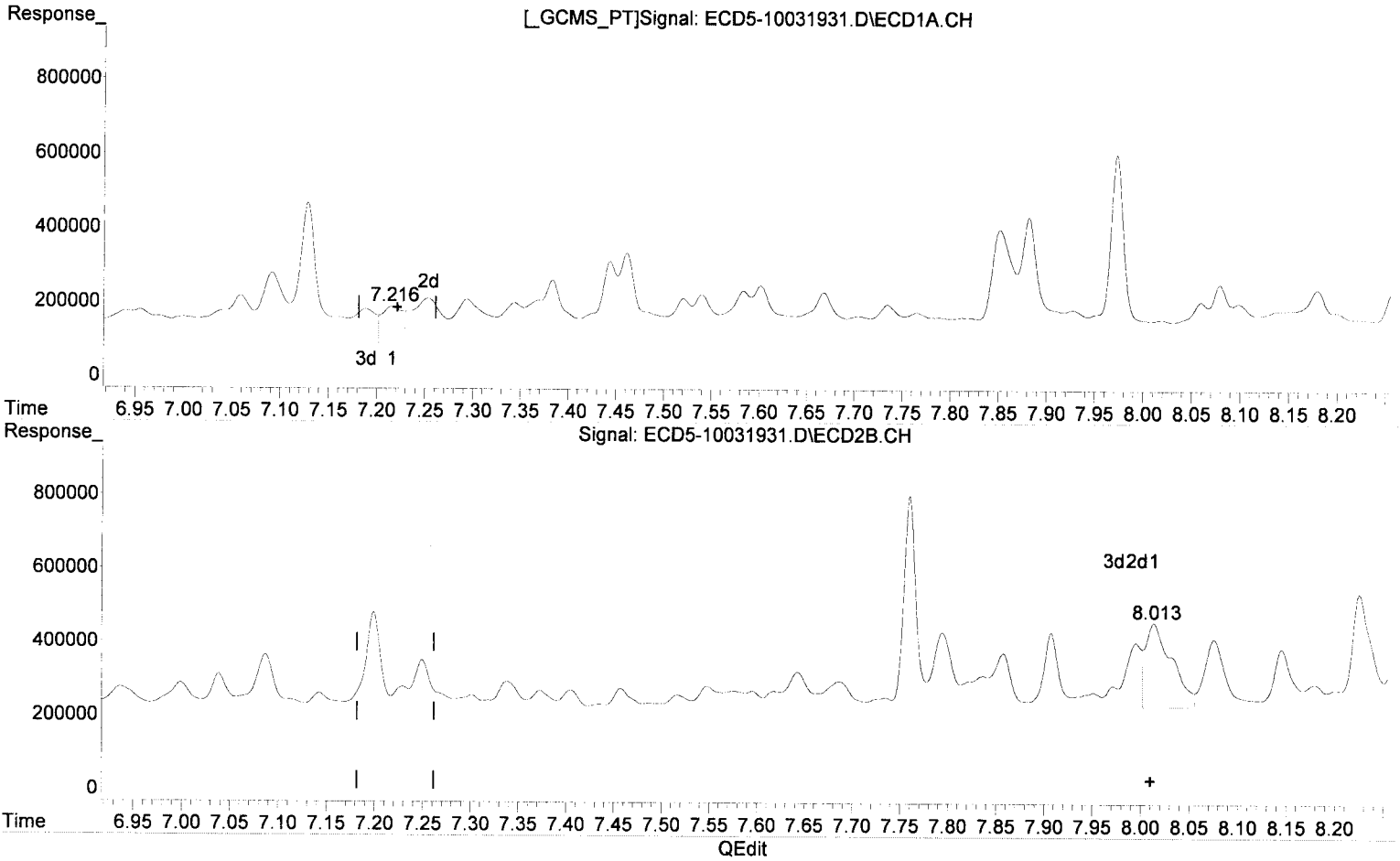
response 228829

MDL:MR

Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J03031\
Data File : ECD5-10031931.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Oct 2019 20:21
Operator : MJB
Sample : A9I0771-06RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 04 10:22:37 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
Quant Title : Instrument: DualeCD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(26) 2,4'-DDE
7.216min 0.802 ng/mL
response 102910

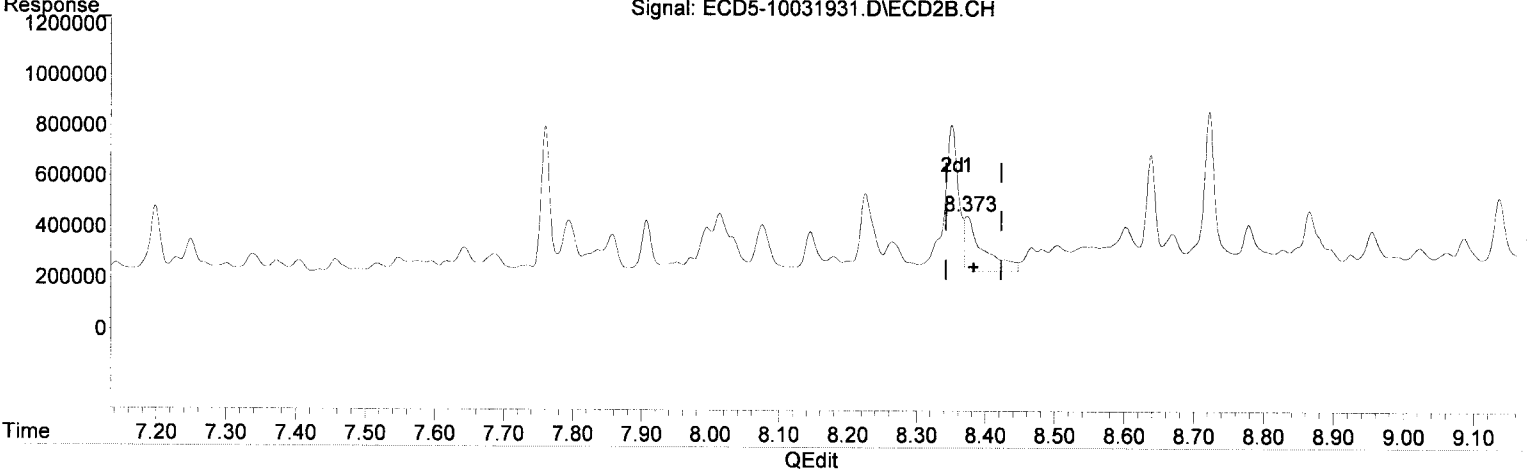
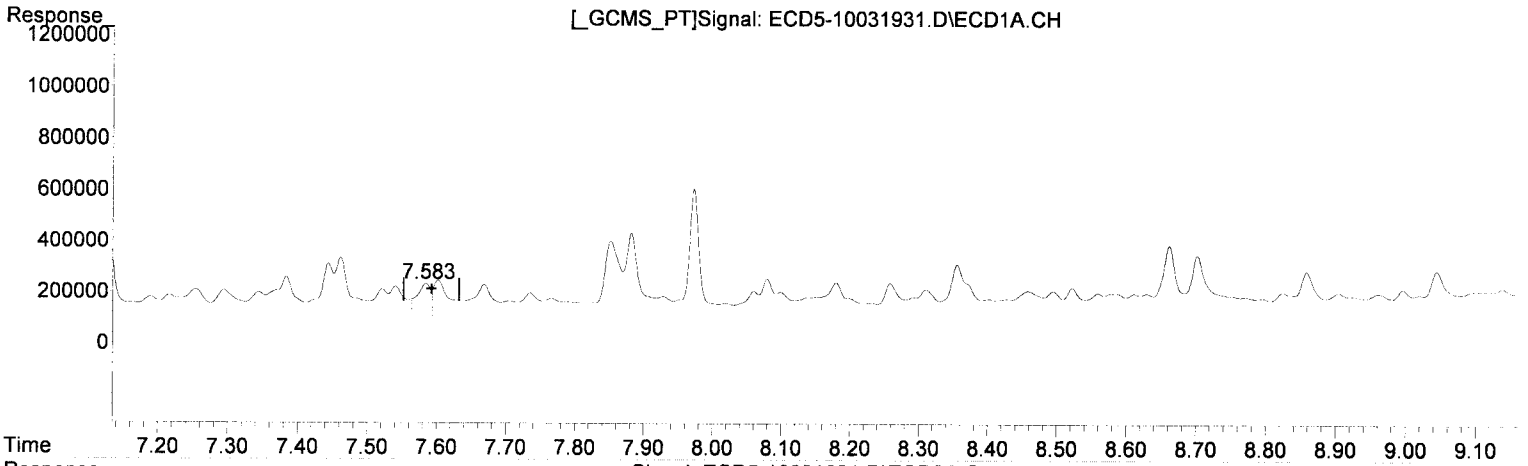
MJB
10/4/19

(26) 2,4'-DDE #2
8.013min 1.085 ng/mL *Pos*
response 230185

Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J03031\
Data File : ECD5-10031931.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Oct 2019 20:21
Operator : MJB
Sample : A9I0771-06RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 04 10:22:37 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(28) 2,4'-DDD
7.583min 1.301 ng/mL (+)
response 148478

MJP
10/4/19

(28) 2,4'-DDD #2
8.373min 1.147 ng/mL *MJB:W/12*
response 216574

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-10\9J03031\
 Data File : ECD5-10031931.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 03 Oct 2019 20:21
 Operator : MJB
 Sample : A9I0771-06RE1
 Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
 ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Oct 04 10:22:37 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
 Quant Title : Instrument: DualeCD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB
MJB
10/4/19

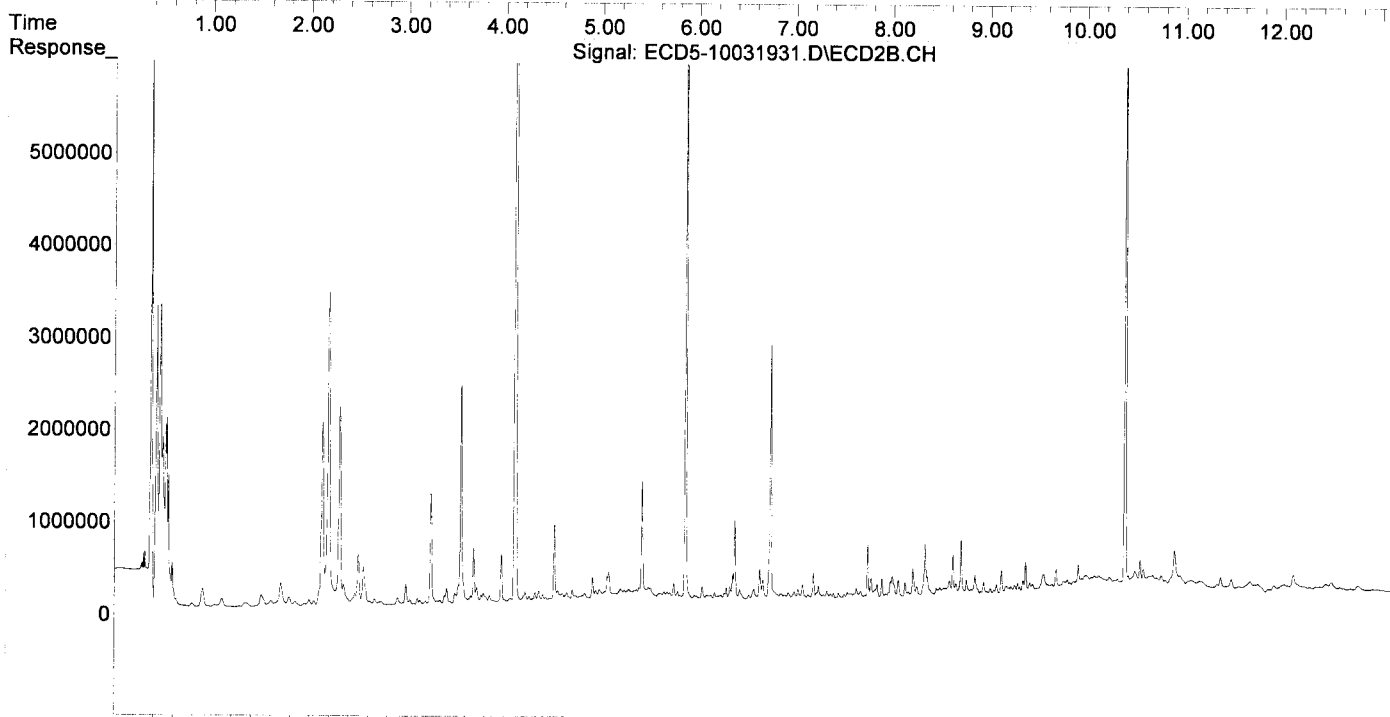
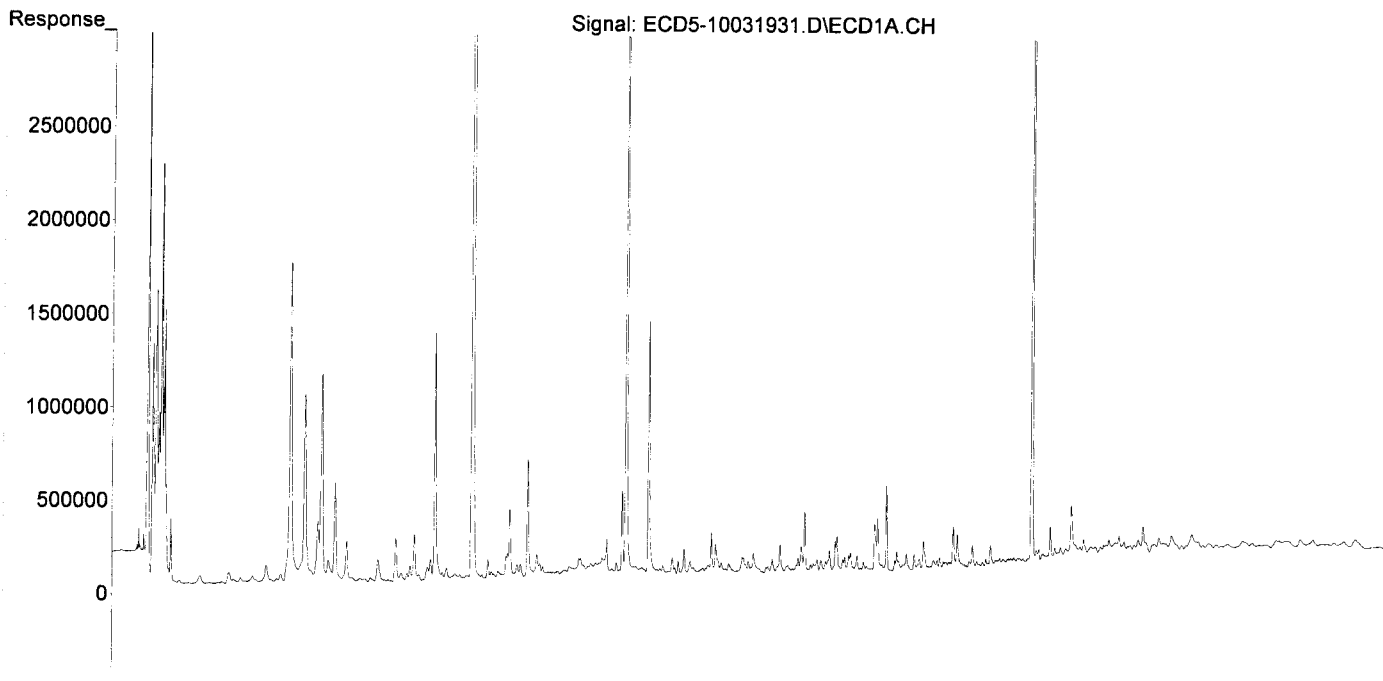
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.279	5.873	4202867	7311796	25.322	24.924
22) S DCBP (S)	9.467	10.399	5525873	7319682	39.163	40.718
Target Compounds						
2) a-BHC	5.819	0.000	117916	0	0.514	N.D. #
3) g-BHC	6.127f	0.000	93974	0	0.466	N.D. #
4) b-BHC	6.206	6.867	207824	57544	2.299	0.364 #
5) Heptachlor	6.544f	7.199f	115543	267953	0.637	0.876
6) d-BHC	6.341	7.143f	101558	48547	0.516	0.138 #
7) Aldrin	6.750	7.457f	88171	56856	0.447	0.173 #
8) Heptachlo...	7.216	7.857	102910	149104	0.559	0.496
9) trans-Chl...	7.295	8.013	121009	230185	0.654	0.735
10) cis-Chlor...	7.383f	8.145f	174945	156884	0.961	0.539 #
11) Endosulfa...	7.540f	8.179	135520	59487	0.796	0.216 #
12) 4,4'-DDE	7.461	8.225	248405	304899	1.318	0.981
13) Dieldrin	7.668	8.373	142370	216574	0.742	0.712
14) Endrin	7.853	8.602	312923	171233	2.128	0.758 #
15) 4,4'-DDD	7.882	8.638	345407	452490	2.198	1.766
16) Endosulfa...	7.973f	8.722f	513669	621773	3.577	2.696
17) 4,4'-DDT	8.079	8.865	165336	228829	1.383	1.294
18) Endrin Al...	8.259f	8.988	149036	52389	0.258	BelowCal #
19) Endosulfa...	8.579	9.183	108947	109485	0.703	0.440
20) Methoxychlor	8.401f	9.358	87114	161802	1.487	1.817
21) Endrin Ke...	8.794	9.570	90954	228602	0.545	0.888 #
23) Hexachlor...	3.093	3.551	260710	2364552	1.427	6.290 #
24) Hexachlor...	5.661	6.334	91892	138507	0.521	0.441
25) Oxychlordane	7.128	7.794	381772	206803	2.320	0.755 #
26) 2,4'-DDE	7.216	8.013	102910	230185	0.802	1.085
27) trans-Non...	7.383	8.075	174945	184797	0.660	0.613
28) 2,4'-DDD	7.602	8.373	160289	216574	1.405	1.147
29) 2,4'-DDT	7.765	8.602	88767	171233	0.809	0.960
30) cis-Nonac...	7.853	8.638	312923	452490	1.507	1.349
31) Mirex	8.522	9.570	131922	228602	1.052	1.229
32) Chlordane...	7.344	8.075	112581	184797	5.718	5.107
33) Chlordane...	7.461	8.179	248405	59487	9.911	1.959 #
34) Chlordane...	7.973f	8.827	513669	78215	88.853	8.724 #
35) Chlordane...	3.379	3.382	55571	90876	NoCal	NoCal
36) Toxaphene...	7.461f	8.373f	248405	216574	277.347	82.528 #
37) Toxaphene...	7.735	8.722f	109772	621773	67.973	188.930 #
38) Toxaphene...	0.000	8.778	0	177187	N.D.	34.960 #
39) Toxaphene...	8.259	8.865	149036	228829	45.997	27.405 #
40) Toxaphene...	8.494	9.023	119132	82226	49.698	17.644 #
41) Toxaphene...	8.579	9.384	108947	365434	34.427	76.930 #
42) Toxaphene...	3.379	3.382	55571	90876	NoCal	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-10\9J03031\
Data File : ECD5-10031931.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Oct 2019 20:21
Operator : MJB
Sample : A9I0771-06RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 04 10:22:37 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
Quant Title : Instrument: DualeCD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : R:\data\2019-10\9J03031\
 Data File : ECD5-10031934.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 03 Oct 2019 21:13
 Operator : MJB
 Sample : 9091407-MS1
 Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
 ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Oct 04 10:22:46 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB
10/4/19

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.279	5.872	3739153	6415191	22.528	21.867
22) S DCBP (S)	9.467	10.400	5219140	6937298	36.989	38.591
Target Compounds						
2) a-BHC	5.819	6.503f	102197	95752	0.446	0.233 #
3) g-BHC	6.108	6.796	131554	218316	0.652	0.612
4) b-BHC	6.197	6.848	449254	280064	4.971	1.770 #
5) Heptachlor	6.546f	7.196f	128637	1054054	0.710	3.445 #
6) d-BHC	6.335	7.142f	100148	171680	0.509	0.487
7) Aldrin	6.721f	7.436	221130	90556	1.120	0.275 #
8) Heptachlo...	7.213	7.857	4661993	212779	25.312	0.707 #
9) trans-Chl...	7.293	8.004	88884	7585218	0.481	24.209 #
10) cis-Chlor...	7.372f	8.144f	137208	291800	0.754	1.002
11) Endosulfa...	7.521	8.182	112053	108951	0.658	0.396
12) 4,4'-DDE	7.463	8.225	7594837	13042846	40.285	41.982
13) Dieldrin	7.667	8.376	74272	7645892	0.387	25.139 #
14) Endrin	7.850	8.599	252541	8403043	1.718	37.210 #
15) 4,4'-DDD	7.883	8.640	7352216	12871434	46.788	50.237
16) Endosulfa...	7.973f	8.723	473652	622604	3.298	2.700
17) 4,4'-DDT	8.080	8.866	13435702	23160915	112.376	111.250
18) Endrin Al...	8.259f	8.990	87597	93559	BelowCal	BelowCal
19) Endosulfa...	8.580	9.184	62068	180958	0.400	0.726 #
20) Methoxychlor	8.402f	9.357	36285	300449	0.619	3.521 #
21) Endrin Ke...	8.795	9.574	28562	295245	0.171	1.147 #
23) Hexachlor...	3.093	3.551	222776	2855011	1.219	7.594 #
24) Hexachlor...	5.659	6.333	87439	205434	0.496	0.654
25) Oxychlorthane	7.128	7.794	340828	160885	2.071	0.587 #
26) 2,4'-DDE	7.213	8.004	4661993	7585218	36.348	35.756
27) trans-Non...	7.372f	8.076	137208	216564	0.450	0.718
28) 2,4'-DDD	7.584	8.376	4644407	7645892	40.696	40.484
29) 2,4'-DDT	7.766	8.599	4982079	8403043	45.421	47.118
30) cis-Nonac...	7.883	8.640	7352216	12871434	35.413	38.371
31) Mirex	8.523	9.574	57566	295245	0.459	1.587 #
32) Chlordane...	7.372	8.076	137208	216564	6.969	5.985
33) Chlordane...	7.463	8.182	7594837	108951	303.014	3.588 #
34) Chlordane...	7.973f	8.828	473652	93767	81.931	10.458 #
35) Chlordane...	3.379	3.381	57940	180619	NoCal	NoCal
36) Toxaphene...	7.463f	8.376f	7594837	7645892	8479.717	2913.544 #
37) Toxaphene...	7.731	8.723f	90784	622604	56.215	189.182 #
38) Toxaphene...	0.000	8.778	0	268154	N.D.	52.908 #
39) Toxaphene...	8.259	8.866	87597	23160915	27.035	2773.818 #
40) Toxaphene...	8.494	9.024	33418	114128	13.941	24.489 #
41) Toxaphene...	8.580	9.384	62068	709575	19.613	149.378 #
42) Toxaphene...	3.379	3.381	57940	180619	NoCal	NoCal

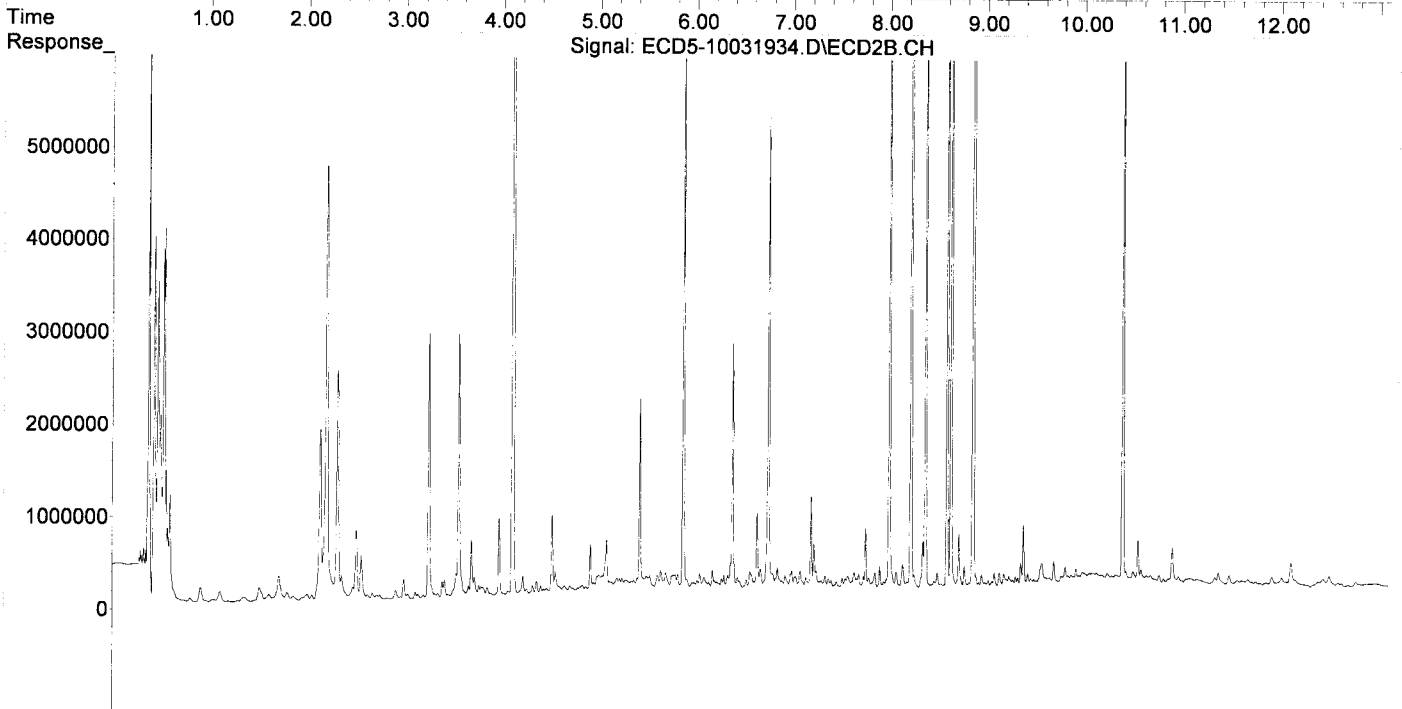
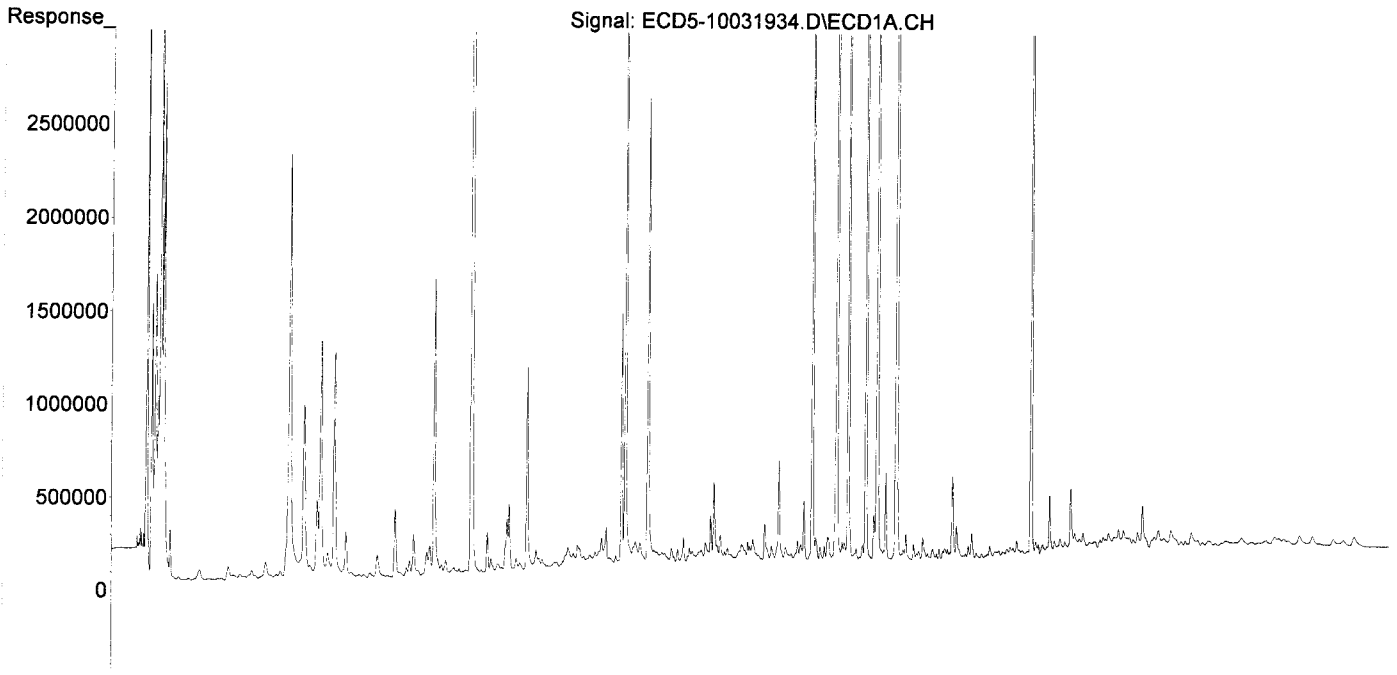
MJB

MJB

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Data Path : R:\data\2019-10\9J03031\
Data File : ECD5-10031934.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Oct 2019 21:13
Operator : MJB
Sample : 9091407-MS1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 04 10:22:46 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-10\9J03031\
 Data File : ECD5-10031937.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 03 Oct 2019 22:04
 Operator : MJB
 Sample : 9091407-MSD1
 Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
 ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Oct 04 10:22:53 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB
10/4/19

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.279	5.873	3175913	5530631	19.135	18.852
22) S DCBP (S)	9.468	10.399	4941883	6918309	35.024	38.486
Target Compounds						
2) a-BHC	5.817	6.452f	140080	180234	0.611	0.439
3) g-BHC	6.105	6.797	167431	299309	0.830	0.839
4) b-BHC	6.193	6.868	656076	192889	7.259	1.219 #
5) Heptachlor	6.514	7.194f	128724	1536093	0.710	5.020 #
6) d-BHC	6.331	7.139	157844	254154	0.803	0.721
7) Aldrin	6.718f	7.433	361378	118346	1.830	0.359 #
8) Heptachlo...	7.212	7.855	4426806	259376	24.035	0.862 #
9) trans-Chl...	7.292	8.003	131345	7486318	0.710	23.893 #
10) cis-Chlor...	7.381f	8.139	168011	349976	0.923	1.202
11) Endosulfa...	7.462f	8.196f	7528922	151667	44.241	0.551 #
12) 4,4'-DDE	7.462	8.225	7528922	13103555	39.935	42.177
13) Dieldrin	7.666	8.375	98080	7422892	0.511	24.405 #
14) Endrin	7.849	8.599	300958	7351763	2.047	32.555 #
15) 4,4'-DDD	7.883	8.639	7062442	12299101	44.943	48.003
16) Endosulfa...	7.972f	8.722f	481235	691923	3.351	3.000
17) 4,4'-DDT	8.079	8.864	6618235	11041310	55.355	57.918
18) Endrin Al...	8.258f	8.993	114798	104267	BelowCal	BelowCal
19) Endosulfa...	8.576	9.180	124549	164027	0.804	0.659
20) Methoxychlor	8.401f	9.360	48050	199858	0.820	2.286 #
21) Endrin Ke...	8.776	9.560	36771	261799	0.221	1.017 #
23) Hexachlor...	3.094	3.552	262566	1901687	1.437	5.059 #
24) Hexachlor...	5.664	6.333	142028	257202	0.806	0.819
25) Oxychlorane	7.127	7.791	405983	198869	2.467	0.726 #
26) 2,4'-DDE	7.212	8.003	4426806	7486318	34.514	35.290
27) trans-Non...	7.381	8.076	168011	239760	0.622	0.795
28) 2,4'-DDD	7.584	8.375	4548487	7422892	39.855	39.303
29) 2,4'-DDT	7.766	8.599	4516686	7351763	41.178	41.223
30) cis-Nonac...	7.883	8.639	7062442	12299101	34.017	36.665
31) Mirex	8.522	9.560	70578	261799	0.563	1.407 #
32) Chlordane...	7.381f	8.076	168011	239760	8.533	6.626
33) Chlordane...	7.462	8.196f	7528922	151667	300.384	4.995 #
34) Chlordane...	8.016	8.828	40407	105070	6.989	11.719 #
35) Chlordane...	3.351f	3.383	71643	147718	NoCal	NoCal
36) Toxaphene...	7.462f	8.375f	7528922	7422892	8406.123	2828.568 #
37) Toxaphene...	7.728	8.722f	149787	691923	92.751	210.245 #
38) Toxaphene...	8.016f	8.778	40407	166623	11.999	32.875 #
39) Toxaphene...	8.258	8.864	114798	11041310	35.430	1322.339 #
40) Toxaphene...	8.494	9.024	52298	142977	21.817	30.679 #
41) Toxaphene...	8.576	9.384	124549	314299	39.357	66.165 #
42) Toxaphene...	3.424f	3.383	59776	147718	NoCal	NoCal

506

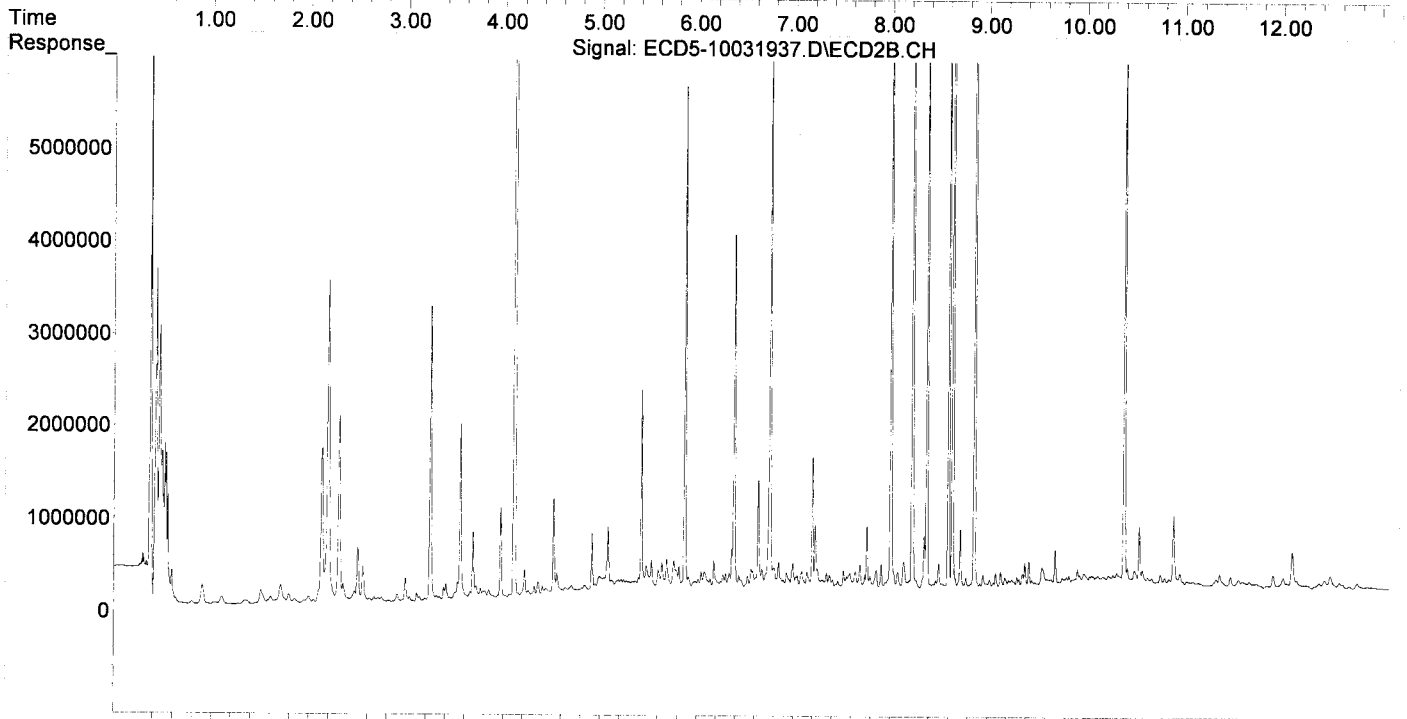
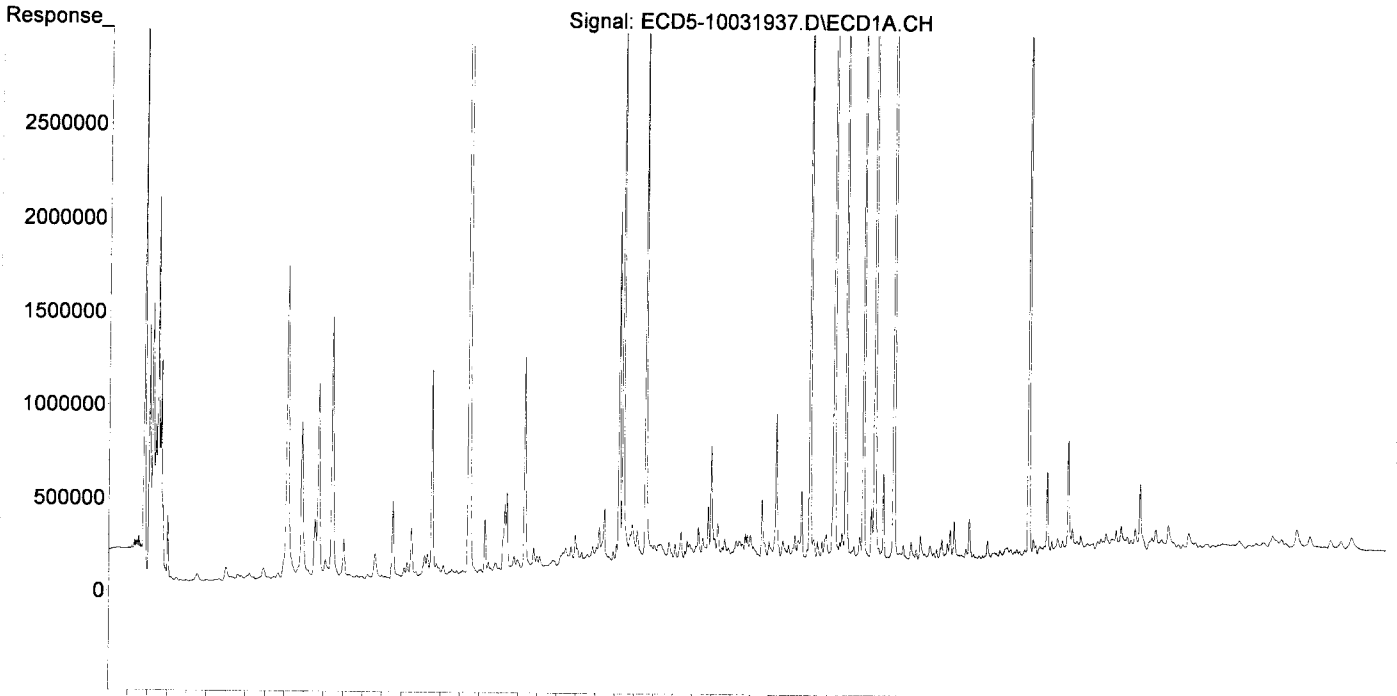
MDL=MDL

MDL=MDL

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Data Path : R:\data\2019-10\9J03031\
Data File : ECD5-10031937.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Oct 2019 22:04
Operator : MJB
Sample : 9091407-MSD1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 04 10:22:53 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-10\9J03031\
 Data File : ECD5-10031940.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 03 Oct 2019 22:55
 Operator : MJB
 Sample : 9J03031-CCV5
 Misc : A19H383, AB 50 ppb
 ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Oct 04 17:38:12 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.280	5.874	7929182	13800907	47.773	47.043
22) S DCBP (S)	9.471	10.400	6551149	9324314	46.430	51.870
Target Compounds						
2) a-BHC	5.821	6.481	11072604	21456837	48.283	52.290
3) g-BHC	6.106	6.799	9169686	17977817	45.445	50.400
4) b-BHC	6.187	6.866	3408198	7025026	37.708	44.387
5) Heptachlor	6.513	7.170	9918919	17696025	54.711	57.834
6) d-BHC	6.337	7.119	7014170	16264442	35.661	46.119
7) Aldrin	6.752	7.434	10658421	17855239	53.982	54.207
8) Heptachlo...	7.212	7.871	9567222	16197697	51.945	53.840
9) trans-Chl...	7.307	8.010	9679490	16180986	52.352	51.643
10) cis-Chlor...	7.403	8.118	9470609	15328339	52.016	52.630
11) Endosulfa...	7.499	8.167	9399974	14916373	55.236 Q-31	54.207
12) 4,4'-DDE	7.470	8.228	7486651	14882820	39.711m	47.904
13) Dieldrin	7.671	8.367	10349192	17202675	53.908	56.560
14) Endrin	7.835	8.592	8037801	12928598	54.669	57.250
15) 4,4'-DDD	7.890	8.642	6188532	12691419	39.382 Q-31	49.534
16) Endosulfa...	7.992	8.740	7487024	12619135	52.134	54.722
17) 4,4'-DDT	8.084	8.867	5555508	9477954	46.466	50.371
18) Endrin Al...	8.281	8.977	6816342	11072203	55.436	56.022
19) Endosulfa...	8.581	9.167	7935824	13237787	51.206	53.145
20) Methoxychlor	8.425	9.346	2605174	4672026	44.476	51.908
21) Endrin Ke...	8.774	9.563	8920216	14820322	53.492	57.596
23) Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
24) Hexachlor...	5.661	6.376f	15102	10189	0.086	0.032 #
25) Oxychlordane	7.148	7.803	92595	7870	0.563	0.029 #
26) 2,4'-DDE	7.212	8.010	9567222	16180986	74.592	76.276
27) trans-Non...	7.403	8.071	9470609	57610	52.576	0.191 #
28) 2,4'-DDD	0.000	8.367	0	17202675	N.D.	91.085 #
29) 2,4'-DDT	7.770	8.592	42198	12928598	0.385	72.494 #
30) cis-Nonac...	7.890f	8.642	6188532	12691419	29.808	37.834
31) Mirex	8.528	9.563	47313	14820322	0.377	79.648 #
32) Chlordane...	0.000	8.071	0	57610	N.D.	1.592 #
33) Chlordane...	0.000	8.167	0	14916373	N.D.	491.251 #
34) Chlordane...	7.992	8.828	7487024	45392	1295.082	5.063 #
35) Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36) Toxaphene...	7.403f	8.367f	9470609	17202675	10574.037	6555.253
37) Toxaphene...	0.000	8.740	0	12619135	N.D.	3834.409 #
38) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.
39) Toxaphene...	8.281	8.867	6816342	9477954	2103.710	1135.107 #
40) Toxaphene...	8.528f	9.064f	47313	226573	19.737	48.617 #
41) Toxaphene...	8.581	9.431f	7935824	53157	2507.700	11.190 #
42) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

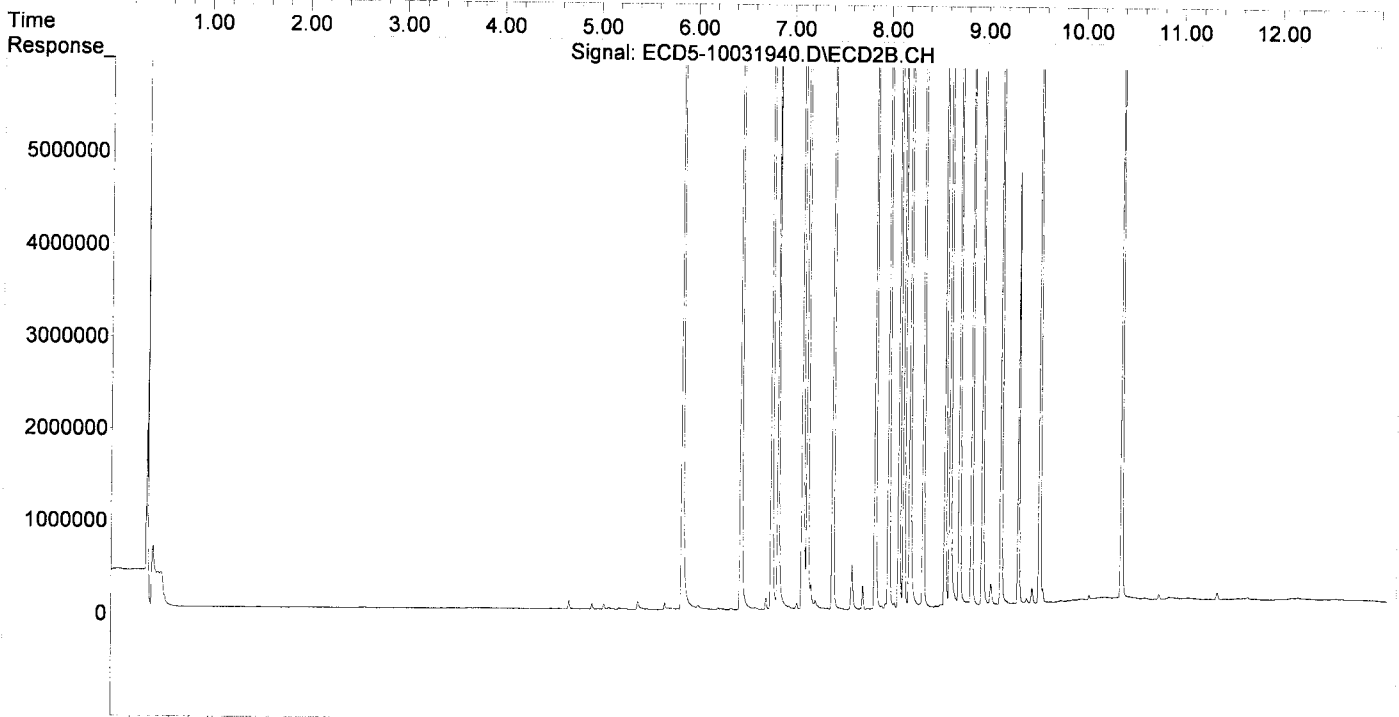
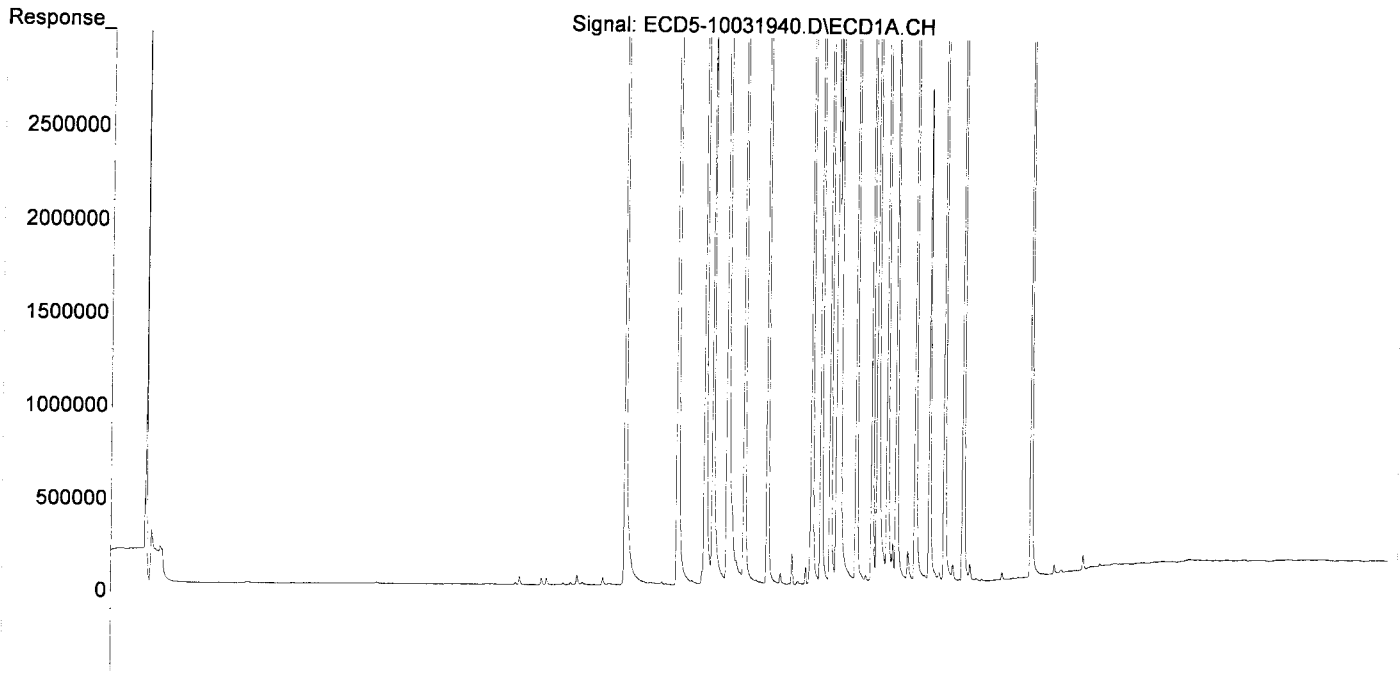
MB 10/4/19

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-10\9J03031\
Data File : ECD5-10031940.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Oct 2019 22:55
Operator : MJB
Sample : 9J03031-CCV5
Misc : A19H383, AB 50 ppb
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

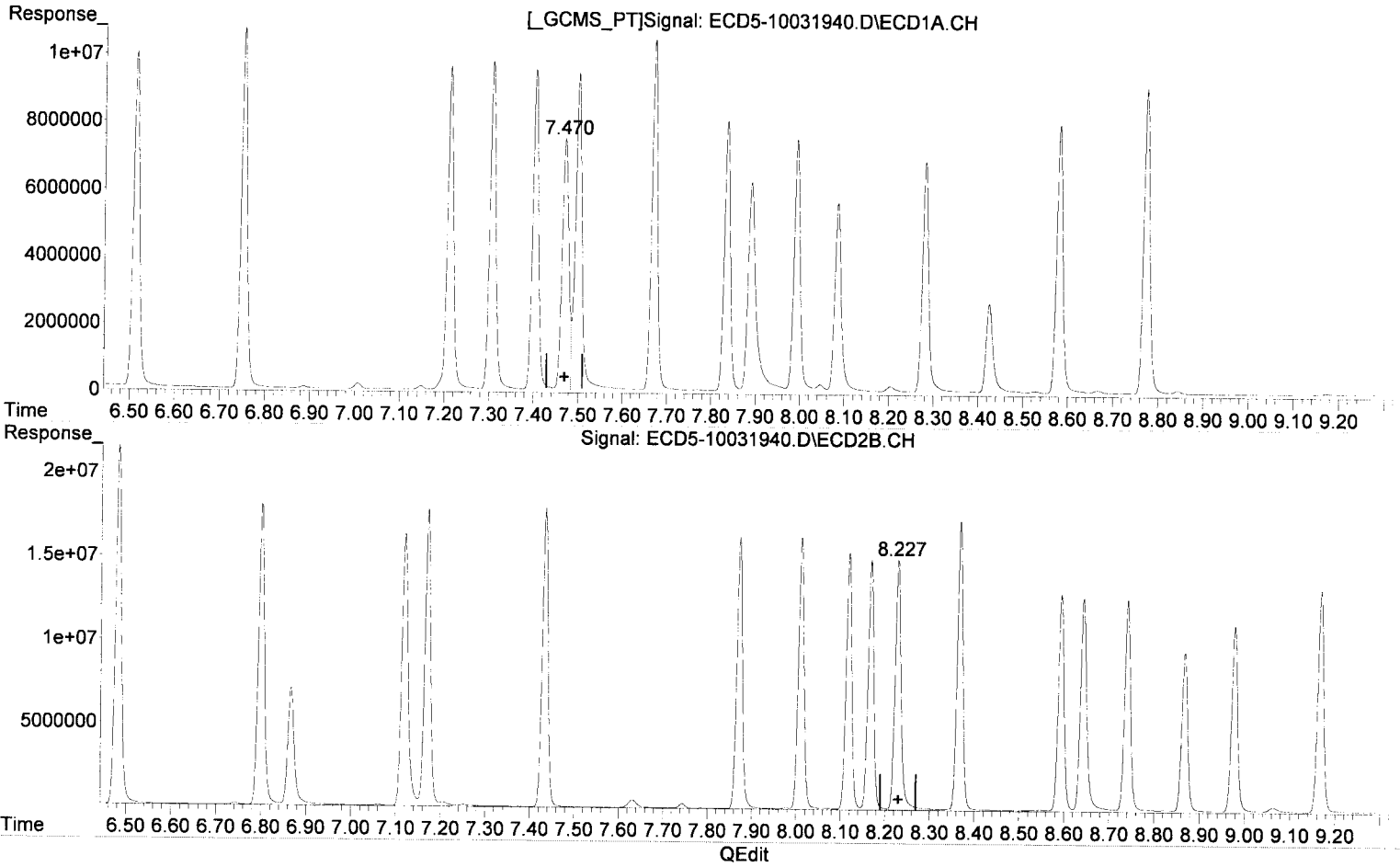
Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 04 17:38:12 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J03031\
Data File : ECD5-10031940.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Oct 2019 22:55
Operator : MJB
Sample : 9J03031-CCV5
Misc : A19H383, AB 50 ppb
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 04 10:23:00 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(12) 4,4'-DDE

7.470min 39.711 ng/mL
response 7486651

MJB
10/4/19

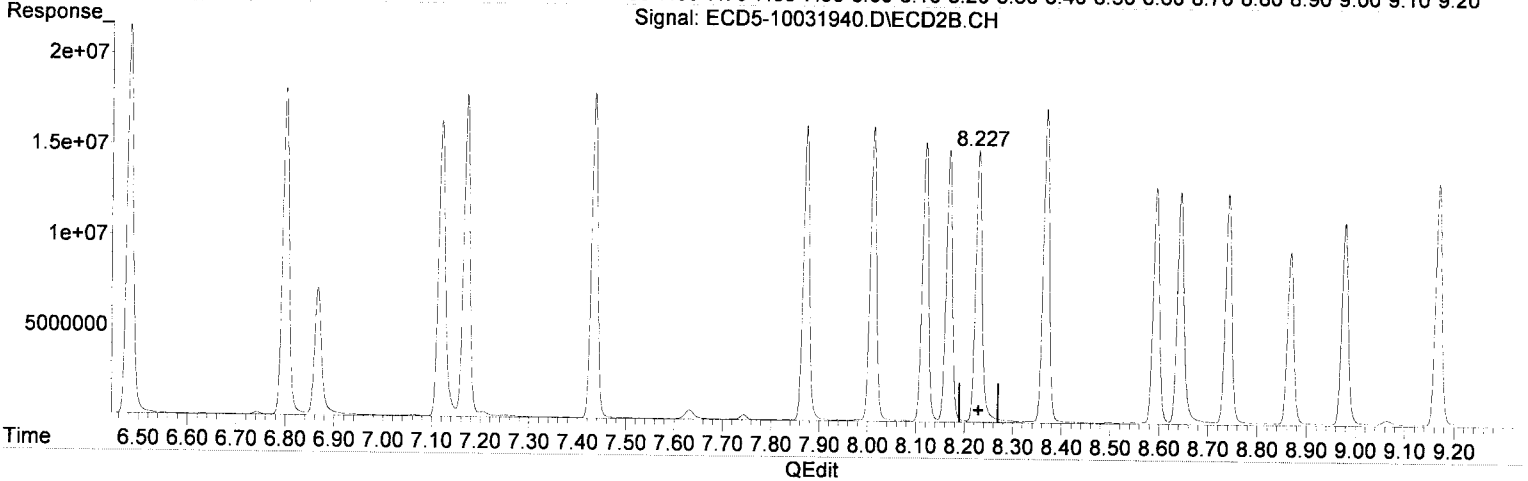
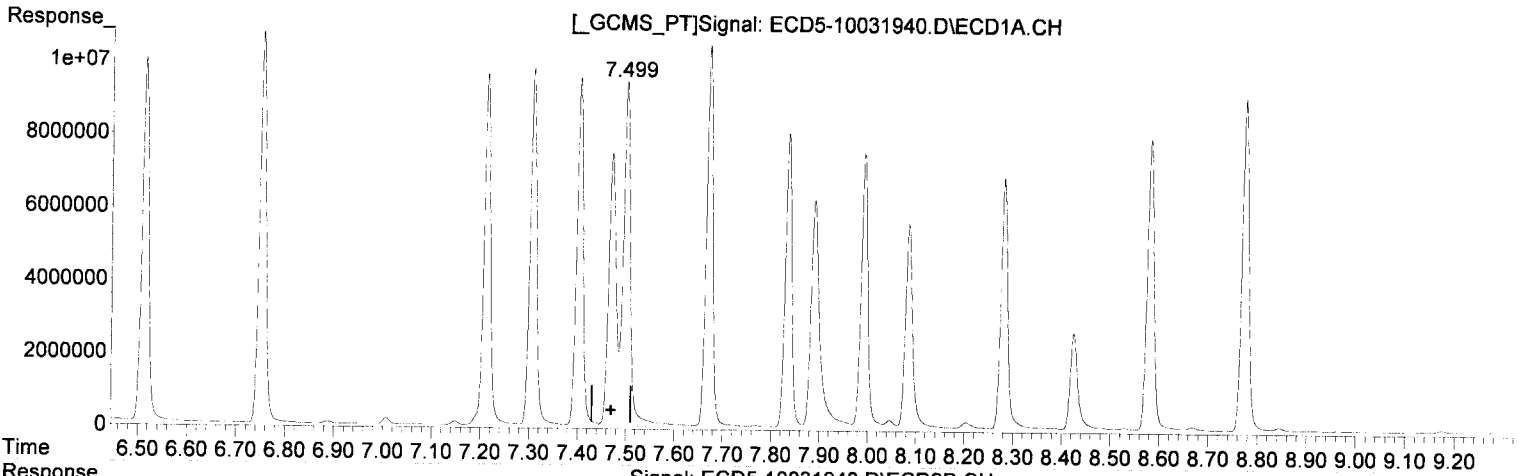
(12) 4,4'-DDE #2

8.228min 47.904 ng/mL
response 14882820

Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J03031\
Data File : ECD5-10031940.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Oct 2019 22:55
Operator : MJB
Sample : 9J03031-CCV5
Misc : A19H383, AB 50 ppb
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 04 10:23:00 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(12) 4,4'-DDE
7.499min 49.859 ng/mL
response 9389974

MJB
10/4/19

(12) 4,4'-DDE #2
8.228min 47.904 ng/mL
response 14882820

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-10\9J03031\
 Data File : ECD5-10031940.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 03 Oct 2019 22:55
 Operator : MJB
 Sample : 9J03031-CCV5
 Misc : A19H383, AB 50 ppb
 ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Oct 04 10:23:00 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB
10/4/19

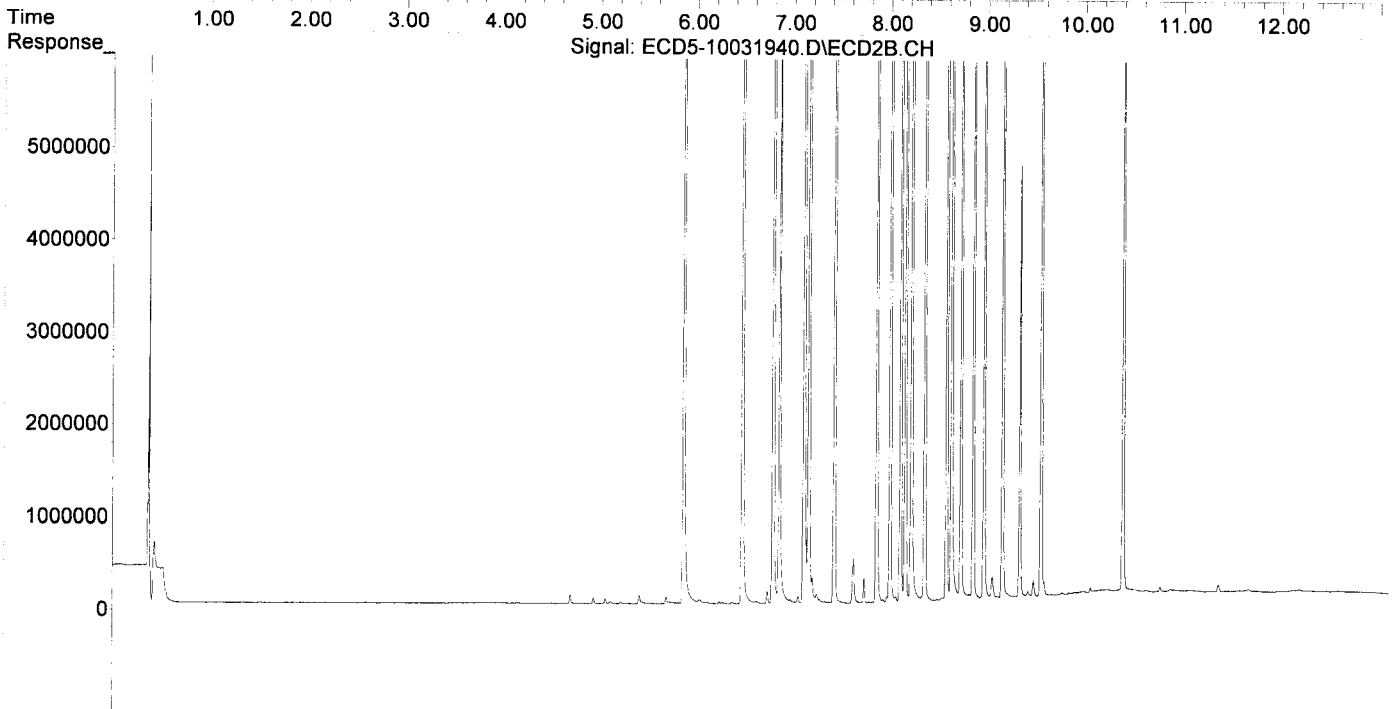
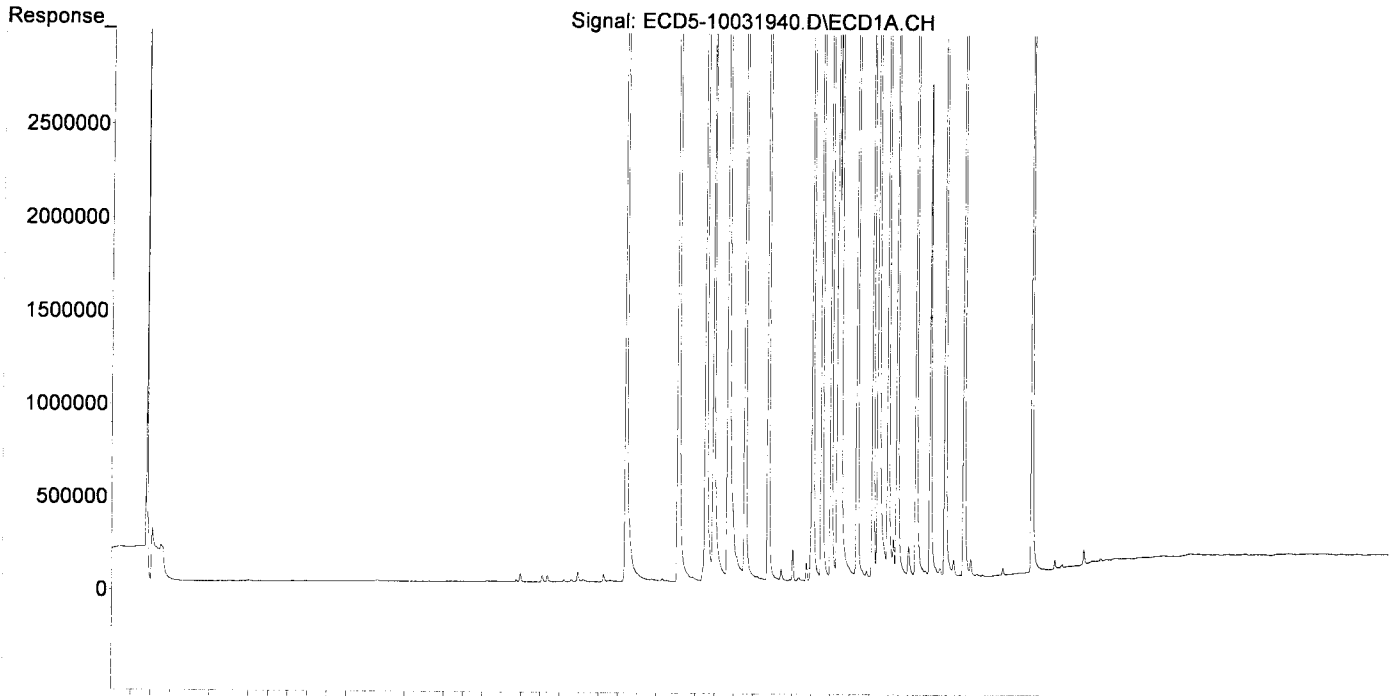
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.280	5.874	7929182	13800907	47.773	47.043
22) S DCBP (S)	9.471	10.400	6551149	9324314	46.430	51.870
Target Compounds						
2) a-BHC	5.821	6.481	11072604	21456837	48.283	52.290
3) g-BHC	6.106	6.799	9169686	17977817	45.445	50.400
4) b-BHC	6.187	6.866	3408198	7025026	37.708	44.387
5) Heptachlor	6.513	7.170	9918919	17696025	54.711	57.834
6) d-BHC	6.337	7.119	7014170	16264442	35.661	46.119
7) Aldrin	6.752	7.434	10658421	17855239	53.982	54.207
8) Heptachlo...	7.212	7.871	9567222	16197697	51.945	53.840
9) trans-Chl...	7.307	8.010	9679490	16180986	52.352	51.643
10) cis-Chlor...	7.403	8.118	9470609	15328339	52.016	52.630
11) Endosulfa...	7.499	8.167	9399974	14916373	55.236	54.207
12) 4,4'-DDE	7.499f	8.228	9399974	14882820	49.859	47.904
13) Dieldrin	7.671	8.367	10349192	17202675	53.908	56.560
14) Endrin	7.835	8.592	8077801	12928598	54.669	57.250
15) 4,4'-DDD	7.890	8.642	6188532	12691419	39.382	49.534
16) Endosulfa...	7.992	8.740	7487024	12619135	52.134	54.722
17) 4,4'-DDT	8.084	8.867	5555508	9477954	46.466	50.371
18) Endrin Al...	8.281	8.977	6816342	11072203	55.436	56.022
19) Endosulfa...	8.581	9.167	7935824	13237787	51.206	53.145
20) Methoxychlor	8.425	9.346	2605174	4672026	44.476	51.908
21) Endrin Ke...	8.774	9.563	8920216	14820322	53.492	57.596
23) Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
24) Hexachlor...	5.661	6.376f	15102	10189	0.086	0.032 #
25) Oxychlordane	7.148	7.803	92595	7870	0.563	0.029 #
26) 2,4'-DDE	7.212	8.010	9567222	16180986	74.592	76.276
27) trans-Non...	7.403	8.071	9470609	57610	52.576	0.191 #
28) 2,4'-DDD	0.000	8.367	0	17202675	N.D.	91.085 #
29) 2,4'-DDT	7.770	8.592	42198	12928598	0.385	72.494 #
30) cis-Nonac...	7.890f	8.642	6188532	12691419	29.808	37.834
31) Mirex	8.528	9.563	47313	14820322	0.377	79.648 #
32) Chlordane...	0.000	8.071	0	57610	N.D.	1.592 #
33) Chlordane...	0.000	8.167	0	14916373	N.D.	491.251 #
34) Chlordane...	7.992	8.828	7487024	45392	1295.082	5.063 #
35) Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36) Toxaphene...	7.403f	8.367f	9470609	17202675	10574.037	6555.253
37) Toxaphene...	0.000	8.740	0	12619135	N.D.	3834.409 #
38) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.
39) Toxaphene...	8.281	8.867	6816342	9477954	2103.710	1135.107 #
40) Toxaphene...	8.528f	9.064f	47313	226573	19.737	48.617 #
41) Toxaphene...	8.581	9.431f	7935824	53157	2507.700	11.190 #
42) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-10\9J03031\
Data File : ECD5-10031940.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Oct 2019 22:55
Operator : MJB
Sample : 9J03031-CCV5
Misc : A19H383, AB 50 ppb
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 04 10:23:00 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-10\9J03031\
 Data File : ECD5-10031941.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 03 Oct 2019 23:13
 Operator : MJB
 Sample : 9J03031-CCV6
 Misc : A19E154, 9-42 50 ppb
 ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Oct 04 10:23:06 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
 Quant Title : Instrument: DualeCD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 10/4/19

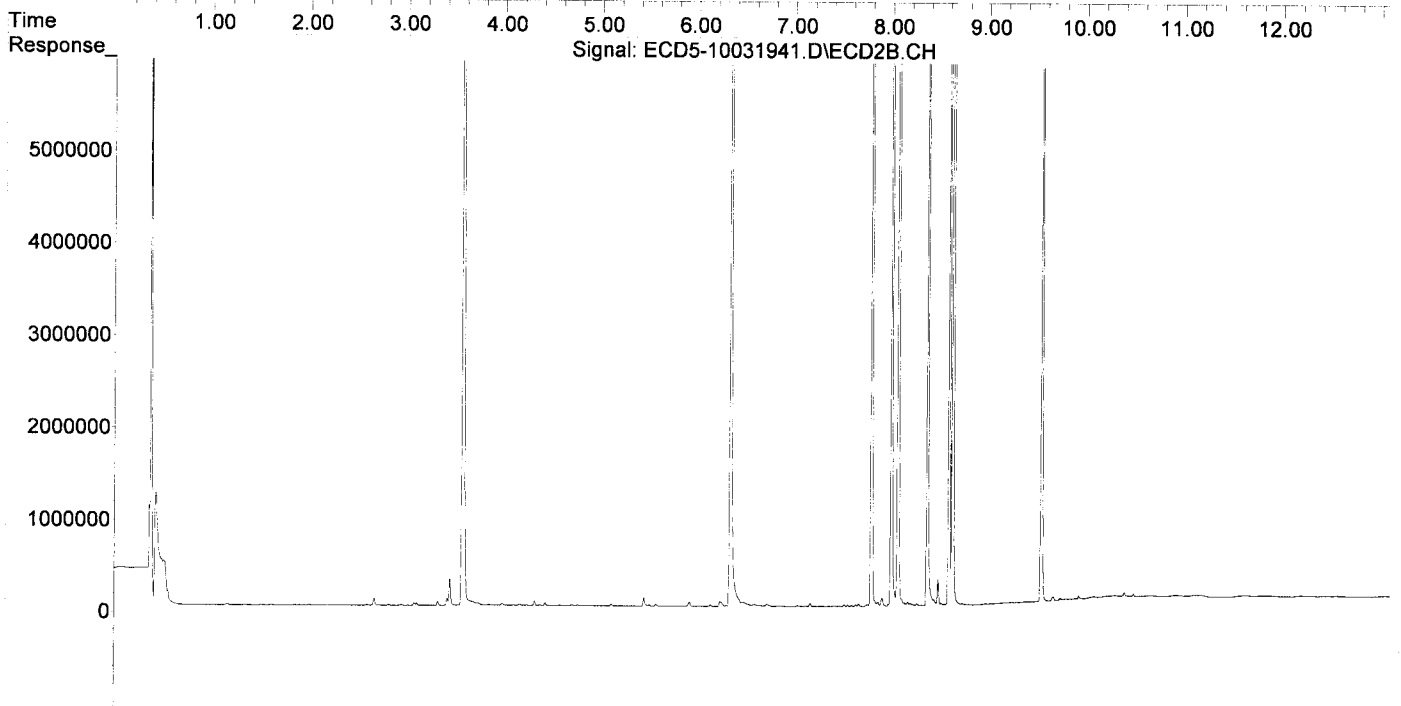
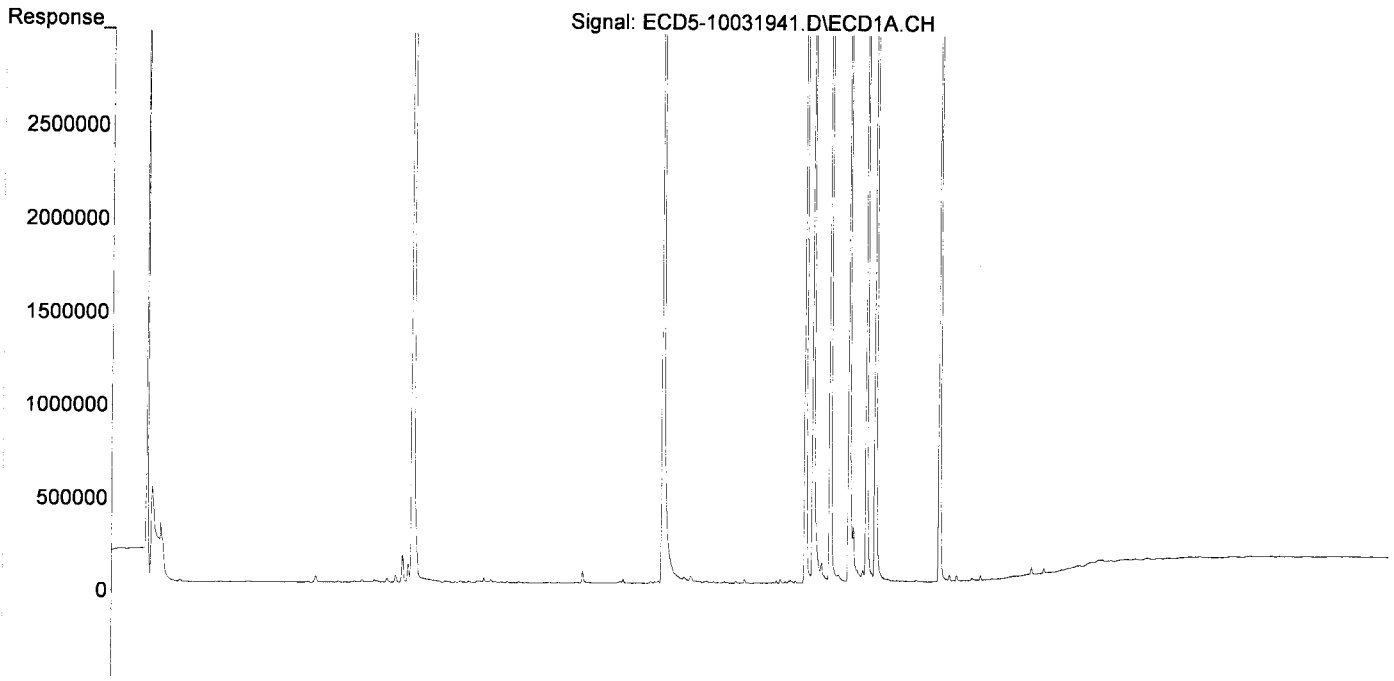
Compound		RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
System Monitoring Compounds								
1)	S TCMX (S)	5.253f	0.000	20662	0	0.124	N.D.	#
22)	S DCBP (S)	9.469	10.398	46372	39125	0.329	0.218	
Target Compounds								
2)	a-BHC	0.000	6.482	0	45123	N.D.	0.110	#
3)	g-BHC	6.116	0.000	10571	0	0.052	N.D.	#
4)	b-BHC	6.192	0.000	8548	0	0.095	N.D.	#
5)	Heptachlor	6.510	7.168	21329	35471	0.118	0.116	
6)	d-BHC	6.335	7.120	5502	7153	0.028	0.020	
7)	Aldrin	6.717f	7.410f	2621	5534	0.013	0.017	
8)	Heptachlo...	7.218	7.869	5986636	44482	32.505	0.148	#
9)	trans-Chl...	7.305	8.006	108702	11171682	0.588	35.655	#
10)	cis-Chlor...	7.395	0.000	10504571	0	57.695	N.D.	#
11)	Endosulfa...	7.481f	8.180	40986	40023	0.241	0.145	
12)	4,4'-DDE	7.481	8.205f	40986	22705	0.217	0.073	#
13)	Dieldrin	0.000	8.377	0	10097795	N.D.	33.200	#
14)	Endrin	7.862f	8.600	11520065	9550650	78.353	42.292	#
15)	4,4'-DDD	7.862f	8.637	11520065	19439530	73.311	75.872	
16)	Endosulfa...	0.000	0.000	0	0	N.D.	N.D.	
17)	4,4'-DDT	0.000	0.000	0	0	N.D.	N.D.	
18)	Endrin Al...	8.287	8.978	9833	7617	BelowCal	BelowCal	
19)	Endosulfa...	0.000	9.168	0	6881	N.D.	0.028	#
20)	Methoxychlor	0.000	0.000	0	0	N.D.	N.D.	
21)	Endrin Ke...	8.774	9.551	3163	10474662	0.019	40.707	#
23)	Hexachlor...	3.080	3.572	10945183	22709416	59.895	60.408	
24)	Hexachlor...	5.661	6.339	7911972	14938434	44.879	47.561	
25)	Oxychlorane	7.138	7.799	8986532	15222639	54.617	55.577	
26)	2,4'-DDE	7.218	8.006	5986636	11171682	46.675 ✓	52.662 ✓	
27)	trans-Non...	7.395	8.074	10504571	17060729	58.354	56.561	
28)	2,4'-DDD	7.589	8.377	5621424	10097795	49.257 ✓	53.466 ✓	
29)	2,4'-DDT	7.770	8.600	5509421	9550650	50.228 ✓	53.553 ✓	
30)	cis-Nonac...	7.862	8.637	11520065	19439530	55.488	57.951	
31)	Mirex	8.525	9.551	6844613	10474662	54.597	56.293	
32)	Chlordane...	7.395f	8.074	10504571	17060729	533.508	471.492	
33)	Chlordane...	7.481f	8.180	40986	40023	1.635	1.318	
34)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
35)	Chlordane...	3.411f	0.000	6630	0	NoCal	N.D.	
36)	Toxaphene...	7.395f	8.377f	10504571	10097795	11728.467	3847.867	#
37)	Toxaphene...	7.734	0.000	63469	0	39.301	N.D.	#
38)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	
39)	Toxaphene...	8.287	0.000	9833	0	3.035	N.D.	#
40)	Toxaphene...	8.525	9.032	6844613	1982	2855.322	0.425	#
41)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	
42)	Toxaphene...	3.411f	0.000	6630	0	NoCal	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-10\9J03031\
Data File : ECD5-10031941.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Oct 2019 23:13
Operator : MJB
Sample : 9J03031-CCV6
Misc : A19E154, 9-42 50 ppb
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 04 10:23:06 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : R:\data\2019-10\9J03031\
 Data File : ECD5-10031942.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 03 Oct 2019 23:30
 Operator : MJB
 Sample : 9J03031-CCB3
 Misc : A19I233
 ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Oct 04 10:23:12 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*MJB
10/4/19*

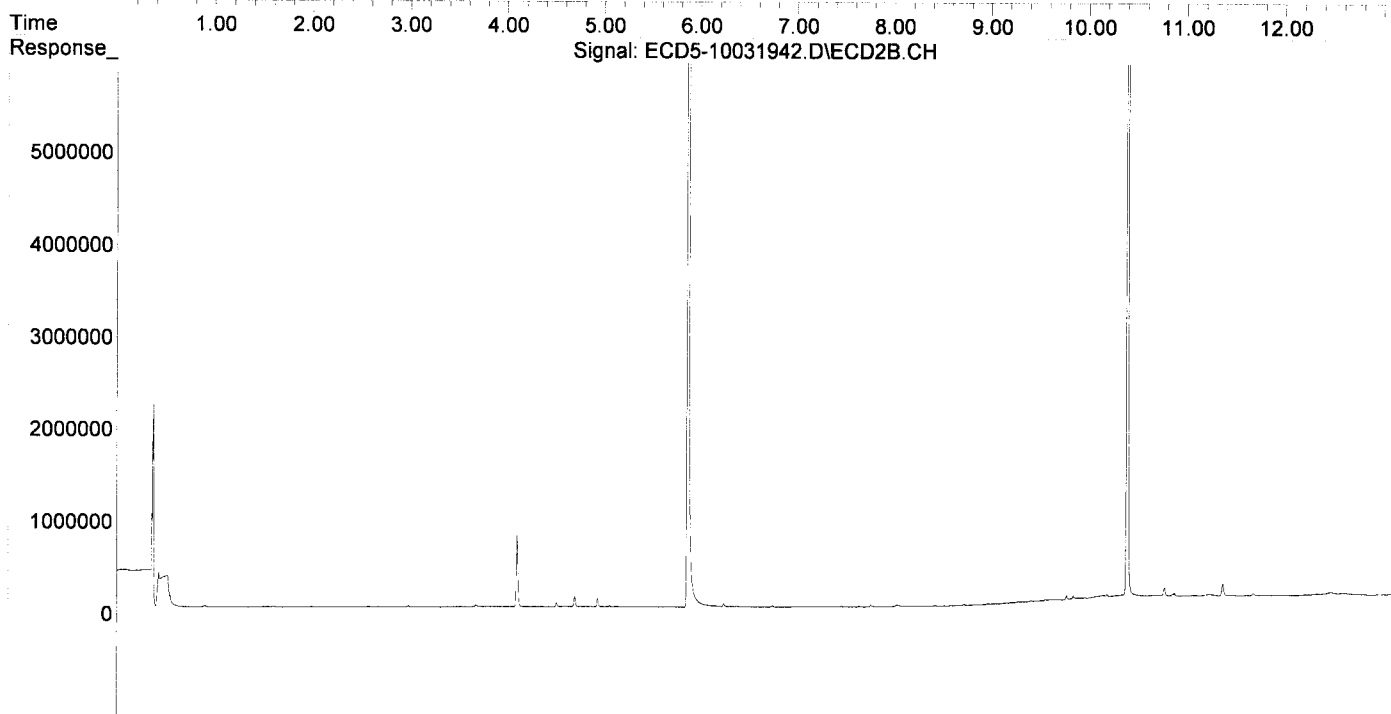
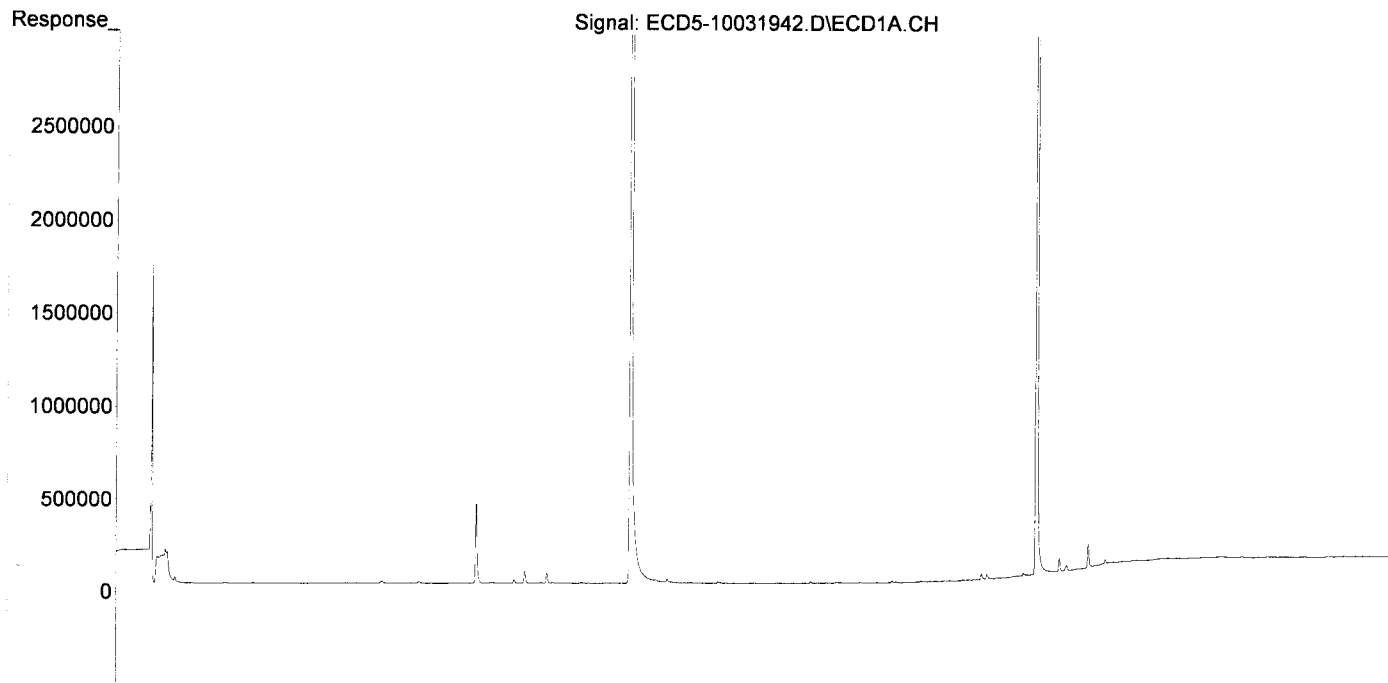
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL

System Monitoring Compounds						
1) S TCMX (S)	5.280	5.874	13721311	24207042	82.671	82.515
22) S DCBP (S)	9.471	10.400	11592050	16769042	82.156	93.284
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D.	N.D.
3) g-BHC	0.000	0.000	0	0	N.D.	N.D.
4) b-BHC	6.188	0.000	7320	0	0.081	N.D. #
5) Heptachlor	0.000	0.000	0	0	N.D.	N.D.
6) d-BHC	0.000	0.000	0	0	N.D.	N.D.
7) Aldrin	0.000	7.466f	0	7283	N.D.	0.022 #
8) Heptachlo...	7.214	0.000	3527	0	0.019	N.D. #
9) trans-Chl...	7.305	8.036f	4126	13064	0.022	0.042 #
10) cis-Chlor...	7.419	0.000	5338	0	0.029	N.D. #
11) Endosulfa...	0.000	0.000	0	0	N.D.	N.D.
12) 4,4'-DDE	0.000	0.000	0	0	N.D.	N.D.
13) Dieldrin	7.661	0.000	2870	0	0.015	N.D. #
14) Endrin	0.000	0.000	0	0	N.D.	N.D.
15) 4,4'-DDD	0.000	0.000	0	0	N.D.	N.D.
16) Endosulfa...	7.986	8.728	7811	11537	0.054	0.050
17) 4,4'-DDT	0.000	0.000	0	0	N.D.	N.D.
18) Endrin Al...	8.285	0.000	4559	0	BelowCal	N.D.
19) Endosulfa...	8.584	0.000	2246	0	0.014	N.D. #
20) Methoxychlor	8.427	0.000	2529	0	0.043	N.D. #
21) Endrin Ke...	8.781	9.566	1290	6760	0.008	0.026 #
23) Hexachlor...	3.094	0.000	8080	0	0.044	N.D. #
24) Hexachlor...	5.661	6.307f	15953	2101	0.090	0.007 #
25) Oxychlorane	7.144	7.789	10017	8166	0.061	0.030 #
26) 2,4'-DDE	7.214	8.036f	3527	13064	0.027	0.062 #
27) trans-Non...	7.419f	0.000	5338	0	87346.671	N.D. #
28) 2,4'-DDD	0.000	0.000	0	0	N.D.	N.D.
29) 2,4'-DDT	0.000	0.000	0	0	N.D.	N.D.
30) cis-Nonac...	0.000	0.000	0	0	N.D.	N.D.
31) Mirex	8.532	9.566	4762	6760	0.038	0.036
32) Chlordane...	0.000	8.036f	0	13064	N.D.	0.361 #
33) Chlordane...	7.419f	0.000	5338	0	0.213	N.D. #
34) Chlordane...	7.986	0.000	7811	0	1.351	N.D. #
35) Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36) Toxaphene...	7.419	8.432f	5338	4442	5.960	1.692 #
37) Toxaphene...	0.000	8.728	0	11537	N.D.	3.505 #
38) Toxaphene...	8.026	0.000	3963	0	1.177	N.D. #
39) Toxaphene...	8.285	0.000	4559	0	1.407	N.D. #
40) Toxaphene...	8.532f	0.000	4762	0	1.986	N.D. #
41) Toxaphene...	8.584	9.418	2246	8021	0.710	1.689 #
42) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Data Path : R:\data\2019-10\9J03031\
Data File : ECD5-10031942.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Oct 2019 23:30
Operator : MJB
Sample : 9J03031-CCB3
Misc : A19I233
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 04 10:23:12 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT3.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



**Organochloride Pesticides by EPA 8081B
Benchsheet & Analysis Sequence Data**

Sequence 9J07042 (A9I0771-01RE2,05RE2)



ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence: **9J07042**

Instrument: **DUALECD5**

Date: **10/07/19 10:50**

Calibration: **A9H2608**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	9J07042-BKD1	Sediment	QC	QC				A19G138
2	9J07042-CCV1	Sediment	QC	QC				A19H383
3	9J07042-CCV2	Sediment	QC	QC				A19E154
4	9J07042-CCB1	Sediment	QC	QC				A19I233
5	A9I0936-02RE2	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	10/11/19	9100576		
6	A9I0771-01RE2	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	10/08/19	9091407		
7	9J07042-IBL1	Sediment	QC	QC				
8	9091407-DUP2	Sediment	QC	QC		9091407		
9	9J07042-IBL2	Sediment	QC	QC				
10	A9I0771-05RE2	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	10/08/19	9091407		
11	9J07042-IBL3	Sediment	QC	QC				
12	9J07042-IBL4	Sediment	QC	QC				
13	9J07042-IBL5	Sediment	QC	QC				
14	A9I0879-05RE2	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	10/10/19	9100497		
15	9J07042-IBL6	Sediment	QC	QC				
16	9J07042-IBL7	Sediment	QC	QC				
17	9J07042-IBL8	Sediment	QC	QC				
18	A9I0879-07RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	10/10/19	9100497		
19	9J07042-IBL9	Sediment	QC	QC				
20	9J07042-IBLA	Sediment	QC	QC				
21	9J07042-IBLB	Sediment	QC	QC				
22	9J07042-CCV3	Sediment	QC	QC				A19H384
23	9J07042-CCV4	Sediment	QC	QC				A19E155
24	9J07042-CCB2	Sediment	QC	QC				A19I233
25	A9I0879-06RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	10/10/19	9100497		
26	9J07042-IBLC	Sediment	QC	QC				
27	9J07042-IBLD	Sediment	QC	QC				
28	9J07042-IBLE	Sediment	QC	QC				
29	9100497-MS1	Sediment	QC	QC		9100497		
30	9J07042-IBLF	Sediment	QC	QC				
31	9J07042-IBLG	Sediment	QC	QC				
32	9J07042-IBLH	Sediment	QC	QC				
33	9100497-MSD1	Sediment	QC	QC		9100497		
34	9J07042-IBLI	Sediment	QC	QC				
35	9J07042-IBLJ	Sediment	QC	QC				
36	9J07042-IBLK	Sediment	QC	QC				
37	9J07042-CCV5	Sediment	QC	QC				A19H383
38	9J07042-CCV6	Sediment	QC	QC				A19E154
39	9J07042-CCB3	Sediment	QC	QC				A19I233
40	9J07042-IBLL	Sediment	QC	QC				
41	9J07042-IBLM	Sediment	QC	QC				

Data Entered By: MJB 10/8/19

Comments:

Data Reviewed By: [Signature] 10/8/19

Pesticide BKD

Pesticide Breakdown Check (Validated 8/8/2013)

Sequence: 9J07042 BKD1
Data File: ECD5-10071903.D

First Column Area Counts		Percent Breakdown	
DDE	1316820		
DDD	10096218		
DDT	115764414	8.97	PASS
Endrin	70590201	14.59	PASS
Endrin Aldehyde	3955359		
Endrin Ketone	8102021		

Second Column Area Counts		Percent Breakdown	
DDE	1833040		
DDD	14691414		
DDT	179403971	8.43	PASS
Endrin	106269884	13.36	PASS
Endrin Aldehyde	5118834		
Endrin Ketone	11270339		

Breakdown must be less than 15% to accept sample data.

MB
10/7/13

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\4\data\2019-10\9J07042\
 Data File : ECD5-10071903.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 07 Oct 2019 11:37
 Operator : MJB
 Sample : 9J07042-BKD1
 Misc : A19G138
 ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Oct 07 11:52:42 2019
 Quant Method : C:\msdchem\4\methods\PestBreakdownCHK_190823RT4.M
 Quant Title : Pesticides
 QLast Update : Thu Aug 21 11:53:22 2014
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Compound	R.T.	Response	Conc	Units

Target Compounds				
1) 4,4'-DDE	7.458	1316820	NoCal	ng/mL
2) Endrin	7.820	70590201	NoCal	ng/mL
3) 4,4'-DDD	7.875	10096218	NoCal	ng/mL
4) 4,4'-DDT	8.070	115764414	NoCal	ng/mL
5) Endrin Aldehyde	8.267	3955359	NoCal	ng/mL
6) Endrin Ketone	8.758	8102021	NoCal	ng/mL
8) 4,4'-DDE [2C]	8.216	1833040	NoCal	ng/mL
9) Endrin [2C]	8.580	106269884	NoCal	ng/mL
10) 4,4'-DDD [2C]	8.629	14691414	NoCal	ng/mL
11) Endrin Aldehyde [2C]	8.964	5118834	NoCal	ng/mL
12) 4,4'-DDT [2C]	8.854	179403971	NoCal	ng/mL
13) Endrin Ketone [2C]	9.548	11270339	NoCal	ng/mL

(f)=RT Delta > 1/2 Window

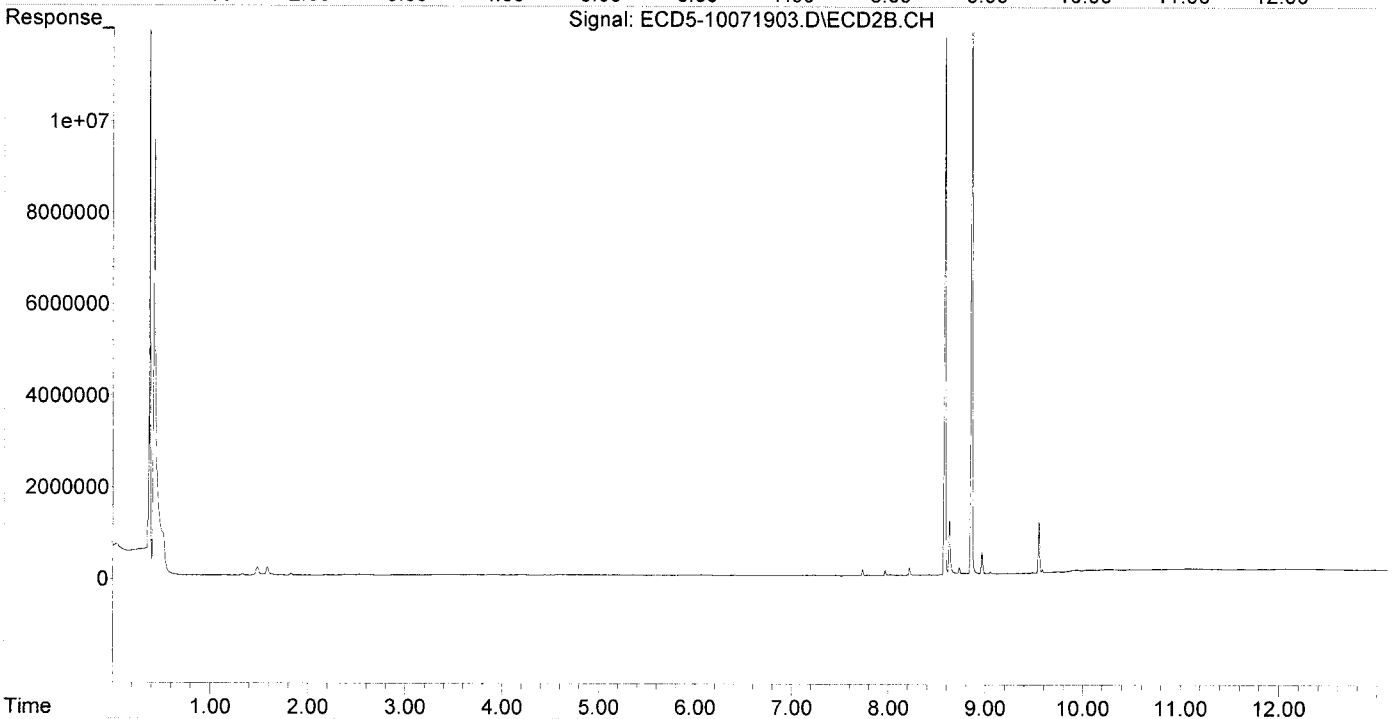
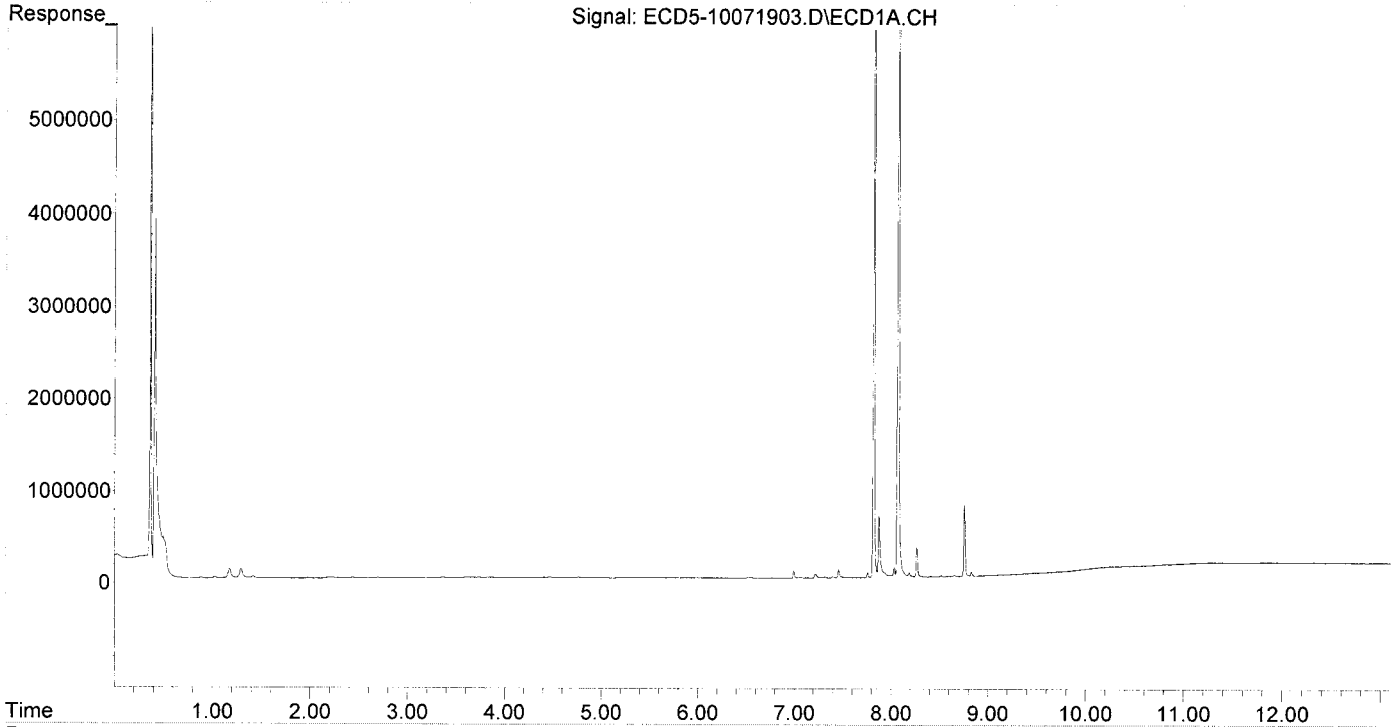
(m)=manual int.

MJB
10/7/19

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\4\data\2019-10\9J07042\
Data File : ECD5-10071903.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Oct 2019 11:37
Operator : MJB
Sample : 9J07042-BKD1
Misc : A19G138
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 07 11:52:42 2019
Quant Method : C:\msdchem\4\methods\PestBreakdownCHK_190823RT4.M
Quant Title : Pesticides
QLast Update : Thu Aug 21 11:53:22 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : R:\data\2019-10\9J07042\
 Data File : ECD5-10071904.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 07 Oct 2019 11:58
 Operator : MJB
 Sample : 9J07042-CCV1
 Misc : A19H383, AB 50 ppb
 ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Oct 07 17:51:51 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823RT4.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB
197.1

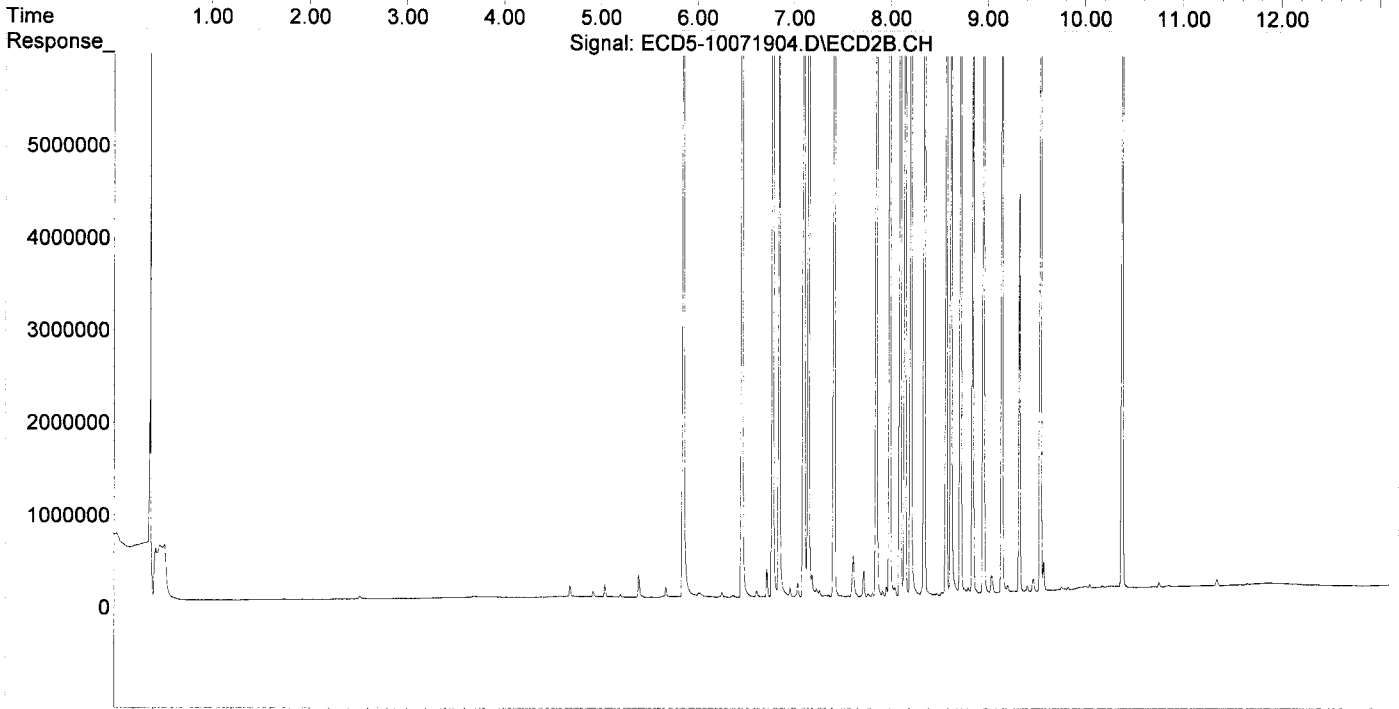
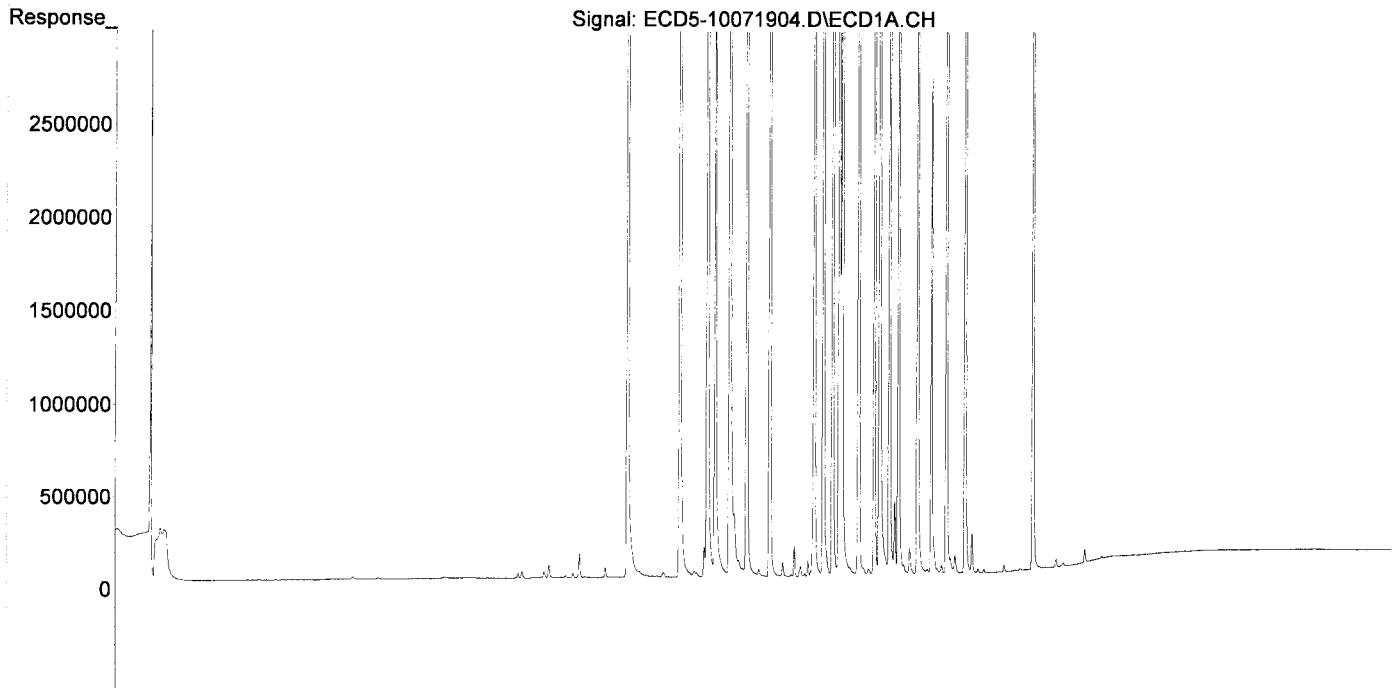
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.264	5.857	7961117	14774497	47.966	50.362
22) S DCBP (S)	9.453	10.383	6591182	8798303	46.713	48.944
Target Compounds						
2) a-BHC	5.805	6.466	10675298	20457054	46.550	49.854
3) g-BHC	6.091	6.784	8744014	16827708	43.335	47.176
4) b-BHC	6.171	6.851	3476112	7122156	38.460	45.001
5) Heptachlor	6.497	7.155	8580720	15225643	47.330	49.761
6) d-BHC	6.321	7.104	7511776	16554656	38.191	46.941
7) Aldrin	6.737	7.419	10246452	17522287	51.895	53.196
8) Heptachlo...	7.197	7.857	9089240	15009519	49.350	49.891
9) trans-Chl...	7.291	7.996	9224213	15467424	49.890	49.365
10) cis-Chlor...	7.388	8.103	9021003	14950144	49.547	51.332
11) Endosulfa...	7.484	8.153	8397142	13525827	49.343	49.153
12) 4,4'-DDE	7.454	8.214	7837286	14436122	41.571	46.467
13) Dieldrin	7.655	8.353	9777843	16271465	50.932	53.498
14) Endrin	7.819	8.578	7172219	10981930	48.782	48.630
15) 4,4'-DDD	7.873	8.627	6249758	11738738	39.772	45.816
16) Endosulfa...	7.976	8.726	6757962	11559324	47.057	50.126
17) 4,4'-DDT	8.069	8.851	5416688	8863250	45.305	47.353
18) Endrin Al...	8.265	8.962	6129006	9875154	49.930	50.206
19) Endosulfa...	8.564	9.152	7228647	11924028	46.643	47.871
20) Methoxychlor	8.409	9.332	2649136	4324155	45.227	48.371
21) Endrin Ke...	8.757	9.548	7871401	12511527	47.202	48.623
23) Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
24) Hexachlor...	5.637	0.000	26418	0	0.150	N.D. #
25) Oxychlordane	7.133	7.773	81523	31181	0.495	0.114 #
26) 2,4'-DDE	7.197	7.996	9089240	15467424	70.865	72.912
27) trans-Non...	7.388	8.050	9021003	91482	50.064	0.303 #
28) 2,4'-DDD	0.000	8.353	0	16271465	N.D.	86.155 #
29) 2,4'-DDT	7.757	8.578	30815	10981930	0.281	61.579 #
30) cis-Nonac...	7.873f	8.627	6249758	11738738	30.103	34.994
31) Mirex	8.513	9.548	45364	12511527	0.362	67.240 #
32) Chlordane...	0.000	8.050	0	91482	N.D.	2.528 #
33) Chlordane...	7.454	8.153	7837286	13525827	312.687	445.455 #
34) Chlordane...	7.976	8.805	6757962	66806	1168.971	7.451 #
35) Chlordane...	3.367	0.000	4516	0	NoCal	N.D.
36) Toxaphene...	7.388f	8.353f	9021003	16271465	10072.047	6200.406
37) Toxaphene...	0.000	8.726	0	11559324	N.D.	3512.378 #
38) Toxaphene...	8.031	8.805f	389313	66806	115.609	13.181 #
39) Toxaphene...	8.265	8.851	6129006	8863250	1891.580	1061.488 #
40) Toxaphene...	8.513f	9.047f	45364	185074	18.924	39.712 #
41) Toxaphene...	8.564	9.415f	7228647	63630	2284.234	13.395 #
42) Toxaphene...	3.367	0.000	4516	0	NoCal	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-10\9J07042\
Data File : ECD5-10071904.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Oct 2019 11:58
Operator : MJB
Sample : 9J07042-CCV1
Misc : A19H383, AB 50 ppb
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 07 17:51:51 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT4.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : R:\data\2019-10\9J07042\
 Data File : ECD5-10071905.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 07 Oct 2019 12:19
 Operator : MJB
 Sample : 9J07042-CCV2
 Misc : A19E154, 9-42 50 ppb
 ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Oct 07 17:51:58 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823RT4.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

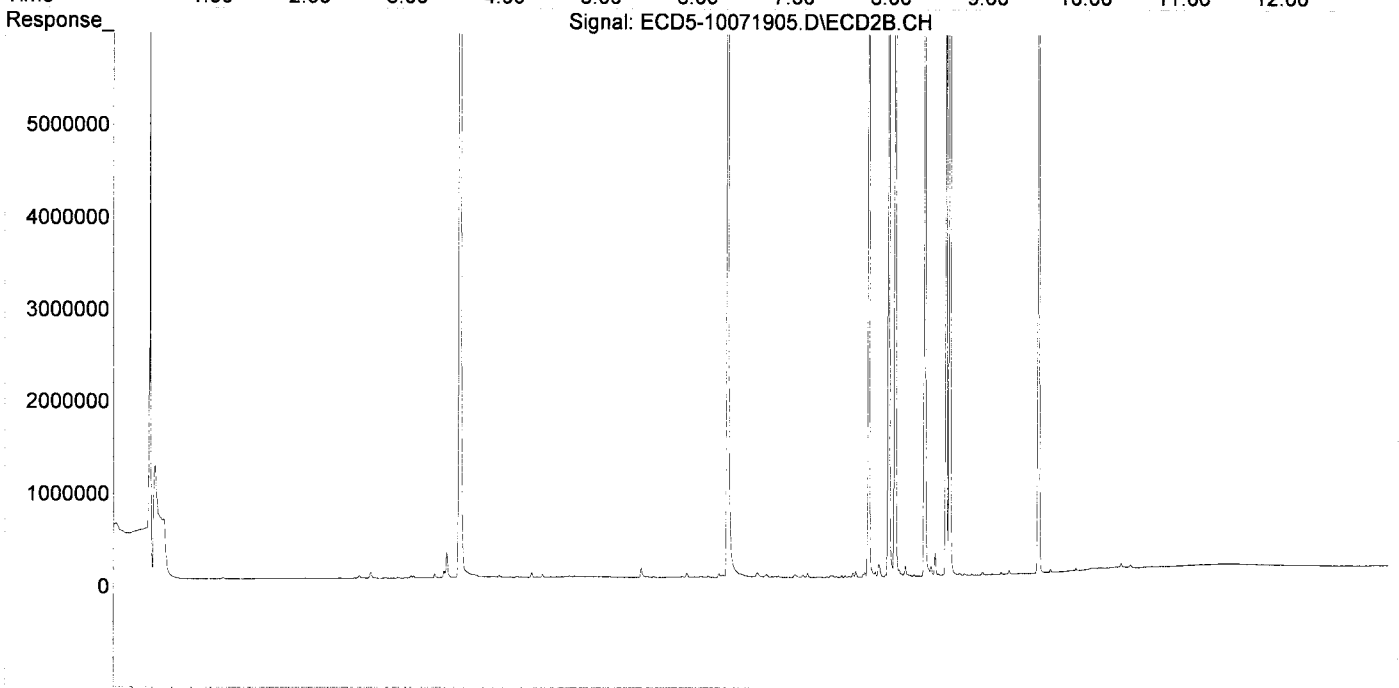
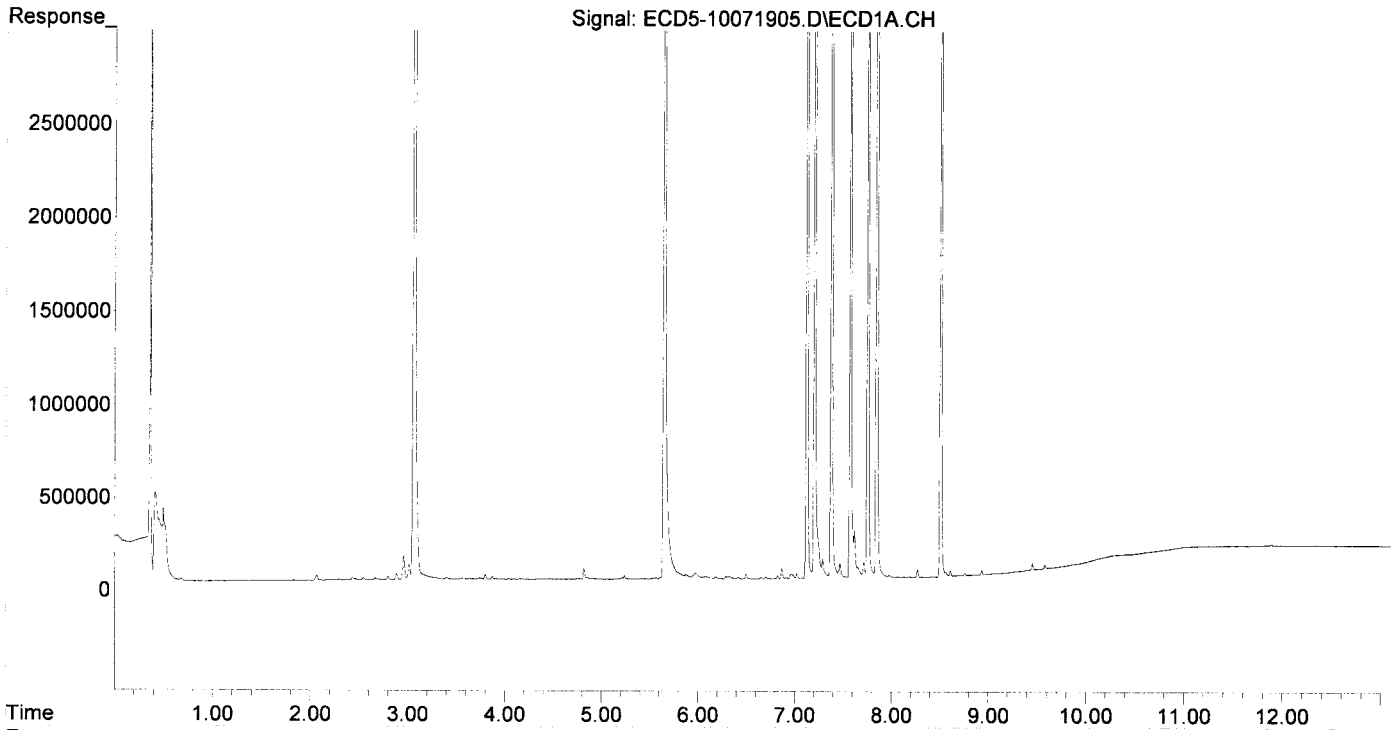
MJB
10/7/19

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.238f	5.856	18859	8076	0.114	0.028 #
22) S DCBP (S)	9.454	10.383	38919	60072	0.276	0.334
Target Compounds						
2) a-BHC	0.000	6.463	0	29860	N.D.	0.073 #
3) g-BHC	6.092	6.786	12413	9420	0.062	0.026 #
4) b-BHC	6.181	6.853	10734	12009	0.119	0.076
5) Heptachlor	6.499	7.154	26324	44887	0.145	0.147
6) d-BHC	6.325	7.105	14095	26287	0.072	0.075
7) Aldrin	6.736	7.416	4874	21636	0.025	0.066 #
8) Heptachlo...	7.204	7.855	5465441	51470	29.675	0.171 #
9) trans-Chl...	7.291	7.991	103386	10467175	0.559	33.407 #
10) cis-Chlor...	7.379	8.102	9290963	74285	51.029	0.255 #
11) Endosulfa...	7.470	8.166	79475	111266	0.467	0.404
12) 4,4'-DDE	7.470	0.000	79475	0	0.422	N.D. #
13) Dieldrin	7.619f	8.363	253877	9148282	1.322	30.078 #
14) Endrin	7.848f	8.586	10498702	8565169	71.407	37.928 #
15) 4,4'-DDD	7.848f	8.622	10498702	17363345	66.811	67.769
16) Endosulfa...	7.979	8.726	15620	21068	0.109	0.091
17) 4,4'-DDT	8.069	8.851	6406	8255	0.054	0.010 #
18) Endrin Al...	8.272	8.962	42070	28235	BelowCal	BelowCal
19) Endosulfa...	8.564	9.153	24577	21459	0.159	0.086 #
20) Methoxychlor	8.412	0.000	2312	0	0.039	N.D. #
21) Endrin Ke...	8.759	9.535	11429	9191121	0.069	35.719 #
23) Hexachlor...	3.061	3.551	9812304	21248593	53.696	56.522
24) Hexachlor...	5.646	6.324	7606028	14914293	43.144	47.485
25) Oxychlorane	7.124	7.786	8122542	13677100	49.366	49.934
26) 2,4'-DDE	7.204	7.991	5465441	10467175	42.612	49.341
27) trans-Non...	7.379	8.059	9290963	15405041	51.572	51.072
28) 2,4'-DDD	7.575	8.363	4986862	9148282	43.696	48.439
29) 2,4'-DDT	7.755	8.586	5183923	8565169	47.261	48.027
30) cis-Nonac...	7.848	8.622	10498702	17363345	50.568	51.761
31) Mirex	8.508	9.535	6074907	9191121	48.457	49.395
32) Chlordane...	7.379f	8.059	9290963	15405041	471.871	425.735
33) Chlordane...	7.470f	8.166	79475	111266	3.171	3.664
34) Chlordane...	7.979	8.851f	15620	8255	2.702	0.921 #
35) Chlordane...	3.396f	0.000	10064	0	NoCal	N.D.
36) Toxaphene...	7.379f	8.363f	9290963	9148282	10373.460	3486.045 #
37) Toxaphene...	7.717	8.726	82961	21068	51.371	6.402 #
38) Toxaphene...	0.000	8.775	0	13901	N.D.	2.743 #
39) Toxaphene...	8.272	8.851	42070	8255	12.984	0.989 #
40) Toxaphene...	8.508	0.000	6074907	0	2534.229	N.D. #
41) Toxaphene...	8.564	0.000	24577	0	7.766	N.D. #
42) Toxaphene...	3.396f	3.392f	10064	69974	NoCal	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Data Path : R:\data\2019-10\9J07042\
Data File : ECD5-10071905.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Oct 2019 12:19
Operator : MJB
Sample : 9J07042-CCV2
Misc : A19E154, 9-42 50 ppb
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 07 17:51:58 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT4.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : R:\data\2019-10\9J07042\
 Data File : ECD5-10071906.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 07 Oct 2019 13:21
 Operator : MJB
 Sample : 9J07042-CCB1
 Misc : A19I233
 ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Oct 07 17:52:04 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823RT4.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

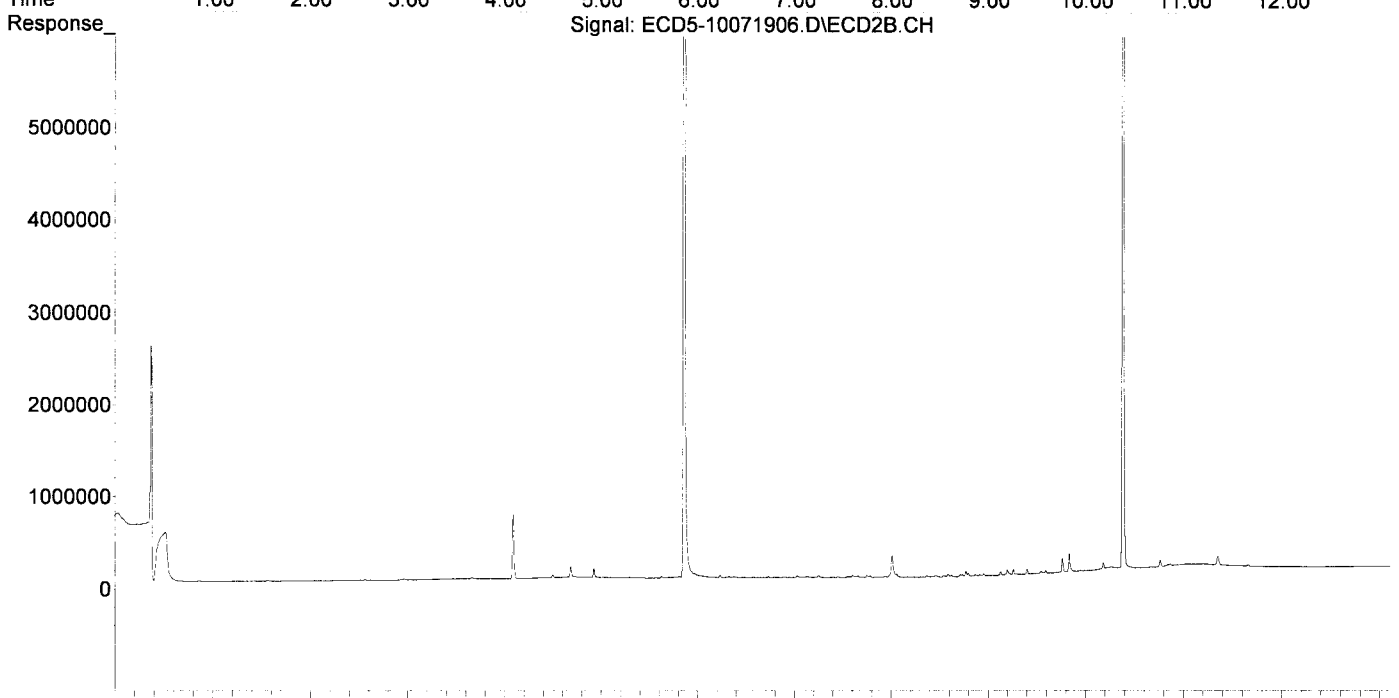
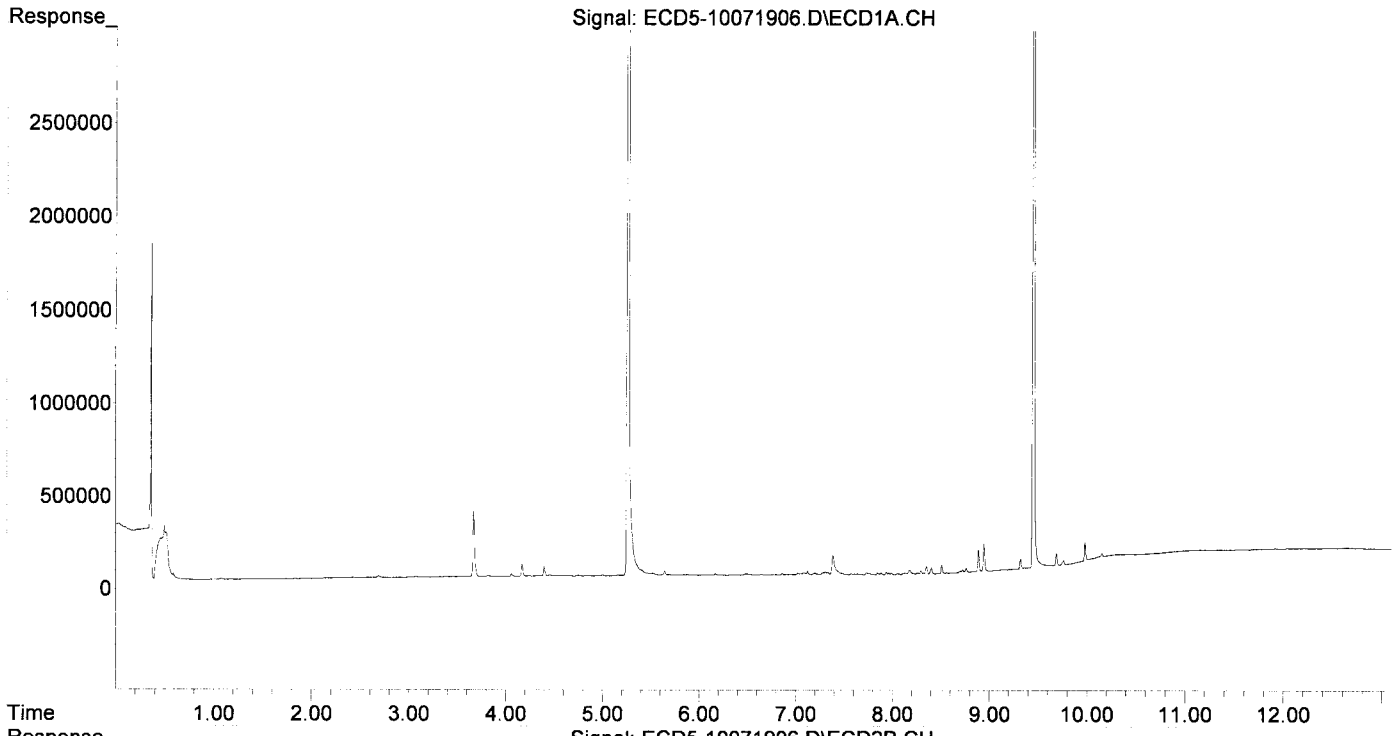
MJB
10/7/19

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.262	5.854	13810228	26985043	83.206	91.984
22) S DCBP (S)	9.451	10.381	10696204	15321986	75.807	85.234
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D.	N.D.
3) g-BHC	0.000	6.793	0	6711	N.D.	0.019 #
4) b-BHC	6.168	6.879f	7395	3702	0.082	0.023 #
5) Heptachlor	6.479	7.131f	7382	15234	0.041	0.050
6) d-BHC	0.000	7.099	0	7248	N.D.	0.021 #
7) Aldrin	6.772f	7.448f	3630	10508	0.018	0.032 #
8) Heptachlo...	7.202	7.867	10059	6568	0.055	0.022 #
9) trans-Chl...	7.306	8.009	15134	230447	0.082	0.735 #
10) cis-Chlor...	7.386	0.000	102926	0	0.565	N.D. #
11) Endosulfa...	0.000	0.000	0	0	N.D.	N.D.
12) 4,4'-DDE	0.000	0.000	0	0	N.D.	N.D.
13) Dieldrin	7.639	8.367	5568	14650	0.029	0.048 #
14) Endrin	7.847f	8.588	9468	24997	0.064	0.111 #
15) 4,4'-DDD	7.885	8.620	10304	17094	0.066	0.067
16) Endosulfa...	7.966	8.735	8468	19838	0.059	0.086 #
17) 4,4'-DDT	8.051	8.867	5544	13789	0.046	0.042
18) Endrin Al...	8.265	8.952	6583	12903	BelowCal	BelowCal
19) Endosulfa...	8.564	9.151	3050	5266	0.020	0.021
20) Methoxychlor	8.404	0.000	32242	0	0.550	N.D. #
21) Endrin Ke...	8.763	9.542	20133	21390	0.121	0.083
23) Hexachlor...	3.071	0.000	6070	0	0.033	N.D. #
24) Hexachlor...	5.644	6.320	23083	11490	0.131	0.037 #
25) Oxychlorane	7.124	7.782	20238	15105	0.123	0.055 #
26) 2,4'-DDE	7.202	8.009	10059	230447	0.078	1.086 #
27) trans-Non...	7.386	8.056	102926	31744	0.258	0.105 #
28) 2,4'-DDD	7.574	8.367	7272	14650	0.064	0.078
29) 2,4'-DDT	7.756	8.588	7552	24997	0.069	0.140 #
30) cis-Nonac...	7.847	8.620	9468	17094	0.046	0.051
31) Mirex	8.511	9.542	44265	21390	0.353	0.115 #
32) Chlordane...	7.330	8.056	14750	31744	0.749	0.877
33) Chlordane...	0.000	0.000	0	0	N.D.	N.D.
34) Chlordane...	7.992	8.795f	8302	29507	1.436	3.291 #
35) Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36) Toxaphene...	7.386f	8.388	102926	6695	114.918	2.551 #
37) Toxaphene...	7.732	8.735	11300	19838	6.997	6.028
38) Toxaphene...	8.051f	8.770	5544	47700	1.646	9.411 #
39) Toxaphene...	8.265	8.867f	6583	13789	2.032	1.651
40) Toxaphene...	8.511	0.000	44265	0	18.466	N.D. #
41) Toxaphene...	8.564	9.398	3050	55164	0.964	11.613 #
42) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Data Path : R:\data\2019-10\9J07042\
Data File : ECD5-10071906.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Oct 2019 13:21
Operator : MJB
Sample : 9J07042-CCB1
Misc : A19I233
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 07 17:52:04 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT4.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : R:\data\2019-10\9J07042\
 Data File : ECD5-10071908.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 07 Oct 2019 13:56
 Operator : MJB
 Sample : A9I0771-01RE2@20
 Misc : 20x, 8081B 2,4+4,4-DDx Only, GPC
 ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Oct 07 18:00:04 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823RT4.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

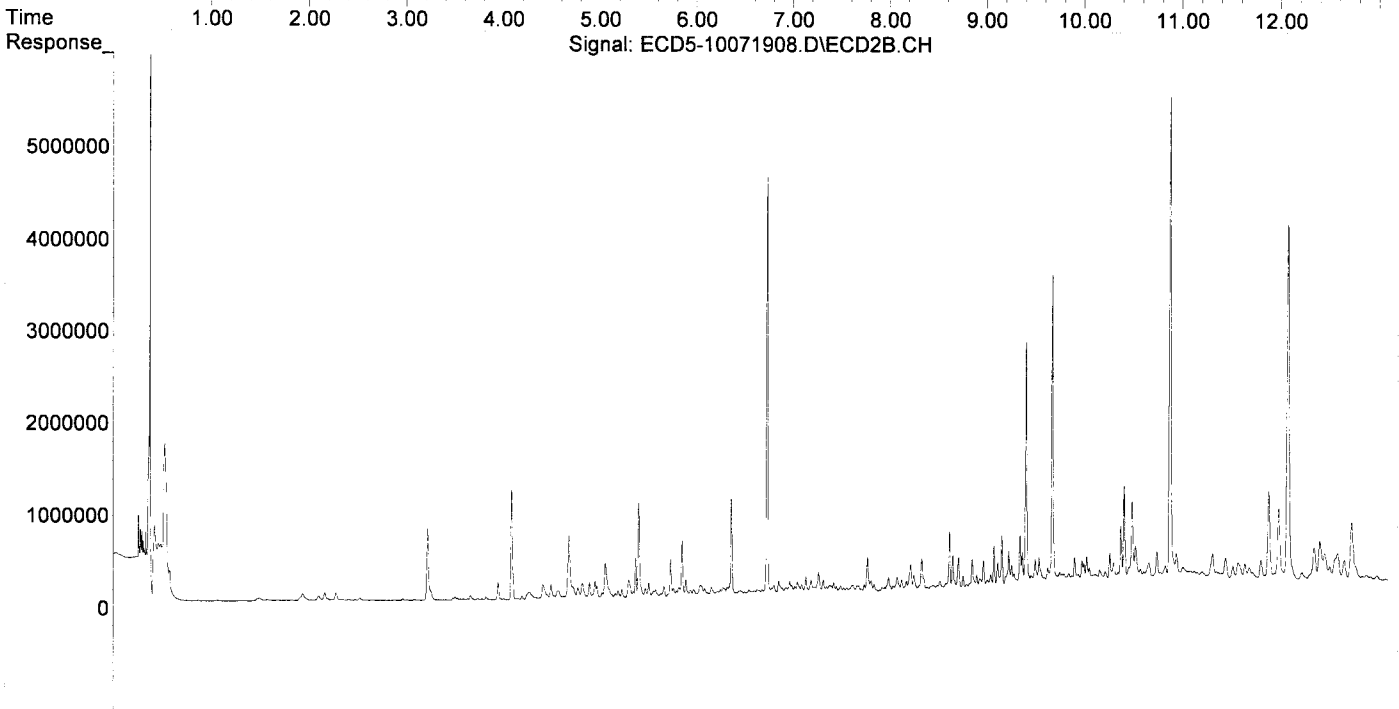
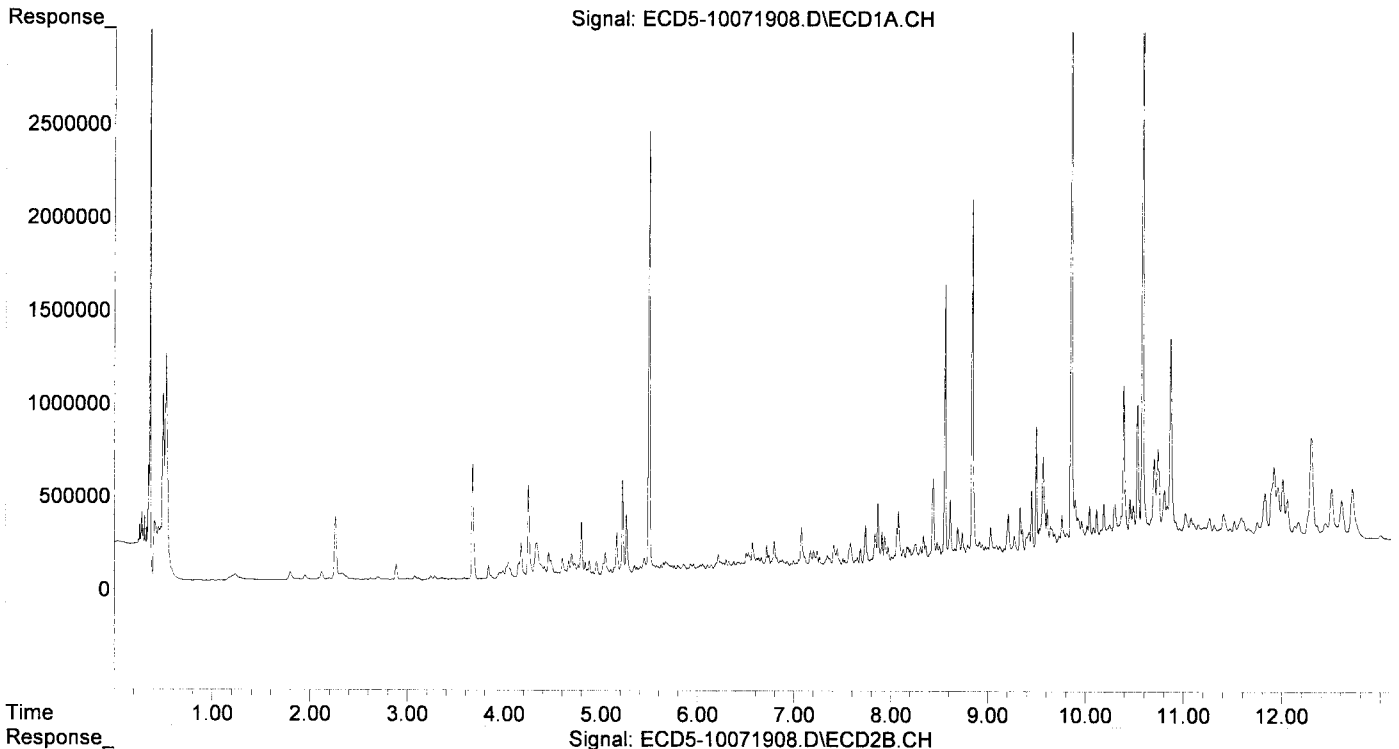
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.263	5.856	313306	589985	1.888	2.011
22) S DCBP (S)	9.448	10.380	342302	642217	2.426	3.573
Target Compounds						
2) a-BHC	5.794	6.464	30334	41552	0.132	0.101
3) g-BHC	6.100	6.786	27551	63624	0.137	0.178
4) b-BHC	6.142f	6.857	26434	132927	0.292	0.840 #
5) Heptachlor	6.503	7.138	81459	171941	0.449	0.562
6) d-BHC	6.323	7.094	41482	93728	0.211	0.266
7) Aldrin	6.715f	7.426	115578	108227	0.585	0.329 #
8) Heptachlo...	7.200	7.845	78445	75759	0.426	0.252 #
9) trans-Chl...	7.263f	7.994	44157	148093	0.239	0.473 #
10) cis-Chlor...	7.409f	8.082f	103549	148473	0.569	0.510
11) Endosulfa...	7.503	8.129f	33158	115759	0.195	0.421 #
12) 4,4'-DDE	7.444	8.222	83670	278197	0.444	0.895 #
13) Dieldrin	7.652	8.336	32944	341066	0.172	1.121 #
14) Endrin	7.834	8.586	153400	70360	1.043	0.312 #
15) 4,4'-DDD	7.865	8.622	318695	631046	2.028	2.463
16) Endosulfa...	7.969	8.716	82121	341576	0.572	1.481 #
17) 4,4'-DDT	8.060	8.857	184428	319883	1.543m	1.822 #
18) Endrin Al...	8.254	8.972	90219	306660	BelowCal	0.829
19) Endosulfa...	8.558	9.162	1473276	568744	9.506	2.283 #
20) Methoxychlor	8.435f	9.348	434377	569019	7.416	6.784
21) Endrin Ke...	8.735f	9.542	139149	320848	0.834	1.247 #
23) Hexachlor...	3.075	3.532f	20902	8590	0.114	0.023 #
24) Hexachlor...	5.646	6.324	46637	85021	0.265	0.271
25) Oxychlordane	0.000	7.776	0	366601	N.D.	1.338 #
26) 2,4'-DDE	7.200	7.994	78445	148093	0.612	0.698
27) trans-Non...	7.409f	8.041	103549	53940	0.262	0.179
28) 2,4'-DDD	7.581	8.357	112143	127104	0.983	0.673m
29) 2,4'-DDT	7.743	8.586	127148	70360	1.159m	0.395 #
30) cis-Nonac...	7.834	8.622	153400	631046	0.739	1.881 #
31) Mirex	8.501	9.542	74122	320848	0.591	1.724 #
32) Chlordane...	7.344	8.041	49190	53940	2.498	1.491 #
33) Chlordane...	7.444	8.178	83670	104908	3.338	3.455
34) Chlordane...	7.969	8.831	82121	68672	14.205	7.659 #
35) Chlordane...	3.360	3.345	8532	1812	NoCal	NoCal
36) Toxaphene...	7.409	0.000	103549	0	115.614	N.D. #
37) Toxaphene...	7.737f	8.716	199711	341576	123.665	103.790
38) Toxaphene...	8.008	8.762	27427	146330	8.145	28.871 #
39) Toxaphene...	8.254	8.831	90219	68672	27.844	8.224 #
40) Toxaphene...	8.501	9.012	74122	98120	30.921	21.054
41) Toxaphene...	8.558	9.371	1473276	379681	465.551	79.929 #
42) Toxaphene...	3.360	3.345	8532	1812	NoCal	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-10\9J07042\
Data File : ECD5-10071908.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Oct 2019 13:56
Operator : MJB
Sample : A9I0771-01RE2@20
Misc : 20x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

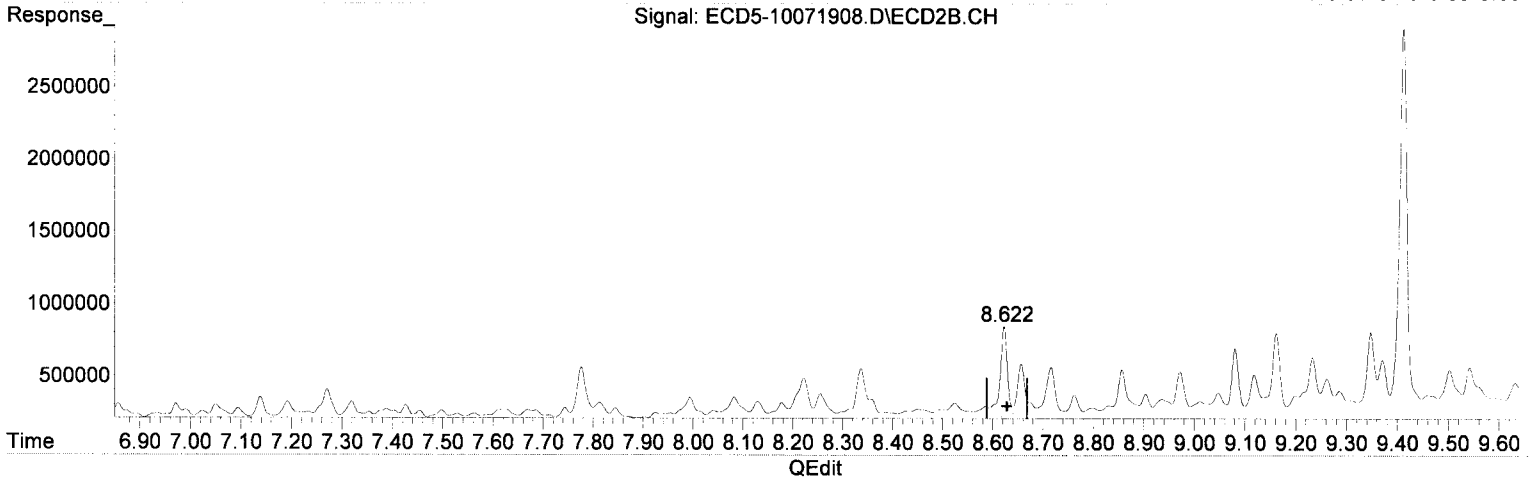
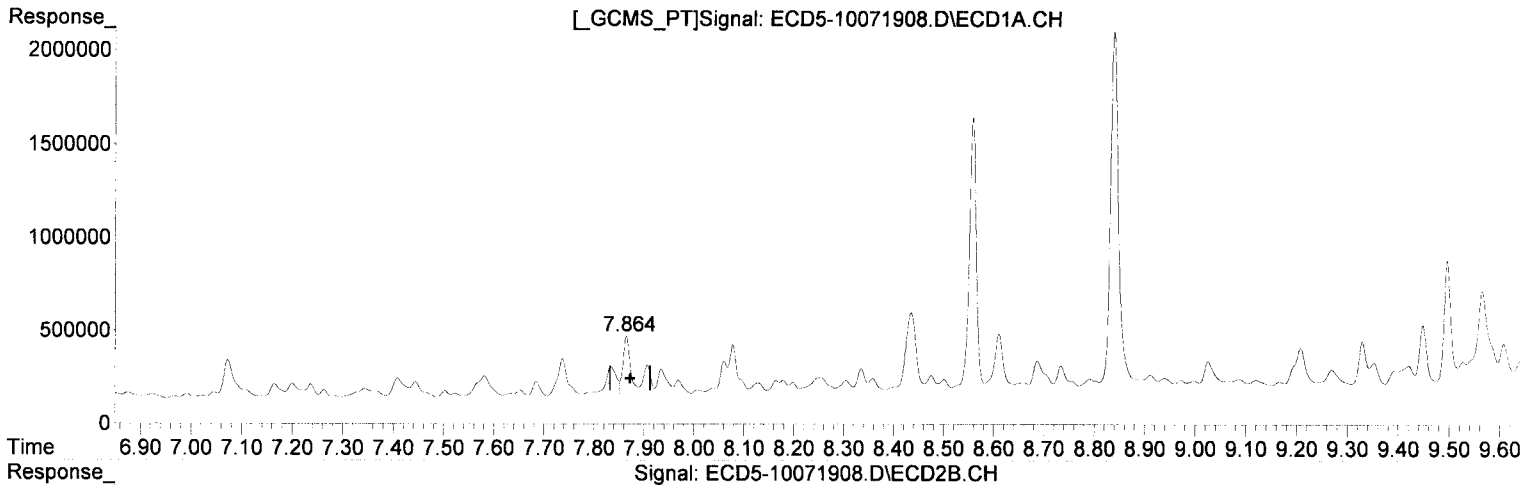
Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 07 18:00:04 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT4.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J07042\
Data File : ECD5-10071908.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Oct 2019 13:56
Operator : MJB
Sample : A9I0771-01RE2@20
Misc : 20x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 07 17:52:17 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT4.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(15) 4,4'-DDD
7.865min 2.028 ng/mL
response 318695

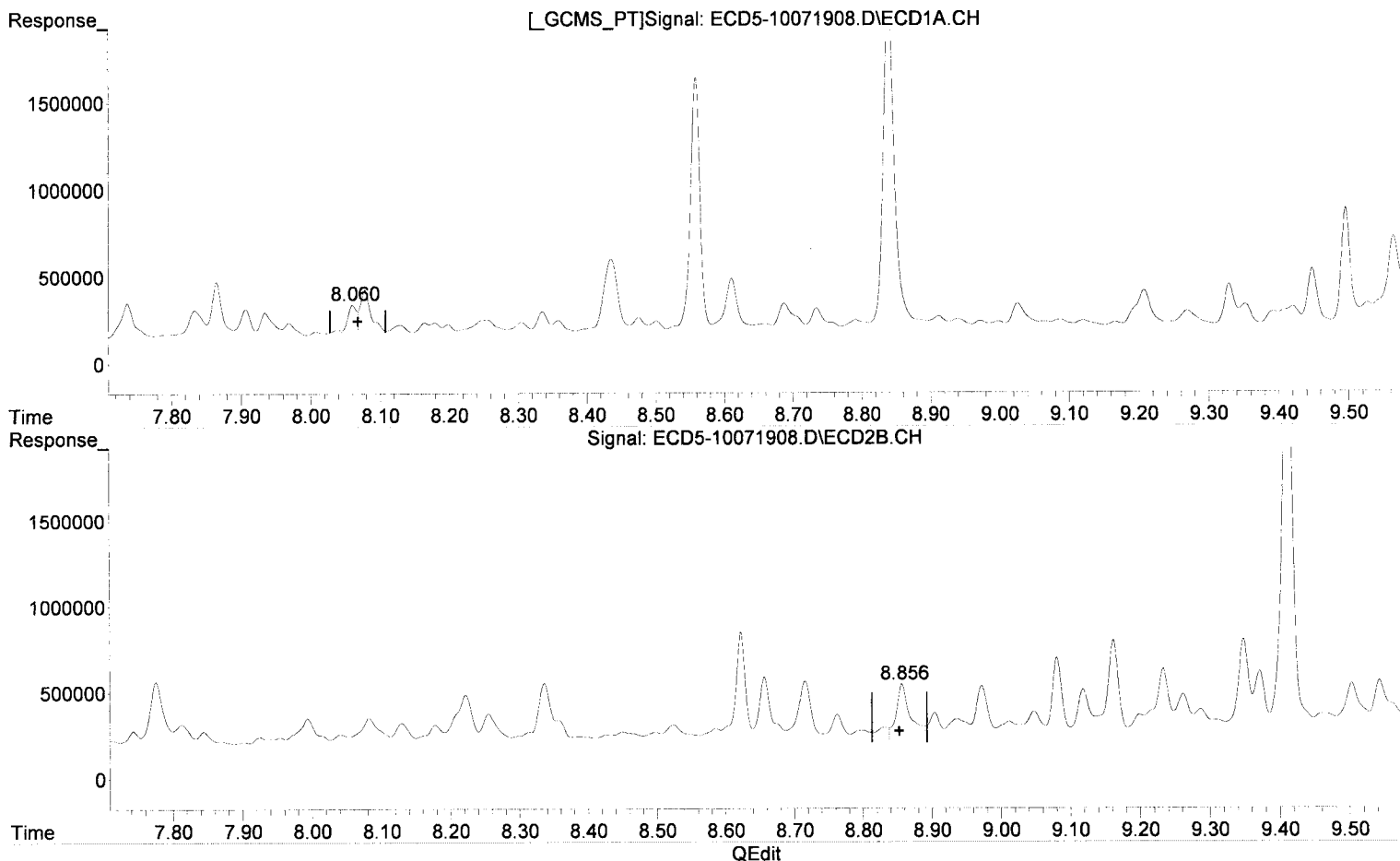
MJB 10/7/19

(15) 4,4'-DDD #2
8.622min 2.463 ng/mL
response 631046

Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J07042\
Data File : ECD5-10071908.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Oct 2019 13:56
Operator : MJB
Sample : A9I0771-01RE2@20
Misc : 20x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 07 17:52:17 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT4.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(17) 4,4'-DDT
8.060min 1.543 ng/mL
response 184428

MJB
10/7/19

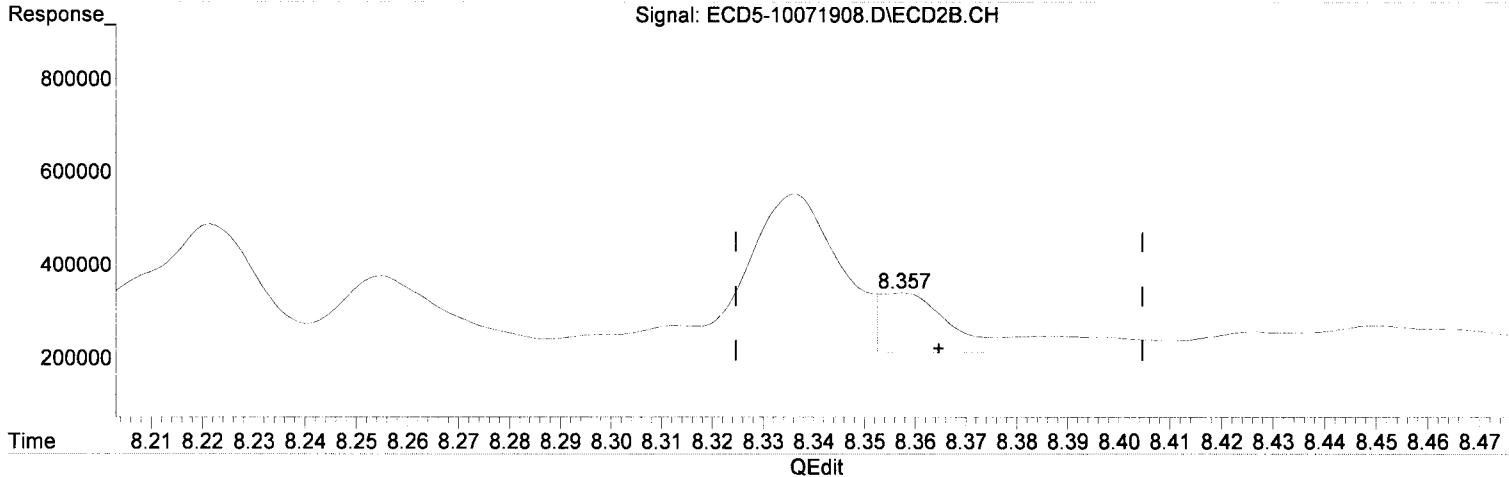
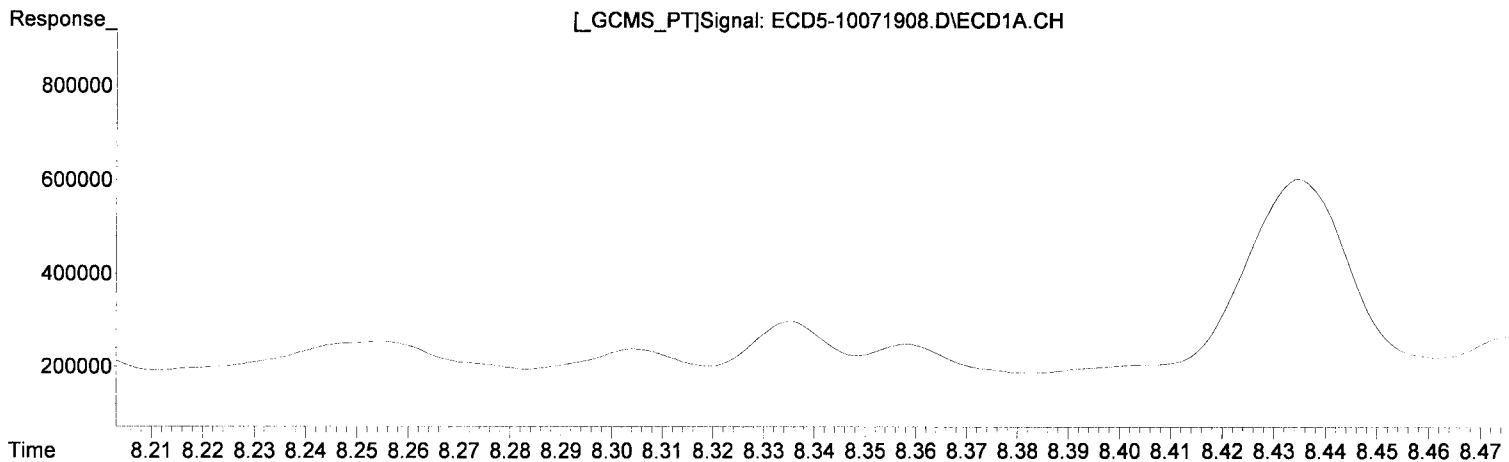
(17) 4,4'-DDT #2
8.857min 1.822 ng/mL
response 319883

MDL=1000

Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J07042\
Data File : ECD5-10071908.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Oct 2019 13:56
Operator : MJB
Sample : A9I0771-01RE2@20
Misc : 20x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 07 17:52:17 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT4.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(28) 2,4'-DDD
7.581min 0.983 ng/mL
response 112143

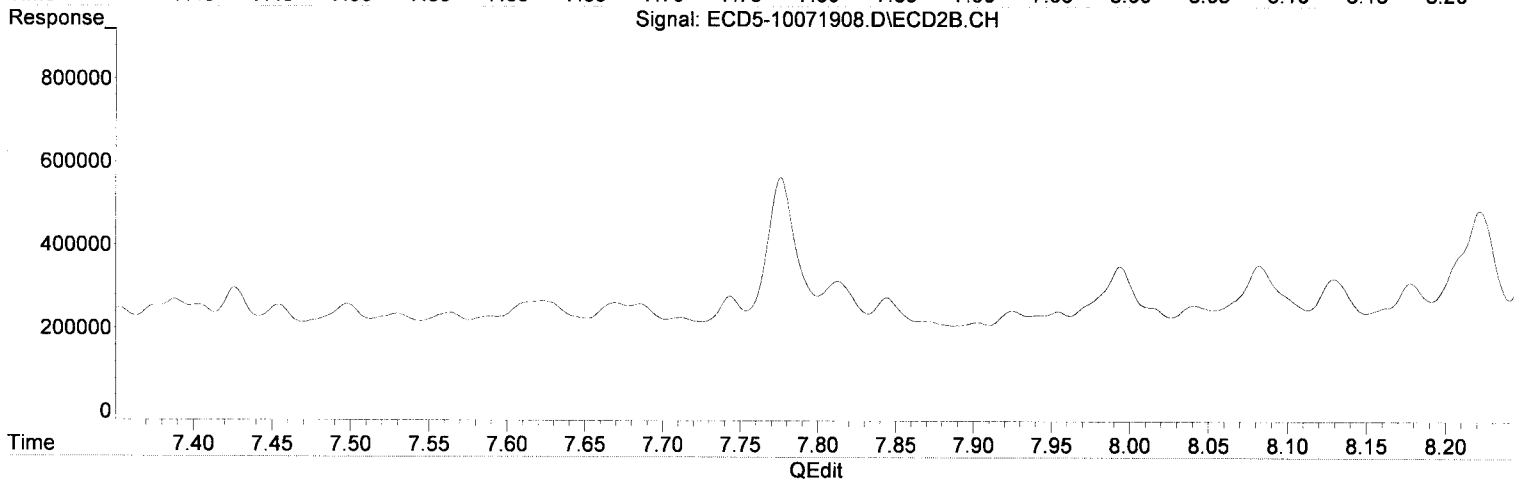
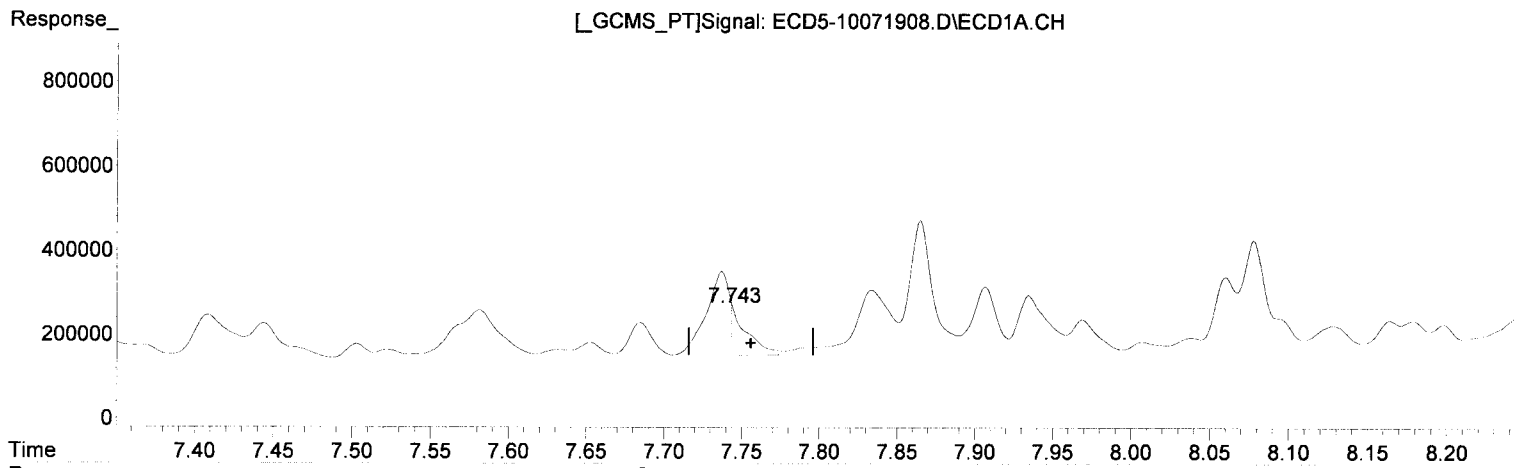
MJB
10/7/19

(28) 2,4'-DDD #2
8.357min 0.673 ng/mL (m)
response 127104

Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J07042\
Data File : ECD5-10071908.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Oct 2019 13:56
Operator : MJB
Sample : A9I0771-01RE2@20
Misc : 20x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 07 17:52:17 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT4.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(29) 2,4'-DDT
7.743min 1.159 ng/mL (m)
response 127148

MJB 10/7/19

(29) 2,4'-DDT #2
8.586min 0.395 ng/mL
response 70360

Data Path : R:\data\2019-10\9J07042\
 Data File : ECD5-10071908.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 07 Oct 2019 13:56
 Operator : MJB
 Sample : A9I0771-01RE2020
 Misc : 20x, 8081B 2,4+4,4-DDx Only, GPC
 ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Oct 07 17:52:17 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823RT4.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

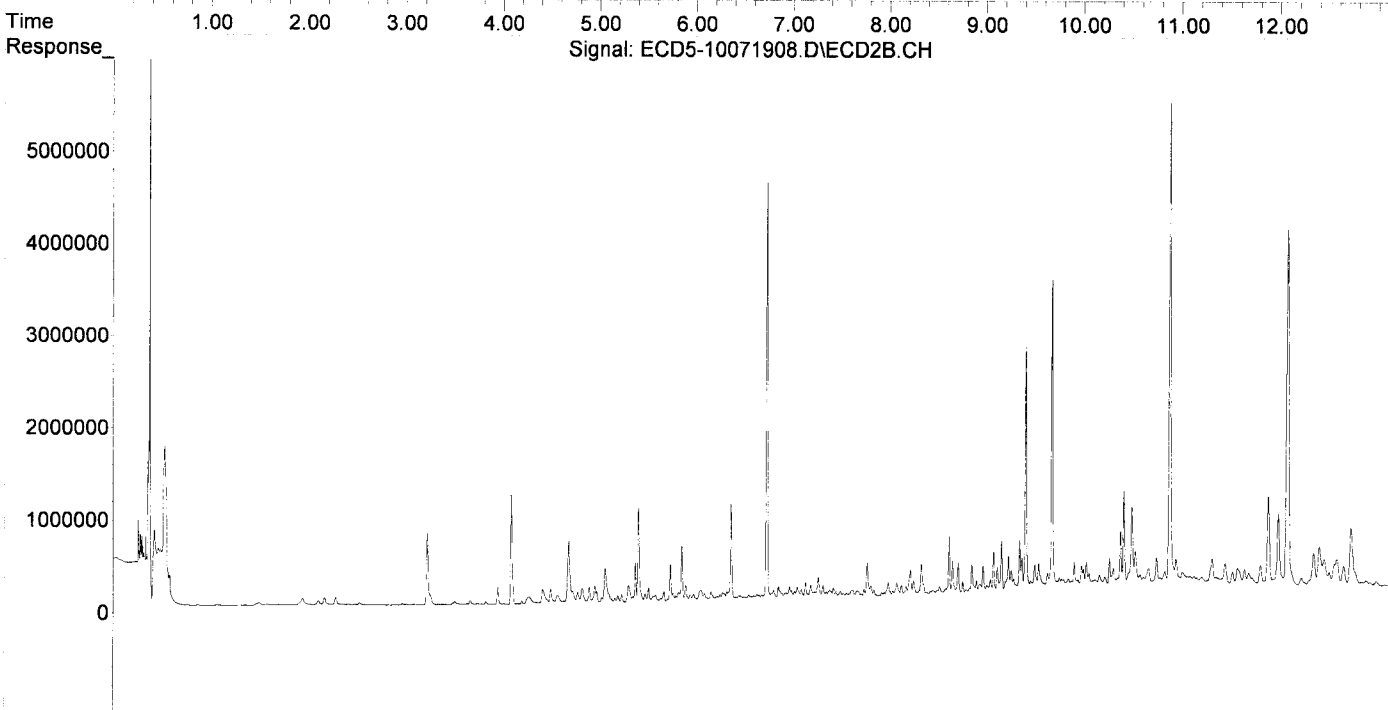
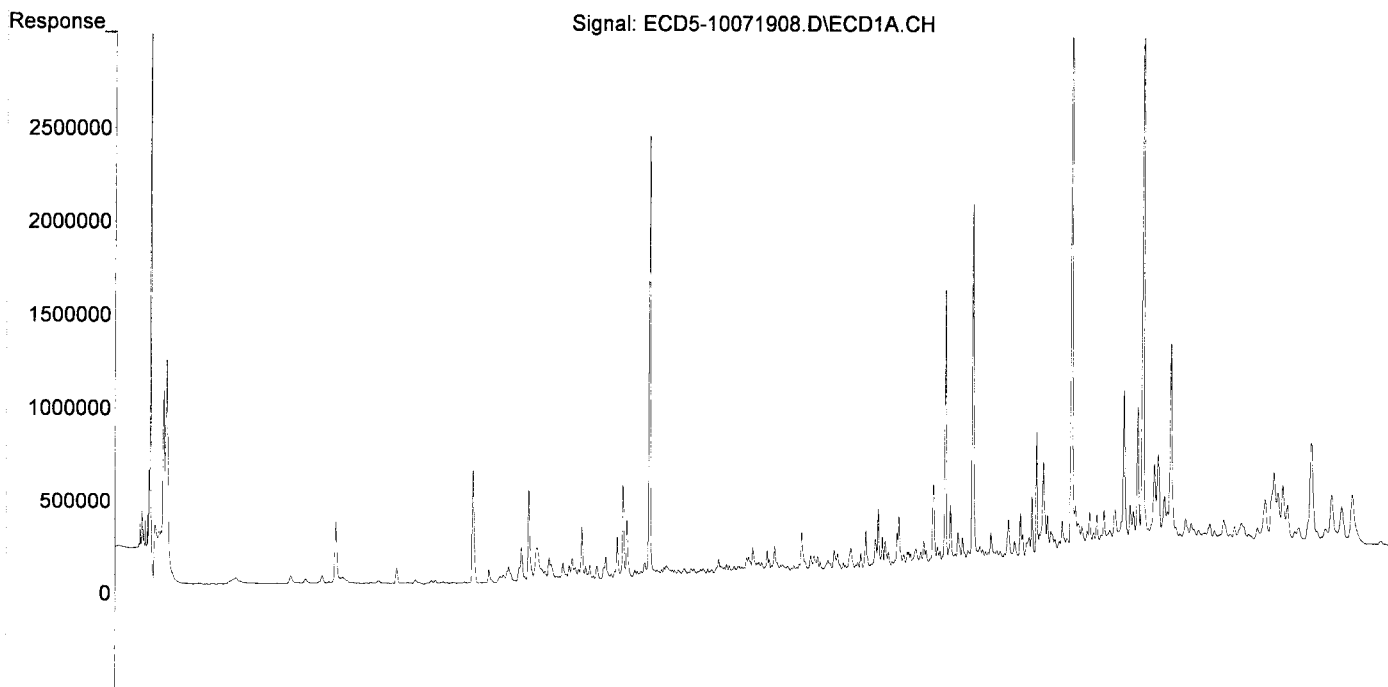
MJB
19/7/19

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.263	5.856	313306	589985	1.888	2.011
22) S DCBP (S)	9.448	10.380	342302	642217	2.426	3.573 #
Target Compounds						
2) a-BHC	5.794	6.464	30334	41552	0.132	0.101
3) g-BHC	6.100	6.786	27551	63624	0.137	0.178
4) b-BHC	6.142f	6.857	26434	132927	0.292	0.840 #
5) Heptachlor	6.503	7.138	81459	171941	0.449	0.562
6) d-BHC	6.323	7.094	41482	93728	0.211	0.266
7) Aldrin	6.715f	7.426	115578	108227	0.585	0.329 #
8) Heptachlo...	7.200	7.845	78445	75759	0.426	0.252 #
9) trans-Chl...	7.263f	7.994	44157	148093	0.239	0.473 #
10) cis-Chlor...	7.409f	8.082f	103549	148473	0.569	0.510
11) Endosulfa...	7.503	8.129f	33158	115759	0.195	0.421 #
12) 4,4'-DDE	7.444	8.222	83670	278197	0.444	0.895 #
13) Dieldrin	7.652	8.336	32944	341066	0.172	1.121 #
14) Endrin	7.834	8.586	153400	70360	1.043	0.312 #
15) 4,4'-DDD	7.865	8.622	318695	631046	2.028	2.463
16) Endosulfa...	7.969	8.716	82121	341576	0.572	1.481 #
17) 4,4'-DDT	8.078	8.857	267620	319883	2.238	1.822
18) Endrin Al...	8.254	8.972	90219	306660	BelowCal	0.829
19) Endosulfa...	8.558	9.162	1473276	568744	9.506	2.283 #
20) Methoxychlor	8.435f	9.348	434377	569019	7.416	6.784
21) Endrin Ke...	8.735f	9.542	139149	320848	0.834	1.247 #
23) Hexachlor...	3.075	3.532f	20902	8590	0.114	0.023 #
24) Hexachlor...	5.646	6.324	46637	85021	0.265	0.271
25) Oxychlorane	0.000	7.776	0	366601	N.D.	1.338 #
26) 2,4'-DDE	7.200	7.994	78445	148093	0.612	0.698
27) trans-Non...	7.409f	8.041	103549	53940	0.262	0.179
28) 2,4'-DDD	7.581	8.336f	112143	341066	0.983	1.806 #
29) 2,4'-DDT	7.737	8.586	199711	70360	1.821	0.395 #
30) cis-Nonac...	7.834	8.622	153400	631046	0.739	1.881 #
31) Mirex	8.501	9.542	74122	320848	0.591	1.724 #
32) Chlordane...	7.344	8.041	49190	53940	2.498	1.491 #
33) Chlordane...	7.444	8.178	83670	104908	3.338	3.455
34) Chlordane...	7.969	8.831	82121	68672	14.205	7.659 #
35) Chlordane...	3.360	3.345	8532	1812	NoCal	NoCal
36) Toxaphene...	7.409	0.000	103549	0	115.614	N.D. #
37) Toxaphene...	7.737f	8.716	199711	341576	123.665	103.790
38) Toxaphene...	8.008	8.762	27427	146330	8.145	28.871 #
39) Toxaphene...	8.254	8.831	90219	68672	27.844	8.224 #
40) Toxaphene...	8.501	9.012	74122	98120	30.921	21.054
41) Toxaphene...	8.558	9.371	1473276	379681	465.551	79.929 #
42) Toxaphene...	3.360	3.345	8532	1812	NoCal	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Data Path : R:\data\2019-10\9J07042\
Data File : ECD5-10071908.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Oct 2019 13:56
Operator : MJB
Sample : A9I0771-01RE2@20
Misc : 20x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 07 17:52:17 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT4.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-10\9J07042\
 Data File : ECD5-10071910.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 07 Oct 2019 14:31
 Operator : MJB
 Sample : 9091407-DUP2#20
 Misc : 20x, 8081B 2,4+4,4-DDx Only, GPC
 ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Oct 07 18:03:31 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823RT4.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB
10/7/19

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.263	5.856	312625	583889	1.884	1.990
22) S DCBP (S)	9.449	10.381	433024	871918	3.069	4.850
Target Compounds						
2) a-BHC	5.788	6.462	59190	125789	0.258	0.307
3) g-BHC	6.096	6.780	49467	97861	0.245	0.274
4) b-BHC	6.184	6.857	82045	178900	0.908	1.130
5) Heptachlor	6.519f	7.137	257604	519744	1.421	1.699
6) d-BHC	6.318	7.094	125749	211240	0.639	0.599
7) Aldrin	6.712f	7.425	300456	255936	1.522	0.777 #
8) Heptachlo...	7.195	7.846	205850	104060	1.118	0.346 #
9) trans-Chl...	7.264f	7.995	102271	267838	0.553	0.855 #
10) cis-Chlor...	7.405	8.126f	255936	121434	1.406	0.417 #
11) Endosulfa...	7.504	8.179f	55791	90049	0.328	0.327
12) 4,4'-DDE	7.445	8.221	126013	557542	0.668	1.795 #
13) Dieldrin	7.652	8.359	57542	300366	0.300	0.988 #
14) Endrin	7.833	8.573	174722	102123	1.188	0.452 #
15) 4,4'-DDD	7.865	8.622	714410	1353315	4.546	5.282
16) Endosulfa...	7.971	8.717	143069	874422	0.996	3.792 #
17) 4,4'-DDT	8.060	8.857	328063	496818	2.744m	2.845 #
18) Endrin Al...	8.251	8.972	216815	480204	0.840	1.776 #
19) Endosulfa...	8.559	9.163	2834792	967537	18.292	3.884 #
20) Methoxychlor	8.435f	9.348	718350	977116	12.264	11.657
21) Endrin Ke...	8.735f	9.542	277063	491182	1.661	1.909
23) Hexachlor...	3.074	3.530f	23790	12594	0.130	0.034 #
24) Hexachlor...	5.665	6.324	73064	159101	0.414	0.507
25) Oxychlorane	0.000	7.774	0	664252	N.D.	2.425 #
26) 2,4'-DDE	7.195	7.995	205850	267838	1.605	1.263 #
27) trans-Non...	7.370	8.079	66602	377208	0.055	1.251 #
28) 2,4'-DDD	7.577	8.359	275251	300366	2.412	1.590 #
29) 2,4'-DDT	7.745	8.597	223293	148039	2.036m	0.830m #
30) cis-Nonac...	7.833	8.622	174722	1353315	0.842	4.034 #
31) Mirex	8.476f	9.542	189650	491182	1.513	2.640 #
32) Chlordane...	7.342	8.040	110027	96952	5.588	2.679 #
33) Chlordane...	7.445	8.179f	126013	90049	5.028	2.966 #
34) Chlordane...	7.971	8.831	143069	111660	24.748	12.454 #
35) Chlordane...	3.361	0.000	8919	0	NoCal	N.D.
36) Toxaphene...	7.405	8.387	255936	54526	285.755	20.778 #
37) Toxaphene...	7.737f	8.717	399057	874422	247.103	265.699
38) Toxaphene...	8.035	8.762	81549	179790	24.217	35.473 #
39) Toxaphene...	8.251	8.831	216815	111660	66.915	13.373 #
40) Toxaphene...	8.476	9.012	189650	205731	79.115	44.145 #
41) Toxaphene...	8.559	9.371	2834792	636874	895.787	134.073 #
42) Toxaphene...	3.361	0.000	8919	0	NoCal	N.D.

S-05
#5-04

#MDEMPZ

R-02

-MDEMPZ

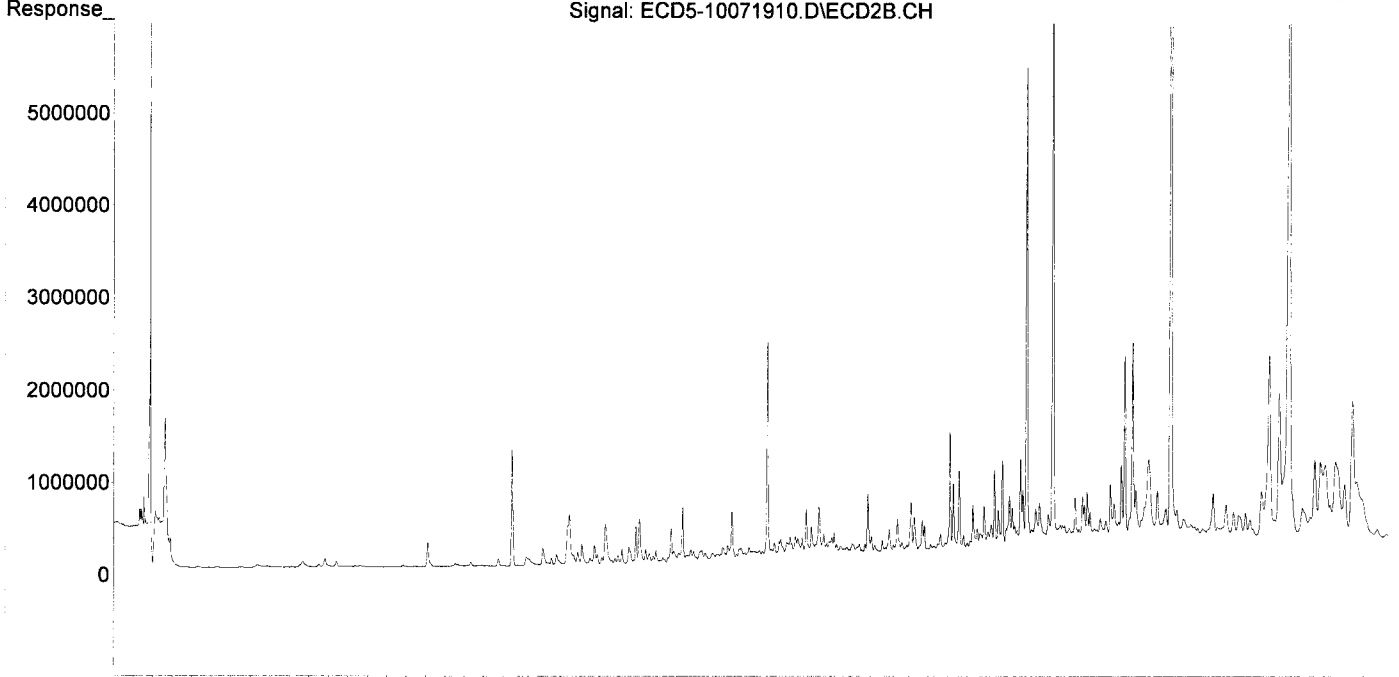
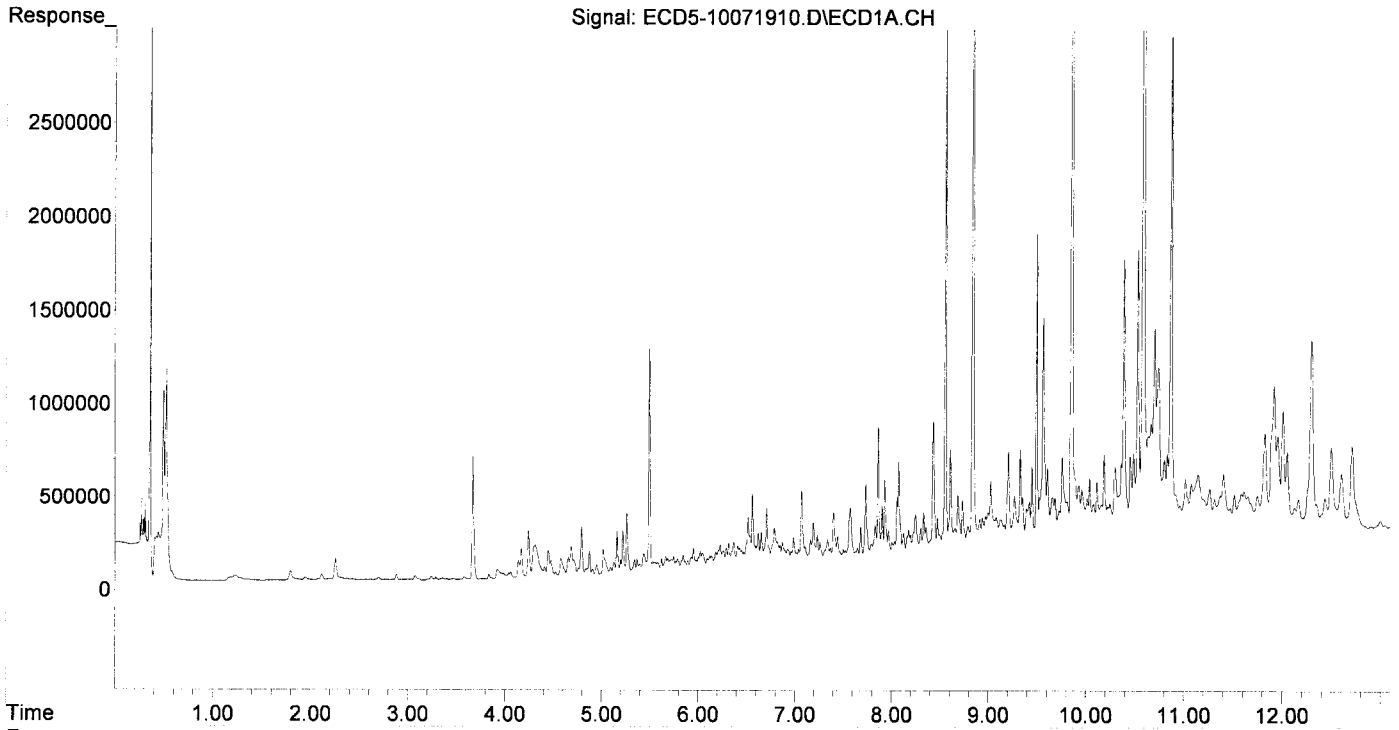
-MDEMPZ

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-10\9J07042\
Data File : ECD5-10071910.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Oct 2019 14:31
Operator : MJB
Sample : 9091407-DUP2@20
Misc : 20x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

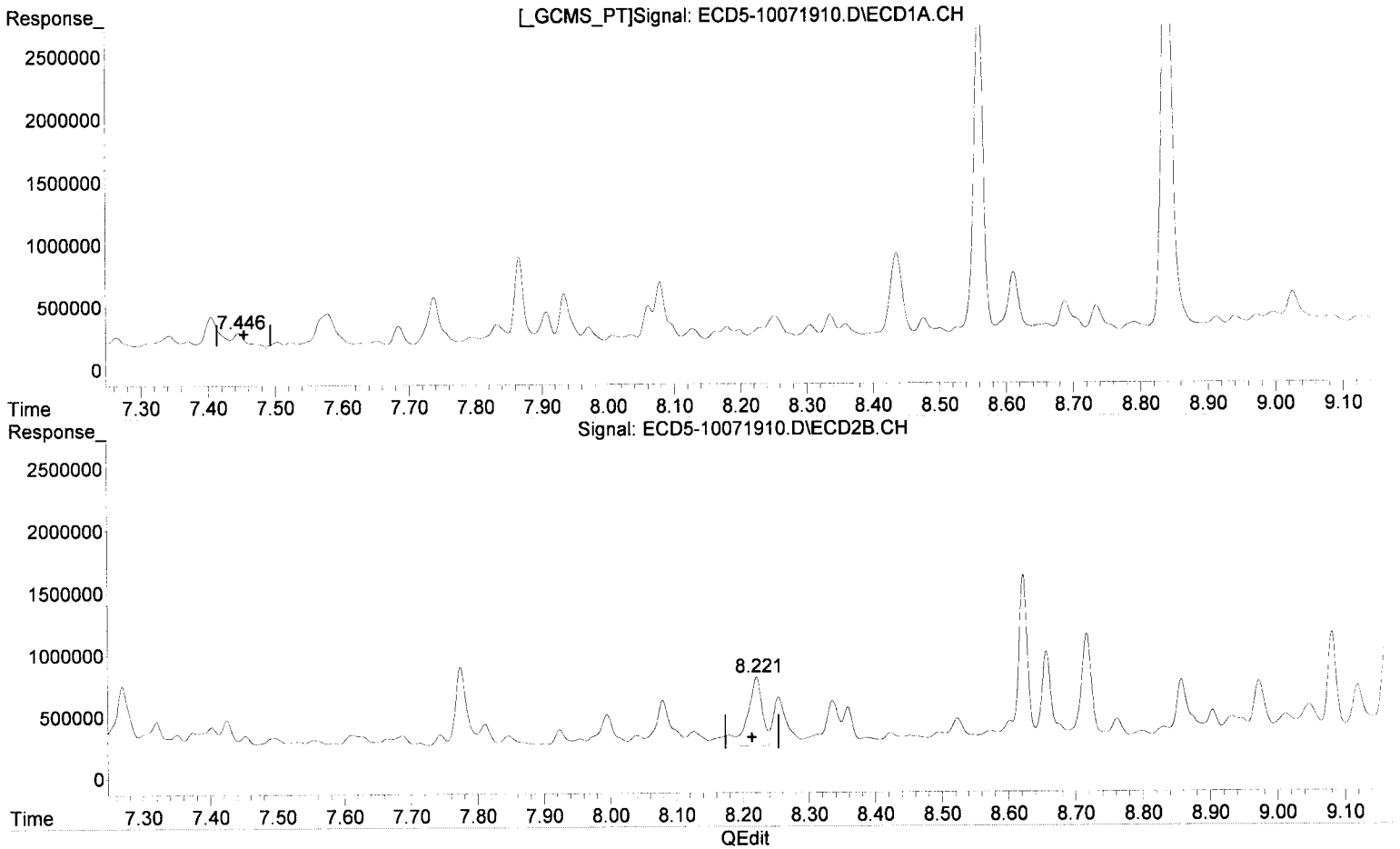
Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 07 18:03:31 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT4.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J07042\
Data File : ECD5-10071910.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Oct 2019 14:31
Operator : MJB
Sample : 9091407-DUP2@20
Misc : 20x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 07 17:52:24 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT4.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(12) 4,4'-DDE
7.445min 0.668 ng/mL
response 126013

MJB 1971.2

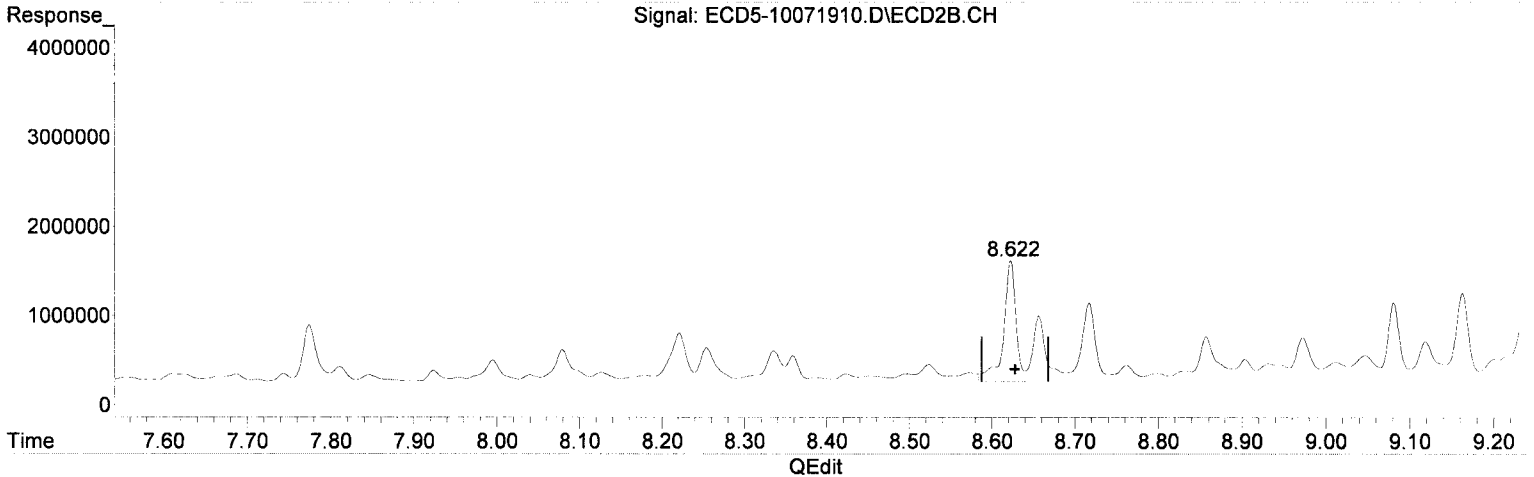
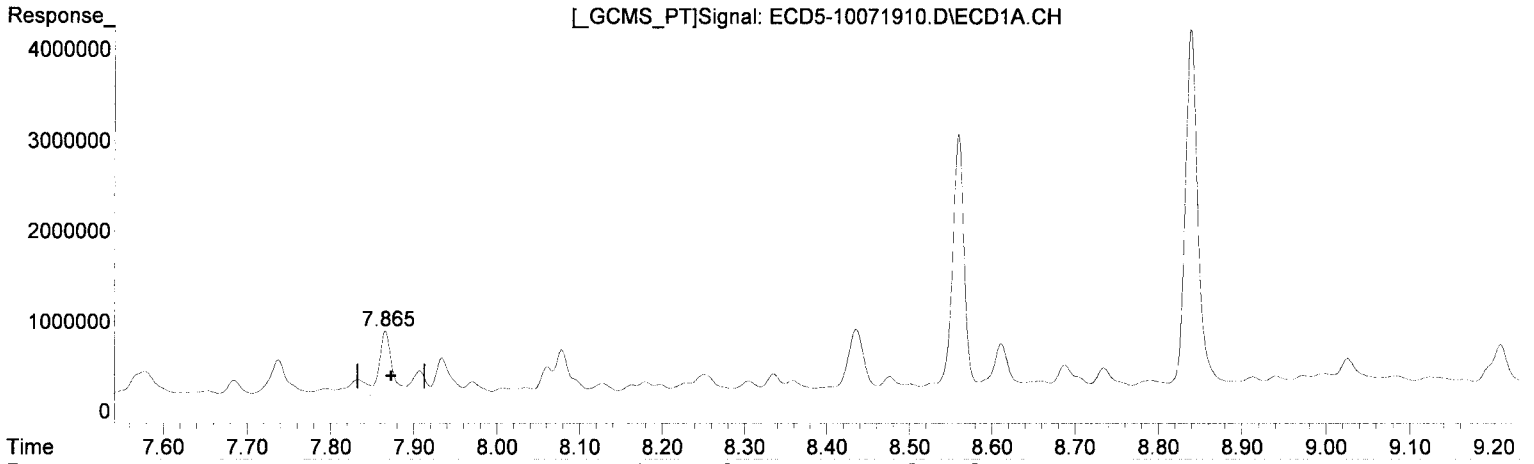
(12) 4,4'-DDE #2
8.221min 1.795 ng/mL
response 557542

MJD=MPL

Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J07042\
Data File : ECD5-10071910.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Oct 2019 14:31
Operator : MJB
Sample : 9091407-DUP2@20
Misc : 20x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 07 17:52:24 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT4.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(15) 4,4'-DDD

7.865min 4.546 ng/mL
response 714410

MJB
10/7/19

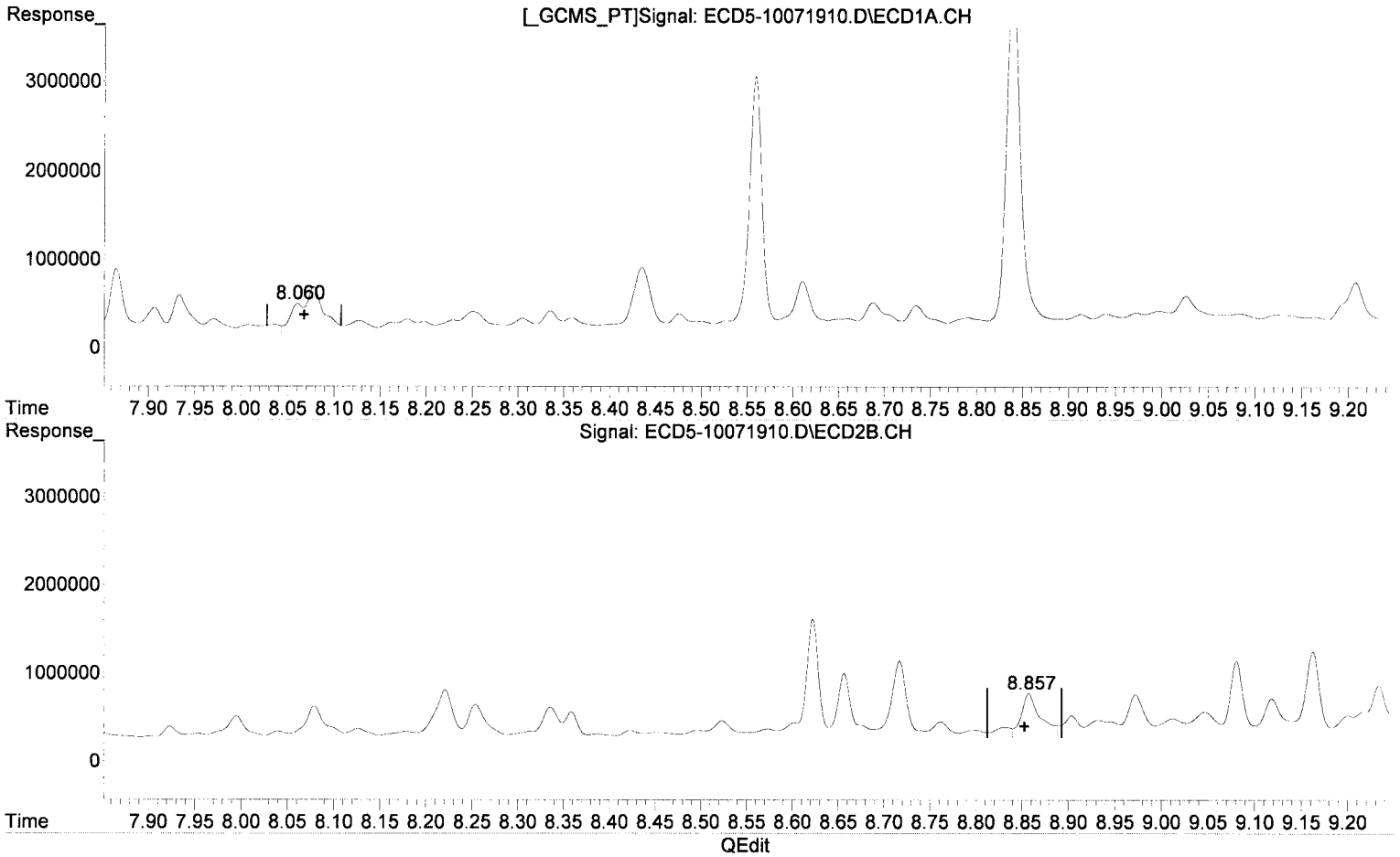
(15) 4,4'-DDD #2

8.622min 5.282 ng/mL
response 1353315

Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J07042\
Data File : ECD5-10071910.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Oct 2019 14:31
Operator : MJB
Sample : 9091407-DUP2@20
Misc : 20x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 07 17:52:24 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT4.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(17) 4,4'-DDT
8.060min 2.744 ng/mL (m)
response 328063

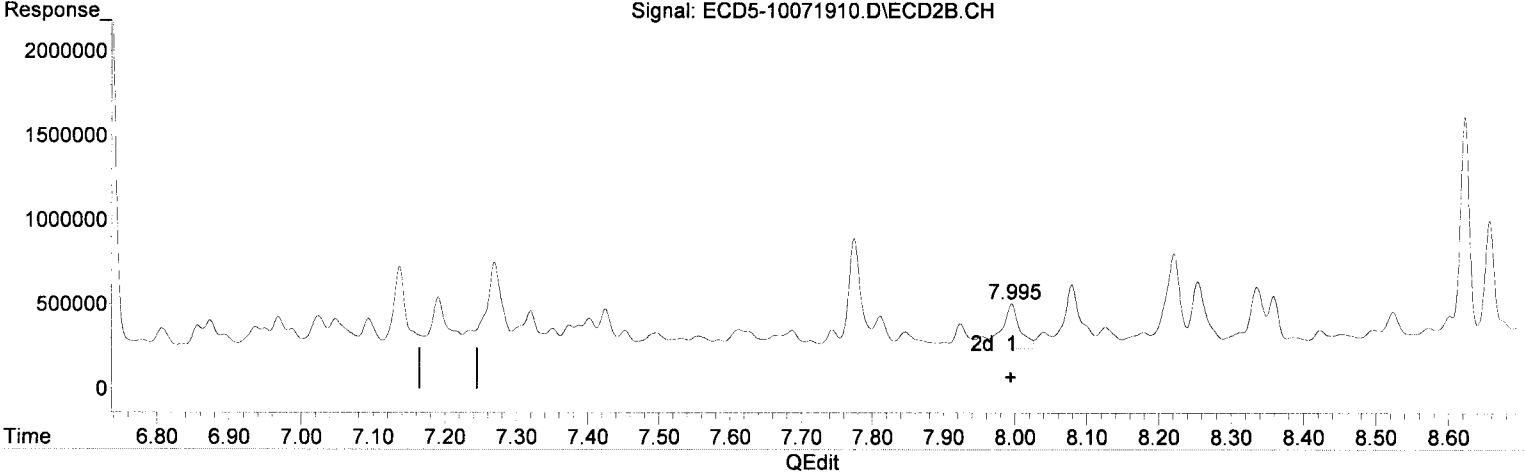
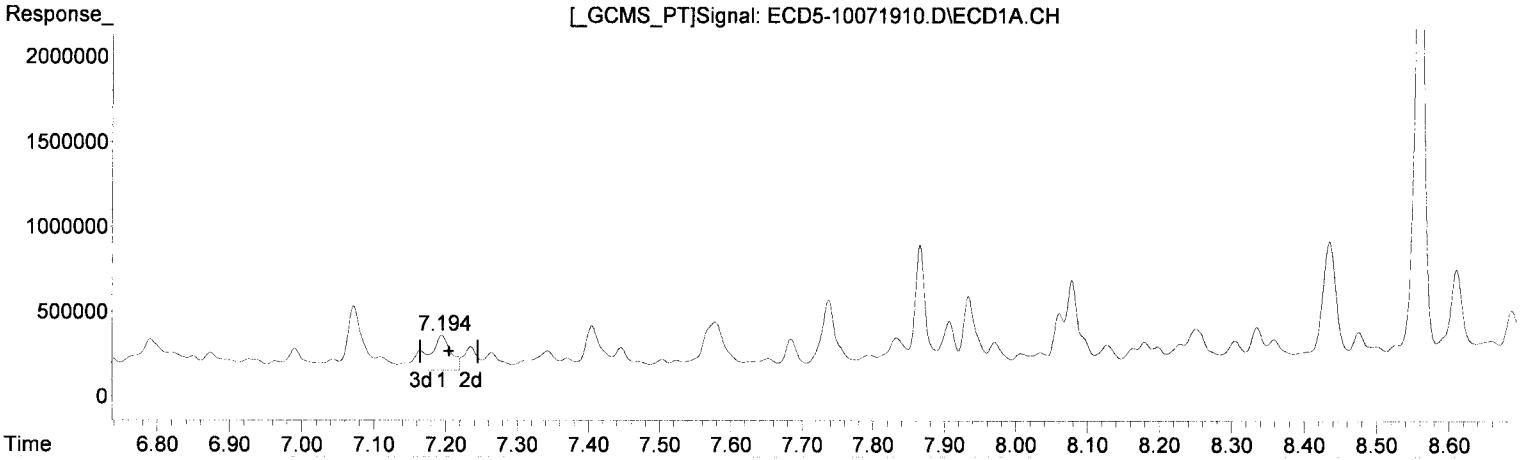
MJB 10/7/19

(17) 4,4'-DDT #2
8.857min 2.845 ng/mL R02
response 496818

Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J07042\
Data File : ECD5-10071910.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Oct 2019 14:31
Operator : MJB
Sample : 9091407-DUP2@20
Misc : 20x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 07 17:52:24 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT4.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(26) 2,4'-DDE
7.195min 1.605 ng/mL
response 205850

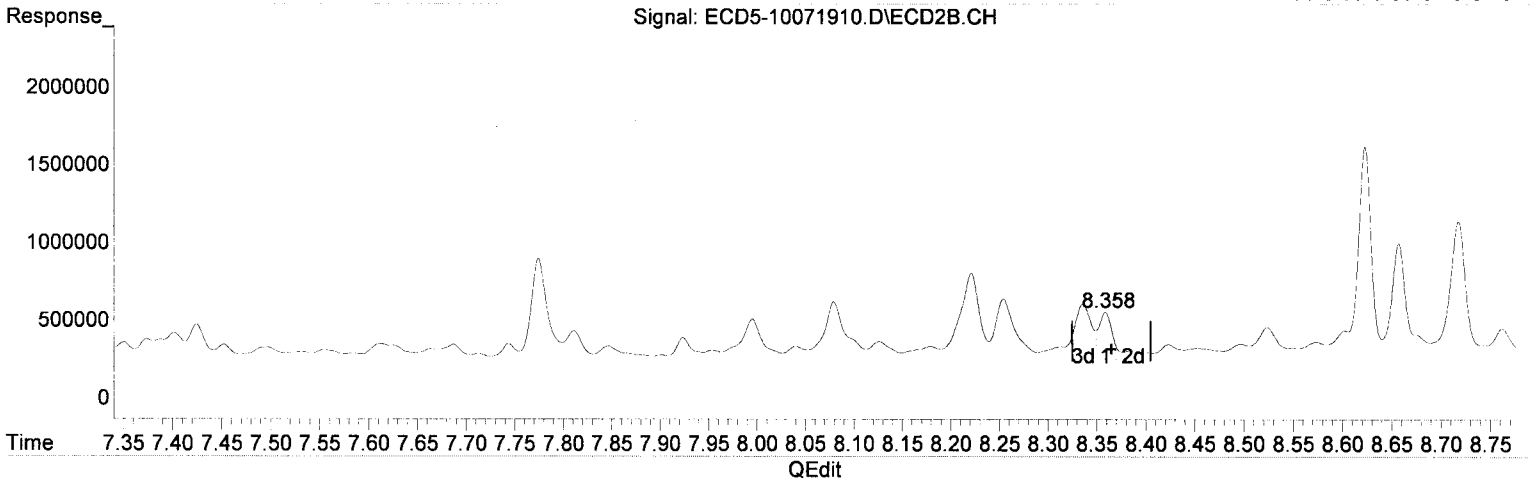
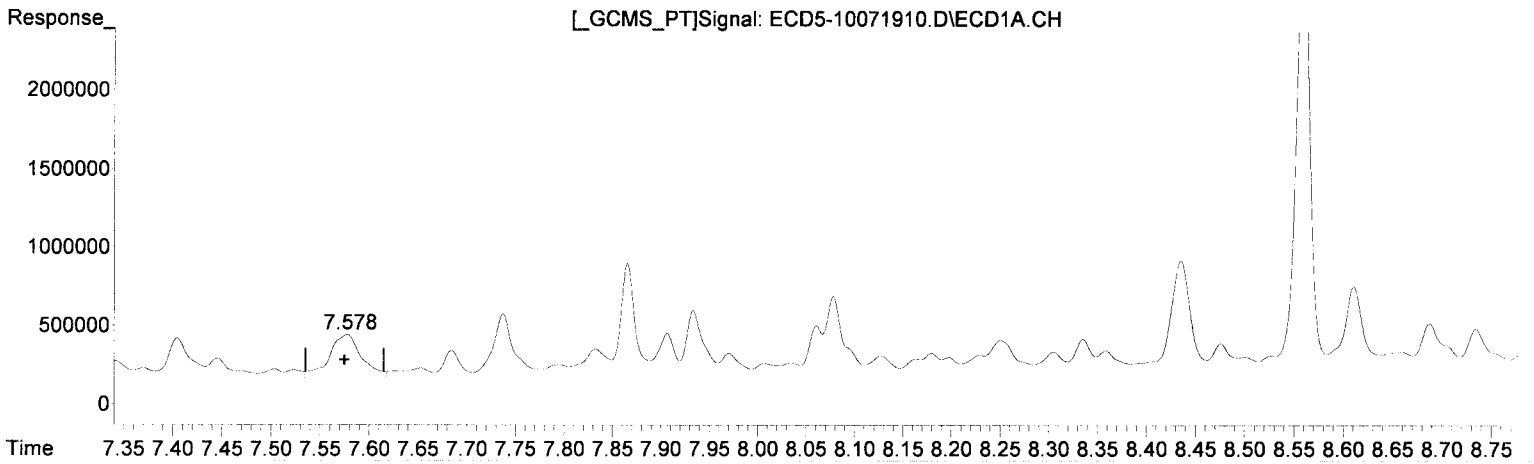
MJB 10/7/19

(26) 2,4'-DDE #2
7.995min 1.263 ng/mL *MJB WPK*
response 267838

Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J07042\
Data File : ECD5-10071910.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Oct 2019 14:31
Operator : MJB
Sample : 9091407-DUP2@20
Misc : 20x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 07 17:52:24 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT4.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(28) 2,4'-DDD
7.577min 2.412 ng/mL
response 275251

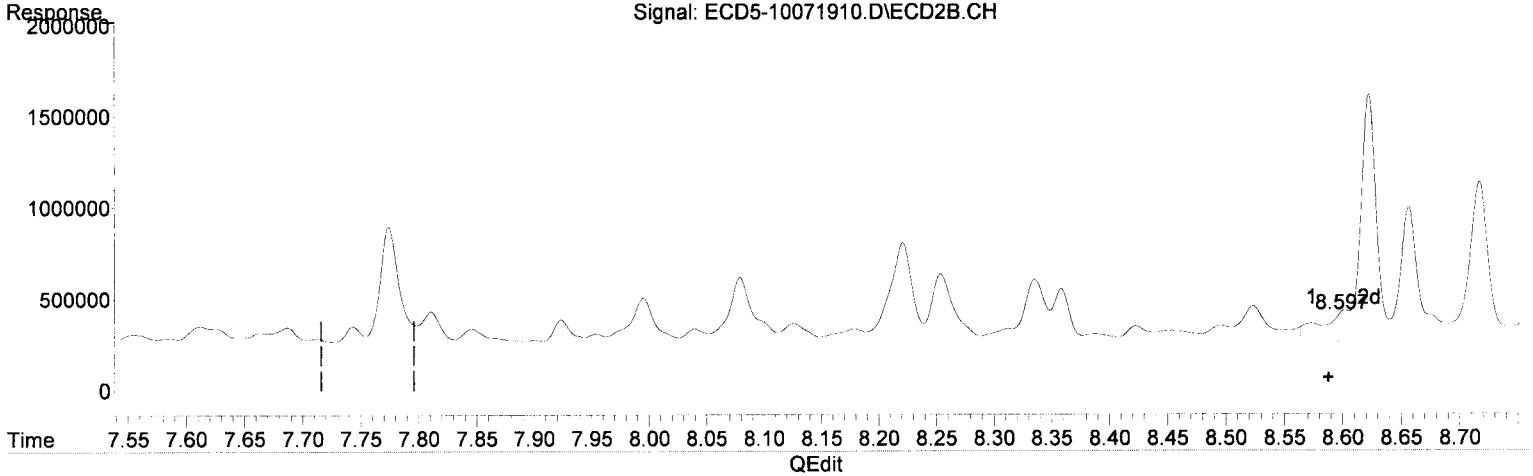
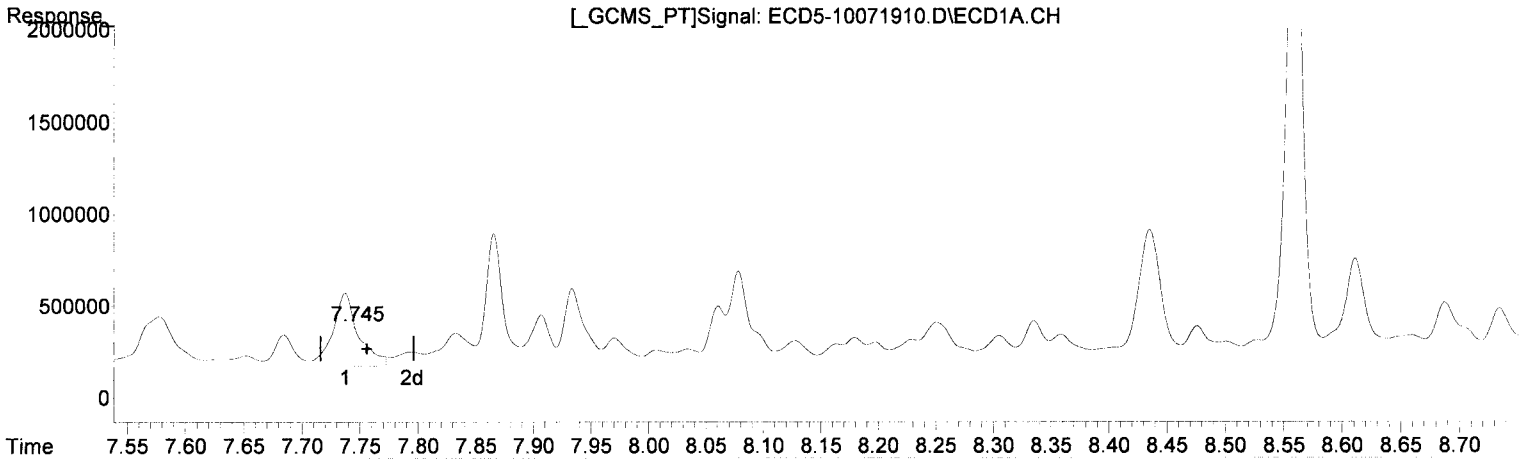
MJ
10/11.?

(28) 2,4'-DDD #2
8.359min 1.590 ng/mL *MDL-MPL*
response 300366

Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J07042\
Data File : ECD5-10071910.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Oct 2019 14:31
Operator : MJB
Sample : 9091407-DUP2@20
Misc : 20x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 07 17:52:24 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT4.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(29) 2,4'-DDT
7.745min 2.036 ng/mL(m)
response 223293

MJB
10/7/19

(29) 2,4'-DDT #2
8.597min 0.830 ng/mL(m)
response 148039

Data Path : R:\data\2019-10\9J07042\
 Data File : ECD5-10071910.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 07 Oct 2019 14:31
 Operator : MJB
 Sample : 9091407-DUP2@20
 Misc : 20x, 8081B 2,4+4,4-DDx Only, GPC
 ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Oct 07 17:52:24 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823RT4.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJ
MJB
10/7/19

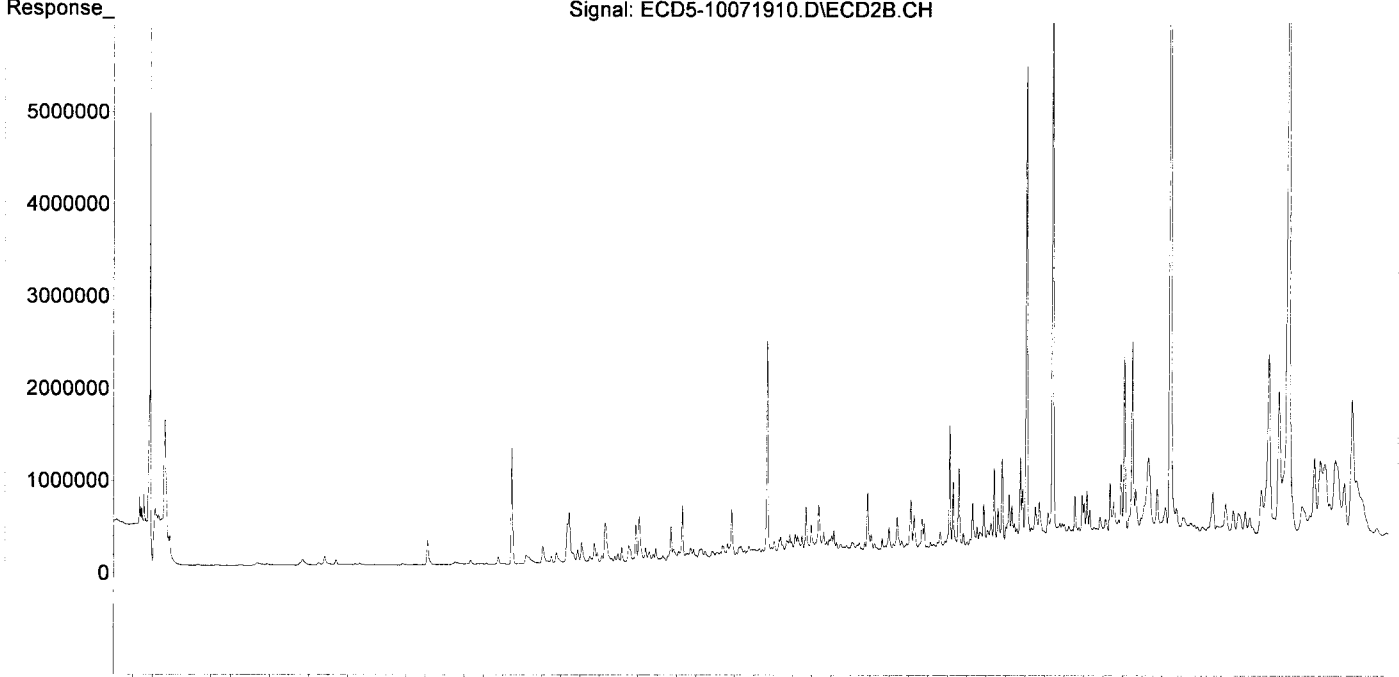
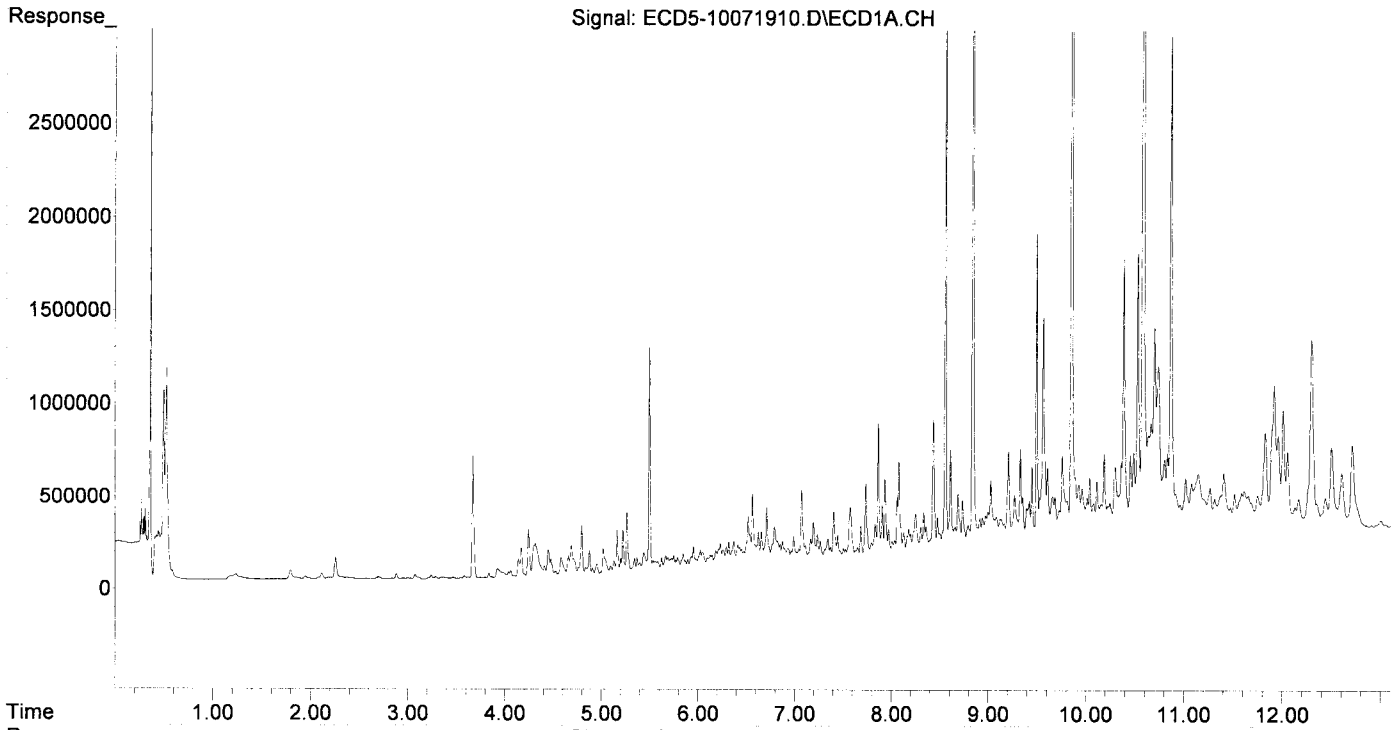
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.263	5.856	312625	583889	1.884	1.990
22) S DCBP (S)	9.449	10.381	433024	871918	3.069	4.850 #
Target Compounds						
2) a-BHC	5.788	6.462	59190	125789	0.258	0.307
3) g-BHC	6.096	6.780	49467	97861	0.245	0.274
4) b-BHC	6.184	6.857	82045	178900	0.908	1.130
5) Heptachlor	6.519f	7.137	257604	519744	1.421	1.699
6) d-BHC	6.318	7.094	125749	211240	0.639	0.599
7) Aldrin	6.712f	7.425	300456	255936	1.522	0.777 #
8) Heptachlo...	7.195	7.846	205850	104060	1.118	0.346 #
9) trans-Chl...	7.264f	7.995	102271	267838	0.553	0.855 #
10) cis-Chlor...	7.405	8.126f	255936	121434	1.406	0.417 #
11) Endosulfa...	7.504	8.179f	55791	90049	0.328	0.327
12) 4,4'-DDE	7.445	8.221	126013	557542	0.668	1.795 #
13) Dieldrin	7.652	8.359	57542	300366	0.300	0.988 #
14) Endrin	7.833	8.573	174722	102123	1.188	0.452 #
15) 4,4'-DDD	7.865	8.622	714410	1353315	4.546	5.282
16) Endosulfa...	7.971	8.717	143069	874422	0.996	3.792 #
17) 4,4'-DDT	8.078	8.857	504247	496818	4.218	2.845
18) Endrin Al...	8.251	8.972	216815	480204	0.840	1.776 #
19) Endosulfa...	8.559	9.163	2834792	967537	18.292	3.884 #
20) Methoxychlor	8.435f	9.348	718350	977116	12.264	11.657
21) Endrin Ke...	8.735f	9.542	277063	491182	1.661	1.909
23) Hexachlor...	3.074	3.530f	23790	12594	0.130	0.034 #
24) Hexachlor...	5.665	6.324	73064	159101	0.414	0.507
25) Oxychlordane	0.000	7.774	0	664252	N.D.	2.425 #
26) 2,4'-DDE	7.195	7.995	205850	267838	1.605	1.263
27) trans-Non...	7.370	8.079	66602	377208	0.055	1.251 #
28) 2,4'-DDD	7.577	8.359	275251	300366	2.412	1.590
29) 2,4'-DDT	7.737	8.573	399057	102123	3.638	0.573 #
30) cis-Nonac...	7.833	8.622	174722	1353315	0.842	4.034 #
31) Mirex	8.476f	9.542	189650	491182	1.513	2.640 #
32) Chlordane...	7.342	8.040	110027	96952	5.588	2.679 #
33) Chlordane...	7.445	8.179f	126013	90049	5.028	2.966 #
34) Chlordane...	7.971	8.831	143069	111660	24.748	12.454 #
35) Chlordane...	3.361	0.000	8919	0	NoCal	N.D.
36) Toxaphene...	7.405	8.387	255936	54526	285.755	20.778 #
37) Toxaphene...	7.737f	8.717	399057	874422	247.103	265.699
38) Toxaphene...	8.035	8.762	81549	179790	24.217	35.473 #
39) Toxaphene...	8.251	8.831	216815	111660	66.915	13.373 #
40) Toxaphene...	8.476	9.012	189650	205731	79.115	44.145 #
41) Toxaphene...	8.559	9.371	2834792	636874	895.787	134.073 #
42) Toxaphene...	3.361	0.000	8919	0	NoCal	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-10\9J07042\
Data File : ECD5-10071910.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Oct 2019 14:31
Operator : MJB
Sample : 9091407-DUP2@20
Misc : 20x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 07 17:52:24 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT4.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-10\9J07042\
 Data File : ECD5-10071912.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 07 Oct 2019 15:06
 Operator : MJB
 Sample : A9I0771-05RE2(2)
 Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
 ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Oct 07 18:07:26 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823RT4.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 10/7/19

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.263	5.857	2604051	4685335	15.689	15.971
22) S DCBP (S)	9.450	10.381	2796757	5750764	19.821	31.991 #
Target Compounds						
2) a-BHC	5.798	6.438f	36116	38878	0.157	0.095
3) g-BHC	6.064f	6.765	6211	111140	0.031	0.312 #
4) b-BHC	6.183	6.856	165369	146920	1.830	0.928 #
5) Heptachlor	6.521f	7.180f	51615	160697	0.285	0.525 #
6) d-BHC	6.317	7.105	21505	48653	0.109	0.138
7) Aldrin	6.735	7.422	81065	49157	0.411	0.149 #
8) Heptachlo...	7.211	7.891f	158055	81096	0.858	0.270 #
9) trans-Chl...	7.268f	7.992	49600	460718	0.268	1.470 #
10) cis-Chlor...	7.402	8.105	196342	84185	1.078	0.289 #
11) Endosulfa...	7.502	8.157	84904	22521	0.499	0.082 #
12) 4,4'-DDE	7.425f	8.219	143295	508237	0.760	1.636 #
13) Dieldrin	7.645	8.334	18873	2774544	0.098	9.122 #
14) Endrin	7.832	8.573	1411652	116767	9.601	0.517 #
15) 4,4'-DDD	7.866	8.623	387556	513895	2.466	2.006
16) Endosulfa...	8.005f	8.718	42215	3456241	0.294	14.988 #
17) 4,4'-DDT	8.062	8.846	170228	125082	1.424	0.691 #
18) Endrin Al...	8.251	8.967	361549	208937	2.081	0.295 #
19) Endosulfa...	8.561	9.163	277998	2019097	1.794	8.106 #
20) Methoxychlor	8.437f	9.350	1166060	2164237	19.907	25.295
21) Endrin Ke...	8.741	9.542	327941	1008190	1.967	3.918 #
23) Hexachlor...	3.075	3.533f	104884	257908	0.574	0.686
24) Hexachlor...	5.648	6.318	56980	138244	0.323	0.440
25) Oxychlorane	7.109	7.774	176777	629879	1.074	2.300 #
26) 2,4'-DDE	7.211	7.992	158055	460718	1.232	2.172 #
27) trans-Non...	7.402f	8.050	196342	177467	0.780	0.588
28) 2,4'-DDD	7.577	8.355	315106	224457	2.761	1.188m#
29) 2,4'-DDT	7.749	8.576	69722	108207	0.636	0.607m
30) cis-Nonac...	7.832	8.623	1411652	513895	6.799	1.532 #
31) Mirex	8.531f	9.542	158867	1008190	1.267	5.418 #
32) Chlordane...	7.349	8.050	191012	177467	9.701	4.904 #
33) Chlordane...	7.425	8.157	143295	22521	5.717	0.742 #
34) Chlordane...	8.005	8.846f	42215	125082	7.302	13.951 #
35) Chlordane...	3.362	3.365	41759	16905	NoCal	NoCal
36) Toxaphene...	7.425	8.398	143295	43325	159.991	16.509 #
37) Toxaphene...	7.686f	8.718	130404	3456241	80.749	1050.202 #
38) Toxaphene...	8.005f	8.761	42215	139140	12.536	27.453 #
39) Toxaphene...	8.251	8.846	361549	125082	111.584	14.980 #
40) Toxaphene...	8.478	8.999	494394	790838	206.243	169.695
41) Toxaphene...	8.561	9.373	277998	1210796	87.847	254.893 #
42) Toxaphene...	3.362	3.365	41759	16905	NoCal	NoCal

201

WPC
MPL

201

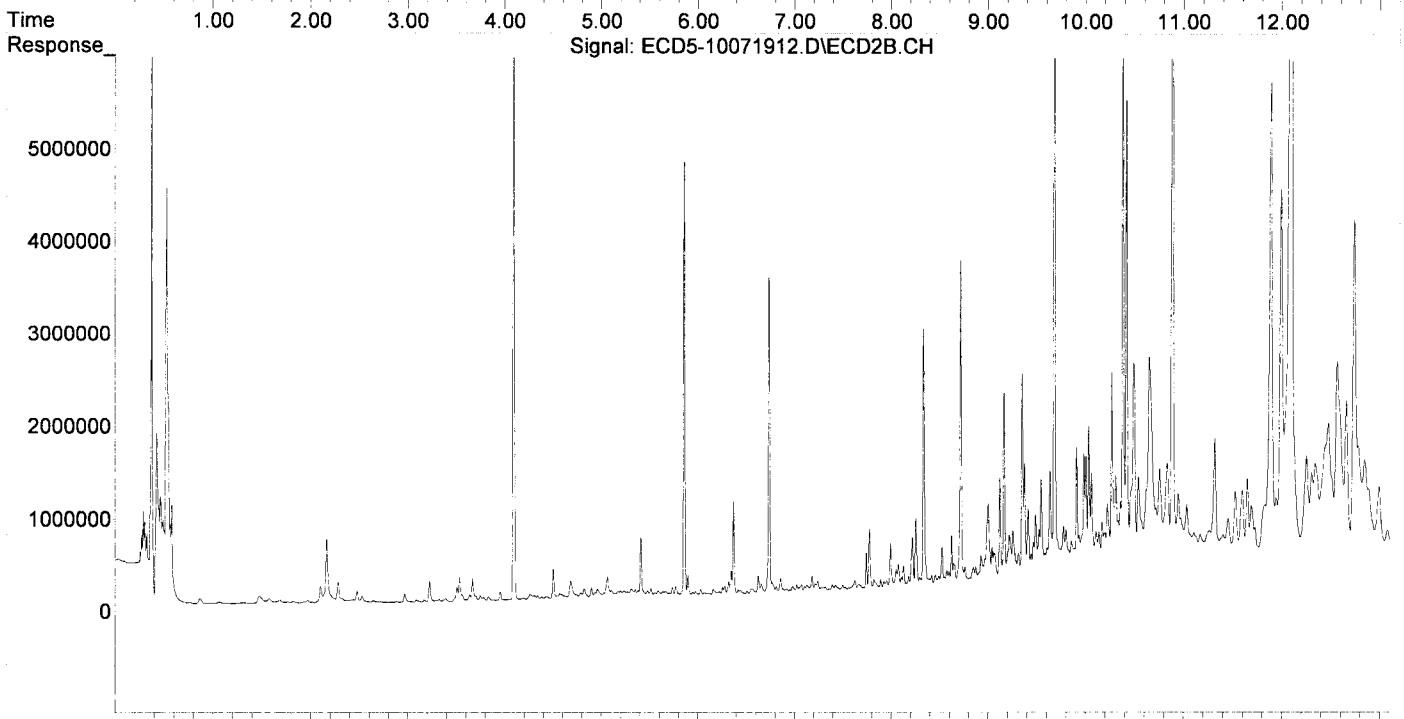
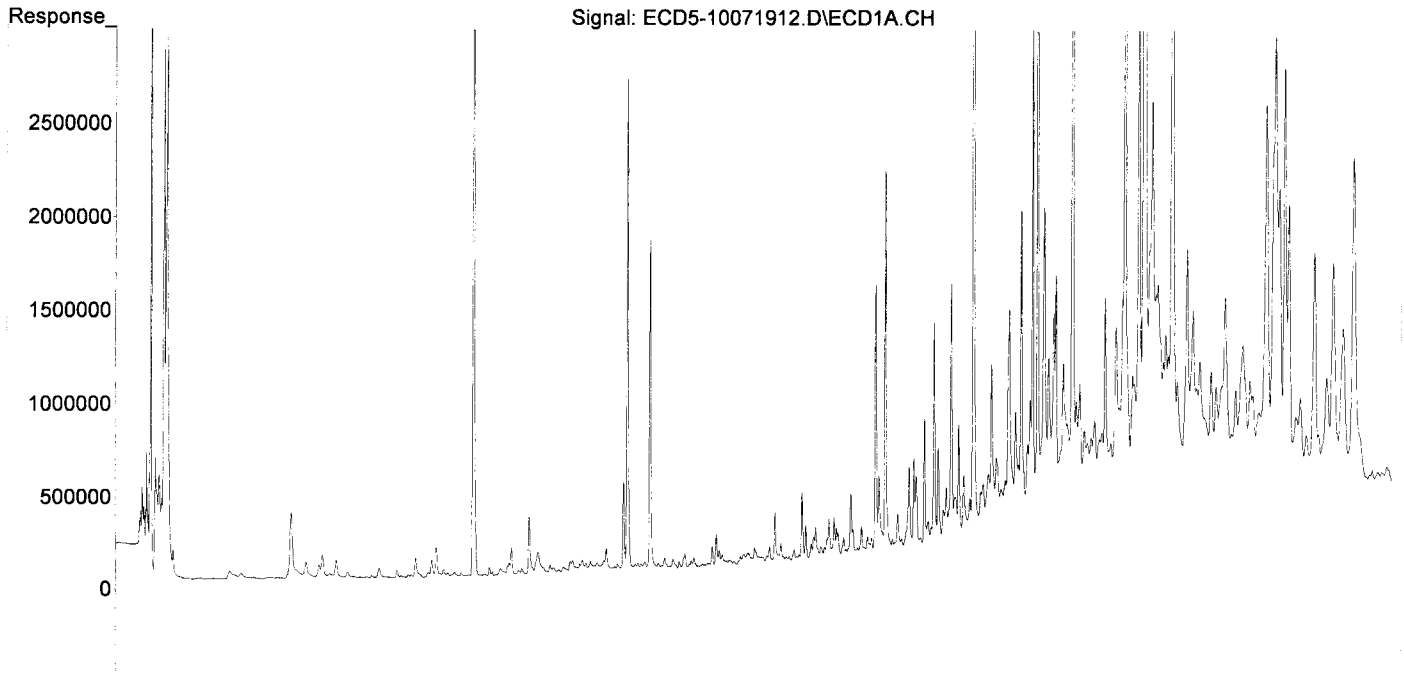
m-manual

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-10\9J07042\
Data File : ECD5-10071912.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Oct 2019 15:06
Operator : MJB
Sample : A9I0771-05RE2@2
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

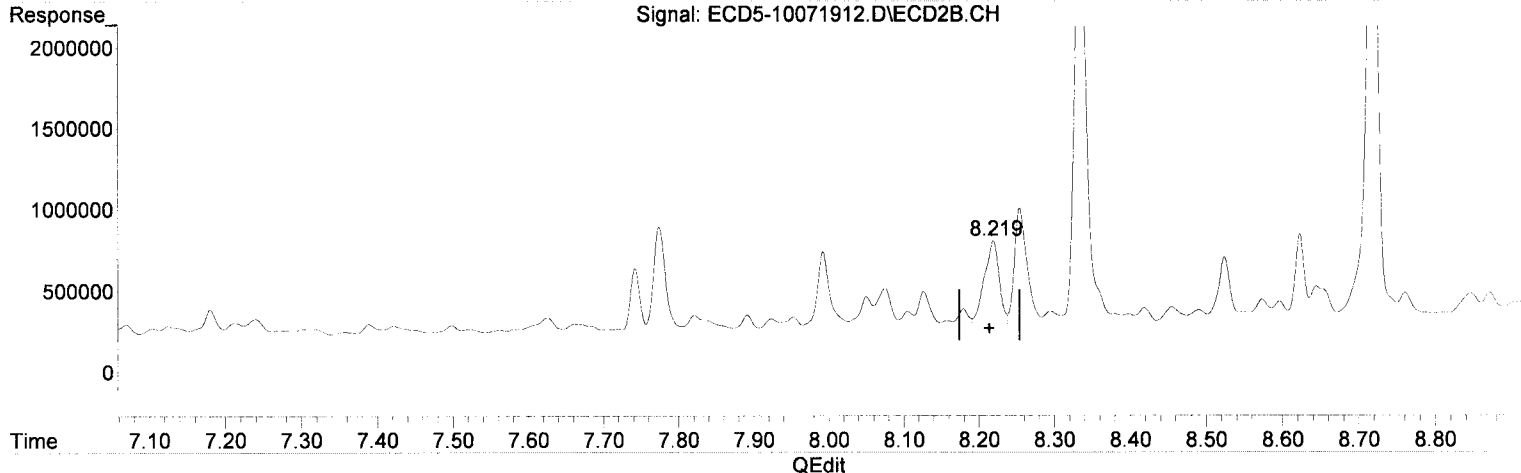
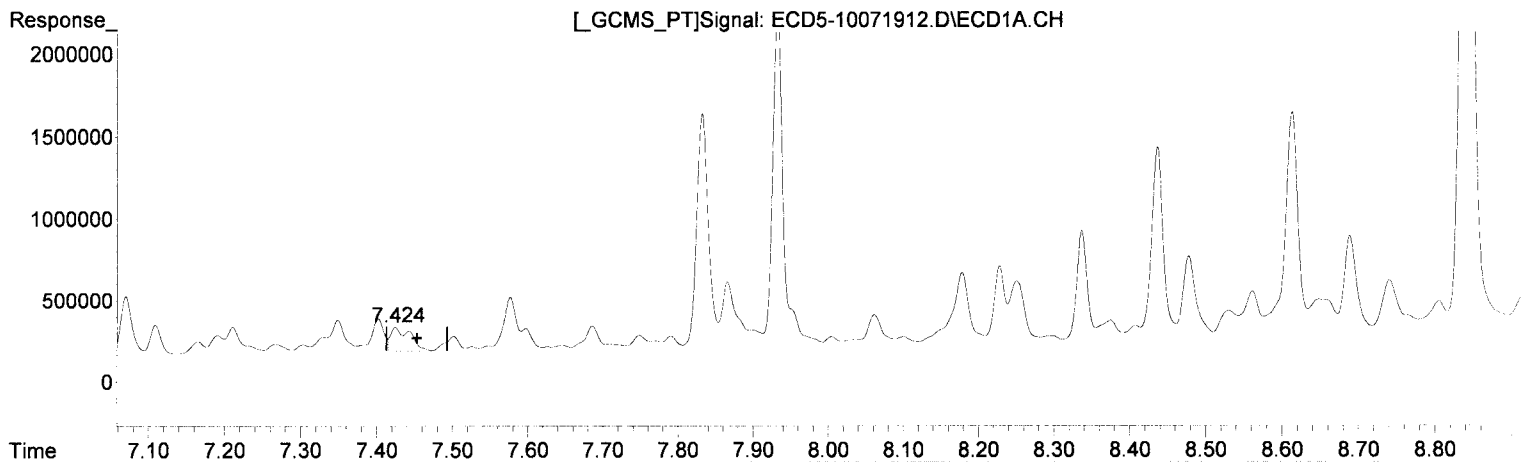
Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 07 18:07:26 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT4.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J07042\
Data File : ECD5-10071912.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Oct 2019 15:06
Operator : MJB
Sample : A9I0771-05RE2@2
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 07 17:52:30 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT4.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(12) 4,4'-DDE
7.425min 0.760 ng/mL
response 143295

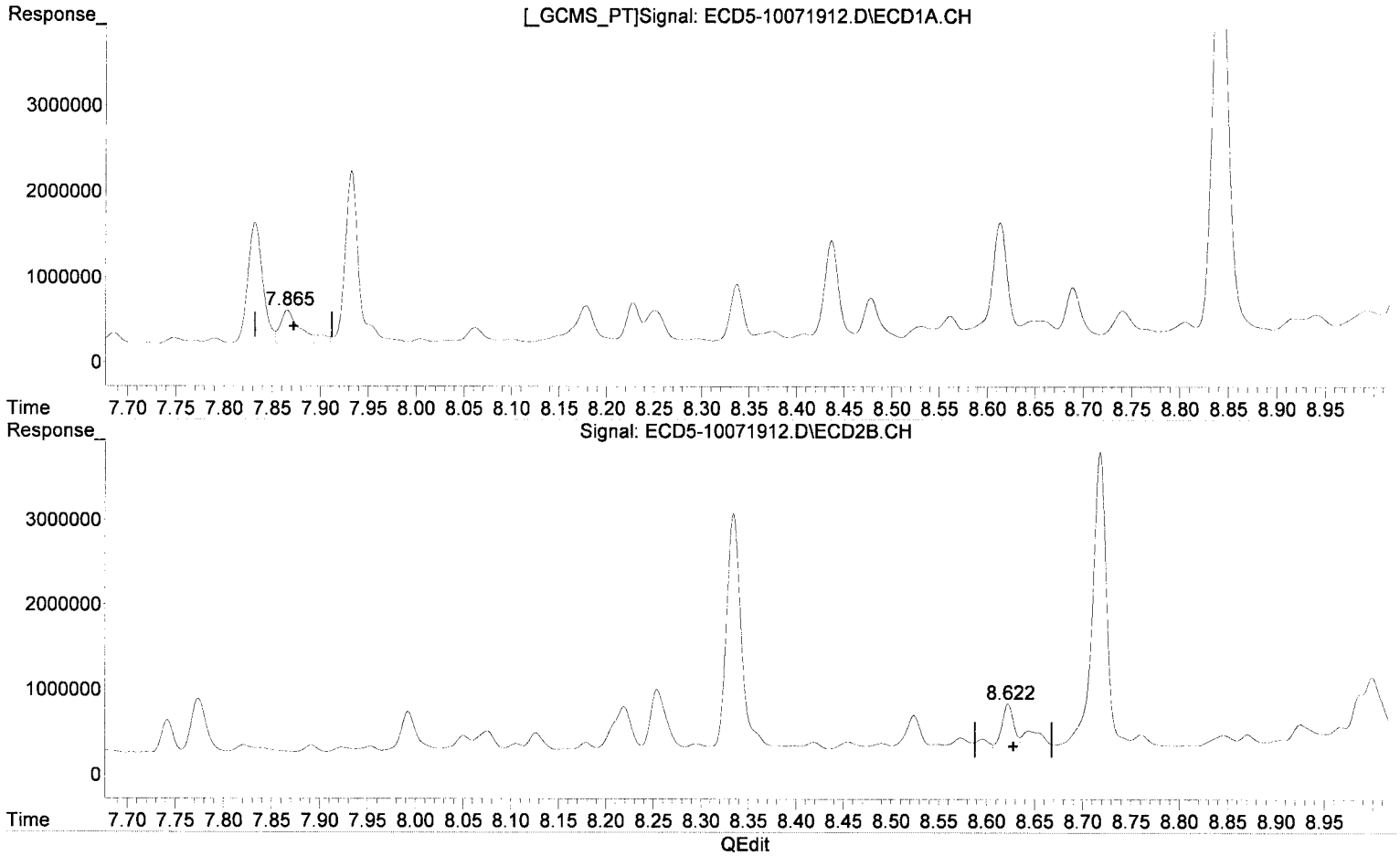
MJB 10/7/19

(12) 4,4'-DDE #2
8.219min 1.636 ng/mL *P-0*
response 508237

Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J07042\
Data File : ECD5-10071912.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Oct 2019 15:06
Operator : MJB
Sample : A9I0771-05RE2@2
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 07 17:52:30 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT4.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(15) 4,4'-DDD
7.866min 2.466 ng/mL
response 387556

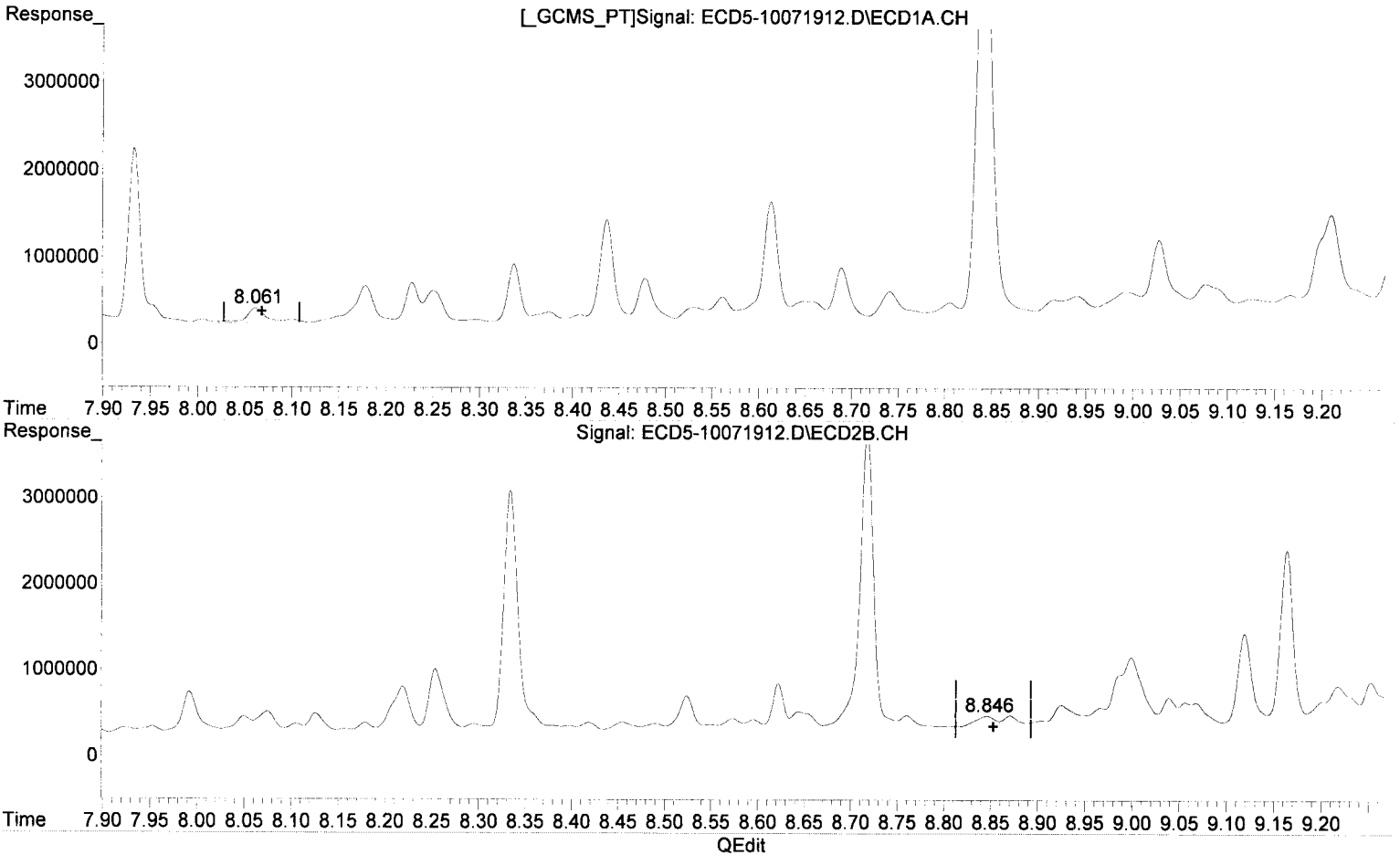
MJB
10/7/19

(15) 4,4'-DDD #2
8.623min 2.006 ng/mL
response 513895

Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J07042\
Data File : ECD5-10071912.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Oct 2019 15:06
Operator : MJB
Sample : A9I0771-05RE2@2
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 07 17:52:30 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT4.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(17) 4,4'-DDT
8.062min 1.424 ng/mL
response 170228

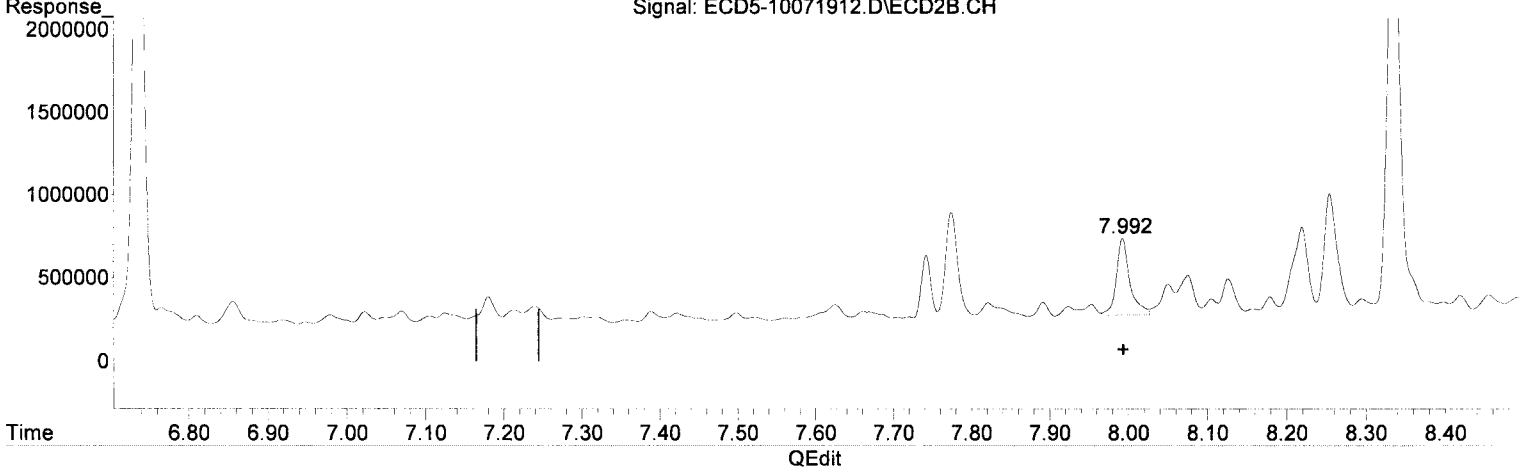
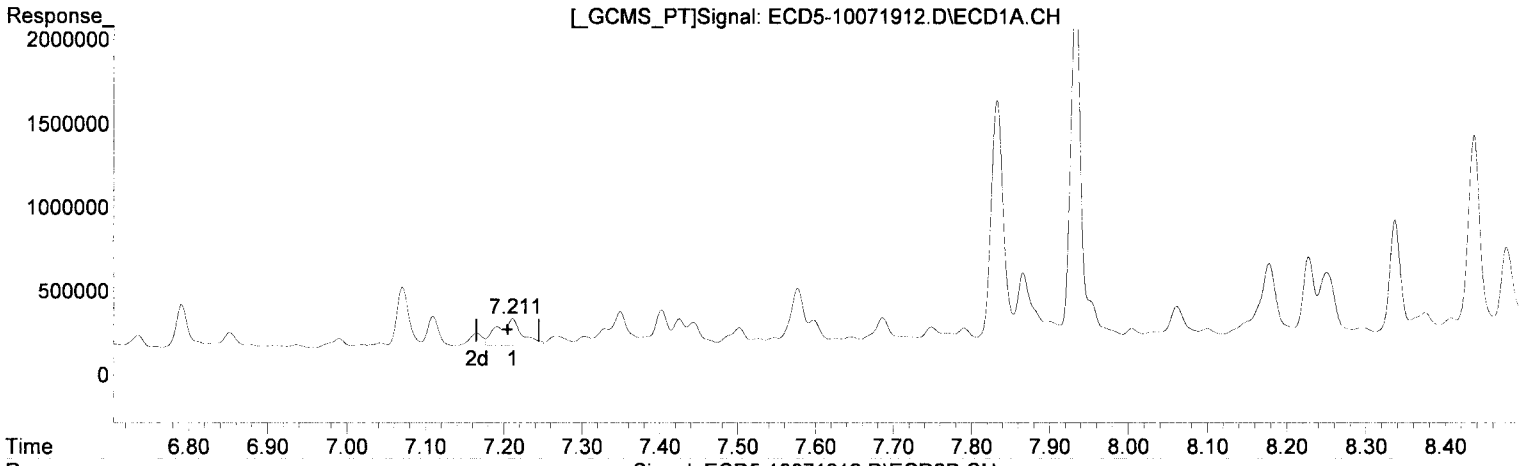
MJB
10/7/19

(17) 4,4'-DDT #2
8.846min 0.691 ng/mL
response 125082

Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J07042\
Data File : ECD5-10071912.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Oct 2019 15:06
Operator : MJB
Sample : A9I0771-05RE2@2
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 07 17:52:30 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT4.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(26) 2,4'-DDE
7.211min 1.232 ng/mL *MDL = MDL*
response 158055

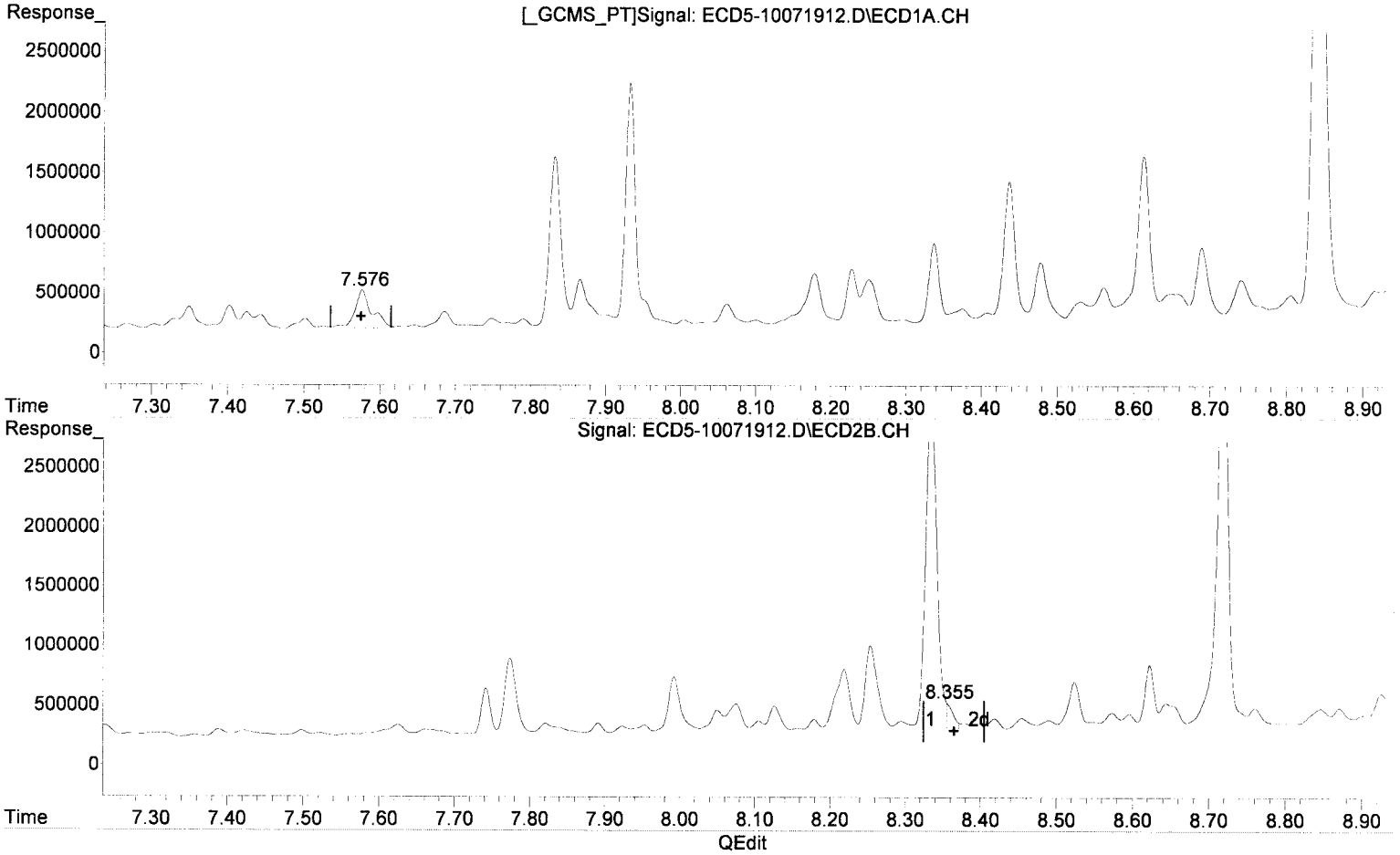
MJB 10/7/19

(26) 2,4'-DDE #2
7.992min 2.172 ng/mL *PO1*
response 460718

Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J07042\
Data File : ECD5-10071912.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Oct 2019 15:06
Operator : MJB
Sample : A9I0771-05RE2@2
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 07 17:52:30 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT4.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(28) 2,4'-DDD
7.577min 2.761 ng/mL
response 315106

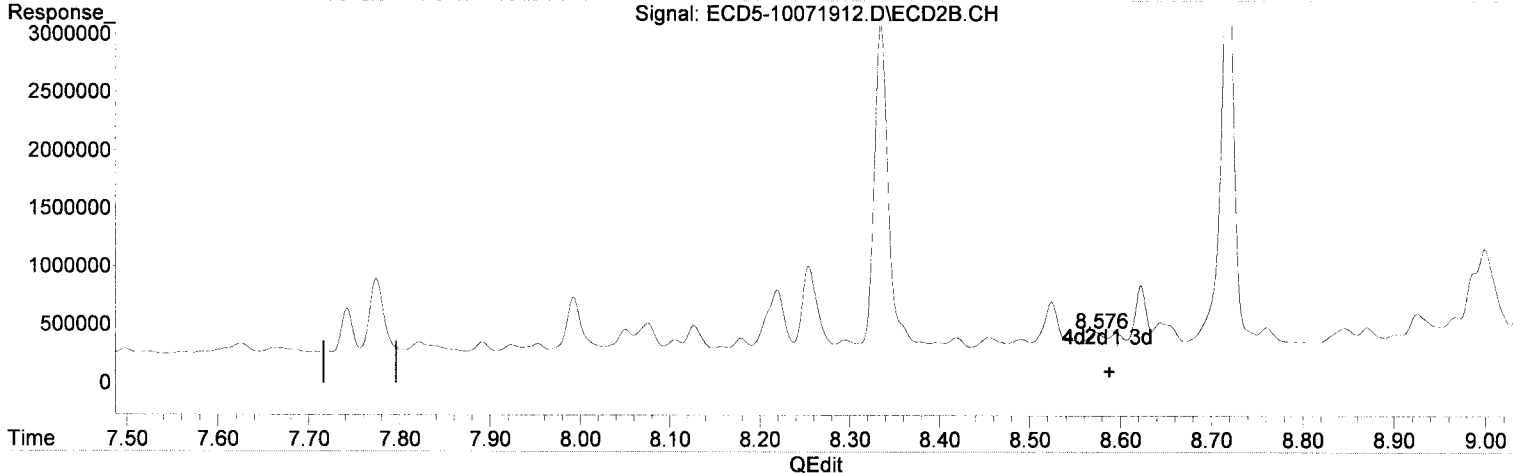
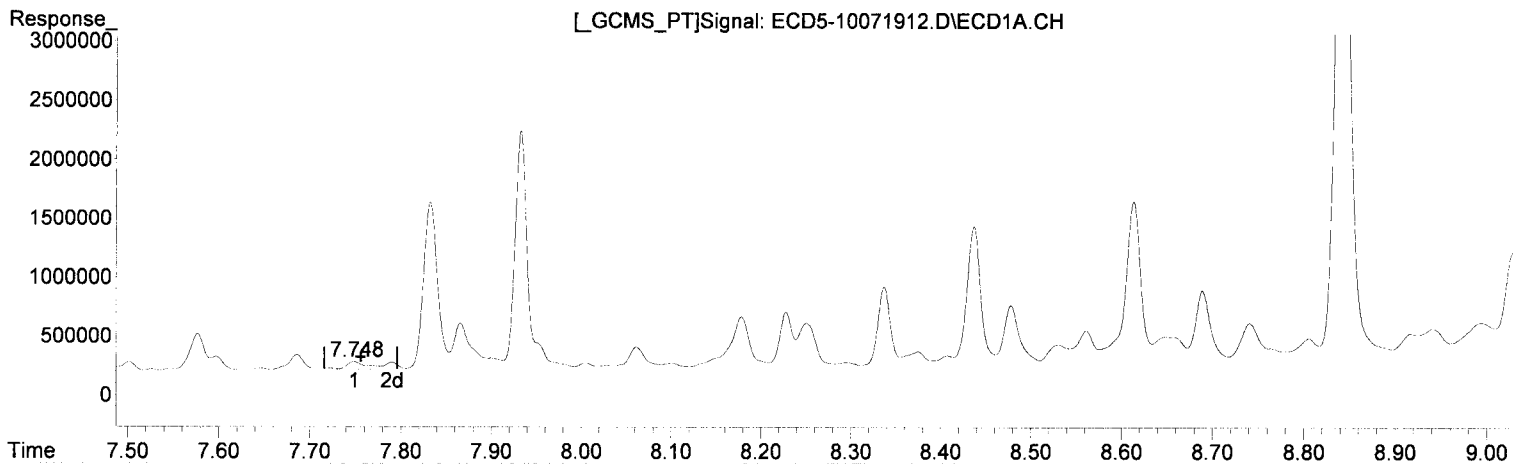
MJB
10/7/19

(28) 2,4'-DDD #2
8.355min 1.188 ng/mL (m) *MJB: MRL*
response 224457

Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J07042\
Data File : ECD5-10071912.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Oct 2019 15:06
Operator : MJB
Sample : A9I0771-05RE2@2
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 07 17:52:30 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT4.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(29) 2,4'-DDT
7.749min 0.636 ng/mL
response 69722

*MJB
10/7/19*

(29) 2,4'-DDT #2
8.576min 0.607 ng/mL (m)
response 108207

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-10\9J07042\
 Data File : ECD5-10071912.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 07 Oct 2019 15:06
 Operator : MJB
 Sample : A9I0771-05RE2@2
 Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
 ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Oct 07 17:52:30 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823RT4.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

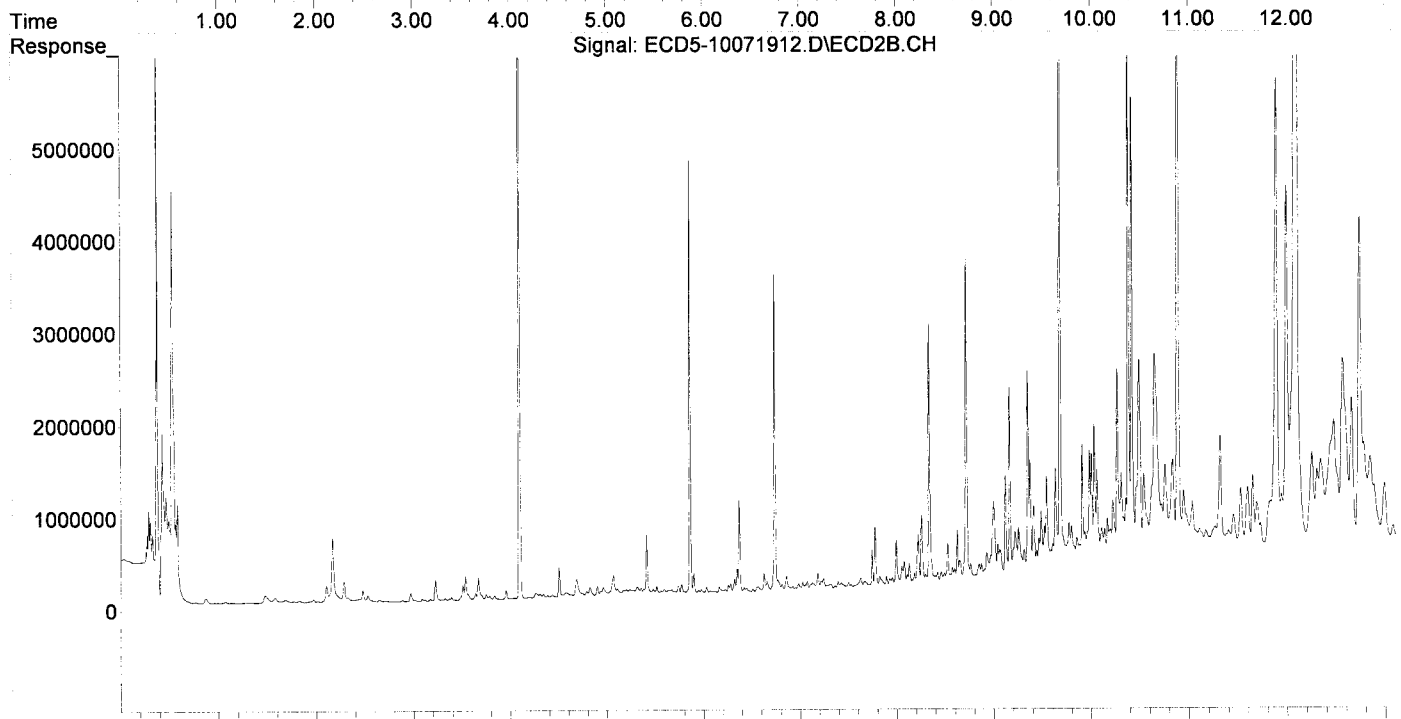
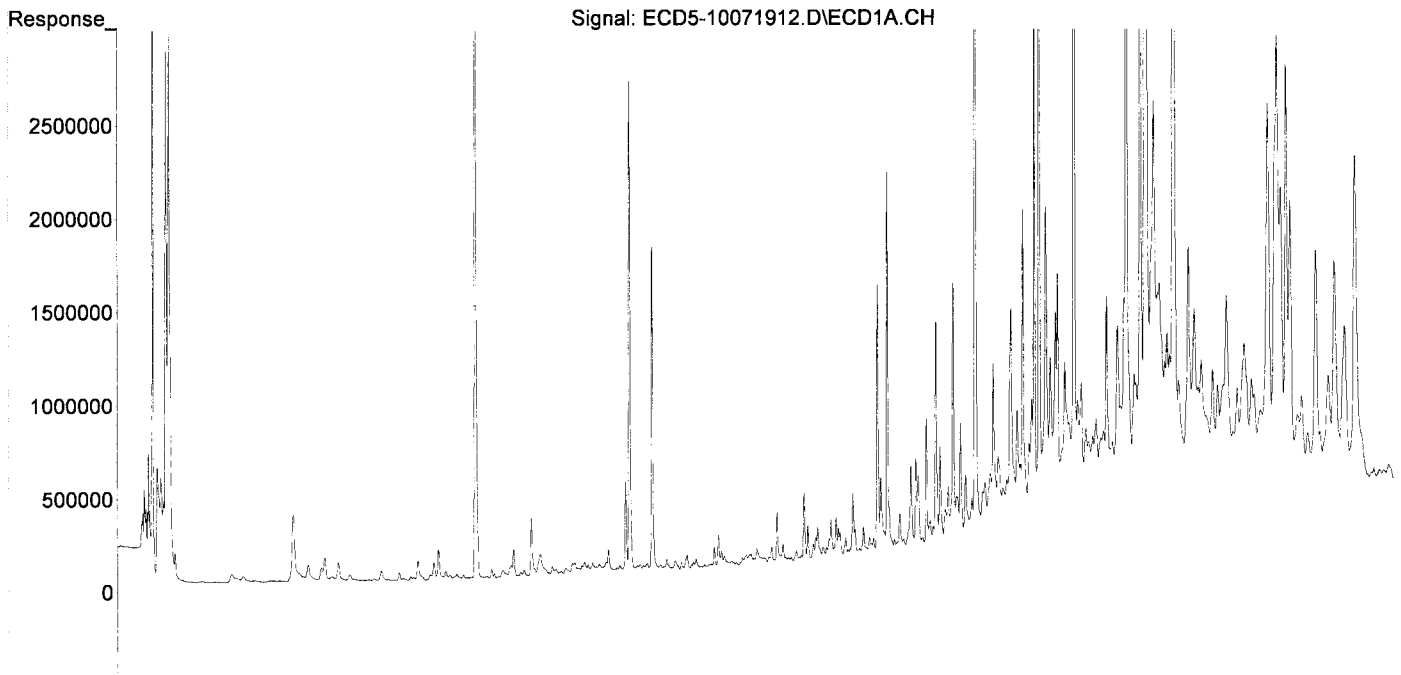
MJB
10/7/19

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.263	5.857	2604051	4685335	15.689	15.971
22) S DCBP (S)	9.450	10.381	2796757	5750764	19.821	31.991 #
Target Compounds						
2) a-BHC	5.798	6.438f	36716	38878	0.157	0.095
3) g-BHC	6.064f	6.765	8211	111140	0.031	0.312 #
4) b-BHC	6.183	6.856	165369	146920	1.830	0.928 #
5) Heptachlor	6.521f	7.180f	51615	160697	0.285	0.525 #
6) d-BHC	6.317	7.105	21505	48653	0.109	0.138
7) Aldrin	6.735	7.422	81065	49157	0.411	0.149 #
8) Heptachlo...	7.211	7.891f	158055	81096	0.858	0.270 #
9) trans-Chl...	7.268f	7.992	49600	460718	0.268	1.470 #
10) cis-Chlor...	7.402	8.105	196342	84185	1.078	0.289 #
11) Endosulfa...	7.502	8.157	84904	22521	0.499	0.082 #
12) 4,4'-DDE	7.425f	8.219	143295	508237	0.760	1.636 #
13) Dieldrin	7.645	8.334	18873	2774544	0.098	9.122 #
14) Endrin	7.832	8.573	1411652	116767	9.601	0.517 #
15) 4,4'-DDD	7.866	8.623	387556	513895	2.466	2.006
16) Endosulfa...	8.005f	8.718	42215	3456241	0.294	14.988 #
17) 4,4'-DDT	8.062	8.846	170228	125082	1.424	0.691 #
18) Endrin Al...	8.251	8.967	361549	208937	2.081	0.295 #
19) Endosulfa...	8.561	9.163	277998	2019097	1.794	8.106 #
20) Methoxychlor	8.437f	9.350	1166060	2164237	19.907	25.295
21) Endrin Ke...	8.741	9.542	327941	1008190	1.967	3.918 #
23) Hexachlor...	3.075	3.533f	104884	257908	0.574	0.686
24) Hexachlor...	5.648	6.318	56980	138244	0.323	0.440
25) Oxychlorane	7.109	7.774	176777	629879	1.074	2.300 #
26) 2,4'-DDE	7.211	7.992	158055	460718	1.232	2.172 #
27) trans-Non...	7.402f	8.050	196342	177467	0.780	0.588
28) 2,4'-DDD	7.577	8.334f	315106	2774544	2.761	14.691 #
29) 2,4'-DDT	7.749	8.596	69722	103866	0.636	0.582
30) cis-Nonac...	7.832	8.623	1411652	513895	6.799	1.532 #
31) Mirex	8.531f	9.542	158867	1008190	1.267	5.418 #
32) Chlordane...	7.349	8.050	191012	177467	9.701	4.904 #
33) Chlordane...	7.425	8.157	143295	22521	5.717	0.742 #
34) Chlordane...	8.005	8.846f	42215	125082	7.302	13.951 #
35) Chlordane...	3.362	3.365	41759	16905	NoCal	NoCal
36) Toxaphene...	7.425	8.398	143295	43325	159.991	16.509 #
37) Toxaphene...	7.686f	8.718	130404	3456241	80.749	1050.202 #
38) Toxaphene...	8.005f	8.761	42215	139140	12.536	27.453 #
39) Toxaphene...	8.251	8.846	361549	125082	111.584	14.980 #
40) Toxaphene...	8.478	8.999	494394	790838	206.243	169.695
41) Toxaphene...	8.561	9.373	277998	1210796	87.847	254.893 #
42) Toxaphene...	3.362	3.365	41759	16905	NoCal	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Data Path : R:\data\2019-10\9J07042\
Data File : ECD5-10071912.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Oct 2019 15:06
Operator : MJB
Sample : A9I0771-05RE2@2
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 07 17:52:30 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT4.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : R:\data\2019-10\9J07042\
 Data File : ECD5-10071924.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 07 Oct 2019 18:33
 Operator : MJB
 Sample : 9J07042-CCV3
 Misc : A19H384, AB 100 ppb
 ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Oct 08 11:00:03 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823RT4.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

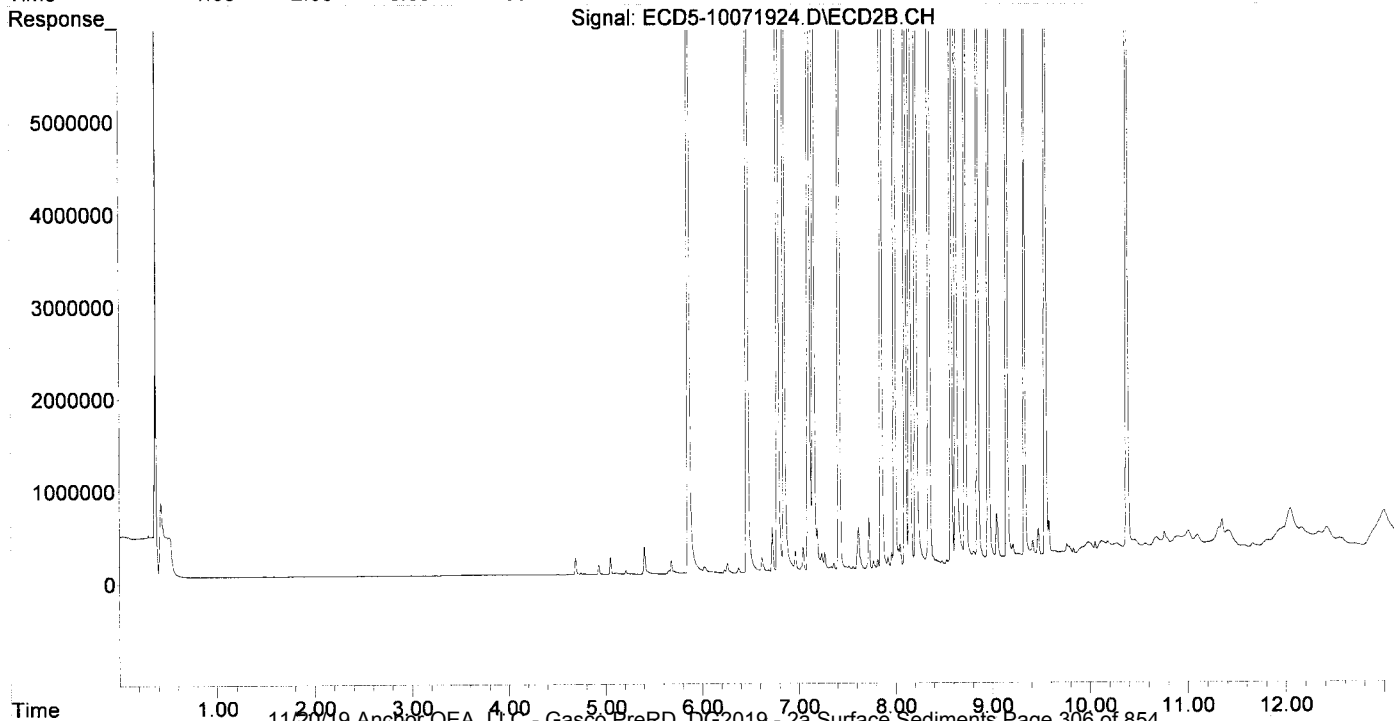
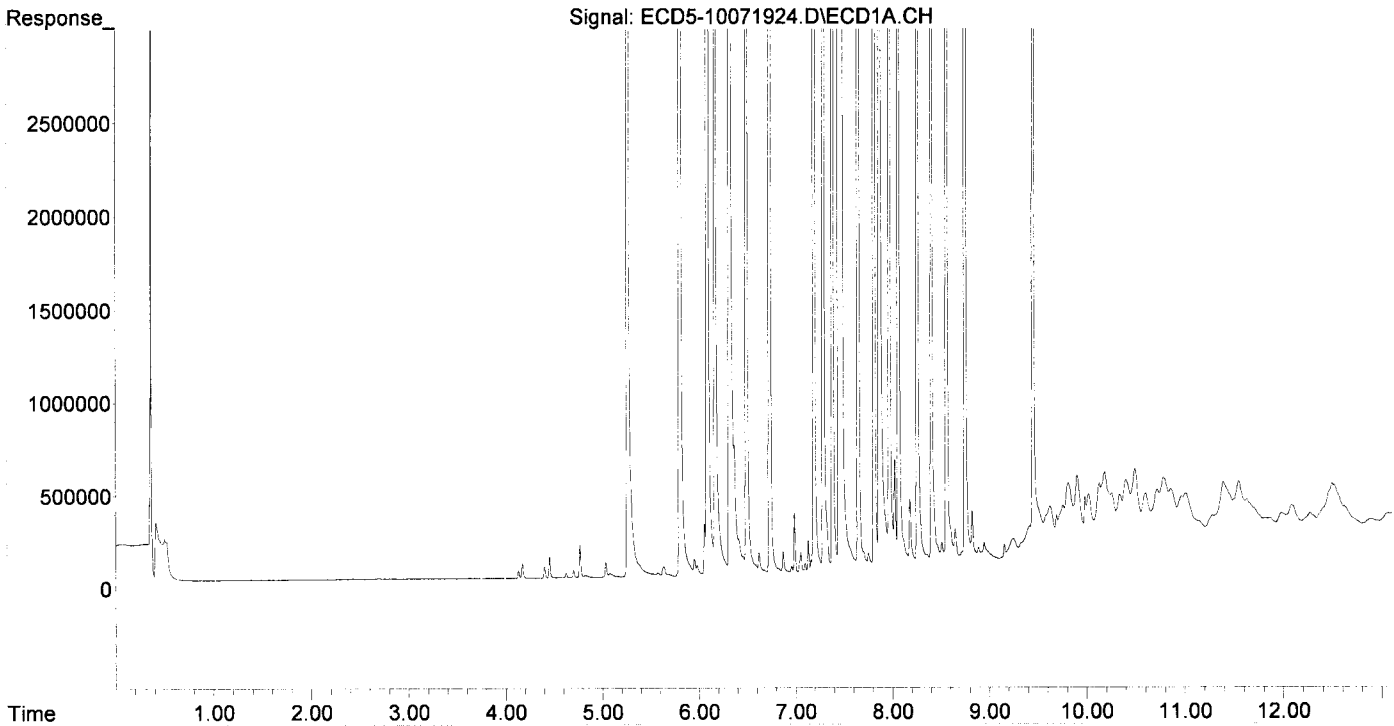
MJB
10/8/19

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.264	5.858	16013046	29301732	96.478	99.881
22) S DCBP (S)	9.452	10.382	13570206	19496696	96.175	108.458
Target Compounds						
2) a-BHC	5.804	6.466	21846475	43658388	95.263	106.396
3) g-BHC	6.089	6.784	18279385	37787662	90.592	105.936
4) b-BHC	6.169	6.850	7091410	14482412	78.459	91.507
5) Heptachlor	6.496	7.154	18616776	33746473	102.687	110.291
6) d-BHC	6.319	7.103	15839692	34728446	80.531	98.474
7) Aldrin	6.735	7.418	20694626	37024063	104.812	112.401
8) Heptachlo...	7.194	7.855	17746333	31426350	96.354	104.459
9) trans-Chl...	7.289	7.994	18966489	32953588	102.582	105.174
10) cis-Chlor...	7.385	8.102	18789024	31852739	103.196	109.367
11) Endosulfa...	7.482	8.151	17699611	28564114	104.005	103.803
12) 4,4'-DDE	7.452	8.212	15931852	31876534	84.506	102.603
13) Dieldrin	7.653	8.350	19749303	34028225	102.872	111.880
14) Endrin	7.816	8.577	15097658	24655279	102.686	109.178
15) 4,4'-DDD	7.872	8.626	12911212	25834194	82.163	100.831
16) Endosulfa...	7.973	8.724	14268186	25452235	99.353	110.371
17) 4,4'-DDT	8.067	8.851	11649583	20541435	97.437	100.393
18) Endrin Al...	8.262	8.961	12449055	21885576	99.171	105.642
19) Endosulfa...	8.562	9.151	15093334	25684970	97.390	103.116
20) Methoxychlor	8.408	9.330	5359665	9991834	91.502	101.262
21) Endrin Ke...	8.755	9.547	16588106	28006971	99.474	108.843
23) Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
24) Hexachlor...	5.634	0.000	51009	0	0.289	N.D. #
25) Oxychlordane	7.131	7.772	162253	73641	0.986	0.269 #
26) 2,4'-DDE	7.194	7.994	17746333	32953588	138.361	155.340
27) trans-Non...	7.385	8.048	18789024	239431	104.681	0.794 #
28) 2,4'-DDD	0.000	8.350	0	34028225	N.D.	180.174 #
29) 2,4'-DDT	7.753	8.577	74896	24655279	0.683	138.249 #
30) cis-Nonac...	7.872f	8.626	12911212	25834194	62.188	77.014
31) Mirex	8.511	9.547	105113	28006971	0.838	150.516 #
32) Chlordane...	7.385f	8.048	18789024	239431	954.261	6.617 #
33) Chlordane...	7.452	8.151	15931852	28564114	635.639	940.721 #
34) Chlordane...	7.973	8.803	14268186	129883	2468.066	14.486 #
35) Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36) Toxaphene...	7.452f	8.350f	15931852	34028225	17788.084	12966.798
37) Toxaphene...	0.000	8.724	0	25452235	N.D.	7733.832 #
38) Toxaphene...	8.028	8.803f	566019	129883	168.083	25.627 #
39) Toxaphene...	8.262	8.851	12449055	20541435	3842.120	2460.101
40) Toxaphene...	8.511	9.045f	105113	522993	43.849	112.222 #
41) Toxaphene...	8.562	9.414f	15093334	211400	4769.454	44.503 #
42) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Data Path : R:\data\2019-10\9J07042\
Data File : ECD5-10071924.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Oct 2019 18:33
Operator : MJB
Sample : 9J07042-CCV3
Misc : A19H384, AB 100 ppb
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 08 11:00:03 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT4.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-10\9J07042\
 Data File : ECD5-10071925.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 07 Oct 2019 18:50
 Operator : MJB
 Sample : 9J07042-CCV4
 Misc : A19E155, 9-42 100 ppb
 ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Oct 08 11:00:10 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823RT4.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

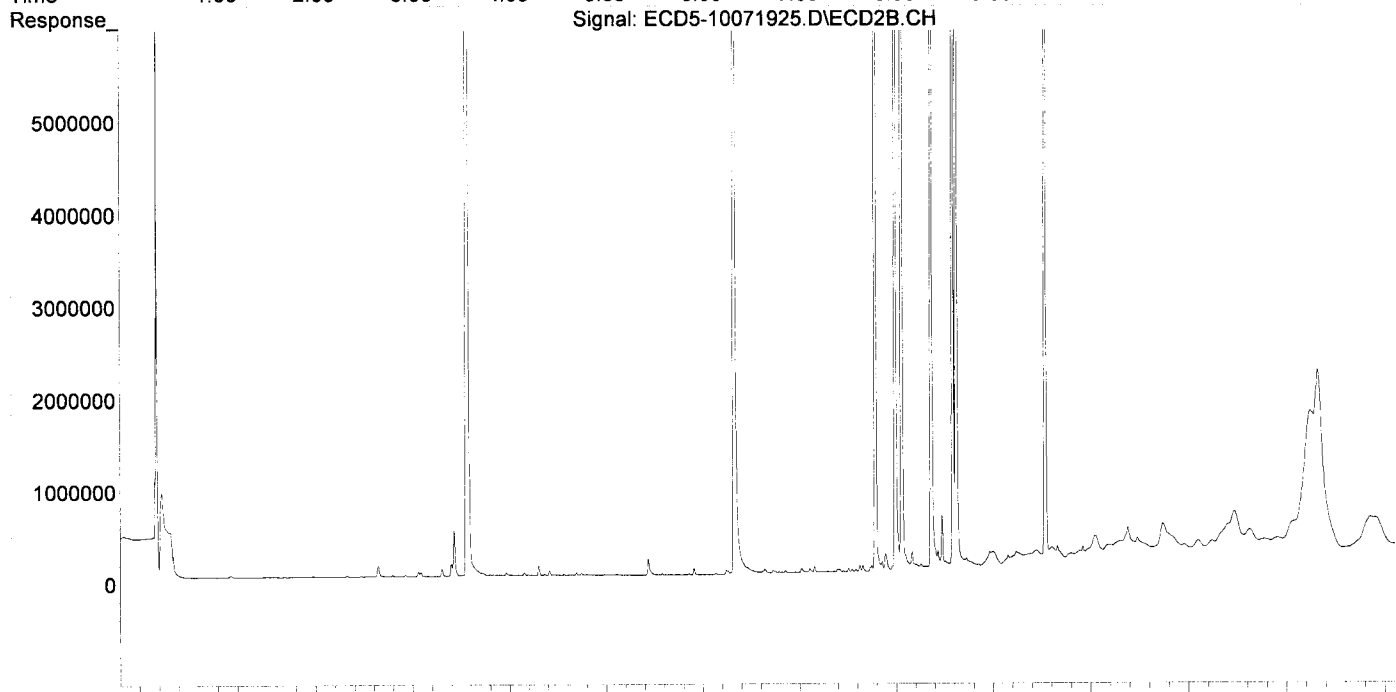
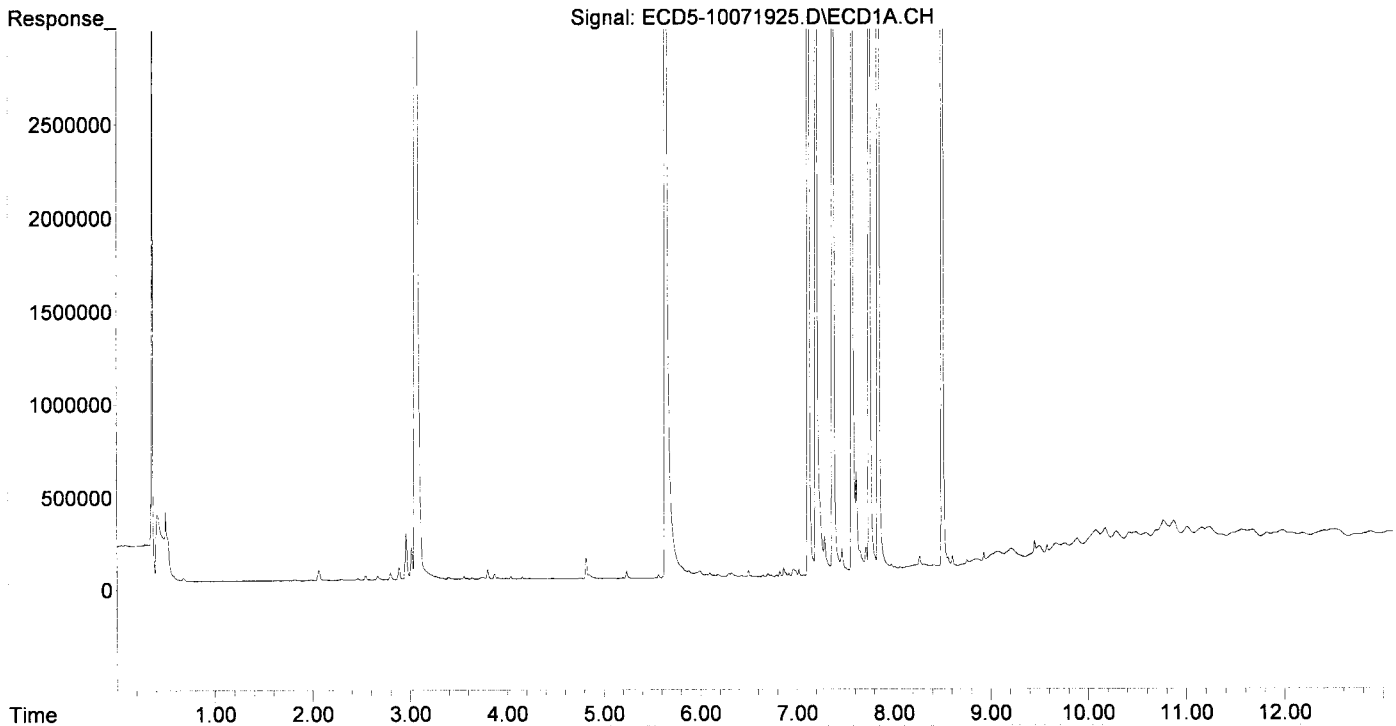
MJB
10/8/19

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.238f	5.857	38304	10109	0.231	0.034 #
22) S DCBP (S)	9.453	10.382	98894	329239	0.701	1.832 #
Target Compounds						
2) a-BHC	0.000	6.461	0	67781	N.D.	0.165 #
3) g-BHC	6.100	6.786	22296	14465	0.111	0.041 #
4) b-BHC	6.182	6.855	15935	18214	0.176	0.115
5) Heptachlor	6.498	7.155	34538	58144	0.191	0.190
6) d-BHC	6.326	7.106	21482	35340	0.109	0.100
7) Aldrin	6.735	7.416	7491	23587	0.038	0.072 #
8) Heptachlo...	7.202	7.854	11694387	87541	63.495	0.291 #
9) trans-Chl...	7.289	7.991	202644	21874811	1.096	69.815 #
10) cis-Chlor...	7.378	0.000	19157024	0	105.217	N.D. #
11) Endosulfa...	7.468	8.164	132276	165195	0.777	0.600
12) 4,4'-DDE	7.468	0.000	132276	0	0.702	N.D. #
13) Dieldrin	7.618f	8.362	541022	19267305	2.818	63.348 #
14) Endrin	7.846f	8.585	22507168	20342126	153.082	90.078 #
15) 4,4'-DDD	7.846f	8.622	22507168	38386650	143.230	149.823
16) Endosulfa...	7.978	8.724	30675	66800	0.214	0.290
17) 4,4'-DDT	8.069	8.850	13188	11738	0.110	0.030 #
18) Endrin Al...	8.270	8.964	63665	141840	BelowCal	BelowCal
19) Endosulfa...	0.000	9.152	0	90539	N.D.	0.363 #
20) Methoxychlor	8.412	0.000	10494	0	0.179	N.D. #
21) Endrin Ke...	8.759	9.534	24014	20326191	0.144	78.993 #
23) Hexachlor...	3.063	3.557	19354797	42603888	105.915	113.329
24) Hexachlor...	5.645	6.324	15482680	30889192	87.823	98.346
25) Oxychlorthane	7.123	7.785	16688901	29255317	101.429	106.809
26) 2,4'-DDE	7.202	7.991	11694387	21874811	91.176	103.116
27) trans-Non...	7.378	8.059	19157024	33323237	106.740	110.475
28) 2,4'-DDD	7.573	8.362	9929406	19267305	87.005	102.017
29) 2,4'-DDT	7.754	8.585	11919483	20342126	108.668	114.064
30) cis-Nonac...	7.846	8.622	22507168	38386650	108.408	114.433
31) Mirex	8.507	9.534	12978995	20326191	103.528	109.238
32) Chlordane...	7.378f	8.059	19157024	33323237	972.951	920.924
33) Chlordane...	7.468f	8.164	132276	165195	5.277	5.440
34) Chlordane...	7.978	8.850f	30675	11738	5.306	1.309 #
35) Chlordane...	3.395f	0.000	11483	0	NoCal	N.D.
36) Toxaphene...	0.000	8.362f	0	19267305	N.D.	7342.001 #
37) Toxaphene...	7.716	8.724	129896	66800	80.434	20.298 #
38) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.
39) Toxaphene...	8.270	8.850	63665	11738	19.649	1.406 #
40) Toxaphene...	8.507	8.995	12978995	140407	5414.362	30.128 #
41) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.
42) Toxaphene...	3.395f	3.397f	11483	131166	NoCal	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Data Path : R:\data\2019-10\9J07042\
Data File : ECD5-10071925.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Oct 2019 18:50
Operator : MJB
Sample : 9J07042-CCV4
Misc : A19E155, 9-42 100 ppb
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 08 11:00:10 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT4.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-10\9J07042\
 Data File : ECD5-10071926.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 07 Oct 2019 19:08
 Operator : MJB
 Sample : 9J07042-CCB2
 Misc : A19I233
 ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Oct 08 11:00:16 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823RT4.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

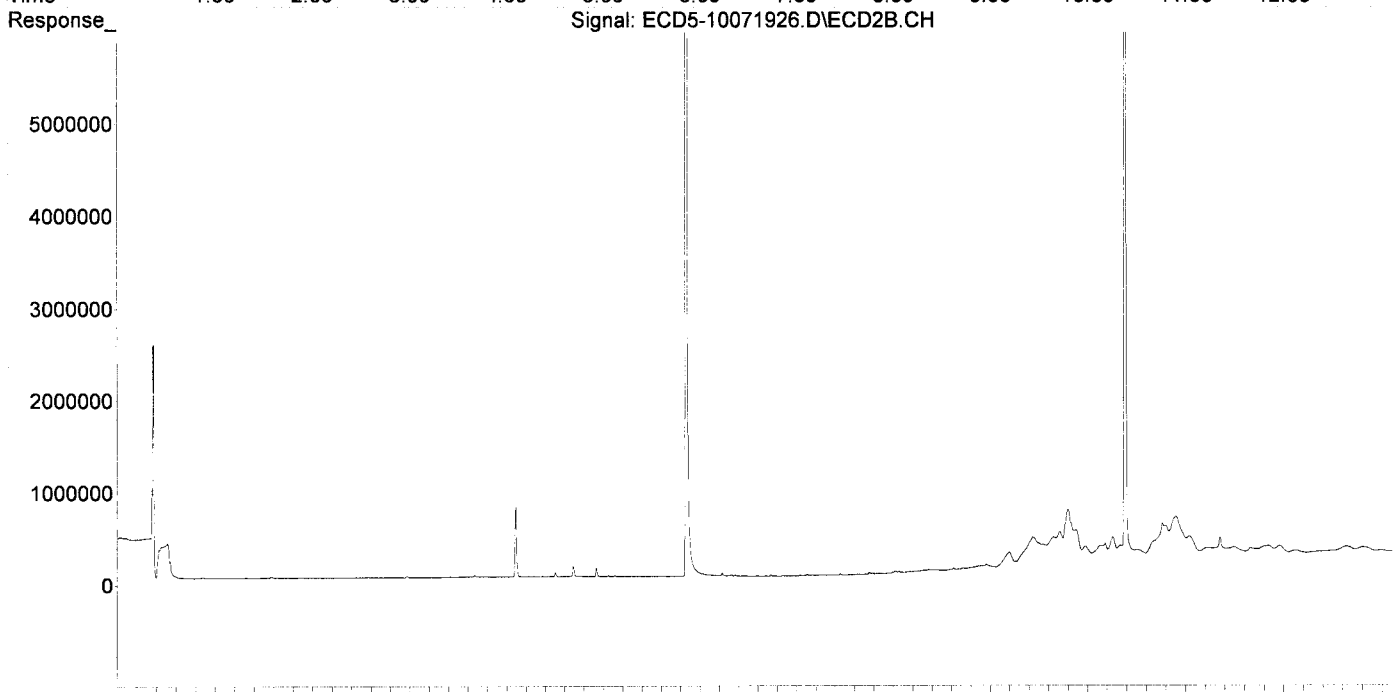
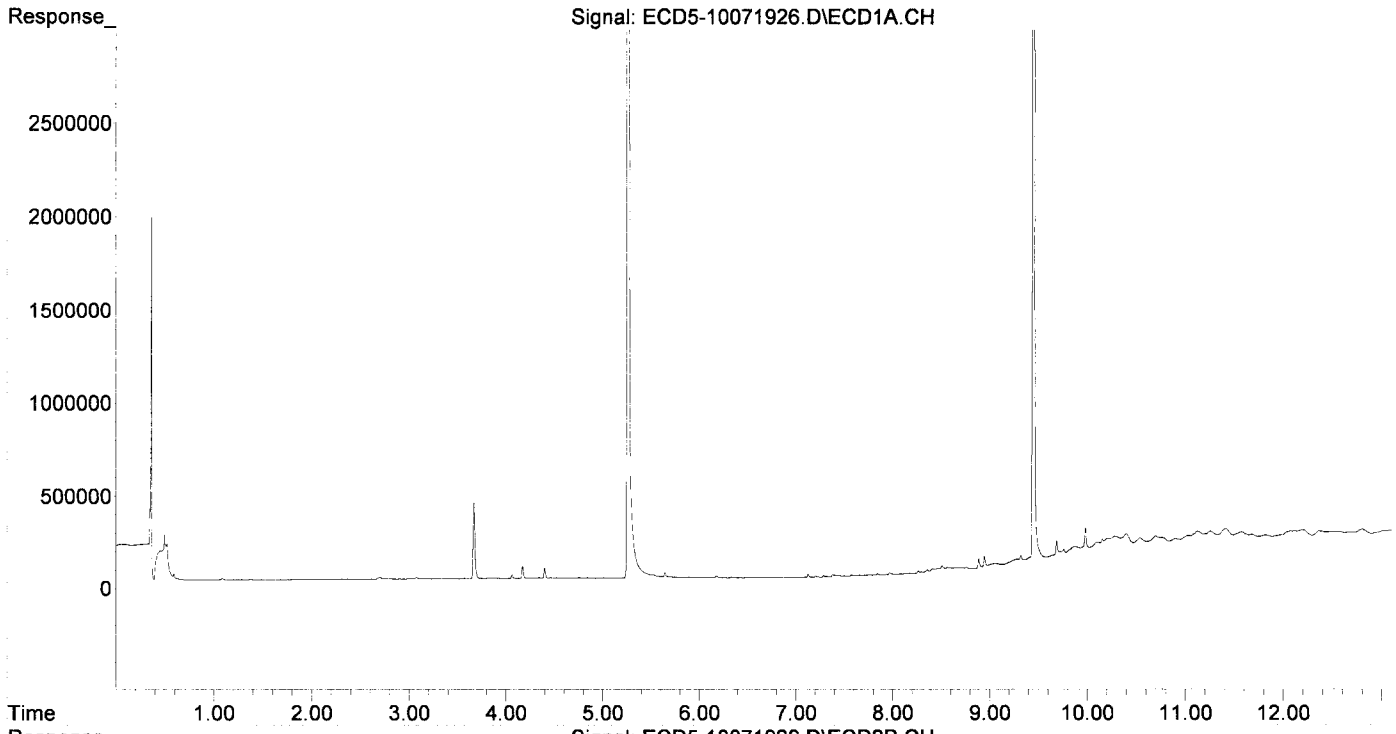
MJB
10/6/19

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.264	5.858	13727763	24482056	82.710	83.452
22) S DCBP (S)	9.452	10.382	11169510	16658024	79.161	92.667
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D.	N.D.
3) g-BHC	0.000	0.000	0	0	N.D.	N.D.
4) b-BHC	6.176	0.000	9035	0	0.100	N.D. #
5) Heptachlor	0.000	0.000	0	0	N.D.	N.D.
6) d-BHC	0.000	7.107	0	9226	N.D.	0.026 #
7) Aldrin	0.000	7.452f	0	13087	N.D.	0.040 #
8) Heptachlo...	7.206	0.000	6902	0	0.037	N.D. #
9) trans-Chl...	7.290	8.021f	7393	16870	0.040	0.054
10) cis-Chlor...	7.383	0.000	11011	0	0.060	N.D. #
11) Endosulfa...	7.485	0.000	3116	0	0.018	N.D. #
12) 4,4'-DDE	7.485f	0.000	3116	0	0.017	N.D. #
13) Dieldrin	7.655	8.364	2728	9947	0.014	0.033 #
14) Endrin	7.808	0.000	1981	0	0.013	N.D. #
15) 4,4'-DDD	7.887	8.622	1549	12322	0.010	0.048 #
16) Endosulfa...	7.971	8.713	9004	11937	0.063	0.052
17) 4,4'-DDT	0.000	0.000	0	0	N.D.	N.D.
18) Endrin Al...	8.268	8.961	9212	38545	BelowCal	BelowCal
19) Endosulfa...	8.566	0.000	18704	0	0.121	N.D. #
20) Methoxychlor	8.416	0.000	15908	0	0.272	N.D. #
21) Endrin Ke...	8.762	9.543	9701	226642	0.058	0.881 #
23) Hexachlor...	3.076	0.000	8267	0	0.045	N.D. #
24) Hexachlor...	5.646	6.323	23969	13532	0.136	0.043 #
25) Oxychlordane	7.128	7.785	16315	11275	0.099	0.041 #
26) 2,4'-DDE	7.206	8.021f	6902	16870	0.054	0.080 #
27) trans-Non...	7.383	8.059	11011	12552	87346.639	0.042 #
28) 2,4'-DDD	7.578	8.364	6195	9947	0.054	0.053
29) 2,4'-DDT	7.758	8.622f	4019	12322	0.037	0.069 #
30) cis-Nonac...	7.848	8.622	9012	12322	0.043	0.037
31) Mirex	8.512	9.543	26952	226642	0.215	1.218 #
32) Chlordane...	7.383f	8.059	11011	12552	0.559	0.347
33) Chlordane...	0.000	0.000	0	0	N.D.	N.D.
34) Chlordane...	7.971	0.000	9004	0	1.557	N.D. #
35) Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36) Toxaphene...	7.383f	8.364f	11011	9947	12.294	3.791 #
37) Toxaphene...	0.000	8.713	0	11937	N.D.	3.627 #
38) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.
39) Toxaphene...	8.268	0.000	9212	0	2.843	N.D. #
40) Toxaphene...	8.512f	0.000	26952	0	11.243	N.D. #
41) Toxaphene...	8.566	0.000	18704	0	5.910	N.D. #
42) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Data Path : R:\data\2019-10\9J07042\
Data File : ECD5-10071926.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Oct 2019 19:08
Operator : MJB
Sample : 9J07042-CCB2
Misc : A19I233
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 08 11:00:16 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT4.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-10\9J07042\
 Data File : ECD5-10071939.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 07 Oct 2019 22:51
 Operator : MJB
 Sample : 9J07042-CCV5
 Misc : A19H383, AB 50 ppb
 ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Oct 08 14:32:34 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823RT4.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB
10/8/19

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL

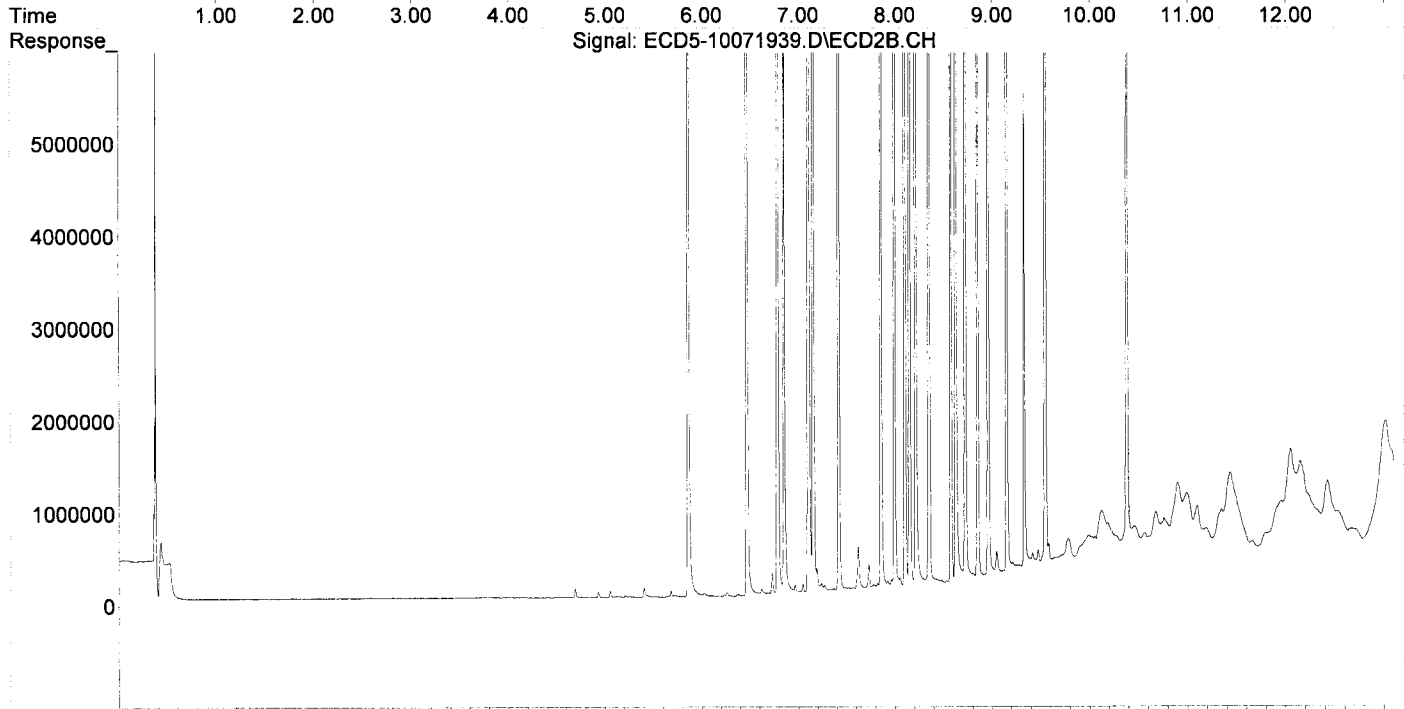
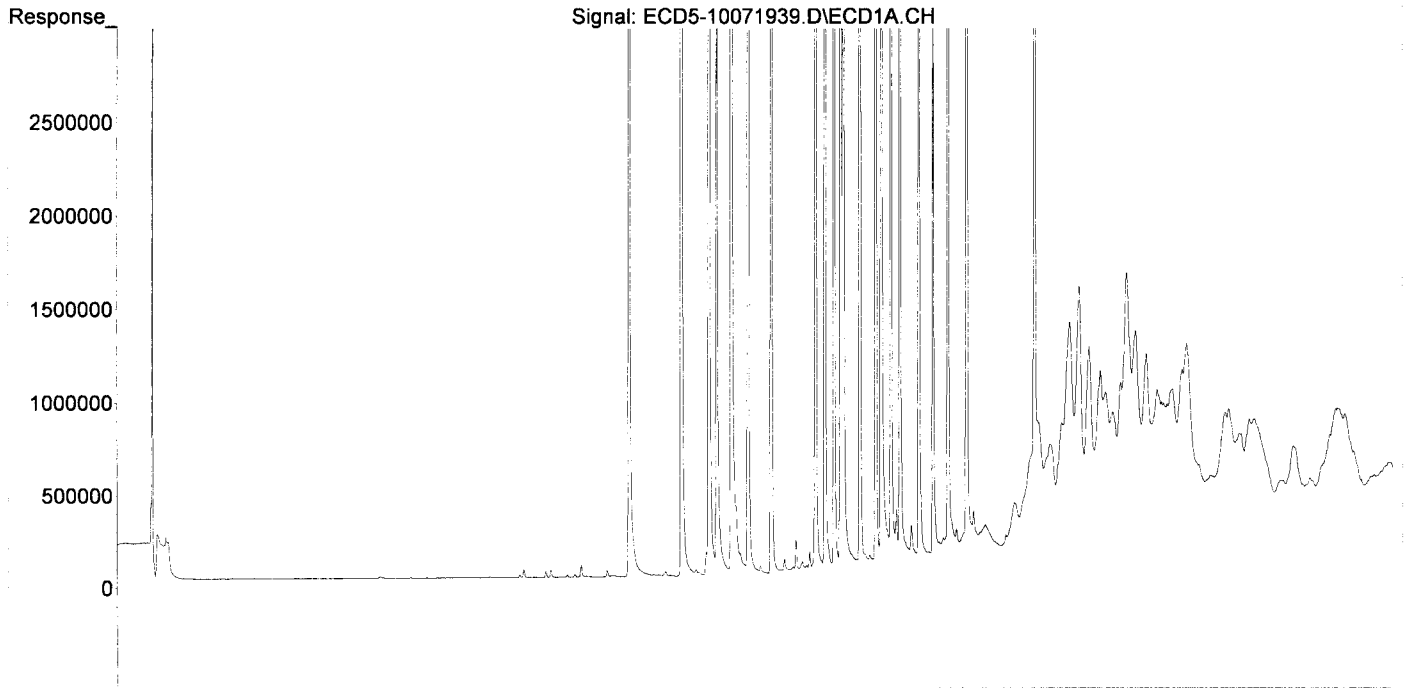
System Monitoring Compounds						
1) S TCMX (S)	5.263	5.857	8239769	13804672	49.644	47.056
22) S DCBP (S)	9.451	10.380	7156748	10388933	50.722	57.792
Target Compounds						
2) a-BHC	5.804	6.465	11445166	21470529	49.907	52.324
3) g-BHC	6.090	6.783	9204606	17807195	45.618	49.922
4) b-BHC	6.170	6.849	3510130	7238058	38.836	45.734
5) Heptachlor	6.496	7.153	9762501	16994099	53.848	55.540
6) d-BHC	6.321	7.102	7651981	16730227	38.904	47.439
7) Aldrin	6.734	7.416	10410601	17782310	52.726	53.985
8) Heptachlo...	7.194	7.854	9452488	15912880	51.322	52.893
9) trans-Chl...	7.289	7.993	9609872	16139515	51.976	51.510
10) cis-Chlor...	7.385	8.100	9426940	14787800	51.776	50.774
11) Endosulfa...	7.482	8.150	9340590	14274123	54.887	51.873
12) 4,4'-DDE	7.452	8.211	7786442	15124360	41.301m	48.682
13) Dieldrin	7.653	8.349	9993066	16707930	52.053	54.933
14) Endrin	7.817	8.575	7768105	12096205	52.835	53.564
15) 4,4'-DDD	7.872	8.625	6571575	12599656	41.820	49.176
16) Endosulfa...	7.973	8.723	7262262	12318584	50.569	53.418
17) 4,4'-DDT	8.067	8.849	6146552	10471401	51.410	55.188
18) Endrin Al...	8.262	8.959	6587145	10865172	53.604	55.022
19) Endosulfa...	8.561	9.150	8046856	12890072	51.923	51.749
20) Methoxychlor	8.408	9.329	2859035	5197489	48.810	57.167
21) Endrin Ke...	8.754	9.545	8799000	14887341	52.765	57.856
23) Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
24) Hexachlor...	5.639	6.289f	24984	11194	0.142	0.036 #
25) Oxychlordane	7.131	7.772	88864	26012	0.540	0.095 #
26) 2,4'-DDE	7.194	7.993	9452488	16139515	73.697	76.080
27) trans-Non...	7.385	8.048	9426940	81039	52.332	0.269 #
28) 2,4'-DDD	0.000	8.349	0	16707930	N.D.	88.466 #
29) 2,4'-DDT	7.754	8.575	33519	12096205	0.306	67.827 #
30) cis-Nonac...	7.872f	8.625	6571575	12599656	31.653	37.561
31) Mirex	0.000	9.545	0	14887341	N.D.	80.008 #
32) Chlordane...	7.385f	8.048	9426940	81039	478.777	2.240 #
33) Chlordane...	0.000	8.150	0	14274123	N.D.	470.099 #
34) Chlordane...	7.973	8.801	7262262	62100	1256.203	6.926 #
35) Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36) Toxaphene...	7.385f	8.415f	9426940	40905	10525.280	15.587 #
37) Toxaphene...	0.000	8.723	0	12318584	N.D.	3743.084 #
38) Toxaphene...	8.028	8.801f	261692	62100	77.711	12.253 #
39) Toxaphene...	8.262	8.849	6587145	10471401	2032.974	1254.085
40) Toxaphene...	0.000	9.045f	0	268764	N.D.	57.670 #
41) Toxaphene...	8.561	9.413f	8046856	211802	2542.786	44.588 #
42) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-10\9J07042\
Data File : ECD5-10071939.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Oct 2019 22:51
Operator : MJB
Sample : 9J07042-CCV5
Misc : A19H383, AB 50 ppb
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

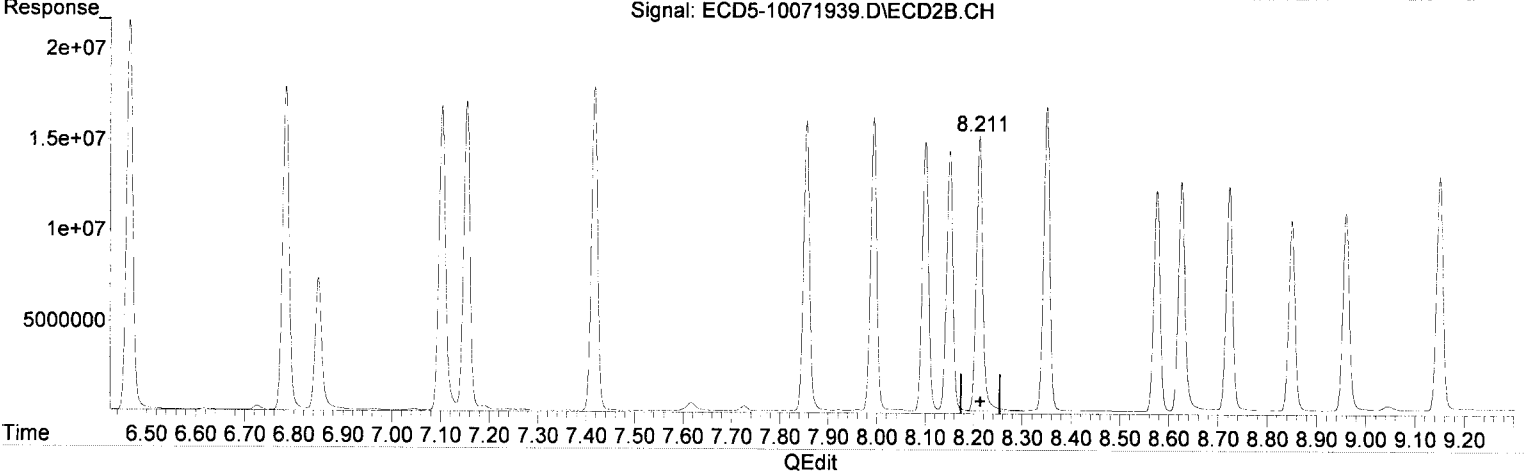
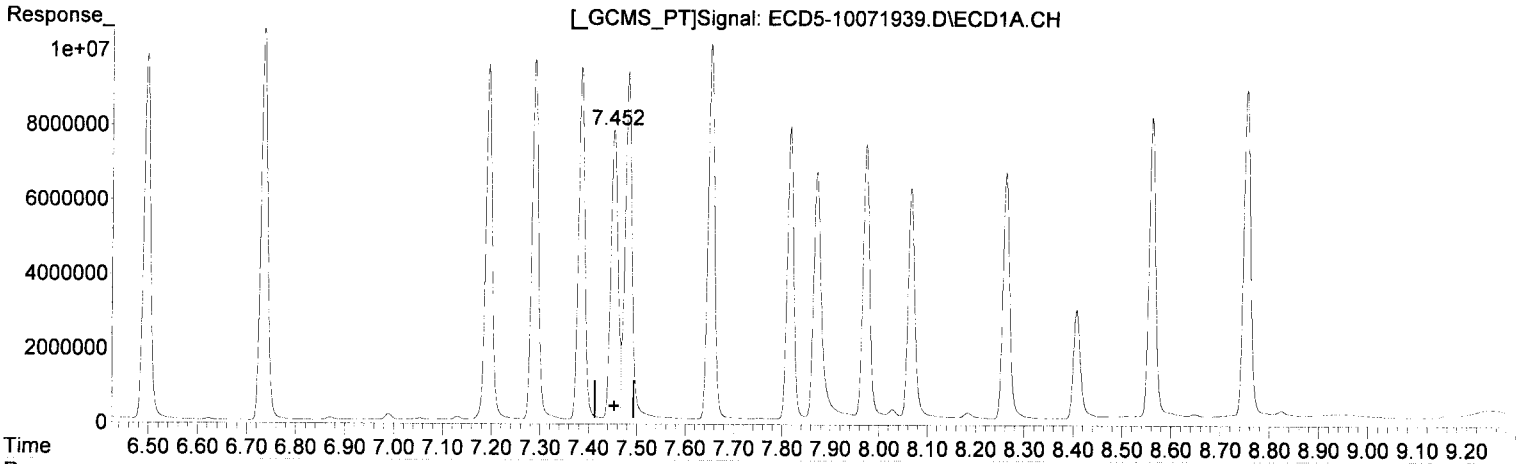
Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 08 14:32:34 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT4.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J07042\
Data File : ECD5-10071939.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Oct 2019 22:51
Operator : MJB
Sample : 9J07042-CCV5
Misc : A19H383, AB 50 ppb
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 08 11:00:43 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT4.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(12) 4,4'-DDE
7.452min 41.301 ng/mL (m)
response 7786442

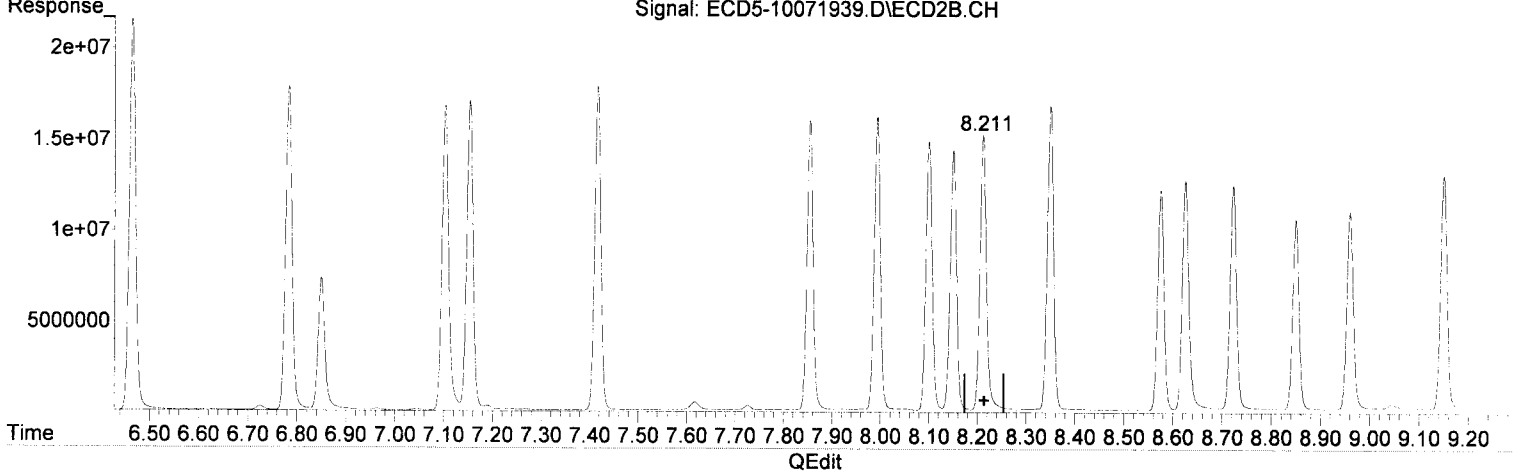
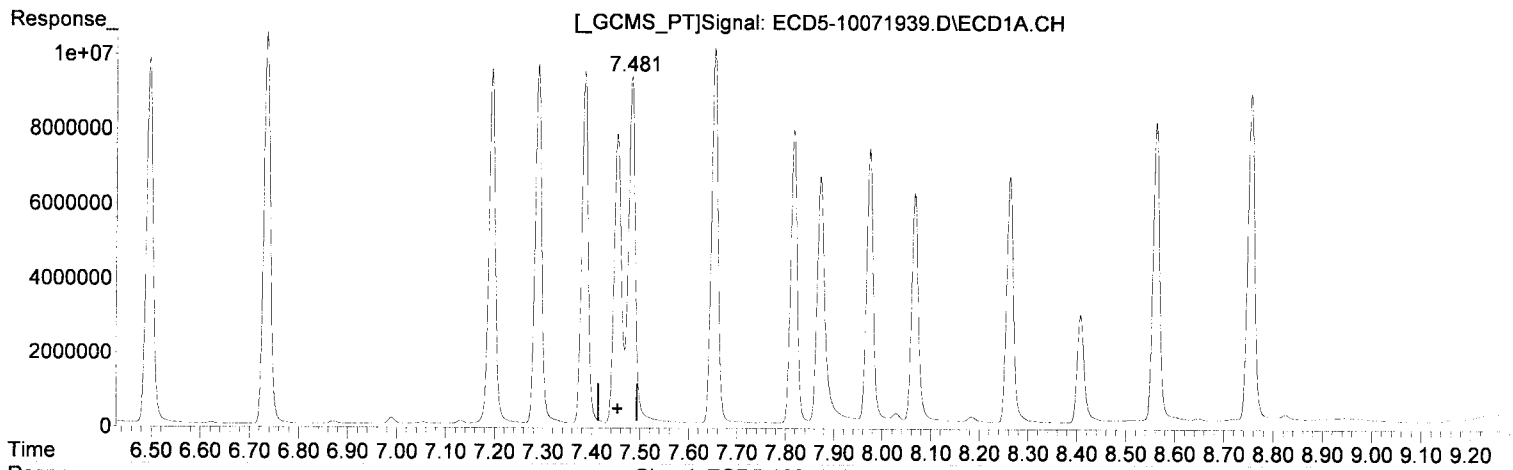
MJB
10/1/19

(12) 4,4'-DDE #2
8.211min 48.682 ng/mL
response 15124360

Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J07042\
Data File : ECD5-10071939.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Oct 2019 22:51
Operator : MJB
Sample : 9J07042-CCV5
Misc : A19H383, AB 50 ppb
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 08 11:00:43 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT4.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



~~(12) 4,4'-DDE
7.482min 49.544 ng/mL
response 9340590~~

*MJB
10/8/19*

(12) 4,4'-DDE #2
8.211min 48.682 ng/mL
response 15124360

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-10\9J07042\
 Data File : ECD5-10071939.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 07 Oct 2019 22:51
 Operator : MJB
 Sample : 9J07042-CCV5
 Misc : A19H383, AB 50 ppb
 ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Oct 08 11:00:43 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823RT4.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB
10/8/19

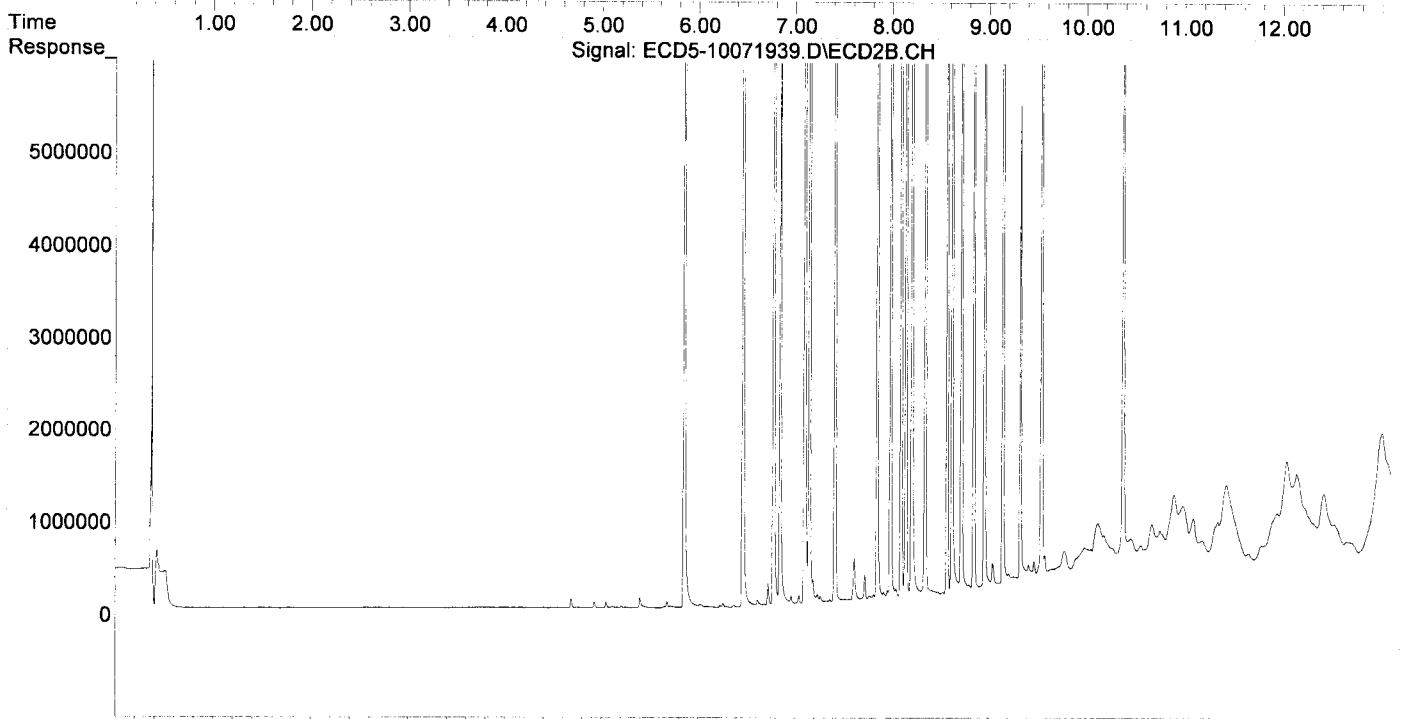
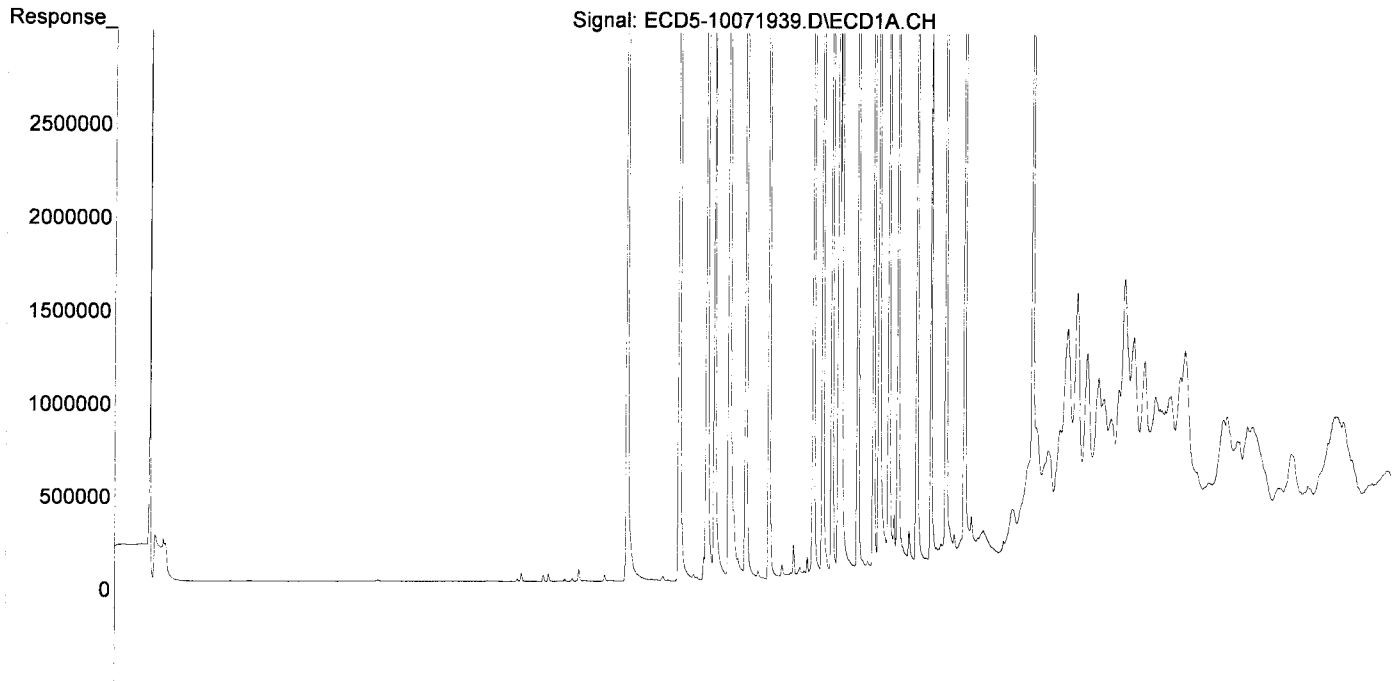
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.263	5.857	8239769	13804672	49.644	47.056
22) S DCBP (S)	9.451	10.380	7156748	10388933	50.722	57.792
Target Compounds						
2) a-BHC	5.804	6.465	11445166	21470529	49.907	52.324
3) g-BHC	6.090	6.783	9204606	17807195	45.618	49.922
4) b-BHC	6.170	6.849	3510130	7238058	38.836	45.734
5) Heptachlor	6.496	7.153	9762501	16094099	53.848	55.540
6) d-BHC	6.321	7.102	7651981	16730227	38.904	47.439
7) Aldrin	6.734	7.416	10410601	17782310	52.726	53.985
8) Heptachlo...	7.194	7.854	9452488	15912880	51.322	52.893
9) trans-Chl...	7.289	7.993	9609872	16139515	51.976	51.510
10) cis-Chlor...	7.385	8.100	9426940	14787800	51.776	50.774
11) Endosulfa...	7.482	8.150	9340590	14274123	54.887	51.873
12) 4,4'-DDE	7.482f	8.211	9340590	15124360	49.544	48.682
13) Dieldrin	7.653	8.349	9993066	16707930	52.053	54.933
14) Endrin	7.817	8.575	7768105	12096205	52.835	53.564
15) 4,4'-DDD	7.872	8.625	6571575	12599656	41.820	49.176
16) Endosulfa...	7.973	8.723	7262262	12318584	50.569	53.418
17) 4,4'-DDT	8.067	8.849	6146552	10471401	51.410	55.188
18) Endrin Al...	8.262	8.959	6587145	10865172	53.604	55.022
19) Endosulfa...	8.561	9.150	8046856	12890072	51.923	51.749
20) Methoxychlor	8.408	9.329	2859035	5197489	48.810	57.167
21) Endrin Ke...	8.754	9.545	8799000	14887341	52.765	57.856
23) Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
24) Hexachlor...	5.639	6.289f	24984	11194	0.142	0.036 #
25) Oxychlordane	7.131	7.772	88864	26012	0.540	0.095 #
26) 2,4'-DDE	7.194	7.993	9452488	16139515	73.697	76.080
27) trans-Non...	7.385	8.048	9426940	81039	52.332	0.269 #
28) 2,4'-DDD	0.000	8.349	0	16707930	N.D.	88.466 #
29) 2,4'-DDT	7.754	8.575	33519	12096205	0.306	67.827 #
30) cis-Nonac...	7.872f	8.625	6571575	12599656	31.653	37.561
31) Mirex	0.000	9.545	0	14887341	N.D.	80.008 #
32) Chlordane...	7.385f	8.048	9426940	81039	478.777	2.240 #
33) Chlordane...	0.000	8.150	0	14274123	N.D.	470.099 #
34) Chlordane...	7.973	8.801	7262262	62100	1256.203	6.926 #
35) Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36) Toxaphene...	7.385f	8.415f	9426940	40905	10525.280	15.587 #
37) Toxaphene...	0.000	8.723	0	12318584	N.D.	3743.084 #
38) Toxaphene...	8.028	8.801f	261692	62100	77.711	12.253 #
39) Toxaphene...	8.262	8.849	6587145	10471401	2032.974	1254.085
40) Toxaphene...	0.000	9.045f	0	268764	N.D.	57.670 #
41) Toxaphene...	8.561	9.413f	8046856	211802	2542.786	44.588 #
42) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-10\9J07042\
Data File : ECD5-10071939.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Oct 2019 22:51
Operator : MJB
Sample : 9J07042-CCV5
Misc : A19H383, AB 50 ppb
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 08 11:00:43 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT4.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-10\9J07042\
 Data File : ECD5-10071940.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 07 Oct 2019 23:09
 Operator : MJB
 Sample : 9J07042-CCV6
 Misc : A19E154, 9-42 50 ppb
 ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Oct 08 11:00:49 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823RT4.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

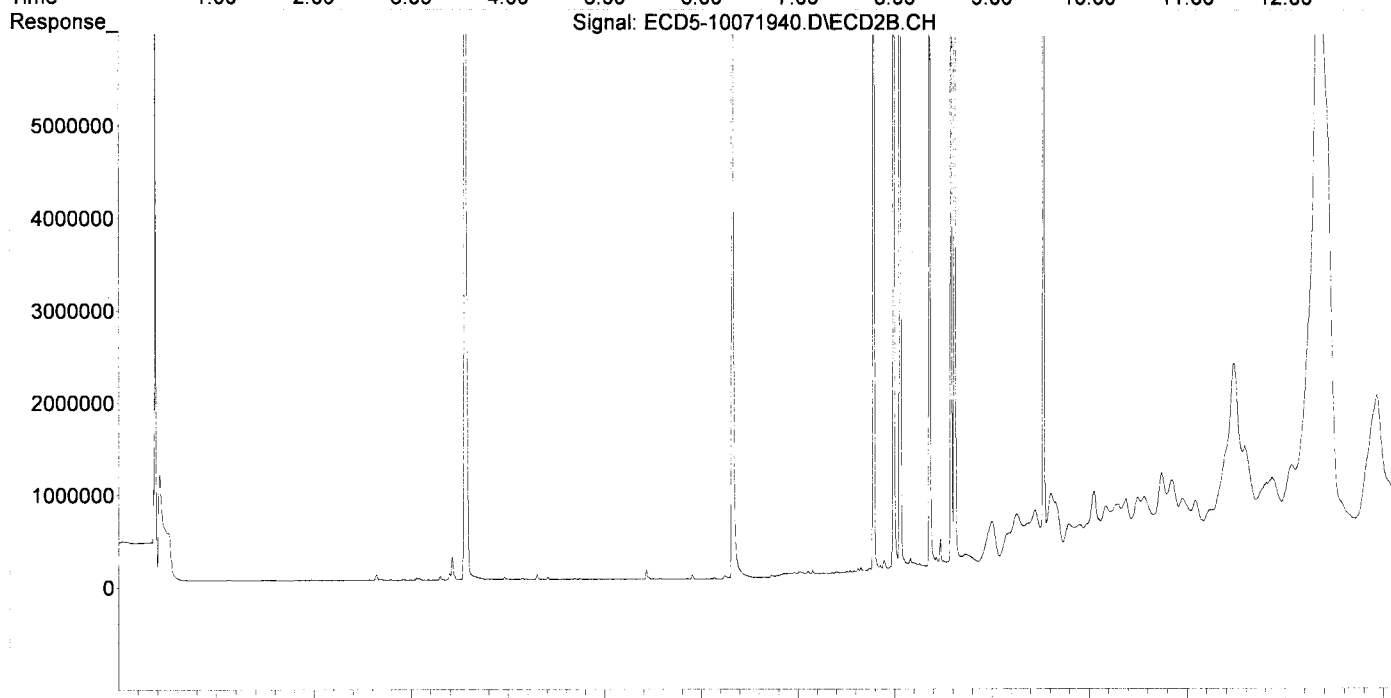
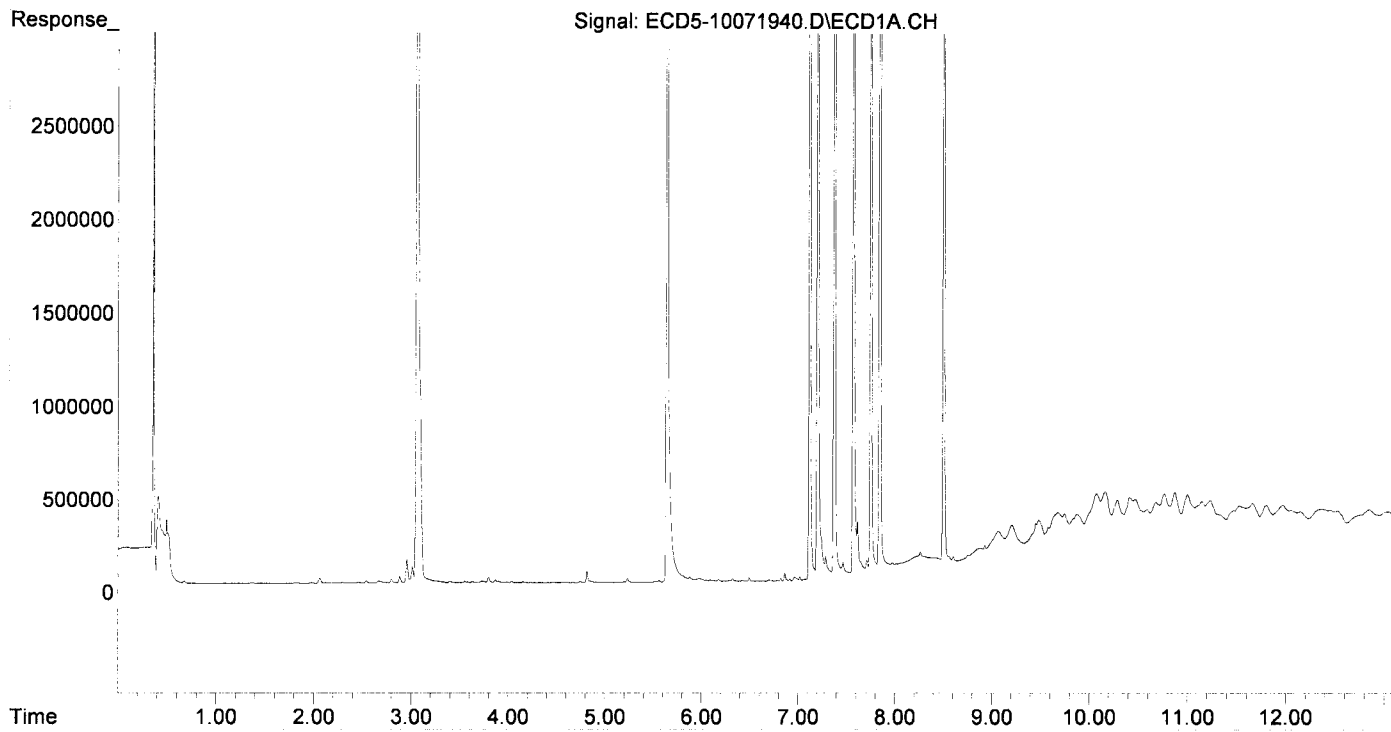
MJB
10/8/19

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.236f	5.854	22956	5747	0.138	0.020 #
22) S DCBP (S)	9.486f	10.378	187211	496215	1.327	2.760 #
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D.	N.D.
3) g-BHC	6.096	6.786	10503	16234	0.052	0.046
4) b-BHC	6.180	6.854	11177	32728	0.124	0.207 #
5) Heptachlor	6.497	7.153	21321	43573	0.118	0.142
6) d-BHC	6.326	7.104	13667	36827	0.069	0.104 #
7) Aldrin	6.734	7.414	3128	9434	0.016	0.029 #
8) Heptachlo...	7.202	7.853	5767867	48210	31.317	0.160 #
9) trans-Chl...	7.289	7.990	114530	10190546	0.619	32.524 #
10) cis-Chlor...	7.378	0.000	9881129	0	54.271	N.D. #
11) Endosulfa...	7.468	8.164	70671	100065	0.415	0.364
12) 4,4'-DDE	7.468	8.188f	70671	52217	0.375	0.168 #
13) Dieldrin	7.617f	8.362	282414	9256919	1.471	30.435 #
14) Endrin	7.845f	8.584	11294626	9408204	76.820	41.661 #
15) 4,4'-DDD	7.845f	8.620	11294626	18795408	71.876	73.358
16) Endosulfa...	7.978	8.725	41262	92329	0.287	0.400
17) 4,4'-DDT	0.000	0.000	0	0	N.D.	N.D.
18) Endrin Al...	8.268	9.003f	84060	417915	BelowCal	1.437
19) Endosulfa...	0.000	0.000	0	0	N.D.	N.D.
20) Methoxychlor	8.409	0.000	46159	0	0.788	N.D. #
21) Endrin Ke...	8.760	9.533	41753	10099670	0.250	39.250 #
23) Hexachlor...	3.061	3.553	9194190	19097250	50.313	50.800
24) Hexachlor...	5.644	6.322	7733081	14657141	43.865	46.666
25) Oxychlorane	7.123	7.783	8409219	14024487	51.108	51.202
26) 2,4'-DDE	7.202	7.990	5767867	10190546	44.970	48.037
27) trans-Non...	7.378	8.057	9881129	15906020	54.870	52.733
28) 2,4'-DDD	7.573	8.362	5208832	9256919	45.641	49.014
29) 2,4'-DDT	7.754	8.584	5631242	9408204	51.339	52.755
30) cis-Nonac...	7.845	8.620	11294626	18795408	54.402	56.030
31) Mirex	8.506	9.533	6456367	10099670	51.500	54.278
32) Chlordane...	7.378f	8.057	9881129	15906020	501.845	439.580
33) Chlordane...	7.468f	8.164	70671	100065	2.820	3.296
34) Chlordane...	7.978	0.000	41262	0	7.137	N.D. #
35) Chlordane...	3.400f	0.000	6173	0	NoCal	N.D.
36) Toxaphene...	0.000	8.362f	0	9256919	N.D.	3527.442 #
37) Toxaphene...	7.716	8.725	69115	92329	42.797	28.055
38) Toxaphene...	8.019	8.747f	33906	83293	10.069	16.434 #
39) Toxaphene...	8.268	0.000	84060	0	25.943	N.D. #
40) Toxaphene...	8.506	9.003	6456367	417915	2693.360	89.674 #
41) Toxaphene...	0.000	9.379	0	355274	N.D.	74.791 #
42) Toxaphene...	3.400f	3.395f	6173	65809	NoCal	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Data Path : R:\data\2019-10\9J07042\
Data File : ECD5-10071940.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Oct 2019 23:09
Operator : MJB
Sample : 9J07042-CCV6
Misc : A19E154, 9-42 50 ppb
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 08 11:00:49 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT4.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-10\9J07042\
 Data File : ECD5-10071941.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 07 Oct 2019 23:26
 Operator : MJB
 Sample : 9J07042-CCB3
 Misc : A19I233
 ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Oct 08 14:37:04 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823RT4.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB
10/8/19

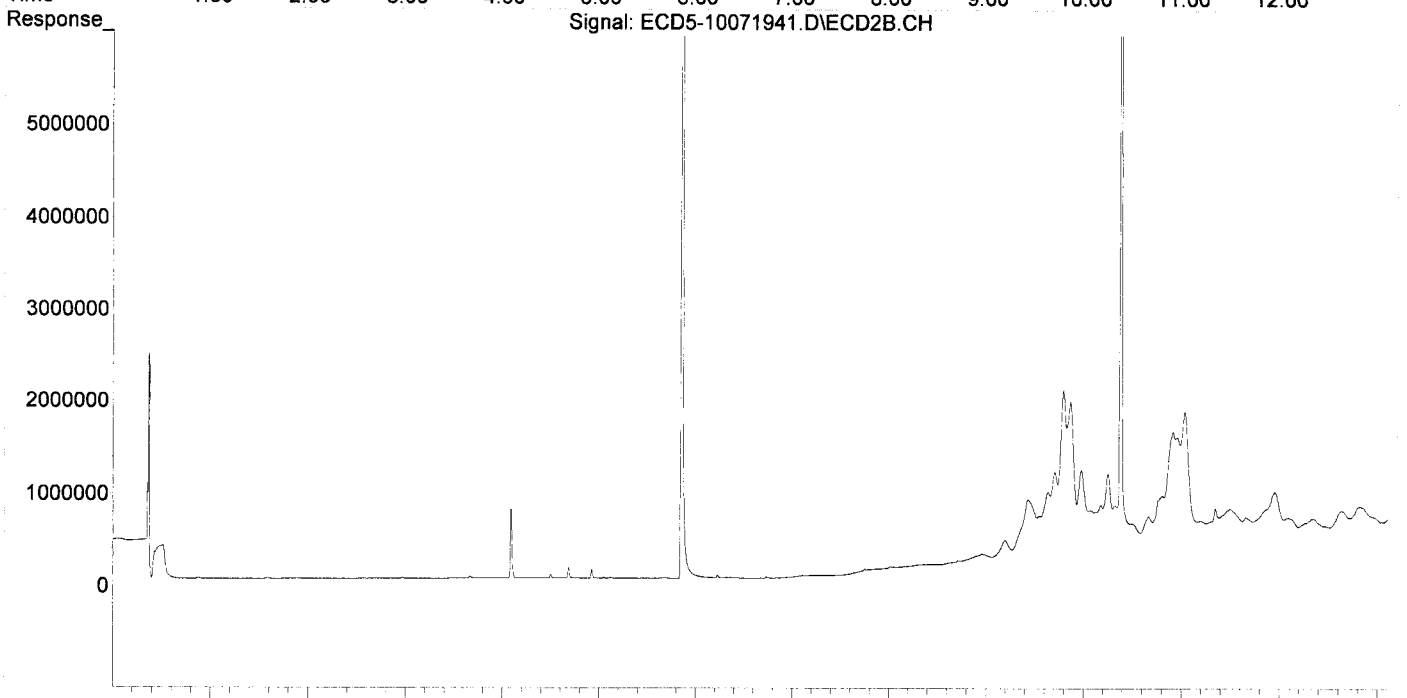
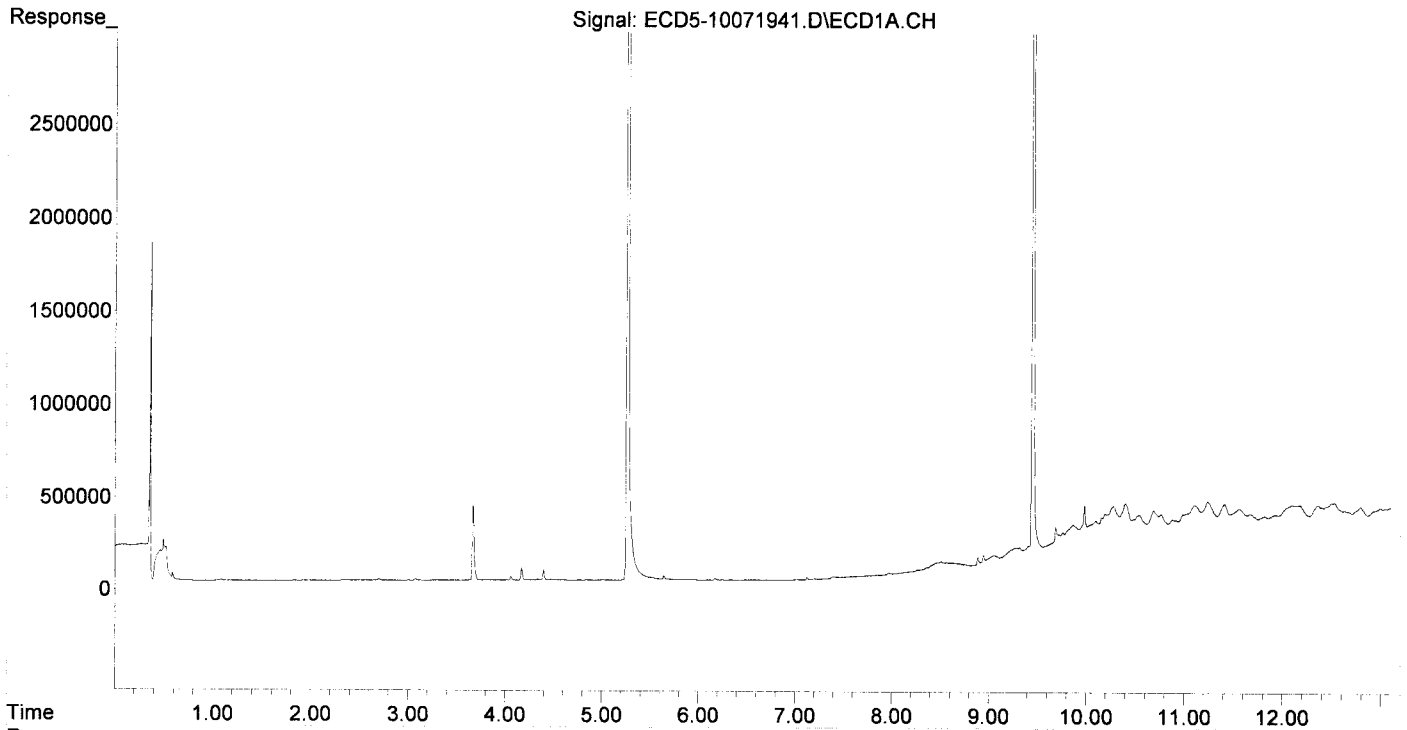
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.262	5.856	13686433	24284064	82.461	82.777
22) S DCBP (S)	9.451	10.381	11268594	17616259	79.863	97.997
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D.	N.D.
3) g-BHC	0.000	0.000	0	0	N.D.	N.D.
4) b-BHC	6.174	0.000	8467	0	0.094	N.D. #
5) Heptachlor	0.000	0.000	0	0	N.D.	N.D.
6) d-BHC	0.000	7.105	0	4585	N.D.	0.013 #
7) Aldrin	0.000	0.000	0	0	N.D.	N.D.
8) Heptachlo...	7.204	0.000	4391	0	0.024	N.D. #
9) trans-Chl...	7.316f	8.017f	713	16905	0.004	0.054 #
10) cis-Chlor...	7.400	0.000	8653	0	0.048	N.D. #
11) Endosulfa...	0.000	0.000	0	0	N.D.	N.D.
12) 4,4'-DDE	7.439	8.217	29054	132123	0.154m	0.425m#
13) Dieldrin	0.000	8.360	0	4747	N.D.	0.016 #
14) Endrin	7.805	0.000	1176	0	0.008	N.D. #
15) 4,4'-DDD	7.848f	8.644	3234	171031	0.021	0.668m#
16) Endosulfa...	7.970	8.712	8331	25201	0.058	0.109 #
17) 4,4'-DDT	8.068	8.868	86347	196018	0.722m	1.103m#
18) Endrin Al...	8.268	8.961	7148	69456	BelowCal	BelowCal
19) Endosulfa...	8.565	0.000	30303	0	0.196	N.D. #
20) Methoxychlor	0.000	0.000	0	0	N.D.	N.D.
21) Endrin Ke...	8.757	9.545	8855	420848	0.053	1.636 #
23) Hexachlor...	3.076	0.000	8165	0	0.045	N.D. #
24) Hexachlor...	5.644	6.320	20994	7041	0.119	0.022 #
25) Oxychlordane	7.127	7.784	13079	18507	0.079	0.068
26) 2,4'-DDE	7.205	8.016f	19165	125084	0.149m	0.590m#
27) trans-Non...	7.400	8.057	8653	6564	87346.652	0.022 #
28) 2,4'-DDD	7.579	8.365	35169	149252	0.308m	0.790m#
29) 2,4'-DDT	7.757	8.601	27415	160372	0.250m	0.899m#
30) cis-Nonac...	7.848	8.622	3234	10109	0.016	0.030 #
31) Mirex	8.510	9.545	38514	420848	0.307	2.262 #
32) Chlordane...	7.316f	8.057	713	6564	0.036	0.181 #
33) Chlordane...	7.400f	0.000	8653	0	0.345	N.D. #
34) Chlordane...	7.970	0.000	8331	0	1.441	N.D. #
35) Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36) Toxaphene...	7.400	8.360f	8653	4747	9.661	1.809 #
37) Toxaphene...	0.000	8.712	0	25201	N.D.	7.657 #
38) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.
39) Toxaphene...	8.268	0.000	7148	0	2.206	N.D. #
40) Toxaphene...	8.510	0.000	38514	0	16.067	N.D. #
41) Toxaphene...	8.565	0.000	30303	0	9.576	N.D. #
42) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-10\9J07042\
Data File : ECD5-10071941.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Oct 2019 23:26
Operator : MJB
Sample : 9J07042-CCB3
Misc : A19I233
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

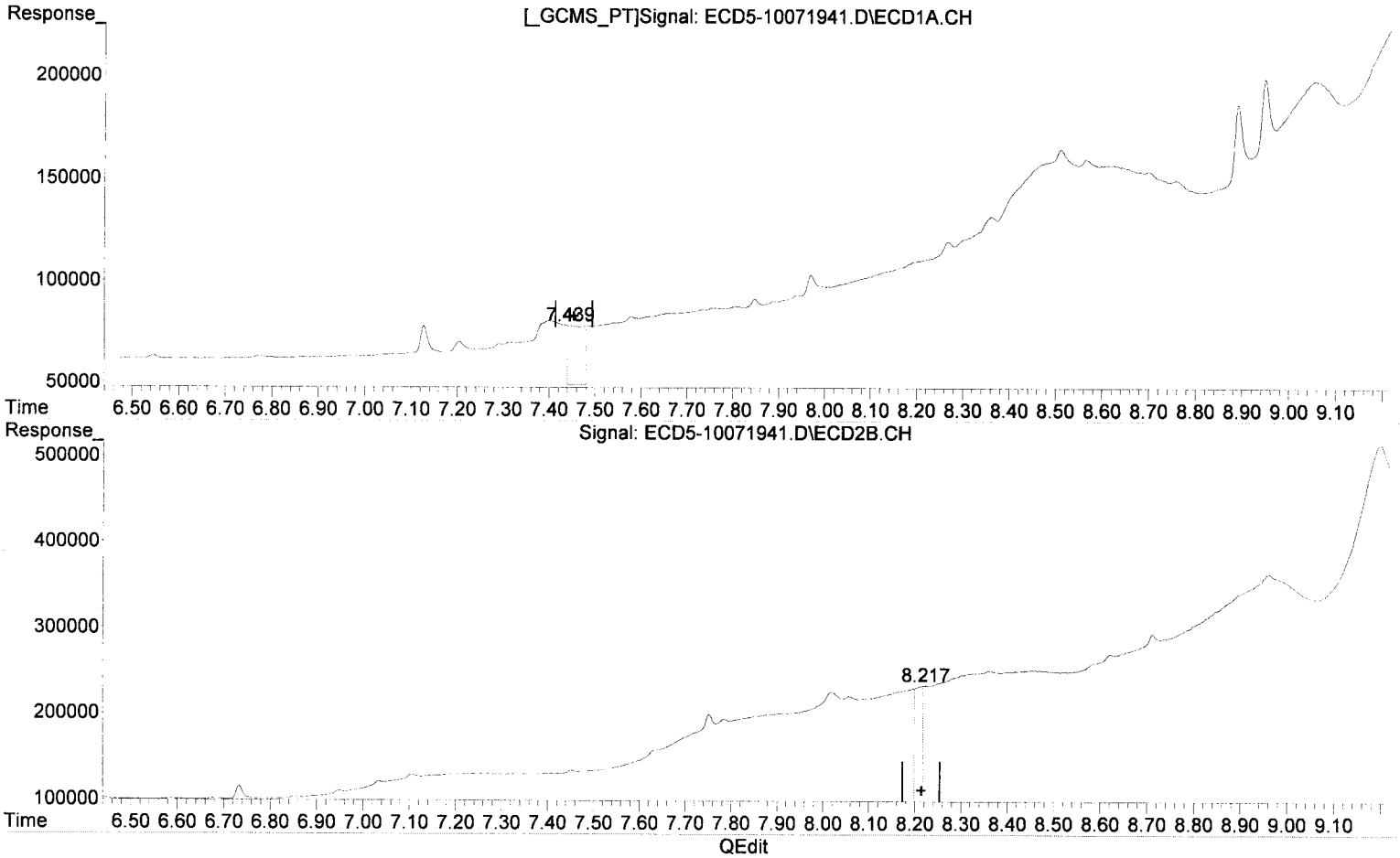
Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 08 14:37:04 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT4.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J07042\
Data File : ECD5-10071941.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Oct 2019 23:26
Operator : MJB
Sample : 9J07042-CCB3
Misc : A19I233
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 08 11:00:55 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT4.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(12) 4,4'-DDE

7.439min 0.154 ng/ml (m)
response 29054

MJB
10/8/19

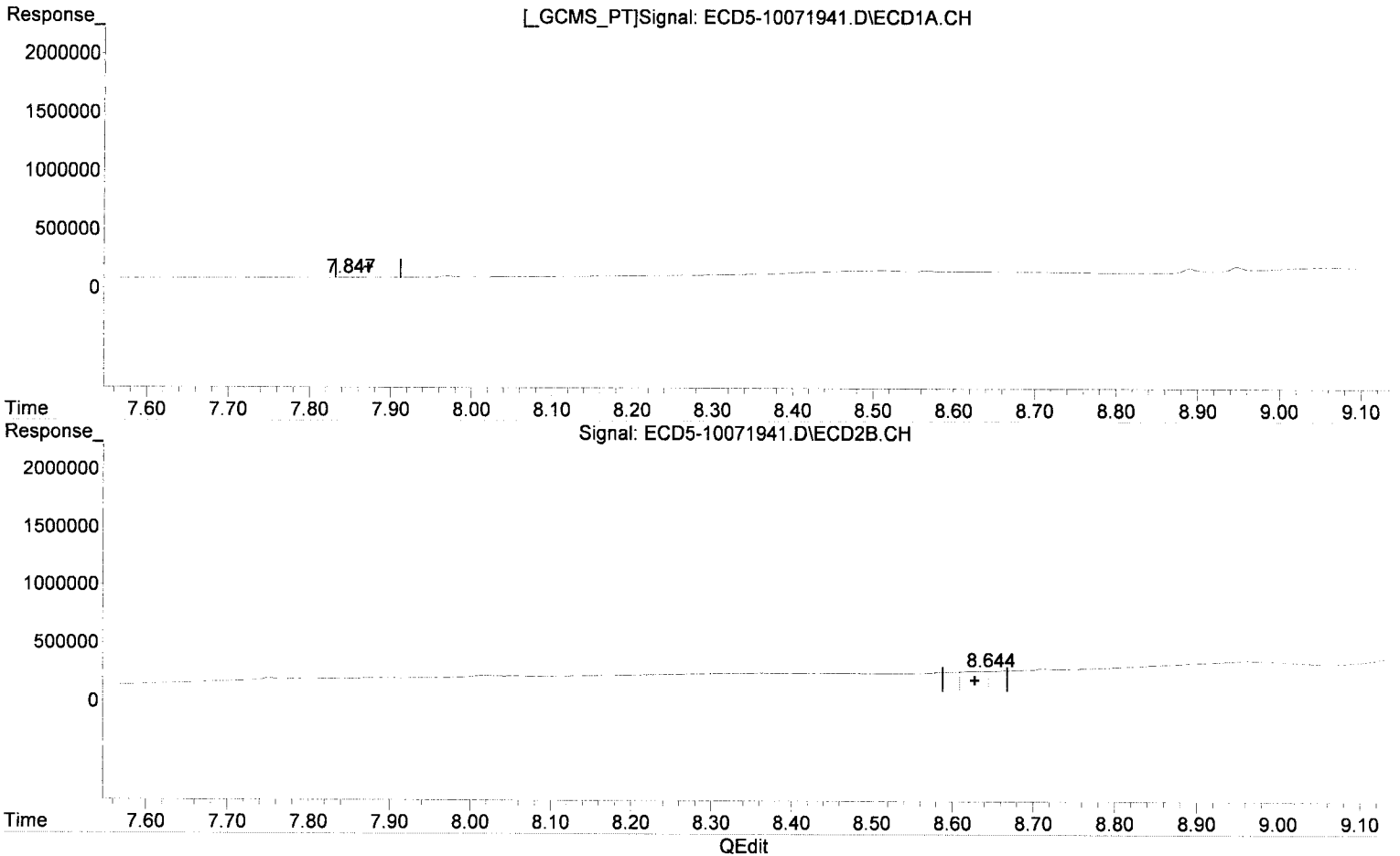
(12) 4,4'-DDE #2

8.217min 0.425 ng/ml (m)
response 132123

Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J07042\
Data File : ECD5-10071941.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Oct 2019 23:26
Operator : MJB
Sample : 9J07042-CCB3
Misc : A19I233
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 08 11:00:55 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT4.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(15) 4,4'-DDD

7.848min 0.021 ng/mL

response 3234

MJB 10/8/19

(15) 4,4'-DDD #2

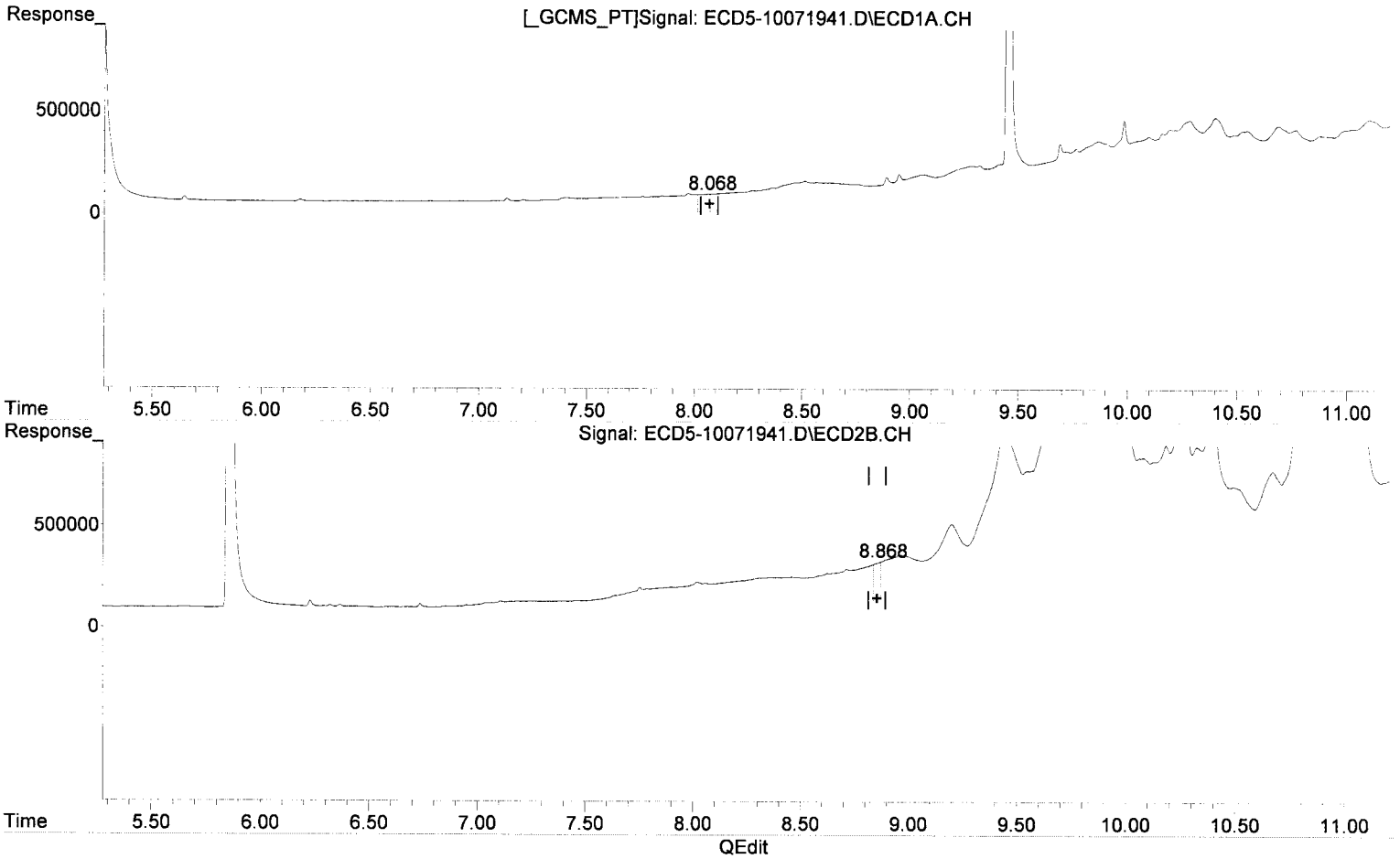
8.644min 0.668 ng/mL (m)

response 171031

Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J07042\
Data File : ECD5-10071941.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Oct 2019 23:26
Operator : MJB
Sample : 9J07042-CCB3
Misc : A19I233
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 08 11:00:55 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT4.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(17) 4,4'-DDT
8.068min 0.722 ng/ml (m)
response 86347

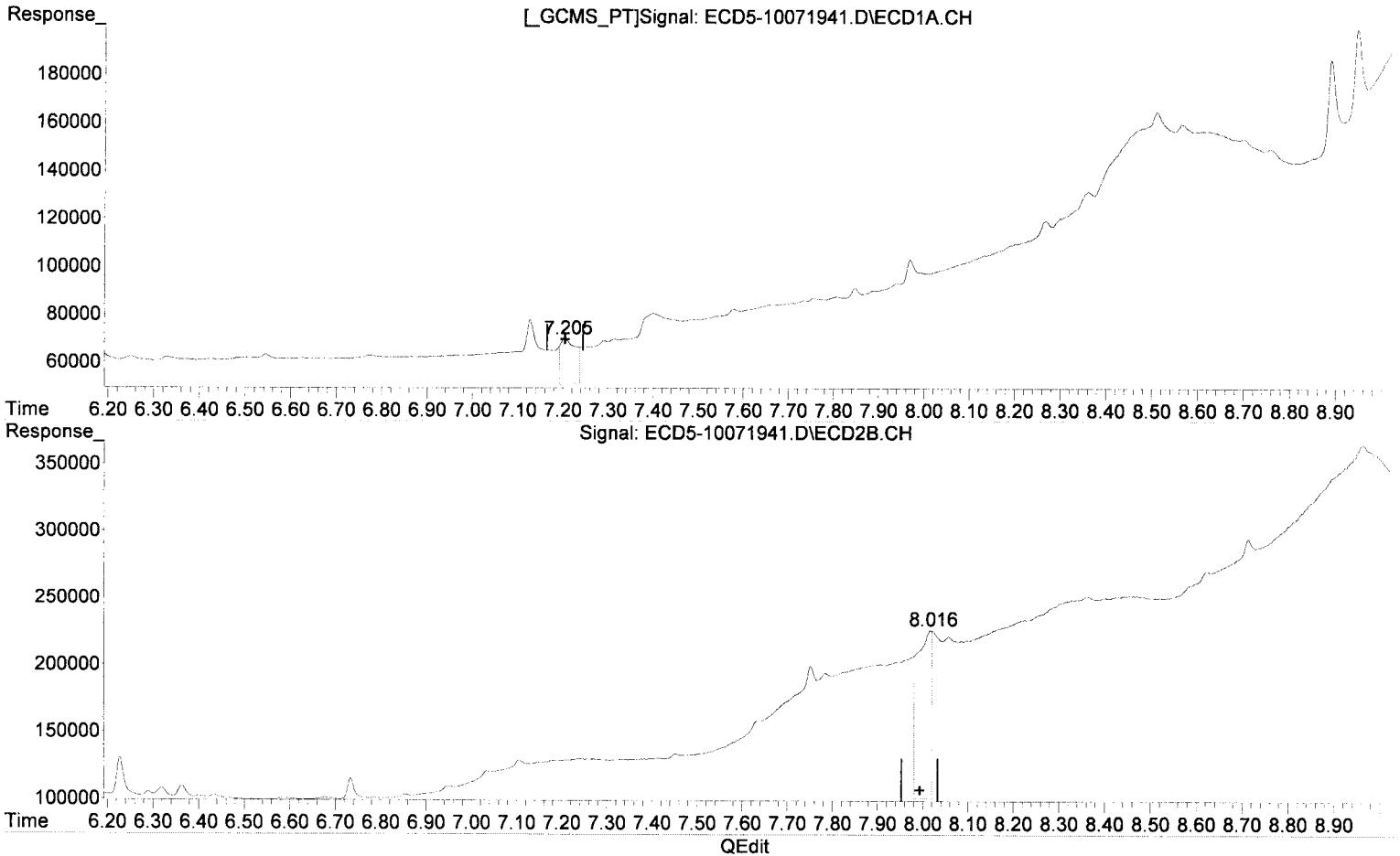
(17) 4,4'-DDT #2
8.868min 1.103 ng/ml (m) 1.01
response 196018

MJB 10/8/19

Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J07042\
Data File : ECD5-10071941.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Oct 2019 23:26
Operator : MJB
Sample : 9J07042-CCB3
Misc : A19I233
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 08 11:00:55 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT4.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(26) 2,4'-DDE
7.205min 0.149 ng/mL (m)
response 19165

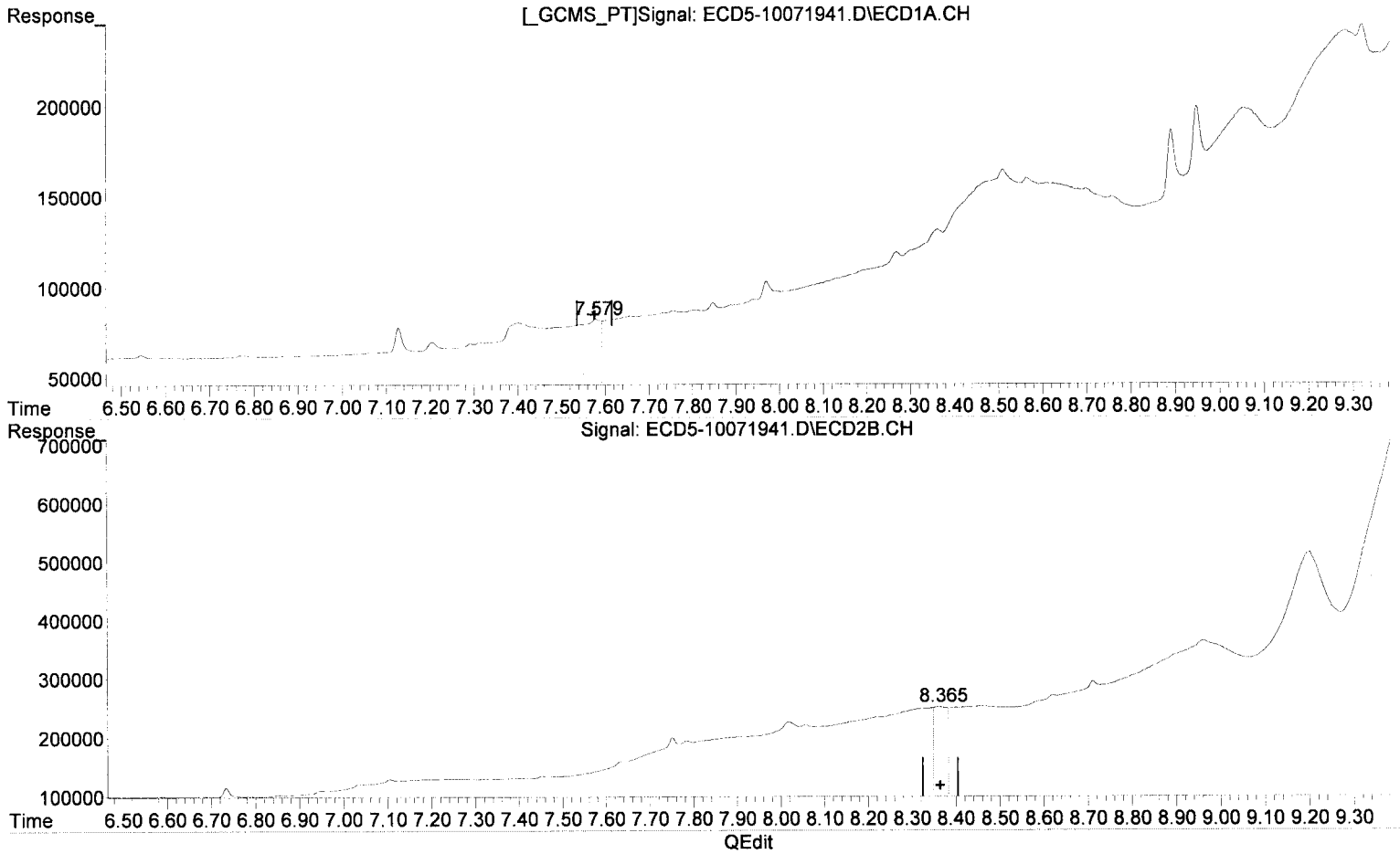
MJB 10/8/19

(26) 2,4'-DDE #2
8.016min 0.590 ng/mL (m)
response 125084

Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J07042\
Data File : ECD5-10071941.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Oct 2019 23:26
Operator : MJB
Sample : 9J07042-CCB3
Misc : A19I233
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 08 11:00:55 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT4.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(28) 2,4'-DDD
7.579min 0.308 ng/mL(m)
response 35169

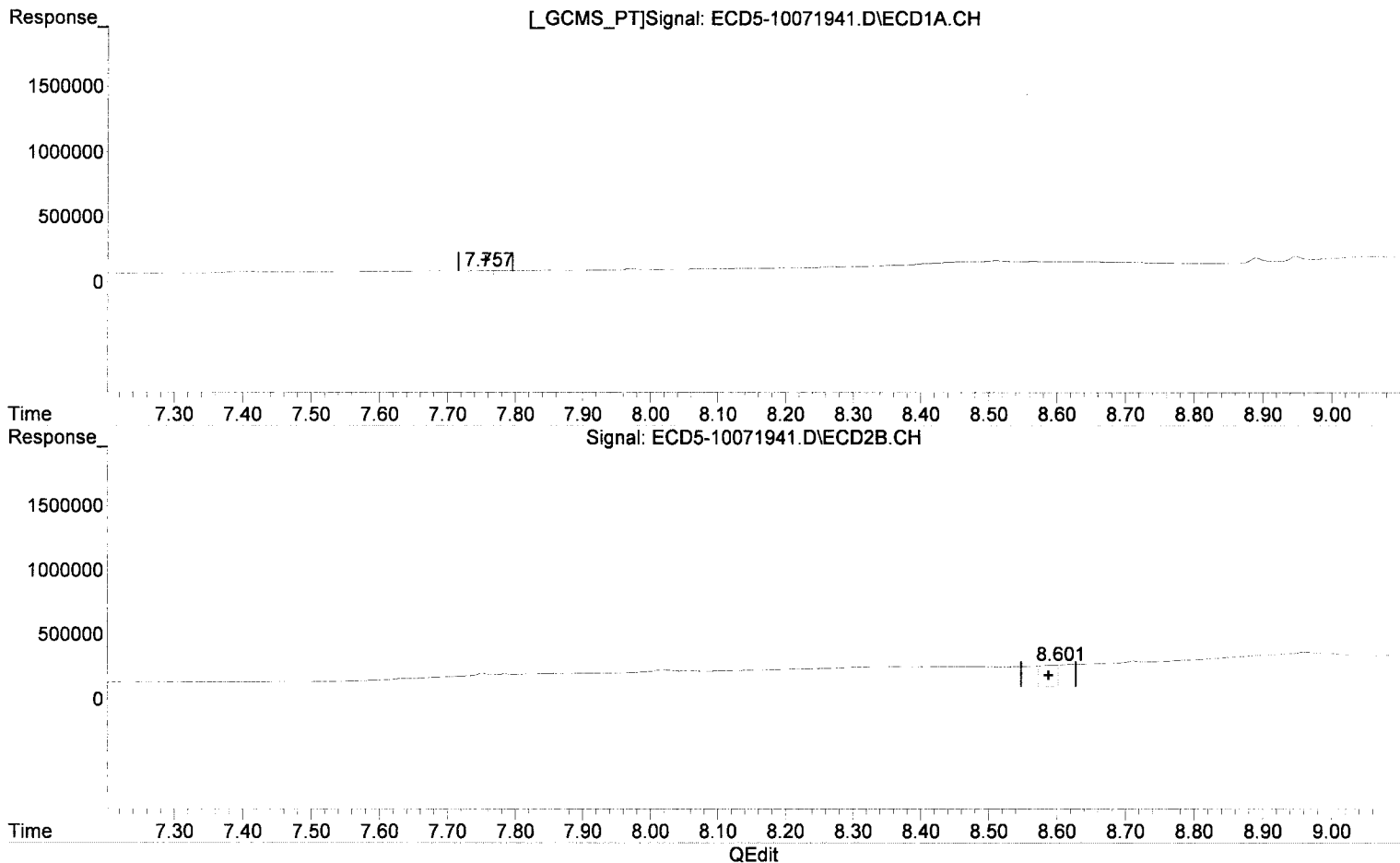
(28) 2,4'-DDD #2
8.365min 0.790 ng/mL(m)
response 149252

MJB
10/8/19

Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J07042\
Data File : ECD5-10071941.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Oct 2019 23:26
Operator : MJB
Sample : 9J07042-CCB3
Misc : A19I233
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 08 11:00:55 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT4.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(29) 2,4'-DDT
7.757min 0.250 ng/mL (m)
response 27415

MJB
10/8/19

(29) 2,4'-DDT #2
8.601min 0.899 ng/mL (m)
response 160372

Data Path : R:\data\2019-10\9J07042\
 Data File : ECD5-10071941.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 07 Oct 2019 23:26
 Operator : MJB
 Sample : 9J07042-CCB3
 Misc : A19I233
 ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Oct 08 11:00:55 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823RT4.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

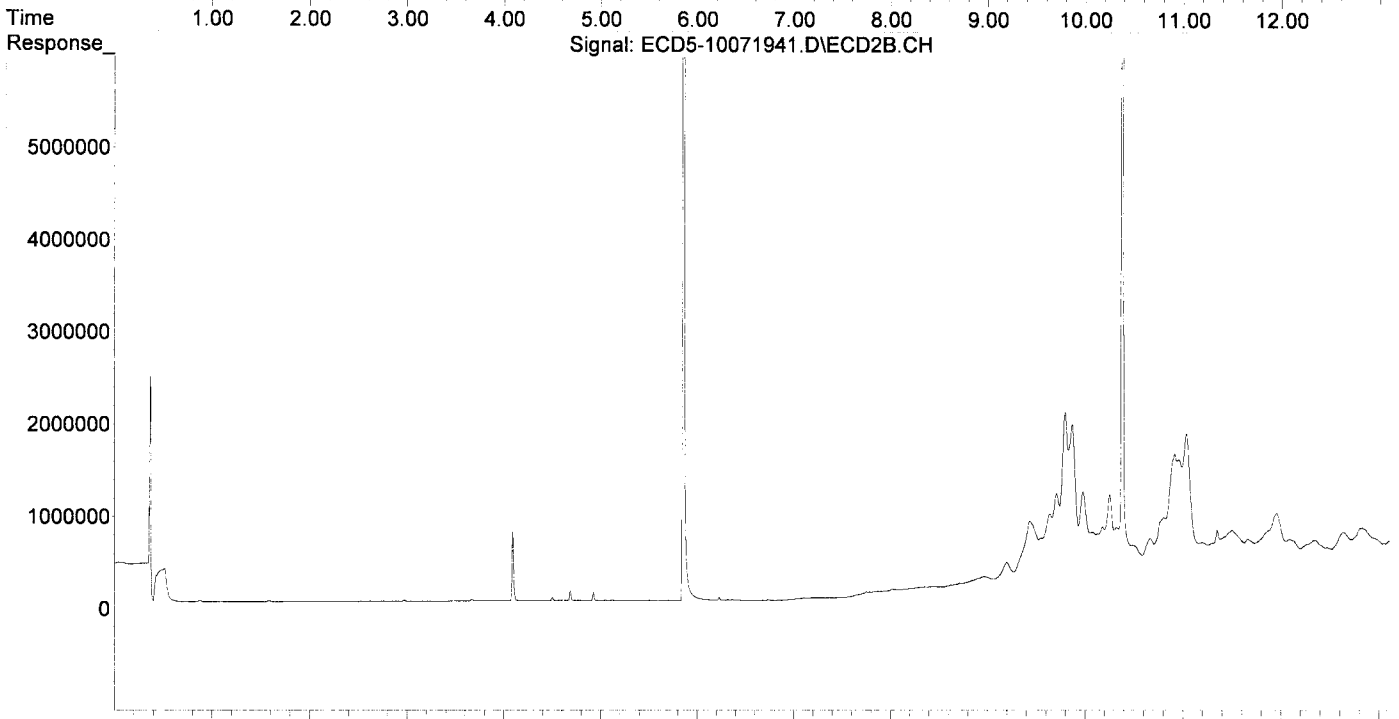
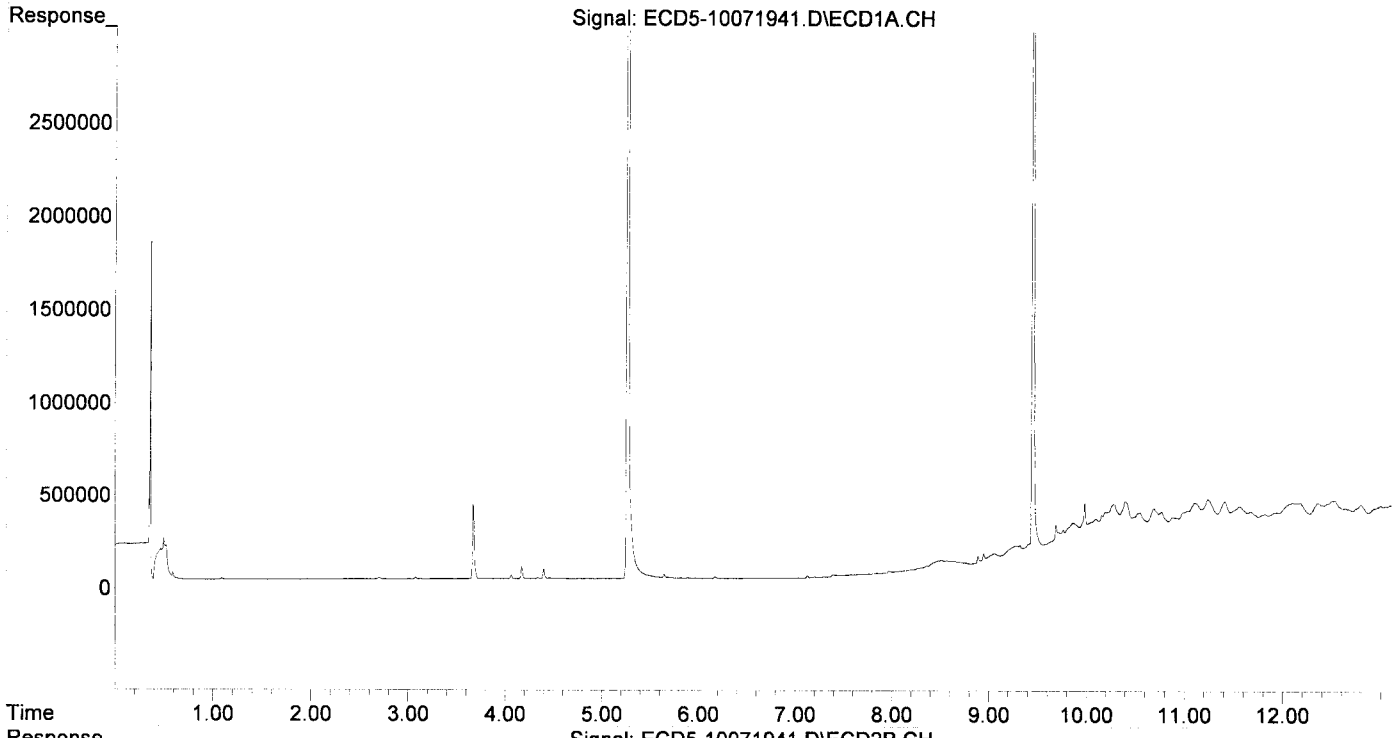
MJB
10/8/19

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.262	5.856	13686433	24284064	82.461	82.777
22) S DCBP (S)	9.451	10.381	11268594	17616259	79.863	97.997
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D.	N.D.
3) g-BHC	0.000	0.000	0	0	N.D.	N.D.
4) b-BHC	6.174	0.000	8467	0	0.094	N.D. #
5) Heptachlor	0.000	0.000	0	0	N.D.	N.D.
6) d-BHC	0.000	7.105	0	4585	N.D.	0.013 #
7) Aldrin	0.000	0.000	0	0	N.D.	N.D.
8) Heptachlo...	7.204	0.000	4391	0	0.024	N.D. #
9) trans-Chl...	7.316f	8.017f	713	16905	0.004	0.054 #
10) cis-Chlor...	7.400	0.000	8553	0	0.048	N.D. #
11) Endosulfa...	0.000	0.000	0	0	N.D.	N.D.
12) 4,4'-DDE	0.000	0.000	0	0	N.D.	N.D.
13) Dieldrin	0.000	8.360	0	4747	N.D.	0.016 #
14) Endrin	7.805	0.000	1176	0	0.008	N.D. #
15) 4,4'-DDD	7.848f	8.622	3234	10109	0.021	0.039 #
16) Endosulfa...	7.970	8.712	8331	25201	0.058	0.109 #
17) 4,4'-DDT	0.000	0.000	0	0	N.D.	N.D.
18) Endrin Al...	8.268	8.961	7148	69456	BelowCal	BelowCal
19) Endosulfa...	8.565	0.000	30303	0	0.196	N.D. #
20) Methoxychlor	0.000	0.000	0	0	N.D.	N.D.
21) Endrin Ke...	8.757	9.545	8855	420848	0.053	1.636 #
23) Hexachlor...	3.076	0.000	8165	0	0.045	N.D. #
24) Hexachlor...	5.644	6.320	20994	7041	0.119	0.022 #
25) Oxychlordane	7.127	7.784	13079	18507	0.079	0.068
26) 2,4'-DDE	7.204	8.017f	4391	16905	0.034	0.080 #
27) trans-Non...	7.400	8.057	8653	6564	87346.652	0.022 #
28) 2,4'-DDD	7.579	8.360	4023	4747	0.035	0.025
29) 2,4'-DDT	7.757	8.622f	2260	10109	0.021	0.057 #
30) cis-Nonac...	7.848	8.622	3234	10109	0.016	0.030 #
31) Mirex	8.510	9.545	38514	420848	0.307	2.262 #
32) Chlordane...	7.316f	8.057	713	6564	0.036	0.181 #
33) Chlordane...	7.400f	0.000	8653	0	0.345	N.D. #
34) Chlordane...	7.970	0.000	8331	0	1.441	N.D. #
35) Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36) Toxaphene...	7.400	8.360f	8653	4747	9.661	1.809 #
37) Toxaphene...	0.000	8.712	0	25201	N.D.	7.657 #
38) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.
39) Toxaphene...	8.268	0.000	7148	0	2.206	N.D. #
40) Toxaphene...	8.510	0.000	38514	0	16.067	N.D. #
41) Toxaphene...	8.565	0.000	30303	0	9.576	N.D. #
42) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Data Path : R:\data\2019-10\9J07042\
Data File : ECD5-10071941.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Oct 2019 23:26
Operator : MJB
Sample : 9J07042-CCB3
Misc : A19I233
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 08 11:00:55 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RT4.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



**Organochloride Pesticides by EPA 8081B
Calibration Data**

Sequence 9H23034 (Cal ID A9H2608) DUALECD5



ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence: **9H23034**
Date: **08/23/19 11:23**

Instrument: **DUALECD5**
Calibration: **A9H2608**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD.ID	STD.ID
1	9H23034-BKD1	Water	QC	QC				A19G138
2	9H23034-BKD2	Water	QC	QC				A19G138
3	9H23034-ICB1	Water	QC	QC				A19H348
4	9H23034-CAL1	Water	QC	QC				A19E245
5	9H23034-CAL2	Water	QC	QC				A19E246
6	9H23034-CAL3	Water	QC	QC				A19E247
7	9H23034-CAL4	Water	QC	QC				A19E249
8	9H23034-CAL5	Water	QC	QC				A19E250
9	9H23034-CAL6	Water	QC	QC				A19H383
10	9H23034-CAL7	Water	QC	QC				A19H384
11	9H23034-CAL8	Water	QC	QC				A19E244
12	9H23034-IBL1	Water	QC	QC				
13	9H23034-ICV1	Water	QC	QC				A19E106
14	9H23034-CAL9	Water	QC	QC				A19E272
15	9H23034-CALA	Water	QC	QC				A19E273
16	9H23034-CALB	Water	QC	QC				A19E274
17	9H23034-CALC	Water	QC	QC				A19E275
18	9H23034-CALD	Water	QC	QC				A19E276
19	9H23034-CALE	Water	QC	QC				A19E154
20	9H23034-CALF	Water	QC	QC				A19E155
21	9H23034-CALG	Water	QC	QC				A19E271
22	9H23034-IBL2	Water	QC	QC				
23	9H23034-ICV2	Water	QC	QC				A19E043
24	9H23034-CALH	Water	QC	QC				A19F232
25	9H23034-CALI	Water	QC	QC				A19F233
26	9H23034-CALJ	Water	QC	QC				A19F234
27	9H23034-CALK	Water	QC	QC				A19F235
28	9H23034-CALL	Water	QC	QC				A19F236
29	9H23034-CALM	Water	QC	QC				A19F231
30	9H23034-IBL3	Water	QC	QC				
31	9H23034-ICV3	Water	QC	QC				A19E108
32	9H23034-CALN	Water	QC	QC				A19D122
33	9H23034-CALO	Water	QC	QC				A19D123
34	9H23034-CALP	Water	QC	QC				A19D124
35	9H23034-CALQ	Water	QC	QC				A19D125
36	9H23034-CALR	Water	QC	QC				A19D126
37	9H23034-CALS	Water	QC	QC				A19D121
38	9H23034-IBL4	Water	QC	QC				
39	9H23034-ICV4	Water	QC	QC				A19D127

Data Entered By: MJB 8/26/19

Comments: ICAL

Data Reviewed By: MV 8/30/19

Calibration Status Report DUALECD5

Method Path : R:\methods\
 Method File : ECD5_QUANTPEST_190823.M
 Title : Instrument: DualECD5
 Last Update : Mon Aug 26 11:48:23 2019
 Response Via : Initial Calibration

A9H2608

*MJB
8/26/19*

#	ID	Conc	ISTD Conc	Path\File
1	1	50	0	R:\data\2019-08\9H23034\ECD5-08231936.D
2	2	100	0	R:\data\2019-08\9H23034\ECD5-08231937.D
3	3	200	0	R:\data\2019-08\9H23034\ECD5-08231938.D
4	4	500	0	R:\data\2019-08\9H23034\ECD5-08231939.D
5	5	1000	0	R:\data\2019-08\9H23034\ECD5-08231940.D
6	6	2000	0	R:\data\2019-08\9H23034\ECD5-08231941.D
7	7	-1	0	R:\data\2019-08\9H23034\ECD5-08231924.D
8	8	-1	0	R:\data\2019-08\9H23034\ECD5-08231925.D

#	ID	Update Time	Quant Time	Acquisition Time
1	1	Aug 26 11:47 2019	Aug 26 11:37 2019	23 Aug 2019 21:54
2	2	Aug 26 11:47 2019	Aug 26 11:38 2019	23 Aug 2019 22:11
3	3	Aug 26 11:48 2019	Aug 26 11:39 2019	23 Aug 2019 22:28
4	4	Aug 26 11:48 2019	Aug 26 11:36 2019	23 Aug 2019 22:45
5	5	Aug 26 11:48 2019	Aug 26 11:40 2019	23 Aug 2019 23:03
6	6	Aug 26 11:48 2019	Aug 26 11:40 2019	23 Aug 2019 23:20
7	7	Aug 26 11:46 2019	Aug 26 11:26 2019	23 Aug 2019 18:27
8	8	Aug 26 11:46 2019	Aug 26 11:27 2019	23 Aug 2019 18:45

ECD5_QUANTPEST_190823.M Mon Aug 26 16:04:23 2019

Response Factor Report DUALECD5

Method Path : C:\msdchem\4\methods\
 Method File : ECD5_QUANTPEST_190823.M
 Title : Instrument: DualECD5
 Last Update : Mon Aug 26 11:48:23 2019
 Response Via : Initial Calibration

Calibration Files

1 =ECD5-08231936.D 2 =ECD5-08231937.D 3 =ECD5-08231938.D 4 =ECD5-08231939.D 5 =ECD5-08231940.D
 6 =ECD5-08231941.D 7 =ECD5-08231924.D 8 =ECD5-08231925.D

Compound	1	2	3	4	5	6	7	8	Avg	%RSD
1) S TCMX (S)	1.767	1.750	1.668	1.644	1.606	1.614	1.585	1.642	1.660	E5 4.00
2) a-BHC	2.320	2.292	2.296	2.347	2.221	2.274	2.236	2.360	2.293	E5 2.14
3) g-BHC	2.074	2.030	2.041	2.035	1.950	1.957	1.960	2.094	2.018	E5 2.76
4) b-BHC	1.043	0.971	0.914	0.911	0.824	0.820	0.836	0.912	0.904	E5 8.59
5) Heptachlor	1.921	1.848	1.798	1.820	1.726	1.747	1.755	1.889	1.813	E5 3.86
6) d-BHC	1.998	1.935	2.008	2.006	1.867	1.922	1.948	2.051	1.967	E5 3.02
7) Aldrin	2.055	1.998	2.025	2.011	1.938	1.866	1.911	1.992	1.974	E5 3.23
8) Heptachlor Exp...	2.005	1.960	1.847	1.865	1.738	1.774	1.732	1.813	1.842	E5 5.42
9) trans-Chlordane	1.972	1.911	1.853	1.848	1.761	1.792	1.773	1.881	1.849	E5 3.93
10) cis-Chlordane	2.098	1.950	1.818	1.843	1.698	1.725	1.674	1.760	1.821	E5 7.86
11) Endosulfan I	1.852	1.787	1.723	1.709	1.645	1.597	1.609	1.693	1.702	E5 5.13
12) 4,4'-DDE	1.934	1.943	1.907	1.891	1.828	1.835	1.805	1.938	1.885	E5 2.92
13) Dieldrin	1.977	1.979	1.944	1.955	1.833	1.877	1.832	1.961	1.920	E5 3.25
14) Endrin	1.564	1.493	1.478	1.476	1.404	1.396	1.381	1.571	1.470	E5 4.98
15) 4,4'-DDD	1.650	1.573	1.581	1.566	1.491	1.545	1.544	1.622	1.571	E5 3.11
16) Endosulfan II	1.581	1.496	1.419	1.448	1.349	1.368	1.354	1.474	1.436	E5 5.61
17) 4,4'-DDT	1.139	1.091	1.106	1.147	1.170	1.241	1.218	1.454	1.196	E5 9.72
18) Endrin Aldehyde	2.413	1.641	1.367	1.375	1.248	1.245	1.236	1.331	1.482	E5 26.87
19) Endosulfan Sul...	1.761	1.611	1.538	1.554	1.458	1.484	1.437	1.556	1.550	E5 6.64
20) Methoxychlor	5.966	5.573	5.408	5.617	5.561	5.721	5.877	7.136	5.857	E4 9.33
21) Endrin Ketone	1.776	1.656	1.623	1.664	1.604	1.638	1.625	1.755	1.668	E5 3.80
22) S DCBP (S)	1.639	1.550	1.402	1.335	1.337	1.336	1.341	1.349	1.411	E5 8.33
23) Hexachlorobuta...	1.982	1.879	1.918	1.838	1.746	1.752	1.795	1.708	1.827	E5 5.17
24) Hexachlorobenzene	1.947	1.810	1.708	1.712	1.674	1.782	1.767	1.704	1.763	E5 4.96
25) Oxychlordane	1.768	1.697	1.639	1.592	1.553	1.677	1.636	1.602	1.645	E5 4.13
26) 2,4'-DDE	1.379	1.326	1.266	1.245	1.224	1.302	1.277	1.241	1.283	E5 4.01
27) trans-Nonachlor	2.368	2.076	1.866	1.818	1.756	1.916	1.835	1.751	1.923	E5 10.78
28) 2,4'-DDD	1.202	1.165	1.122	1.104	1.098	1.184	1.159	1.096	1.141	E5 3.65
29) 2,4'-DDT	1.071	1.021	1.074	1.052	1.092	1.137	1.177	1.151	1.097	E5 4.88
30) cis-Nonachlor	2.192	2.117	2.052	2.032	1.997	2.123	2.093	2.002	2.076	E5 3.25
31) Mirex	1.474	1.334	1.257	1.196	1.164	1.244	1.196	1.164	1.254	E5 8.39
32) Chlordane (1)	2.018	1.979	1.925	1.926	1.964	2.002			1.969	E4 1.96
33) Chlordane (2)	2.573	2.520	2.453	2.435	2.508	2.549			2.506	E4 2.14
34) Chlordane (3)	5.762	5.482	5.508	5.843	5.988	6.104			5.781	E3 4.34
35) Chlordane - AVE									0.000	-1.00
36) Toxaphene (1)	9.850	9.158	8.802	8.837	8.719	8.373			8.956	E2 5.64
37) Toxaphene (2)	1.766	1.661	1.588	1.639	1.556	1.479			1.615	E3 6.08
38) Toxaphene (3)	3.388	3.328	3.222	3.355	3.496	3.416			3.367	E3 2.72
39) Toxaphene (4)	3.286	3.203	3.162	3.299	3.287	3.204			3.240	E3 1.78
40) Toxaphene (5)	2.294	2.290	2.272	2.443	2.546	2.537			2.397	E3 5.33
41) Toxaphene (6)	3.063	3.026	2.990	3.247	3.407	3.255			3.165	E3 5.17
42) Toxaphene - AVE									0.000	-1.00

MJB
8/26/19

Response Factor Report DUALECD5

Method Path : C:\msdchem\4\methods\
 Method File : ECD5_QUANTPEST_190823.M
 Title : Instrument: DualECD5

Signal #2 Calibration Files

1 =ECD5-08231936.D 2 =ECD5-08231937.D 3 =ECD5-08231938.D
 4 =ECD5-08231939.D 5 =ECD5-08231940.D 6 =ECD5-08231941.D

Compound	1	2	3	4	5	6	Avg	%RSD
44) S TCMX (S) #2	3.001	3.004	2.876	2.866	2.829	2.839	2.926	3.129 2.934 E5 3.54
45) a-BHC #2	3.931	3.923	3.971	4.096	3.964	4.053	4.170	4.719 4.103 E5 6.41
46) g-BHC #2	3.523	3.455	3.485	3.477	3.403	3.476	3.679	4.038 3.567 E5 5.79
47) b-BHC #2	1.763	1.676	1.577	1.581	1.471	1.503	1.463	1.628 1.583 E5 6.60
48) Heptachlor #2	3.098	2.934	3.016	3.006	2.913	2.919	3.028	3.564 3.060 E5 6.98
49) d-BHC #2	3.491	3.346	3.435	3.614	3.299	3.462	3.518	4.049 3.527 E5 6.60
50) Aldrin #2	3.175	3.177	3.202	3.341	3.151	3.253	3.391	3.661 3.294 E5 5.19
51) Heptachlor Exp...	3.101	3.031	2.912	2.959	2.826	2.968	3.005	3.267 3.008 E5 4.40
52) trans-Chlordan...	3.641	3.222	3.004	3.003	2.863	2.936	3.074	3.322 3.133 E5 8.10
53) cis-Chlordane #2	2.994	2.898	2.870	2.860	2.774	2.800	2.904	3.199 2.912 E5 4.59
54) Endosulfan I #2	2.789	2.702	2.654	2.724	2.629	2.742	2.721	3.052 2.752 E5 4.77
55) 4,4'-DDE #2	2.985	2.990	2.976	3.050	3.000	3.111	3.250	3.492 3.107 E5 5.82
56) Dieldrin #2	2.967	2.919	2.925	2.899	2.934	3.087	3.100	3.502 3.042 E5 6.61
57) Endrin #2	2.229	2.124	2.186	2.244	2.130	2.203	2.310	2.639 2.258 E5 7.32
58) 4,4'-DDD #2	2.515	2.441	2.417	2.425	2.459	2.632	2.630	2.978 2.562 E5 7.37
59) Endosulfan II #2	2.322	2.311	2.193	2.244	2.179	2.307	2.302	2.592 2.306 E5 5.55
60) 4,4'-DDT #2	1.797	1.709	1.747	1.841	1.792	1.857	1.979	2.410 1.892 E5 11.88
61) Endrin Aldehyd...	3.486	2.388	2.092	2.125	1.939	2.042	2.050	2.254 2.297 E5 21.77
62) Endosulfan Sul...	2.658	2.494	2.352	2.425	2.392	2.430	2.448	2.730 2.491 E5 5.35
63) Methoxychlor #2	0.952	0.890	0.828	0.883	0.867	0.869	0.944	1.186 0.927 E5 12.09
64) Endrin Ketone #2	2.558	2.466	2.410	2.497	2.357	2.591	2.664	3.043 2.573 E5 8.31
65) S DCBP (S) #2	1.916	1.950	1.742	1.679	1.665	1.746	1.778	1.905 1.798 E5 6.18
66) Hexachlorobuta...	3.832	3.773	3.755	3.702	3.557	3.727	3.930	3.799 3.759 E5 2.87
67) Hexachlorobenz...	3.280	3.164	2.971	2.936	2.967	3.219	3.277	3.313 3.141 E5 5.04
68) Oxychlordane #2	2.791	2.705	2.651	2.539	2.481	2.835	2.973	2.937 2.739 E5 6.49
69) 2,4'-DDE #2	2.192	2.059	2.059	2.018	2.000	2.201	2.216	2.225 2.121 E5 4.52
70) trans-Nonachlo...	3.062	2.939	2.935	2.844	2.837	3.162	3.198	3.154 3.016 E5 4.84
71) 2,4'-DDD #2	1.920	1.868	1.797	1.779	1.756	1.985	2.012	1.992 1.889 E5 5.47
72) 2,4'-DDT #2	1.733	1.661	1.746	1.703	1.762	1.762	1.900	2.000 1.783 E5 6.24
73) cis-Nonachlor #2	3.327	3.124	3.174	3.148	3.288	3.544	3.607	3.623 3.354 E5 6.23
74) Mirex #2	2.098	1.941	1.791	1.723	1.655	1.820	1.936	1.921 1.861 E5 7.59
75) Chlordane (1) #2	3.509	3.378	3.376	3.566	3.797	4.085		3.618 E4 7.62
76) Chlordane (2) #2	2.945	2.906	2.942	2.962	3.149	3.314		3.036 E4 5.30
77) Chlordane (3) #2	8.780	8.745	8.659	8.543	9.359	9.709		8.966 E3 5.14
78) Chlordane - AV...								0.000 -1.00
79) Toxaphene (1) #2	2.737	2.675	2.545	2.618	2.655	2.515		2.624 E3 3.16
80) Toxaphene (2) #2	3.294	3.241	3.227	3.295	3.384	3.305		3.291 E3 1.70
81) Toxaphene (3) #2	5.097	4.944	4.978	4.950	5.168	5.273		5.068 E3 2.65
82) Toxaphene (4) #2	8.327	8.119	7.902	8.505	8.650	8.595		8.350 E3 3.51
83) Toxaphene (5) #2	4.664	4.522	4.477	4.681	4.900	4.718		4.660 E3 3.24
84) Toxaphene (6) #2	4.618	4.525	4.526	4.740	5.047	5.045		4.750 E3 5.10
85) Toxaphene - AV...								0.000 -1.00

MJB
6/26/19

(#) = Out of Range

Compound List Report DUALECD5

Method Path : R:\methods\
 Method File : ECD5_QUANTPEST_190823.M
 Title : Instrument: DualECD5
 Last Update : Mon Aug 26 11:48:23 2019
 Response Via : Initial Calibration

Total Cpnds : 85

PK#	Compound Name	Exp_RT	Rel_RT	Cal	A/H	ID
1	S TCMX (S)	5.394	1.000	A	H	R
2	a-BHC	5.934	1.000	A	H	R
3	g-BHC	6.218	1.000	A	H	R
4	b-BHC	6.296	1.000	A	H	R
5	Heptachlor	6.632	1.000	A	H	R
6	d-BHC	6.446	1.000	A	H	R
7	Aldrin	6.873	1.000	A	H	R
8	Heptachlor Epoxide	7.332	1.000	A	H	R
9	trans-Chlordane	7.428	1.000	A	H	R
10	cis-Chlordane	7.524	1.000	A	H	R
11	Endosulfan I	7.621	1.000	A	H	R
12	4,4'-DDE	7.583	1.000	A	H	R
13	Dieldrin	7.792	1.000	A	H	R
14	Endrin	7.957	1.000	A	H	R
15	4,4'-DDD	8.003	1.000	A	H	R
16	Endosulfan II	8.114	1.000	A	H	R
17	4,4'-DDT	8.202	1.000	A	H	R
18	Endrin Aldehyde	8.403	1.000	Q	H	R
19	Endosulfan Sulfate	8.705	1.000	A	H	R
20	Methoxychlor	8.540	1.000	A	H	R
21	Endrin Ketone	8.899	1.000	A	H	R
22	S DCBP (S)	9.592	1.000	A	H	R
23	Hexachlorobutadiene	3.198	1.000	A	H	R
24	Hexachlorobenzene	5.774	1.000	A	H	R
25	Oxychlordane	7.261	1.000	A	H	R
26	2,4'-DDE	7.333	1.000	A	H	R
27	trans-Nonachlor	7.515	1.000	Q	H	R
28	2,4'-DDD	7.705	1.000	A	H	R
29	2,4'-DDT	7.887	1.000	A	H	R
30	cis-Nonachlor	7.985	1.000	A	H	R
31	Mirex	8.652	1.000	A	H	R
32	Chlordane (1)	7.427	1.000	A	H	R
33	Chlordane (2)	7.520	1.000	A	H	R
34	Chlordane (3)	8.067	1.000	A	H	R
35	Chlordane - AVE	3.447	1.000	A	H	R
36	Toxaphene (1)	7.502	1.000	A	H	R
37	Toxaphene (2)	7.794	1.000	A	H	R
38	Toxaphene (3)	8.105	1.000	A	H	R
39	Toxaphene (4)	8.346	1.000	A	H	R
40	Toxaphene (5)	8.574	1.000	A	H	R
41	Toxaphene (6)	8.640	1.000	A	H	R
42	Toxaphene - AVE	3.450	1.000	A	H	R
43	Signal #2	3.544	1.000	A	H	R
44	S TCMX (S) #2	5.988	1.000	A	H	R
45	a-BHC #2	6.595	1.000	A	H	R
46	g-BHC #2	6.914	1.000	A	H	R
47	b-BHC #2	6.978	1.000	A	H	R
48	Heptachlor #2	7.290	1.000	A	H	R
49	d-BHC #2	7.231	1.000	A	H	R
50	Aldrin #2	7.555	1.000	A	H	R
51	Heptachlor Epoxide #2	7.992	1.000	A	H	R
52	trans-Chlordane #2	8.131	1.000	A	H	R
53	cis-Chlordane #2	8.238	1.000	A	H	R
54	Endosulfan I #2	8.289	1.000	A	H	R
55	4,4'-DDE #2	8.343	1.000	A	H	R
56	Dieldrin #2	8.489	1.000	A	H	R

MJB
8/26/19

57	Endrin #2	8.715	1.000	A	H	R
58	4,4'-DDD #2	8.758	1.000	A	H	R
59	Endosulfan II #2	8.863	1.000	A	H	R
60	4,4'-DDT #2	8.984	1.000	Q	H	R
61	Endrin Aldehyde #2	9.099	1.000	Q	H	R
62	Endosulfan Sulfate #2	9.289	1.000	A	H	R
63	Methoxychlor #2	9.463	1.000	Q	H	R
64	Endrin Ketone #2	9.687	1.000	A	H	R
65	S DCBP (S) #2	10.541	1.000	A	H	R
66	Hexachlorobutadiene #2	3.688	1.000	A	H	R
67	Hexachlorobenzene #2	6.454	1.000	A	H	R
68	Oxychlorane #2	7.920	1.000	A	H	R
69	2,4'-DDE #2	8.122	1.000	A	H	R
70	trans-Nonachlor #2	8.194	1.000	A	H	R
71	2,4'-DDD #2	8.495	1.000	A	H	R
72	2,4'-DDT #2	8.718	1.000	A	H	R
73	cis-Nonachlor #2	8.758	1.000	A	H	R
74	Mirex #2	9.679	1.000	A	H	R
75	Chlordane (1) #2	8.129	1.000	A	H	R
76	Chlordane (2) #2	8.236	1.000	A	H	R
77	Chlordane (3) #2	8.896	1.000	A	H	R
78	Chlordane - AVE #2	3.428	1.000	A	H	R
79	Toxaphene (1) #2	8.466	1.000	A	H	R
80	Toxaphene (2) #2	8.812	1.000	A	H	R
81	Toxaphene (3) #2	8.848	1.000	A	H	R
82	Toxaphene (4) #2	8.915	1.000	A	H	R
83	Toxaphene (5) #2	9.091	1.000	A	H	R
84	Toxaphene (6) #2	9.470	1.000	A	H	R
85	Toxaphene - AVE #2	3.434	1.000	A	H	R

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin

A/H = Area or Height

ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

ECD5_QUANTPEST_190823.M Mon Aug 26 16:04:34 2019

Calibration Report DUALECD5

Method Path : R:\methods\
 Method File : ECD5_QUANTPEST_190823.M
 Title : Instrument: DualECD5
 Last Update : Mon Aug 26 11:48:23 2019
 Response Via : Initial Calibration

Calibration Files

1 =ECD5-08231936 2 =ECD5-08231937 3 =ECD5-08231938 4 =ECD5-08231939 5 =ECD5-08231940
 6 =ECD5-08231941 7 =ECD5-08231924 8 =ECD5-08231925

	Compound	Fit	Constant	Linear	Quad	RSD/Cf
1) S	TCMX (S)	Avg	-----	1.6598 e5	-----	0.0400
2)	a-BHC	Avg	-----	2.2933 e5	-----	0.0214
3)	g-BHC	Avg	-----	2.0178 e5	-----	0.0276
4)	b-BHC	Avg	-----	9.0384 e4	-----	0.0859
5)	Heptachlor	Avg	-----	1.8130 e5	-----	0.0386
6)	d-BHC	Avg	-----	1.9669 e5	-----	0.0302
7)	Aldrin	Avg	-----	1.9745 e5	-----	0.0323
8)	Heptachlor Expoxide	Avg	-----	1.8418 e5	-----	0.0542
9)	trans-Chlordane	Avg	-----	1.8489 e5	-----	0.0393
10)	cis-Chlordane	Avg	-----	1.8207 e5	-----	0.0786
11)	Endosulfan I	Avg	-----	1.7018 e5	-----	0.0513
12)	4,4'-DDE	Avg	-----	1.8853 e5	-----	0.0292
13)	Dieldrin	Avg	-----	1.9198 e5	-----	0.0325
14)	Endrin	Avg	-----	1.4703 e5	-----	0.0498
15)	4,4'-DDD	Avg	-----	1.5714 e5	-----	0.0311
16)	Endosulfan II	Avg	-----	1.4361 e5	-----	0.0561
17)	4,4'-DDT	Avg	-----	1.1956 e5	-----	0.0972
18)	Endrin Aldehyde	Quad	1.1904 e5	1.1635 e5	8.0472 e1	0.9966
19)	Endosulfan Sulfate	Avg	-----	1.5498 e5	-----	0.0664
20)	Methoxychlor	Avg	-----	5.8574 e4	-----	0.0933
21)	Endrin Ketone	Avg	-----	1.6676 e5	-----	0.0380
22) S	DCBP (S)	Avg	-----	1.4110 e5	-----	0.0833
23)	Hexachlorobutadiene	Avg	-----	1.8274 e5	-----	0.0517
24)	Hexachlorobenzene	Avg	-----	1.7629 e5	-----	0.0496
25)	Oxychlordane	Avg	-----	1.6454 e5	-----	0.0413
26)	2,4'-DDE	Avg	-----	1.2826 e5	-----	0.0401
27)	trans-Nonachlor	Quad	5.6661 e4	1.7916 e5	-2.0512	0.9987
28)	2,4'-DDD	Avg	-----	1.1413 e5	-----	0.0365
29)	2,4'-DDT	Avg	-----	1.0969 e5	-----	0.0488
30)	cis-Nonachlor	Avg	-----	2.0762 e5	-----	0.0325
31)	Mirex	Avg	-----	1.2537 e5	-----	0.0839
32)	Chlordane (1)	Avg	-----	1.9690 e4	-----	0.0196
33)	Chlordane (2)	Avg	-----	2.5064 e4	-----	0.0214
34)	Chlordane (3)	Avg	-----	5.7811 e3	-----	0.0434
35)	Chlordane - AVE	Avg	-----	-----	-----	0.0000
36)	Toxaphene (1)	Avg	-----	8.9565 e2	-----	0.0564
37)	Toxaphene (2)	Avg	-----	1.6149 e3	-----	0.0608
38)	Toxaphene (3)	Avg	-----	3.3675 e3	-----	0.0272
39)	Toxaphene (4)	Avg	-----	3.2402 e3	-----	0.0178
40)	Toxaphene (5)	Avg	-----	2.3971 e3	-----	0.0533
41)	Toxaphene (6)	Avg	-----	3.1646 e3	-----	0.0517
42)	Toxaphene - AVE	Avg	-----	-----	-----	0.0000

MJP
5/26/19

Signal #2

	Compound	Fit	Constant	Linear	Quad	RSD/Cf
1) S	TCMX (S)	Avg	-----	2.9337 e5	-----	0.0354
2)	a-BHC	Avg	-----	4.1034 e5	-----	0.0641
3)	g-BHC	Avg	-----	3.5670 e5	-----	0.0579
4)	b-BHC	Avg	-----	1.5827 e5	-----	0.0660
5)	Heptachlor	Avg	-----	3.0598 e5	-----	0.0698
6)	d-BHC	Avg	-----	3.5267 e5	-----	0.0660
7)	Aldrin	Avg	-----	3.2939 e5	-----	0.0519

8)	Heptachlor Expoxide	Avg	-----	3.0085 e5	-----	0.0440
9)	trans-Chlordane	Avg	-----	3.1333 e5	-----	0.0810
10)	cis-Chlordane	Avg	-----	2.9125 e5	-----	0.0459
11)	Endosulfan I	Avg	-----	2.7518 e5	-----	0.0477
12)	4,4'-DDE	Avg	-----	3.1068 e5	-----	0.0582
13)	Dieldrin	Avg	-----	3.0415 e5	-----	0.0661
14)	Endrin	Avg	-----	2.2583 e5	-----	0.0732
15)	4,4'-DDD	Avg	-----	2.5621 e5	-----	0.0737
16)	Endosulfan II	Avg	-----	2.3061 e5	-----	0.0555
17)	4,4'-DDT	Quad	6.5669 e3	1.7140 e5	3.3014 e2	0.9992
18)	Endrin Aldehyde	Quad	1.5509 e5	1.8265 e5	2.1823 e2	0.9961
19)	Endosulfan Sulfate	Avg	-----	2.4909 e5	-----	0.0535
20)	Methoxychlor	Quad	1.4992 e4	8.0453 e4	1.7846 e2	0.9988
21)	Endrin Ketone	Avg	-----	2.5732 e5	-----	0.0831
22) S	DCBP (S)	Avg	-----	1.7976 e5	-----	0.0618
23)	Hexachlorobutadiene	Avg	-----	3.7593 e5	-----	0.0287
24)	Hexachlorobenzene	Avg	-----	3.1409 e5	-----	0.0504
25)	Oxychlordane	Avg	-----	2.7390 e5	-----	0.0649
26)	2,4'-DDE	Avg	-----	2.1214 e5	-----	0.0452
27)	trans-Nonachlor	Avg	-----	3.0164 e5	-----	0.0484
28)	2,4'-DDD	Avg	-----	1.8886 e5	-----	0.0547
29)	2,4'-DDT	Avg	-----	1.7834 e5	-----	0.0624
30)	cis-Nonachlor	Avg	-----	3.3545 e5	-----	0.0623
31)	Mirex	Avg	-----	1.8607 e5	-----	0.0759
32)	Chlordane (1)	Avg	-----	3.6185 e4	-----	0.0762
33)	Chlordane (2)	Avg	-----	3.0364 e4	-----	0.0530
34)	Chlordane (3)	Avg	-----	8.9659 e3	-----	0.0514
35)	Chlordane - AVE	Avg	-----	-----	-----	0.0000
36)	Toxaphene (1)	Avg	-----	2.6243 e3	-----	0.0316
37)	Toxaphene (2)	Avg	-----	3.2910 e3	-----	0.0170
38)	Toxaphene (3)	Avg	-----	5.0683 e3	-----	0.0265
39)	Toxaphene (4)	Avg	-----	8.3498 e3	-----	0.0351
40)	Toxaphene (5)	Avg	-----	4.6604 e3	-----	0.0324
41)	Toxaphene (6)	Avg	-----	4.7502 e3	-----	0.0510
42)	Toxaphene - AVE	Avg	-----	-----	-----	0.0000

ECD5_QUANTPEST_190823.M Mon Aug 26 16:04:42 2019

Element Calibration Review Sheet

Calibration ID: **A9H2608**

Instrument: **DUALECD5**

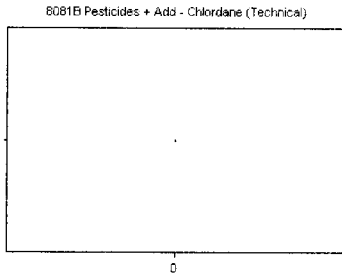
Calibration Date: **08/26/2019**

Analysis: **8081B Pesticides + Add**

Instrument Cal ID: **ECD5_QUANTPEST_19082**

Chlordane (Technical)

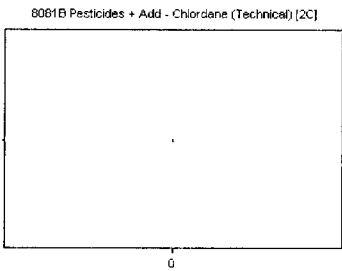
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
9H23034-CALH	50	5365	107.300	3.45
9H23034-CALI	100	4938	49.380	3.45
9H23034-CALJ	200	4503	22.515	3.45
9H23034-CALK	500	4056	8.112	3.45
9H23034-CALL	1000	4825	4.825	3.45
9H23034-CALM	2000	4939	2.469	3.45
AVE RF		0.000	RF RSD	0.00
			AVE RT	0.00

Chlordane (Technical) [2C]

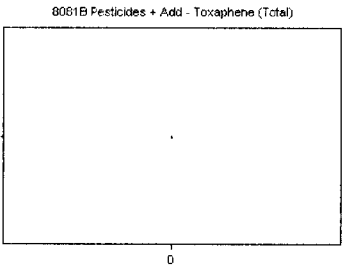
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
9H23034-CALH	50	0	0.000	0.00
9H23034-CALI	100	0	0.000	0.00
9H23034-CALJ	200	0	0.000	0.00
9H23034-CALK	500	0	0.000	0.00
9H23034-CALL	1000	0	0.000	0.00
9H23034-CALM	2000	0	0.000	0.00
AVE RF		0.000	RF RSD	0.00
			AVE RT	0.00

Toxaphene (Total)

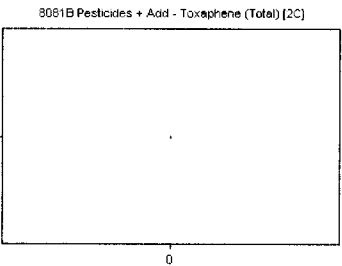
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
9H23034-CALN	50	4023	80.460	3.45
9H23034-CALO	100	3536	35.360	3.45
9H23034-CALP	200	3919	19.595	3.45
9H23034-CALQ	500	4132	8.264	3.45
9H23034-CALR	1000	2687	2.687	3.45
9H23034-CALS	2000	4166	2.083	3.45
AVE RF		0.000	RF RSD	0.00
			AVE RT	0.00

Toxaphene (Total) [2C]

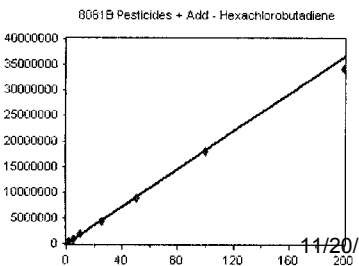
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
9H23034-CALN	50	0	0.000	0.00
9H23034-CALO	100	0	0.000	0.00
9H23034-CALP	200	0	0.000	0.00
9H23034-CALQ	500	0	0.000	0.00
9H23034-CALR	1000	0	0.000	0.00
9H23034-CALS	2000	0	0.000	0.00
AVE RF		0.000	RF RSD	0.00
			AVE RT	0.00

Hexachlorobutadiene

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
9H23034-CAL9	1	198207	198207.000	3.20
9H23034-CALA	2	375794	187897.000	3.20
9H23034-CALB	5	959211	191842.200	3.20
9H23034-CALC	10	1838187	183818.700	3.20
9H23034-CALD	25	4363988	174559.500	3.20
9H23034-CALE	50	8761747	175234.900	3.20
9H23034-CALF	100	795213E+07	179521.300	3.20
9H23034-CALG	200	416653E+07	170832.600	3.20
AVE RF		0.000	RF RSD	0.00
			AVE RT	0.00

Element Calibration Review Sheet

Calibration ID: **A9H2608**

Instrument: **DUALECD5**

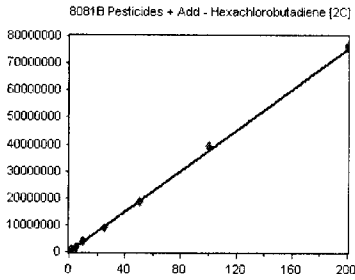
Calibration Date: **08/26/2019**

Analysis: **8081B Pesticides + Add**

Instrument Cal ID: **ECD5_QUANTPEST_19082**

Hexachlorobutadiene [2C]

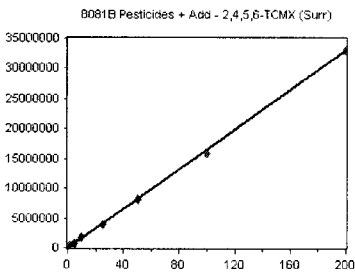
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL9	1	383198	383198.000	3.69	
9H23034-CALA	2	754548	377274.000	3.69	
9H23034-CALB	5	1877484	375496.800	3.69	
9H23034-CALC	10	3701532	370153.200	3.69	
9H23034-CALD	25	8892238	355689.500	3.69	
9H23034-CALE	50	863562E+07	372712.400	3.69	
9H23034-CALF	100	929888E+07	392988.800	3.69	
9H23034-CALG	200	598857E+07	379942.800	3.69	
AVE RF	375931.900	RF RSD	2.87	AVE RT	3.69

2,4,5,6-TCMX (Surr)

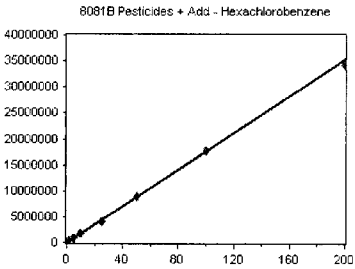
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL1	1	176748	176748.000	5.40	
9H23034-CAL2	2	349972	174986.000	5.40	
9H23034-CAL3	5	834206	166841.200	5.40	
9H23034-CAL4	10	1644447	164444.700	5.40	
9H23034-CAL5	25	4015832	160633.300	5.39	
9H23034-CAL6	50	8071481	161429.600	5.39	
9H23034-CAL7	100	585092E+07	158509.200	5.40	
9H23034-CAL8	200	284254E+07	164212.700	5.39	
AVE RF	165975.600	RF RSD	4.00	AVE RT	5.40

Hexachlorobenzene

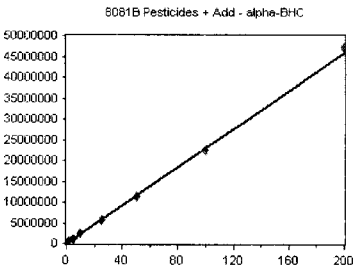
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL9	1	194679	194679.000	5.78	
9H23034-CALA	2	362082	181041.000	5.78	
9H23034-CALB	5	853793	170758.600	5.78	
9H23034-CALC	10	1711884	171188.400	5.77	
9H23034-CALD	25	4184551	167382.000	5.77	
9H23034-CALE	50	8911624	178232.500	5.77	
9H23034-CALF	100	767002E+07	176700.200	5.78	
9H23034-CALG	200	407346E+07	170367.300	5.77	
AVE RF	176293.600	RF RSD	4.96	AVE RT	5.77

alpha-BHC

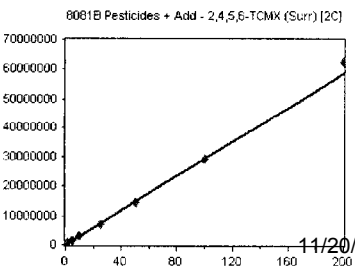
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL1	1	231994	231994.000	5.94	
9H23034-CAL2	2	458365	229182.500	5.94	
9H23034-CAL3	5	1147932	229586.400	5.94	
9H23034-CAL4	10	2347065	234706.500	5.94	
9H23034-CAL5	25	5553096	222123.800	5.94	
9H23034-CAL6	50	136959E+07	227391.800	5.94	
9H23034-CAL7	100	236358E+07	223635.800	5.94	
9H23034-CAL8	200	720225E+07	236011.200	5.94	
AVE RF	229329.000	RF RSD	2.14	AVE RT	5.94

2,4,5,6-TCMX (Surr) [2C]

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL1	1	300053	300053.000	5.99	
9H23034-CAL2	2	600766	300383.000	5.99	
9H23034-CAL3	5	1437876	287575.200	5.99	
9H23034-CAL4	10	2865854	286585.400	5.99	
9H23034-CAL5	25	7072923	282916.900	5.99	
9H23034-CAL6	50	419675E+07	283935.000	5.99	
9H23034-CAL7	100	925633E+07	292563.300	5.99	
9H23034-CAL8	200	258445E+07	312922.300	5.99	
AVE RF	293366.800	RF RSD	3.15	AVE RT	5.99

Element Calibration Review Sheet

Calibration ID: **A9H2608**

Instrument: **DUALECD5**

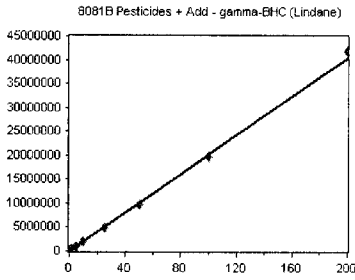
Calibration Date: **08/26/2019**

Analysis: **8081B Pesticides + Add**

Instrument Cal ID: **ECD5_QUANTPEST_19082**

gamma-BHC (Lindane)

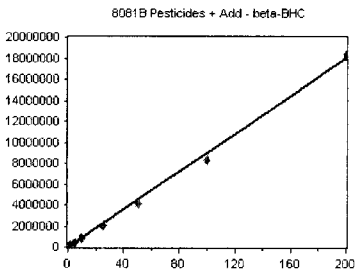
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL1	1	207427	207427.000	6.22	
9H23034-CAL2	2	406027	203013.500	6.22	
9H23034-CAL3	5	1020724	204144.800	6.22	
9H23034-CAL4	10	2034859	203485.900	6.22	
9H23034-CAL5	25	4875657	195026.300	6.22	
9H23034-CAL6	50	9785999	195720.000	6.22	
9H23034-CAL7	100	959509E+07	195950.900	6.22	
9H23034-CAL8	200	188973E+07	209448.600	6.22	
AVE RF	201777.100	RF RSD	2.76	AVE RT	6.22

beta-BHC

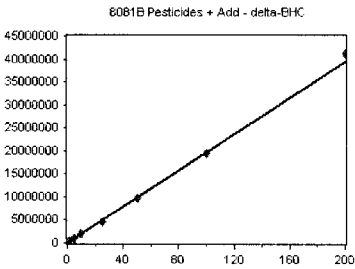
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL1	1	104326	104326.000	6.30	
9H23034-CAL2	2	194168	97084.000	6.30	
9H23034-CAL3	5	456954	91390.800	6.30	
9H23034-CAL4	10	910875	91087.500	6.30	
9H23034-CAL5	25	2060378	82415.120	6.30	
9H23034-CAL6	50	4100858	82017.160	6.30	
9H23034-CAL7	100	8355416	83554.160	6.30	
9H23034-CAL8	200	.82387E+07	91193.500	6.29	
AVE RF	90383.530	RF RSD	8.59	AVE RT	6.30

delta-BHC

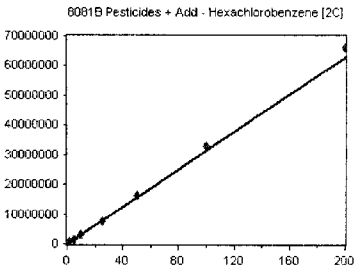
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL1	1	199840	199840.000	6.45	
9H23034-CAL2	2	386980	193490.000	6.45	
9H23034-CAL3	5	1004012	200802.400	6.45	
9H23034-CAL4	10	2006493	200649.300	6.45	
9H23034-CAL5	25	4667166	186686.600	6.45	
9H23034-CAL6	50	9610742	192214.800	6.45	
9H23034-CAL7	100	947558E+07	194755.800	6.45	
9H23034-CAL8	200	101659E+07	205083.000	6.45	
AVE RF	196690.200	RF RSD	3.02	AVE RT	6.45

Hexachlorobenzene [2C]

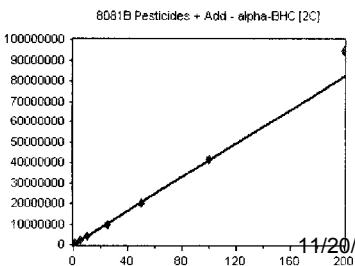
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL9	1	328025	328025.000	6.45	
9H23034-CALA	2	632830	316415.000	6.45	
9H23034-CALB	5	1485583	297116.600	6.45	
9H23034-CALC	10	2936294	293629.400	6.45	
9H23034-CALD	25	7416324	296653.000	6.45	
9H23034-CALE	50	509416E+07	321883.200	6.45	
9H23034-CALF	100	276671E+07	327667.100	6.46	
9H23034-CALG	200	526197E+07	331309.800	6.45	
AVE RF	314087.400	RF RSD	5.04	AVE RT	6.45

alpha-BHC [2C]

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL1	1	393119	393119.000	6.60	
9H23034-CAL2	2	784586	392293.000	6.60	
9H23034-CAL3	5	1985438	397087.600	6.60	
9H23034-CAL4	10	4095890	409589.000	6.60	
9H23034-CAL5	25	9910863	396434.500	6.60	
9H23034-CAL6	50	026582E+07	405316.400	6.60	
9H23034-CAL7	100	169921E+07	416992.100	6.60	
9H23034-CAL8	200	437675E+07	471883.800	6.60	
AVE RF	410399.400	RF RSD	6.14	AVE RT	6.60

Element Calibration Review Sheet

Calibration ID: **A9H2608**

Instrument: **DUALECD5**

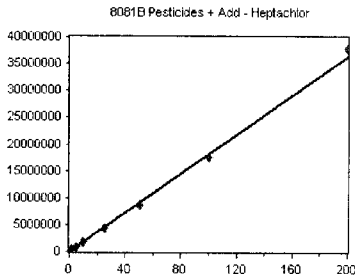
Calibration Date: **08/26/2019**

Analysis: **8081B Pesticides + Add**

Instrument Cal ID: **ECD5_QUANTPEST_19082**

Heptachlor

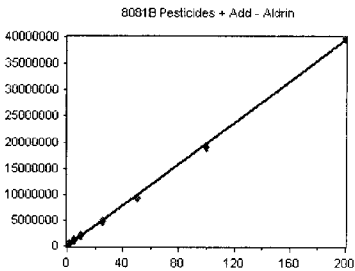
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL1	1	192066	192066.000	6.64	
9H23034-CAL2	2	369615	184807.500	6.64	
9H23034-CAL3	5	899091	179818.200	6.64	
9H23034-CAL4	10	1819621	181962.100	6.63	
9H23034-CAL5	25	4314306	172572.200	6.63	
9H23034-CAL6	50	8735158	174703.200	6.63	
9H23034-CAL7	100	755153E+07	175515.300	6.63	
9H23034-CAL8	200	1.77857E+07	188928.500	6.63	
AVE RF	181296.600	RF RSD	3.86	AVE RT	6.63

Aldrin

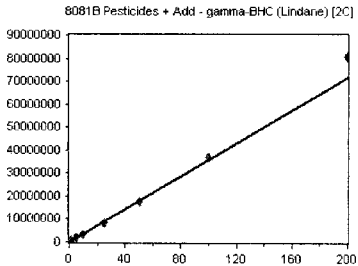
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL1	1	205523	205523.000	6.88	
9H23034-CAL2	2	399550	199775.000	6.88	
9H23034-CAL3	5	1012733	202546.600	6.88	
9H23034-CAL4	10	2010802	201080.200	6.88	
9H23034-CAL5	25	4845355	193814.200	6.87	
9H23034-CAL6	50	9327672	186553.400	6.87	
9H23034-CAL7	100	910807E+07	191080.700	6.87	
9H23034-CAL8	200	1.98384E+07	199192.000	6.87	
AVE RF	197445.600	RF RSD	3.23	AVE RT	6.87

gamma-BHC (Lindane) [2C]

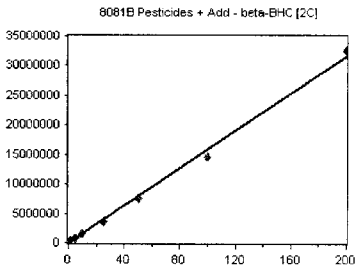
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL1	1	352286	352286.000	6.92	
9H23034-CAL2	2	690922	345461.000	6.92	
9H23034-CAL3	5	1742677	348535.400	6.92	
9H23034-CAL4	10	3476733	347673.300	6.92	
9H23034-CAL5	25	8508386	340335.400	6.91	
9H23034-CAL6	50	738107E+07	347621.400	6.91	
9H23034-CAL7	100	578899E+07	367889.900	6.91	
9H23034-CAL8	200	076568E+07	403828.400	6.91	
AVE RF	356703.900	RF RSD	5.79	AVE RT	6.91

beta-BHC [2C]

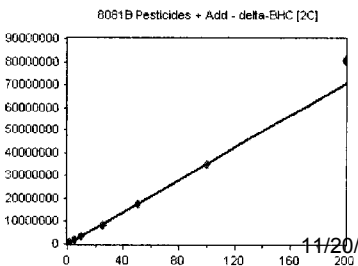
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL1	1	176262	176262.000	6.98	
9H23034-CAL2	2	335260	167630.000	6.98	
9H23034-CAL3	5	788630	157726.000	6.98	
9H23034-CAL4	10	1580847	158084.700	6.98	
9H23034-CAL5	25	3677155	147086.200	6.98	
9H23034-CAL6	50	7516011	150320.200	6.98	
9H23034-CAL7	100	462518E+07	146251.800	6.98	
9H23034-CAL8	200	255343E+07	162767.200	6.98	
AVE RF	158266.000	RF RSD	6.60	AVE RT	6.98

delta-BHC [2C]

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL1	1	349123	349123.000	7.23	
9H23034-CAL2	2	669122	334561.000	7.23	
9H23034-CAL3	5	1717450	343490.000	7.23	
9H23034-CAL4	10	3613517	361351.700	7.23	
9H23034-CAL5	25	8247775	329911.000	7.23	
9H23034-CAL6	50	731126E+07	346225.200	7.23	
9H23034-CAL7	100	517663E+07	351766.300	7.23	
9H23034-CAL8	200	097975E+07	404898.800	7.23	
AVE RF	352665.900	RF RSD	6.60	AVE RT	7.23

Element Calibration Review Sheet

Calibration ID: **A9H2608**

Instrument: **DUALECD5**

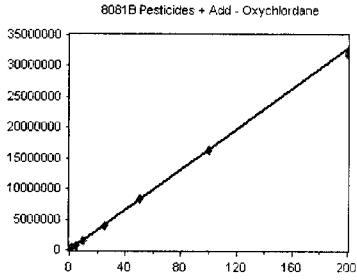
Calibration Date: **08/26/2019**

Analysis: **8081B Pesticides + Add**

Instrument Cal ID: **ECD5_QUANTPEST_19082**

Oxychlorthane

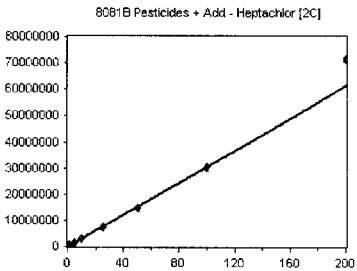
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL9	1	176844	176844.000	7.26	
9H23034-CALA	2	339370	169685.000	7.26	
9H23034-CALB	5	819748	163949.600	7.26	
9H23034-CALC	10	1591613	159161.300	7.26	
9H23034-CALD	25	3881255	155250.200	7.26	
9H23034-CALE	50	8382873	167657.500	7.26	
9H23034-CALF	100	535922E+07	163592.200	7.26	
9H23034-CALG	200	203263E+07	160163.200	7.26	
AVE RF	164537.900	RF RSD	4.13	AVE RT	7.26

Heptachlor [2C]

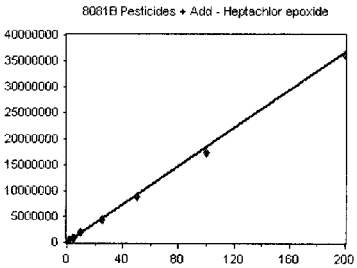
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL1	1	309811	309811.000	7.29	
9H23034-CAL2	2	586765	293382.500	7.29	
9H23034-CAL3	5	1508218	301643.600	7.29	
9H23034-CAL4	10	3005915	300591.500	7.29	
9H23034-CAL5	25	7282282	291291.300	7.29	
9H23034-CAL6	50	459514E+07	291902.800	7.29	
9H23034-CAL7	100	027782E+07	302778.200	7.29	
9H23034-CAL8	200	128318E+07	356415.900	7.29	
AVE RF	305977.100	RF RSD	6.98	AVE RT	7.29

Heptachlor epoxide

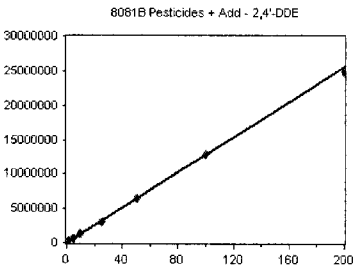
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL1	1	200503	200503.000	7.34	
9H23034-CAL2	2	392052	196026.000	7.34	
9H23034-CAL3	5	923620	184724.000	7.34	
9H23034-CAL4	10	1865428	186542.800	7.34	
9H23034-CAL5	25	4344286	173771.400	7.33	
9H23034-CAL6	50	8869300	177386.000	7.33	
9H23034-CAL7	100	731844E+07	173184.400	7.33	
9H23034-CAL8	200	525817E+07	181290.800	7.33	
AVE RF	184178.600	RF RSD	5.42	AVE RT	7.33

2,4'-DDE

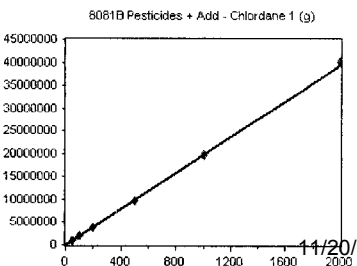
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL9	1	137947	137947.000	7.34	
9H23034-CALA	2	265212	132606.000	7.33	
9H23034-CALB	5	633168	126633.600	7.33	
9H23034-CALC	10	1245265	124526.500	7.33	
9H23034-CALD	25	3059421	122376.800	7.33	
9H23034-CALE	50	6510588	130211.800	7.33	
9H23034-CALF	100	276907E+07	127690.700	7.33	
9H23034-CALG	200	1.48192E+07	124096.000	7.33	
AVE RF	128261.100	RF RSD	4.01	AVE RT	7.33

Chlordane 1 (g)

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CALH	50	1009143	20182.860	7.43	
9H23034-CALI	100	1978897	19788.970	7.43	
9H23034-CALJ	200	3849299	19246.490	7.43	
9H23034-CALK	500	9628671	19257.340	7.43	
9H23034-CALL	1000	964377E+07	19643.770	7.43	
9H23034-CALM	2000	1.00365E+07	20018.250	7.43	
AVE RF	19800.070	RF RSD	7.43	AVE RT	7.43

Element Calibration Review Sheet

Calibration ID: **A9H2608**

Instrument: **DUALECD5**

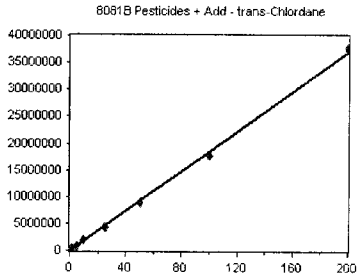
Calibration Date: **08/26/2019**

Analysis: **8081B Pesticides + Add**

Instrument Cal ID: **ECD5_QUANTPEST_19082**

trans-Chlordane

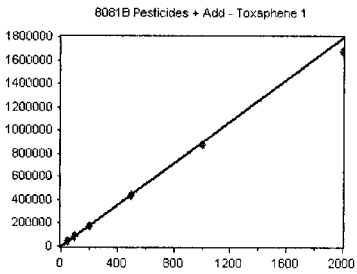
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL1	1	197202	197202.000	7.43	
9H23034-CAL2	2	382271	191135.500	7.43	
9H23034-CAL3	5	926577	185315.400	7.43	
9H23034-CAL4	10	1847996	184799.600	7.43	
9H23034-CAL5	25	4401456	176058.200	7.43	
9H23034-CAL6	50	8959305	179186.100	7.43	
9H23034-CAL7	100	773279E+07	177327.900	7.43	
9H23034-CAL8	200	762141E+07	188107.000	7.43	
AVE RF	184891.500	RF RSD	3.93	AVE RT	7.43

Toxaphene 1

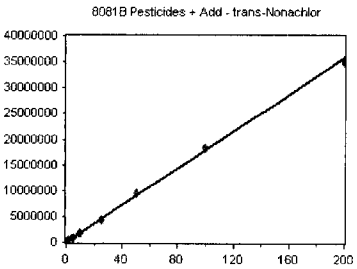
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CALN	50	49250	985.000	7.51	
9H23034-CALO	100	91576	915.760	7.50	
9H23034-CALP	200	176047	880.235	7.50	
9H23034-CALQ	500	441826	883.652	7.50	
9H23034-CALR	1000	871889	871.889	7.50	
9H23034-CALS	2000	1674674	837.337	7.50	
AVE RF	895.646	RF RSD	5.63	AVE RT	7.50

trans-Nonachlor

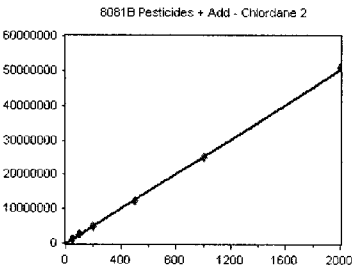
Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL9	1	236836	236836.000	7.52	
9H23034-CALA	2	415126	207563.000	7.52	
9H23034-CALB	5	933222	186644.400	7.52	
9H23034-CALC	10	1817552	181755.200	7.52	
9H23034-CALD	25	4391046	175641.800	7.52	
9H23034-CALE	50	9581794	191635.900	7.52	
9H23034-CALF	100	835125E+07	183512.500	7.52	
9H23034-CALG	200	502792E+07	175139.600	7.51	
AVE RF	192341.100	RF RSD	10.78	AVE RT	7.52

Chlordane 2

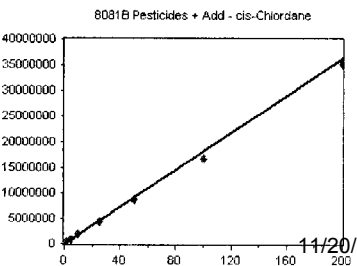
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CALH	50	1286655	25733.100	7.52	
9H23034-CALI	100	2519520	25195.200	7.52	
9H23034-CALJ	200	4906320	24531.600	7.52	
9H23034-CALK	500	217652E+07	24353.040	7.52	
9H23034-CALL	1000	508324E+07	25083.240	7.52	
9H23034-CALM	2000	097914E+07	25489.570	7.52	
AVE RF	25064.290	RF RSD	2.14	AVE RT	7.52

cis-Chlordane

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL1	1	209780	209780.000	7.53	
9H23034-CAL2	2	389999	194999.500	7.53	
9H23034-CAL3	5	908795	181759.000	7.53	
9H23034-CAL4	10	1843346	184334.600	7.53	
9H23034-CAL5	25	4244413	169776.500	7.53	
9H23034-CAL6	50	8622674	172453.500	7.52	
9H23034-CAL7	100	574258E+07	167425.800	7.52	
9H23034-CAL8	200	520794E+07	176039.700	7.52	
AVE RF	182071.700	RF RSD	7.88	AVE RT	7.53

Element Calibration Review Sheet

Calibration ID: **A9H2608**

Instrument: **DUALECD5**

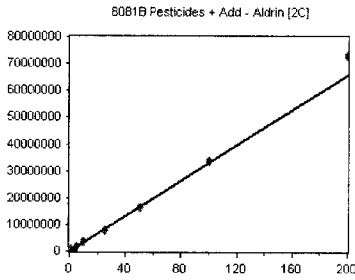
Calibration Date: **08/26/2019**

Analysis: **8081B Pesticides + Add**

Instrument Cal ID: **ECD5_QUANTPEST_19082**

Aldrin [2C]

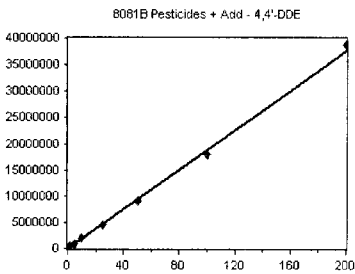
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL1	1	317466	317466.000	7.56	
9H23034-CAL2	2	635458	317729.000	7.56	
9H23034-CAL3	5	1600995	320199.000	7.56	
9H23034-CAL4	10	3341093	334109.300	7.56	
9H23034-CAL5	25	7878574	315143.000	7.56	
9H23034-CAL6	50	526442E+07	325288.400	7.56	
9H23034-CAL7	100	390642E+07	339064.200	7.56	
9H23034-CAL8	200	322818E+07	366140.900	7.55	
AVE RF	329392.500	RF RSD	5.19	AVE RT	7.56

4,4'-DDE

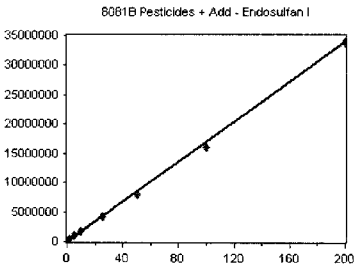
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL1	1	193435	193435.000	7.59	
9H23034-CAL2	2	388618	194309.000	7.59	
9H23034-CAL3	5	953351	190670.200	7.59	
9H23034-CAL4	10	1890931	189093.100	7.59	
9H23034-CAL5	25	4571066	182842.600	7.58	
9H23034-CAL6	50	9177389	183547.800	7.58	
9H23034-CAL7	100	805255E+07	180525.500	7.58	
9H23034-CAL8	200	876308E+07	193815.400	7.58	
AVE RF	188529.800	RF RSD	2.92	AVE RT	7.58

Endosulfan I

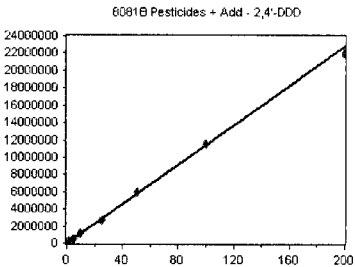
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL1	1	185217	185217.000	7.63	
9H23034-CAL2	2	357368	178684.000	7.63	
9H23034-CAL3	5	861509	172301.800	7.62	
9H23034-CAL4	10	1709332	170933.200	7.62	
9H23034-CAL5	25	4111285	164451.400	7.62	
9H23034-CAL6	50	7984410	159688.200	7.62	
9H23034-CAL7	100	1.609E+07	160900.000	7.62	
9H23034-CAL8	200	385259E+07	169263.000	7.62	
AVE RF	170179.800	RF RSD	5.13	AVE RT	7.62

2,4'-DDD

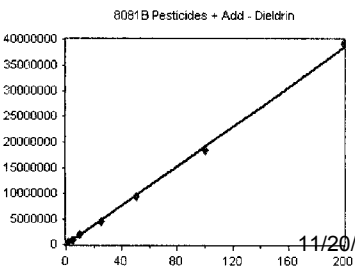
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL9	1	120240	120240.000	7.71	
9H23034-CALA	2	233089	116544.500	7.71	
9H23034-CALB	5	560942	112188.400	7.71	
9H23034-CALC	10	1103587	110358.700	7.71	
9H23034-CALD	25	2745178	109807.100	7.71	
9H23034-CALE	50	5920095	118401.900	7.71	
9H23034-CALF	100	158755E+07	115875.500	7.71	
9H23034-CALG	200	191696E+07	109584.800	7.70	
AVE RF	114125.100	RF RSD	3.65	AVE RT	7.71

Dieldrin

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL1	1	197721	197721.000	7.80	
9H23034-CAL2	2	395728	197864.000	7.80	
9H23034-CAL3	5	972009	194401.800	7.80	
9H23034-CAL4	10	1954890	195489.000	7.80	
9H23034-CAL5	25	4582306	183292.200	7.79	
9H23034-CAL6	50	9386664	187733.300	7.79	
9H23034-CAL7	100	832442E+07	183244.200	7.79	
9H23034-CAL8	200	921777E+07	196088.800	7.79	
AVE RF	191976.300	RF RSD	3.22	AVE RT	7.79

Element Calibration Review Sheet

Calibration ID: **A9H2608**

Instrument: **DUALECD5**

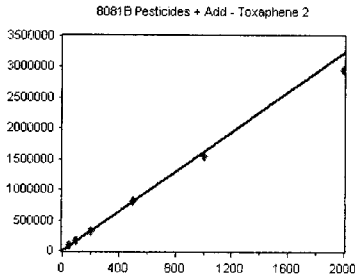
Calibration Date: **08/26/2019**

Analysis: **8081B Pesticides + Add**

Instrument Cal ID: **ECD5_QUANTPEST_19082**

Toxaphene 2

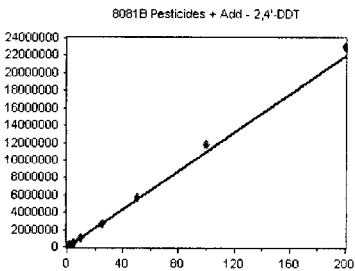
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
9H23034-CALN	50	88321	1766.420	7.79
9H23034-CALO	100	166085	1660.850	7.80
9H23034-CALP	200	317587	1587.935	7.80
9H23034-CALQ	500	819454	1638.908	7.79
9H23034-CALR	1000	1556013	1556.013	7.79
9H23034-CALS	2000	2958997	1479.499	7.79
AVE RF		1614.937	RF RSD	6.08
			AVE RT	7.79

2,4'-DDT

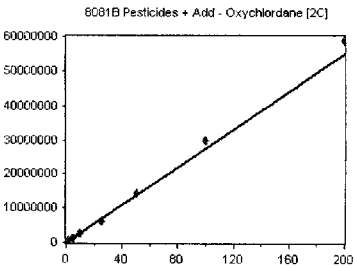
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
9H23034-CAL9	1	107110	107110.000	7.89
9H23034-CALA	2	204209	102104.500	7.89
9H23034-CALB	5	536967	107393.400	7.89
9H23034-CALC	10	1051565	105156.500	7.89
9H23034-CALD	25	2728794	109151.800	7.89
9H23034-CALE	50	5687323	113746.500	7.89
9H23034-CALF	100	177135E+07	117713.500	7.89
9H23034-CALG	200	302496E+07	115124.800	7.89
AVE RF		109687.600	RF RSD	4.88
			AVE RT	7.89

Oxychlorane [2C]

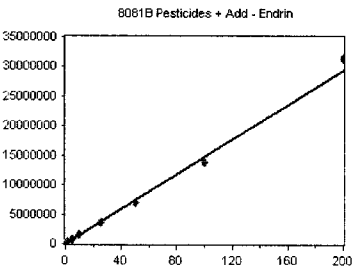
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
9H23034-CAL9	1	279143	279143.000	7.92
9H23034-CALA	2	541023	270511.500	7.92
9H23034-CALB	5	1325543	265108.600	7.92
9H23034-CALC	10	2538903	253890.300	7.92
9H23034-CALD	25	6202791	248111.600	7.92
9H23034-CALE	50	417254E+07	283450.800	7.92
9H23034-CALF	100	973215E+07	297321.500	7.92
9H23034-CALG	200	873698E+07	293684.900	7.92
AVE RF		273902.800	RF RSD	6.49
			AVE RT	7.92

Endrin

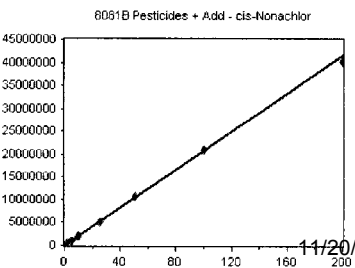
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
9H23034-CAL1	1	156412	156412.000	7.96
9H23034-CAL2	2	298515	149257.500	7.96
9H23034-CAL3	5	738953	147790.600	7.96
9H23034-CAL4	10	1475508	147550.800	7.96
9H23034-CAL5	25	3508904	140356.200	7.96
9H23034-CAL6	50	6979572	139591.400	7.96
9H23034-CAL7	100	381271E+07	138127.100	7.96
9H23034-CAL8	200	142631E+07	157131.500	7.96
AVE RF		147027.100	RF RSD	4.98
			AVE RT	7.96

cis-Nonachlor

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
9H23034-CAL9	1	219220	219220.000	7.99
9H23034-CALA	2	423442	211721.000	7.99
9H23034-CALB	5	1025899	205179.800	7.99
9H23034-CALC	10	2032010	203201.000	7.99
9H23034-CALD	25	4993110	199724.400	7.99
9H23034-CALE	50	061602E+07	212320.400	7.99
9H23034-CALF	100	093264E+07	209326.400	7.99
9H23034-CALG	200	004618E+07	200230.900	7.98
AVE RF		207615.600	RF RSD	7.99
			AVE RT	7.99

Element Calibration Review Sheet

Calibration ID: **A9H2608**

Instrument: **DUALECD5**

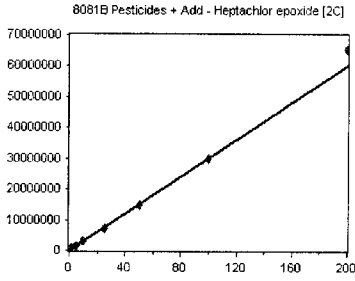
Calibration Date: **08/26/2019**

Analysis: **8081B Pesticides + Add**

Instrument Cal ID: **ECD5_QUANTPEST_19082**

Heptachlor epoxide [2C]

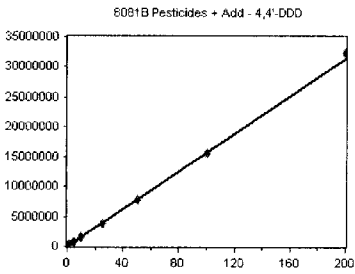
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL1	1	310098	310098.000	7.99	
9H23034-CAL2	2	606240	303120.000	7.99	
9H23034-CAL3	5	1455941	291188.200	7.99	
9H23034-CAL4	10	2959301	295930.100	7.99	
9H23034-CAL5	25	7064729	282589.200	7.99	
9H23034-CAL6	50	483779E+07	296755.800	7.99	
9H23034-CAL7	100	004551E+07	300455.100	7.99	
9H23034-CAL8	200	533007E+07	326650.400	7.99	
AVE RF	300848.300	RF RSD	4.40	AVE RT	7.99

4,4'-DDD

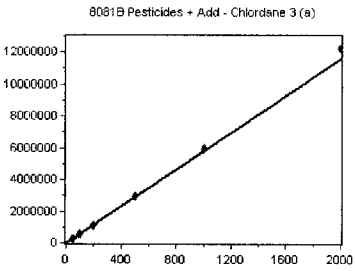
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL1	1	164956	164956.000	8.01	
9H23034-CAL2	2	314622	157311.000	8.01	
9H23034-CAL3	5	790498	158099.600	8.01	
9H23034-CAL4	10	1565974	156597.400	8.01	
9H23034-CAL5	25	3727035	149081.400	8.00	
9H23034-CAL6	50	7726197	154523.900	8.00	
9H23034-CAL7	100	543715E+07	154371.500	8.00	
9H23034-CAL8	200	1.24368E+07	162184.000	8.00	
AVE RF	157140.600	RF RSD	3.11	AVE RT	8.00

Chlordane 3 (a)

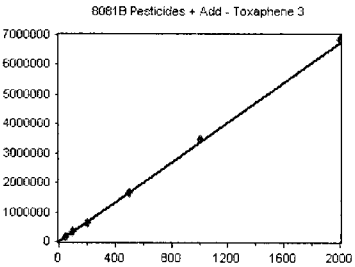
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CALH	50	288087	5761.740	8.07	
9H23034-CALI	100	548196	5481.960	8.07	
9H23034-CALJ	200	1101677	5508.385	8.07	
9H23034-CALK	500	2921278	5842.556	8.07	
9H23034-CALL	1000	5987927	5987.927	8.07	
9H23034-CALM	2000	220831E+07	6104.155	8.07	
AVE RF	5781.121	RF RSD	4.34	AVE RT	8.07

Toxaphene 3

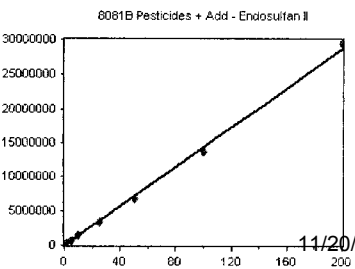
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CALN	50	169381	3387.620	8.11	
9H23034-CALO	100	332842	3328.420	8.11	
9H23034-CALP	200	644464	3222.320	8.11	
9H23034-CALQ	500	1677481	3354.962	8.11	
9H23034-CALR	1000	3495877	3495.877	8.11	
9H23034-CALS	2000	6831460	3415.730	8.10	
AVE RF	3367.488	RF RSD	2.72	AVE RT	8.11

Endosulfan II

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL1	1	158139	158139.000	8.12	
9H23034-CAL2	2	299106	149553.000	8.12	
9H23034-CAL3	5	709544	141908.800	8.12	
9H23034-CAL4	10	1448080	144808.000	8.12	
9H23034-CAL5	25	3371864	134874.600	8.12	
9H23034-CAL6	50	6840920	136818.400	8.11	
9H23034-CAL7	100	.35435E+07	135435.000	8.11	
9H23034-CAL8	200	947104E+07	147355.200	8.11	
AVE RF	143611.500	RF RSD	3.81	AVE RT	8.12

Element Calibration Review Sheet

Calibration ID: **A9H2608**

Instrument: **DUALECD5**

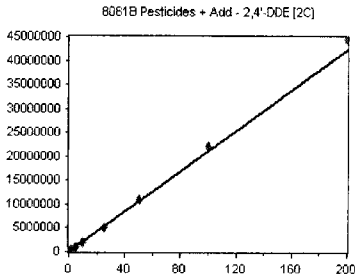
Calibration Date: **08/26/2019**

Analysis: **8081B Pesticides + Add**

Instrument Cal ID: **ECD5_QUANTPEST_19082**

2,4'-DDE [2C]

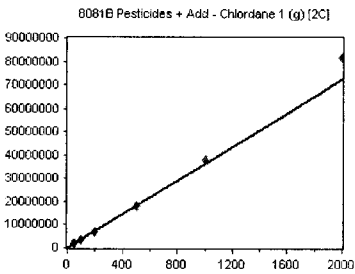
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL9	1	219164	219164.000	8.12	
9H23034-CALA	2	411812	205906.000	8.12	
9H23034-CALB	5	1029687	205937.400	8.12	
9H23034-CALC	10	2018331	201833.100	8.12	
9H23034-CALD	25	4999232	199969.300	8.12	
9H23034-CALE	50	10064E+07	220128.000	8.12	
9H23034-CALF	100	21644E+07	221644.000	8.12	
9H23034-CALG	200	450459E+07	222523.000	8.12	
AVE RF	212138.100	RF RSD	4.52	AVE RT	8.12

Chlordane 1 (g) [2C]

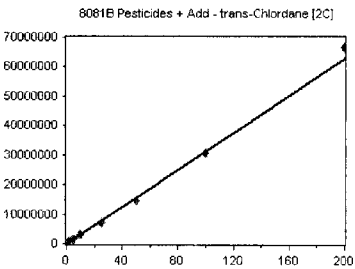
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CALH	50	1754707	35094.140	8.13	
9H23034-CALI	100	3378388	33783.880	8.13	
9H23034-CALJ	200	6751197	33755.980	8.13	
9H23034-CALK	500	783043E+07	35660.860	8.13	
9H23034-CALL	1000	796674E+07	37966.740	8.13	
9H23034-CALM	2000	169171E+07	40845.860	8.13	
AVE RF	36184.580	RF RSD	7.62	AVE RT	8.13

trans-Chlordane [2C]

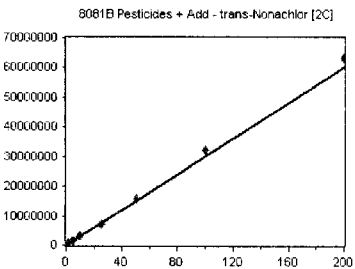
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL1	1	364142	364142.000	8.14	
9H23034-CAL2	2	644454	322227.000	8.14	
9H23034-CAL3	5	1502119	300423.800	8.13	
9H23034-CAL4	10	3002782	300278.200	8.13	
9H23034-CAL5	25	7157480	286299.200	8.13	
9H23034-CAL6	50	467872E+07	293574.400	8.13	
9H23034-CAL7	100	074227E+07	307422.700	8.13	
9H23034-CAL8	200	644797E+07	332239.800	8.13	
AVE RF	313325.900	RF RSD	8.10	AVE RT	8.13

trans-Nonachlor [2C]

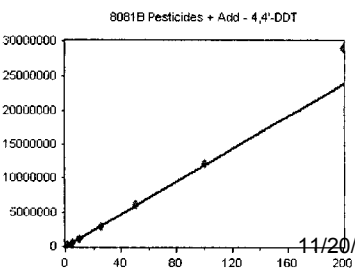
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL9	1	306202	306202.000	8.20	
9H23034-CALA	2	587765	293882.500	8.19	
9H23034-CALB	5	1467723	293544.600	8.19	
9H23034-CALC	10	2844404	284440.400	8.19	
9H23034-CALD	25	7092288	283691.500	8.19	
9H23034-CALE	50	580771E+07	316154.200	8.19	
9H23034-CALF	100	197527E+07	319752.700	8.20	
9H23034-CALG	200	308364E+07	315418.200	8.19	
AVE RF	301635.800	RF RSD	4.84	AVE RT	8.19

4,4'-DDT

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL1	1	113897	113897.000	8.21	
9H23034-CAL2	2	218190	109095.000	8.20	
9H23034-CAL3	5	553009	110601.800	8.21	
9H23034-CAL4	10	1146556	114655.600	8.20	
9H23034-CAL5	25	2924467	116978.700	8.20	
9H23034-CAL6	50	6205369	124107.400	8.20	
9H23034-CAL7	100	217696E+07	121769.600	8.20	
9H23034-CAL8	200	907522E+07	145376.100	8.20	
AVE RF	119560.700	RF RSD	9.72	AVE RT	8.20

Element Calibration Review Sheet

Calibration ID: **A9H2608**

Instrument: **DUALECD5**

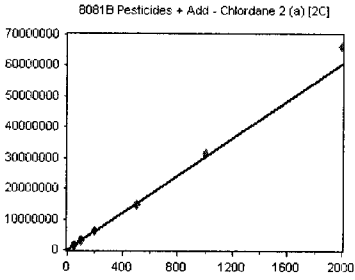
Calibration Date: **08/26/2019**

Analysis: **8081B Pesticides + Add**

Instrument Cal ID: **ECD5_QUANTPEST_19082**

Chlordane 2 (a) [2C]

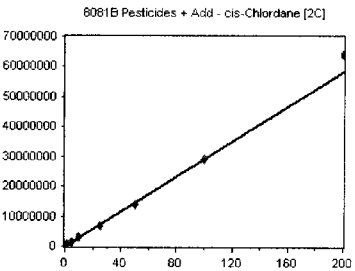
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CALH	50	1472400	29448.000	8.24	
9H23034-CALI	100	2905941	29059.410	8.24	
9H23034-CALJ	200	5883615	29418.070	8.24	
9H23034-CALK	500	481227E+07	29624.540	8.24	
9H23034-CALL	1000	149368E+07	31493.680	8.24	
9H23034-CALM	2000	528139E+07	33140.700	8.24	
AVE RF	30364.070	RF RSD	5.30	AVE RT	8.24

cis-Chlordane [2C]

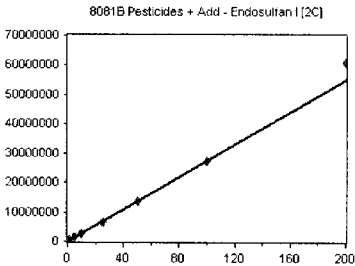
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL1	1	299422	299422.000	8.24	
9H23034-CAL2	2	579667	289833.500	8.24	
9H23034-CAL3	5	1434855	286971.000	8.24	
9H23034-CAL4	10	2859573	285957.300	8.24	
9H23034-CAL5	25	6935857	277434.300	8.24	
9H23034-CAL6	50	400212E+07	280042.400	8.24	
9H23034-CAL7	100	904286E+07	290428.600	8.24	
9H23034-CAL8	200	397706E+07	319885.300	8.24	
AVE RF	291246.800	RF RSD	4.59	AVE RT	8.24

Endosulfan I [2C]

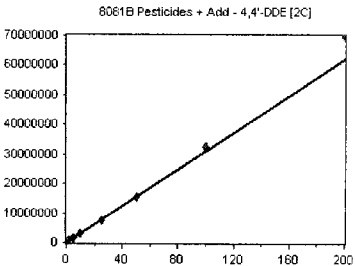
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL1	1	278874	278874.000	8.29	
9H23034-CAL2	2	540442	270221.000	8.29	
9H23034-CAL3	5	1327191	265438.200	8.29	
9H23034-CAL4	10	2724272	272427.200	8.29	
9H23034-CAL5	25	6571512	262860.500	8.29	
9H23034-CAL6	50	371233E+07	274246.600	8.29	
9H23034-CAL7	100	721271E+07	272127.100	8.29	
9H23034-CAL8	200	104351E+07	305217.600	8.29	
AVE RF	275176.500	RF RSD	4.77	AVE RT	8.29

4,4'-DDE [2C]

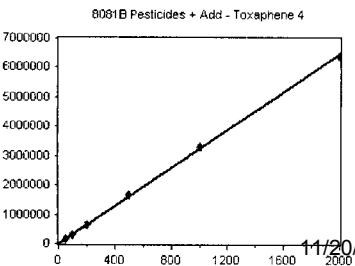
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL1	1	298463	298463.000	8.35	
9H23034-CAL2	2	598066	299033.000	8.35	
9H23034-CAL3	5	1487999	297599.800	8.35	
9H23034-CAL4	10	3049792	304979.200	8.35	
9H23034-CAL5	25	7501047	300041.900	8.34	
9H23034-CAL6	50	555471E+07	311094.200	8.34	
9H23034-CAL7	100	1.24996E+07	324996.000	8.34	
9H23034-CAL8	200	984235E+07	349211.800	8.34	
AVE RF	310677.400	RF RSD	5.82	AVE RT	8.34

Toxaphene 4

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CALN	50	164317	3286.340	8.35	
9H23034-CALO	100	320313	3203.130	8.35	
9H23034-CALP	200	632351	3161.755	8.35	
9H23034-CALQ	500	1649569	3299.138	8.35	
9H23034-CALR	1000	3287014	3287.014	8.35	
9H23034-CALS	2000	6407070	3203.535	8.35	
AVE RF	3201162	RF RSD	4.11	AVE RT	8.35

Element Calibration Review Sheet

Calibration ID: **A9H2608**

Instrument: **DUALECD5**

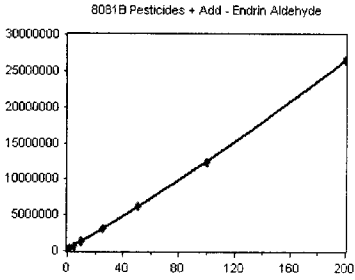
Calibration Date: **08/26/2019**

Analysis: **8081B Pesticides + Add**

Instrument Cal ID: **ECD5_QUANTPEST_19082**

Endrin Aldehyde

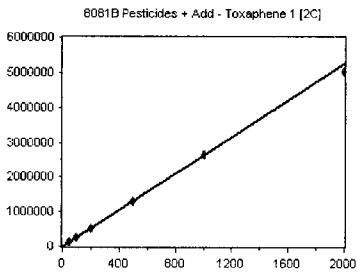
Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL1	1	241285	241285.000	8.41	
9H23034-CAL2	2	328182	164091.000	8.41	
9H23034-CAL3	5	683393	136678.600	8.41	
9H23034-CAL4	10	1375129	137512.900	8.41	
9H23034-CAL5	25	3119767	124790.700	8.40	
9H23034-CAL6	50	6224451	124489.000	8.40	
9H23034-CAL7	100	236381E+07	123638.100	8.40	
9H23034-CAL8	200	562767E+07	133138.300	8.40	
AVE RF	148203.000	RF RSD	26.87	AVE RT	8.41

Toxaphene 1 [2C]

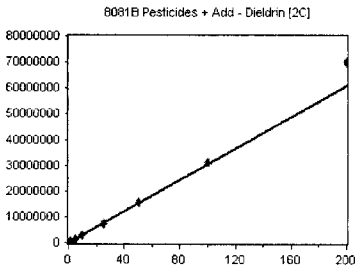
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CALN	50	136848	2736.960	8.47	
9H23034-CALO	100	267534	2675.340	8.47	
9H23034-CALP	200	508983	2544.915	8.47	
9H23034-CALQ	500	1308994	2617.988	8.47	
9H23034-CALR	1000	2654886	2654.886	8.47	
9H23034-CALS	2000	5030917	2515.458	8.47	
AVE RF	2624.258	RF RSD	3.16	AVE RT	8.47

Dieldrin [2C]

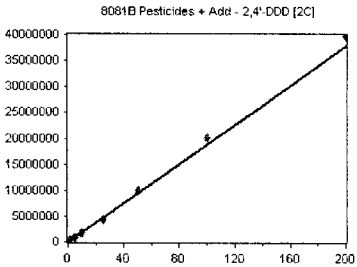
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL1	1	296684	296684.000	8.49	
9H23034-CAL2	2	583812	291906.000	8.49	
9H23034-CAL3	5	1462538	292507.600	8.49	
9H23034-CAL4	10	2898866	289886.600	8.49	
9H23034-CAL5	25	7333890	293355.600	8.49	
9H23034-CAL6	50	543411E+07	308682.200	8.49	
9H23034-CAL7	100	100196E+07	310019.600	8.49	
9H23034-CAL8	200	003178E+07	350158.900	8.49	
AVE RF	304150.100	RF RSD	6.61	AVE RT	8.49

2,4'-DDD [2C]

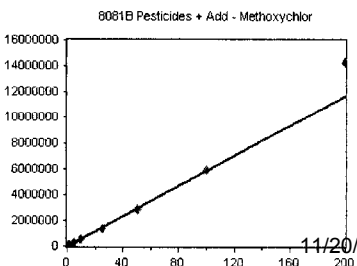
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL9	1	192040	192040.000	8.50	
9H23034-CALA	2	373596	186798.000	8.50	
9H23034-CALB	5	898697	179739.400	8.50	
9H23034-CALC	10	1778790	177879.000	8.50	
9H23034-CALD	25	4389185	175567.400	8.50	
9H23034-CALE	50	9924934	198498.700	8.50	
9H23034-CALF	100	011892E+07	201189.200	8.50	
9H23034-CALG	200	198393E+07	199196.500	8.49	
AVE RF	188863.500	RF RSD	5.47	AVE RT	8.50

Methoxychlor

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL1	1	59659	59659.000	8.54	
9H23034-CAL2	2	111466	55733.000	8.54	
9H23034-CAL3	5	270388	54077.600	8.54	
9H23034-CAL4	10	561706	56170.600	8.54	
9H23034-CAL5	25	1390283	55611.320	8.54	
9H23034-CAL6	50	2860683	57213.660	8.54	
9H23034-CAL7	100	5877329	58773.290	8.54	
9H23034-CAL8	200	427114E+07	71355.700	8.54	
AVE RF	58874.970	RF RSD	9.13	AVE RT	8.54

Element Calibration Review Sheet

Calibration ID: **A9H2608**

Instrument: **DUALECD5**

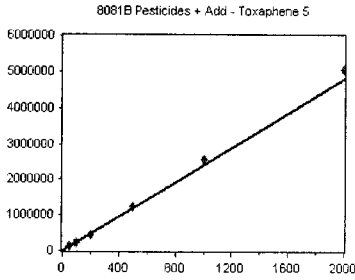
Calibration Date: **08/26/2019**

Analysis: **8081B Pesticides + Add**

Instrument Cal ID: **ECD5_QUANTPEST_19082**

Toxaphene 5

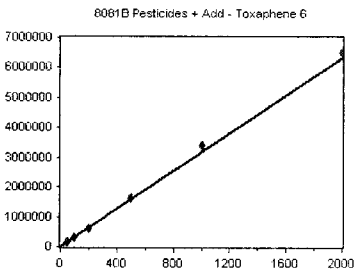
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
9H23034-CALN	50	114720	2294.400	8.57
9H23034-CALO	100	228960	2289.600	8.57
9H23034-CALP	200	454431	2272.155	8.57
9H23034-CALQ	500	1221560	2443.120	8.57
9H23034-CALR	1000	2546293	2546.293	8.57
9H23034-CALS	2000	5074570	2537.285	8.57
AVE RF		2397.142	RF RSD	5.33
			AVE RT	8.57

Toxaphene 6

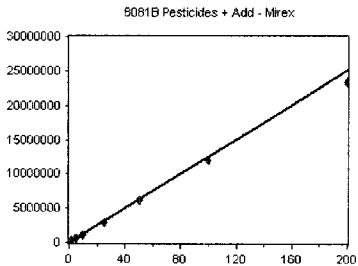
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
9H23034-CALN	50	153138	3062.760	8.64
9H23034-CALO	100	302577	3025.770	8.64
9H23034-CALP	200	597991	2989.955	8.64
9H23034-CALQ	500	1623402	3246.804	8.64
9H23034-CALR	1000	3406737	3406.737	8.64
9H23034-CALS	2000	6510950	3255.475	8.64
AVE RF		3164.584	RF RSD	5.17
			AVE RT	8.64

Mirex

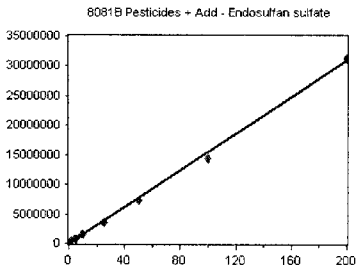
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
9H23034-CAL9	1	147356	147356.000	8.66
9H23034-CALA	2	266770	133385.000	8.66
9H23034-CALB	5	628618	125723.600	8.65
9H23034-CALC	10	1196365	119636.500	8.65
9H23034-CALD	25	2910818	116432.700	8.65
9H23034-CALE	50	6218341	124366.800	8.65
9H23034-CALF	100	196075E+07	119607.500	8.65
9H23034-CALG	200	2.3285E+07	116425.000	8.65
AVE RF		125366.600	RF RSD	8.39
			AVE RT	8.65

Endosulfan sulfate

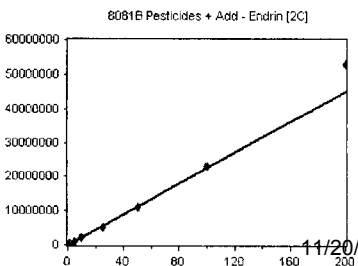
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
9H23034-CAL1	1	176097	176097.000	8.71
9H23034-CAL2	2	322163	161081.500	8.71
9H23034-CAL3	5	768798	153759.600	8.71
9H23034-CAL4	10	1553540	155354.000	8.71
9H23034-CAL5	25	3645411	145816.400	8.71
9H23034-CAL6	50	7420576	148411.500	8.71
9H23034-CAL7	100	436679E+07	143667.900	8.70
9H23034-CAL8	200	112652E+07	155632.600	8.70
AVE RF		154977.600	RF RSD	6.64
			AVE RT	8.71

Endrin [2C]

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
9H23034-CAL1	1	222882	222882.000	8.72
9H23034-CAL2	2	424889	212444.500	8.72
9H23034-CAL3	5	1092877	218575.400	8.72
9H23034-CAL4	10	2244483	224448.300	8.72
9H23034-CAL5	25	5325883	213035.300	8.72
9H23034-CAL6	50	101538E+07	220307.600	8.72
9H23034-CAL7	100	310241E+07	231024.100	8.72
9H23034-CAL8	200	277958E+07	263897.900	8.72
AVE RF		228266.900	RF RSD	7.17
			AVE RT	8.72

Element Calibration Review Sheet

Calibration ID: **A9H2608**

Instrument: **DUALECD5**

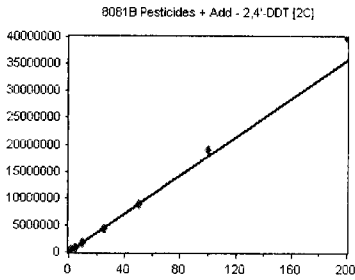
Calibration Date: **08/26/2019**

Analysis: **8081B Pesticides + Add**

Instrument Cal ID: **ECD5_QUANTPEST_19082**

2,4'-DDT [2C]

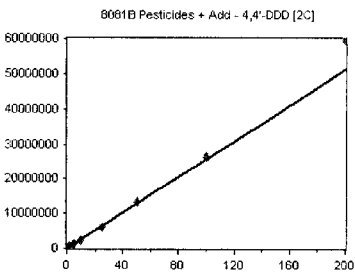
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL9	1	173338	173338.000	8.72	
9H23034-CALA	2	332170	166085.000	8.72	
9H23034-CALB	5	873074	174614.800	8.72	
9H23034-CALC	10	1702568	170256.800	8.72	
9H23034-CALD	25	4405554	176222.200	8.72	
9H23034-CALE	50	8810591	176211.800	8.72	
9H23034-CALF	100	899897E+07	189989.700	8.72	
9H23034-CALG	200	999923E+07	199996.200	8.72	
AVE RF	178339.300	RF RSD	6.24	AVE RT	8.72

4,4'-DDD [2C]

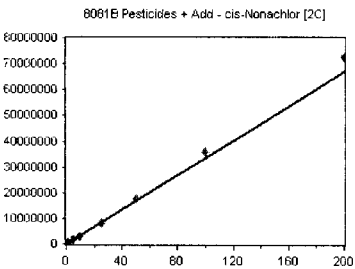
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL1	1	251549	251549.000	8.76	
9H23034-CAL2	2	488120	244060.000	8.76	
9H23034-CAL3	5	1208642	241728.400	8.76	
9H23034-CAL4	10	2425496	242549.600	8.76	
9H23034-CAL5	25	6146469	245858.800	8.76	
9H23034-CAL6	50	315945E+07	263189.000	8.76	
9H23034-CAL7	100	629748E+07	262974.800	8.76	
9H23034-CAL8	200	956027E+07	297801.400	8.76	
AVE RF	256213.900	RF RSD	7.37	AVE RT	8.76

cis-Nonachlor [2C]

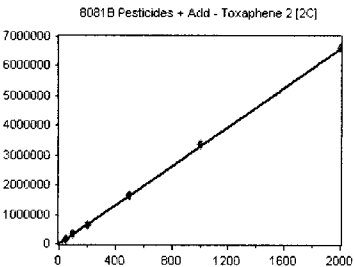
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL9	1	332745	332745.000	8.76	
9H23034-CALA	2	624783	312391.500	8.76	
9H23034-CALB	5	1587243	317448.600	8.76	
9H23034-CALC	10	3148054	314805.400	8.76	
9H23034-CALD	25	8219393	328775.700	8.76	
9H23034-CALE	50	772123E+07	354424.600	8.76	
9H23034-CALF	100	507264E+07	360726.400	8.76	
9H23034-CALG	200	245582E+07	362279.100	8.76	
AVE RF	335449.500	RF RSD	6.23	AVE RT	8.76

Toxaphene 2 [2C]

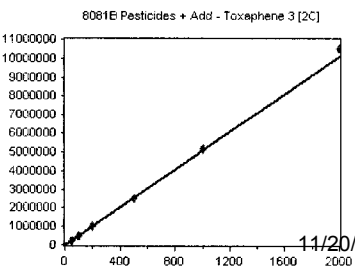
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CALN	50	164706	3294.120	8.81	
9H23034-CALO	100	324070	3240.700	8.81	
9H23034-CALP	200	645322	3226.610	8.81	
9H23034-CALQ	500	1647741	3295.482	8.81	
9H23034-CALR	1000	3384036	3384.036	8.81	
9H23034-CALS	2000	6610397	3305.198	8.81	
AVE RF	3291.024	RF RSD	1.70	AVE RT	8.81

Toxaphene 3 [2C]

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CALN	50	254833	5096.660	8.85	
9H23034-CALO	100	494430	4944.300	8.85	
9H23034-CALP	200	995555	4977.775	8.85	
9H23034-CALQ	500	2475022	4950.044	8.85	
9H23034-CALR	1000	5168269	5168.269	8.85	
9H23034-CALS	2000	054571E+07	5272.855	8.85	
AVE RF	5088.377	RF RSD	2.08	AVE RT	8.85

Element Calibration Review Sheet

Calibration ID: **A9H2608**

Instrument: **DUALECD5**

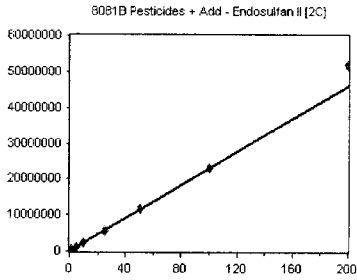
Calibration Date: **08/26/2019**

Analysis: **8081B Pesticides + Add**

Instrument Cal ID: **ECD5_QUANTPEST_19082**

Endosulfan II [2C]

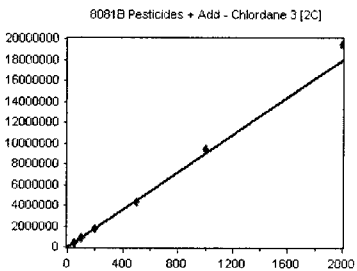
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL1	1	232156	232156.000	8.87	
9H23034-CAL2	2	462256	231128.000	8.86	
9H23034-CAL3	5	1096359	219271.800	8.87	
9H23034-CAL4	10	2243610	224361.000	8.86	
9H23034-CAL5	25	5447602	217904.100	8.86	
9H23034-CAL6	50	153453E+07	230690.600	8.86	
9H23034-CAL7	100	301637E+07	230163.700	8.86	
9H23034-CAL8	200	183489E+07	259174.400	8.86	
AVE RF	230606.200	RF RSD	5.55	AVE RT	8.86

Chlordane 3 [2C]

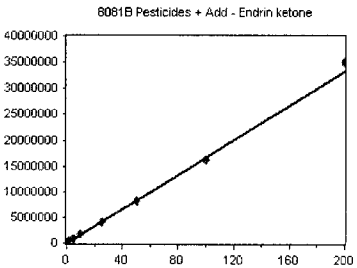
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CALH	50	439020	8780.400	8.90	
9H23034-CALI	100	874465	8744.650	8.90	
9H23034-CALJ	200	1731727	8658.635	8.90	
9H23034-CALK	500	4271709	8543.418	8.90	
9H23034-CALL	1000	9358900	9358.900	8.90	
9H23034-CALM	2000	941852E+07	9709.260	8.90	
AVE RF	8965.877	RF RSD	5.14	AVE RT	8.90

Endrin ketone

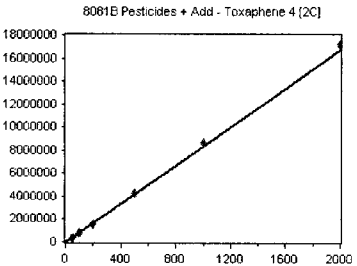
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL1	1	177552	177552.000	8.90	
9H23034-CAL2	2	331269	165634.500	8.90	
9H23034-CAL3	5	811384	162276.800	8.90	
9H23034-CAL4	10	1664380	166438.000	8.90	
9H23034-CAL5	25	4008958	160358.300	8.90	
9H23034-CAL6	50	8190707	163814.100	8.90	
9H23034-CAL7	100	525194E+07	162519.400	8.90	
9H23034-CAL8	200	509472E+07	175473.600	8.90	
AVE RF	166758.300	RF RSD	3.80	AVE RT	8.90

Toxaphene 4 [2C]

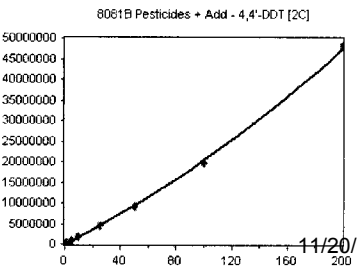
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CALN	50	416348	8326.960	8.92	
9H23034-CALO	100	811948	8119.480	8.92	
9H23034-CALP	200	1580436	7902.180	8.91	
9H23034-CALQ	500	4252640	8505.280	8.92	
9H23034-CALR	1000	8650068	8650.068	8.92	
9H23034-CALS	2000	719004E+07	8595.020	8.91	
AVE RF	8349.831	RF RSD	3.51	AVE RT	8.91

4,4'-DDT [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL1	1	179700	179700.000	8.99	
9H23034-CAL2	2	341782	170891.000	8.99	
9H23034-CAL3	5	873653	174730.600	8.99	
9H23034-CAL4	10	1841119	184111.900	8.99	
9H23034-CAL5	25	4480388	179215.500	8.98	
9H23034-CAL6	50	9285492	185709.800	8.99	
9H23034-CAL7	100	97895E+07	197895.000	8.98	
9H23034-CAL8	200	820344E+07	241017.200	8.98	
AVE RF	189156.900	RF RSD	4.88	AVE RT	8.99

Element Calibration Review Sheet

Calibration ID: **A9H2608**

Instrument: **DUALECD5**

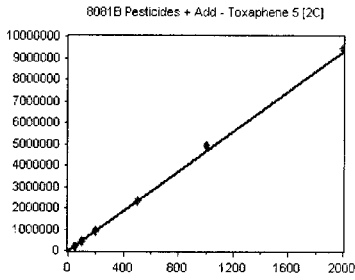
Calibration Date: **08/26/2019**

Analysis: **8081B Pesticides + Add**

Instrument Cal ID: **ECD5_QUANTPEST_19082**

Toxaphene 5 [2C]

Curve Fit: **AVERAGE RF**

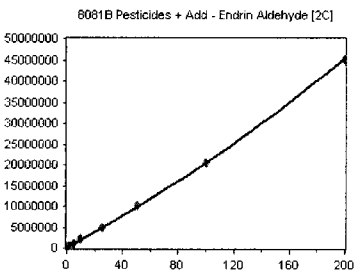


Standard	Concentration	Response	Response Factor	RT
9H23034-CALN	50	233185	4663.700	9.09
9H23034-CALO	100	452209	4522.090	9.09
9H23034-CALP	200	895397	4476.985	9.09
9H23034-CALQ	500	2340668	4681.336	9.09
9H23034-CALR	1000	4900430	4900.430	9.09
9H23034-CALS	2000	9435236	4717.618	9.09

AVE RF 4660.360 RF RSD 3.24 AVE RT 9.09

Endrin Aldehyde [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

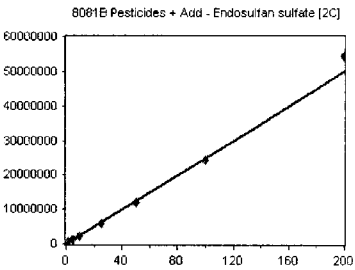


Standard	Concentration	Response	Response Factor	RT
9H23034-CAL1	1	348624	348624.000	9.10
9H23034-CAL2	2	477694	238847.000	9.10
9H23034-CAL3	5	1045869	209173.800	9.10
9H23034-CAL4	10	2125028	212502.800	9.10
9H23034-CAL5	25	4848504	193940.200	9.10
9H23034-CAL6	50	020903E+07	204180.600	9.10
9H23034-CAL7	100	050274E+07	205027.400	9.10
9H23034-CAL8	200	508454E+07	225422.700	9.10

AVE RF 229714.800 RF RSD 21.77 AVE RT 9.10

Endosulfan sulfate [2C]

Curve Fit: **AVERAGE RF**

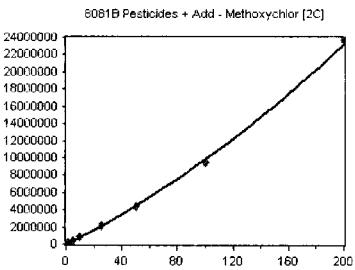


Standard	Concentration	Response	Response Factor	RT
9H23034-CAL1	1	265797	265797.000	9.29
9H23034-CAL2	2	498767	249383.500	9.29
9H23034-CAL3	5	1175908	235181.600	9.29
9H23034-CAL4	10	2424584	242458.400	9.29
9H23034-CAL5	25	5978906	239156.200	9.29
9H23034-CAL6	50	214929E+07	242985.800	9.29
9H23034-CAL7	100	447732E+07	244773.200	9.29
9H23034-CAL8	200	459279E+07	272964.000	9.29

AVE RF 249087.500 RF RSD 5.35 AVE RT 9.29

Methoxychlor [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

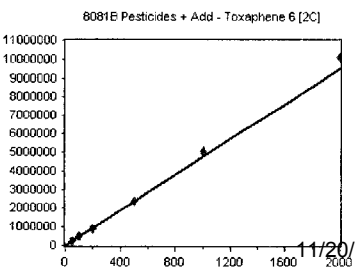


Standard	Concentration	Response	Response Factor	RT
9H23034-CAL1	1	95155	95155.000	9.47
9H23034-CAL2	2	178074	89037.000	9.47
9H23034-CAL3	5	413802	82760.400	9.47
9H23034-CAL4	10	883069	88306.900	9.47
9H23034-CAL5	25	2166659	86666.360	9.46
9H23034-CAL6	50	4346199	86923.980	9.46
9H23034-CAL7	100	9444987	94449.870	9.46
9H23034-CAL8	200	1.37141E+07	118570.500	9.46

AVE RF 92733.750 RF RSD 12.09 AVE RT 9.46

Toxaphene 6 [2C]

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
9H23034-CALN	50	230922	4618.440	9.47
9H23034-CALO	100	452485	4524.850	9.47
9H23034-CALP	200	905244	4526.220	9.47
9H23034-CALQ	500	2369795	4739.590	9.47
9H23034-CALR	1000	5046645	5046.645	9.47
9H23034-CALS	2000	009095E+07	5045.475	9.47

AVE RF 4618.440 RF RSD 0.00 AVE RT 9.47

Element Calibration Review Sheet

Calibration ID: **A9H2608**

Instrument: **DUALECD5**

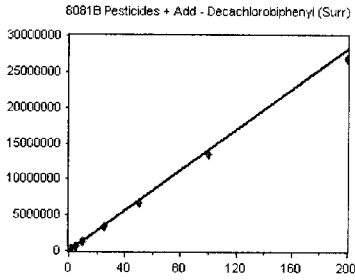
Calibration Date: **08/26/2019**

Analysis: **8081B Pesticides + Add**

Instrument Cal ID: **ECD5_QUANTPEST_19082**

Decachlorobiphenyl (Surr)

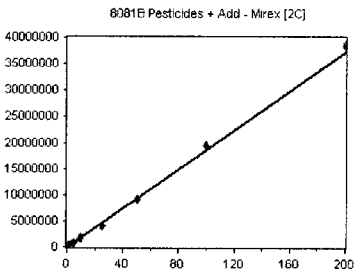
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL1	1	163865	163865.000	9.59	
9H23034-CAL2	2	309904	154952.000	9.59	
9H23034-CAL3	5	701050	140210.000	9.59	
9H23034-CAL4	10	1335468	133546.800	9.59	
9H23034-CAL5	25	3342634	133705.400	9.59	
9H23034-CAL6	50	6678990	133579.800	9.59	
9H23034-CAL7	100	.34054E+07	134054.000	9.59	
9H23034-CAL8	200	697523E+07	134876.200	9.59	
AVE RF	141098.600	RF RSD	8.33	AVE RT	9.59

Mirex [2C]

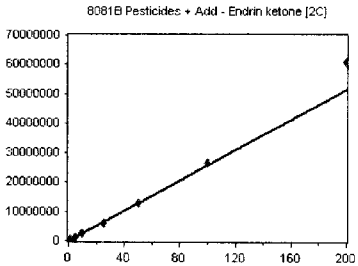
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL9	1	209783	209783.000	9.68	
9H23034-CALA	2	388199	194099.500	9.68	
9H23034-CALB	5	895523	179104.600	9.68	
9H23034-CALC	10	1722960	172296.000	9.68	
9H23034-CALD	25	4138115	165524.600	9.68	
9H23034-CALE	50	9100959	182019.200	9.68	
9H23034-CALF	100	.93632E+07	193632.000	9.68	
9H23034-CALG	200	842553E+07	192127.600	9.68	
AVE RF	186073.300	RF RSD	7.59	AVE RT	9.68

Endrin ketone [2C]

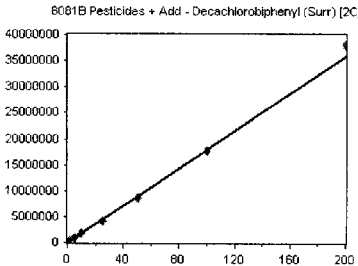
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL1	1	255763	255763.000	9.69	
9H23034-CAL2	2	493110	246555.000	9.69	
9H23034-CAL3	5	1205004	241000.800	9.69	
9H23034-CAL4	10	2496985	249698.500	9.69	
9H23034-CAL5	25	5893691	235747.600	9.69	
9H23034-CAL6	50	295457E+07	259091.400	9.69	
9H23034-CAL7	100	563656E+07	266365.600	9.69	
9H23034-CAL8	200	086138E+07	304306.900	9.69	
AVE RF	257316.100	RF RSD	8.31	AVE RT	9.69

Decachlorobiphenyl (Surr) [2C]

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL1	1	191572	191572.000	10.54	
9H23034-CAL2	2	390006	195003.000	10.54	
9H23034-CAL3	5	870921	174184.200	10.54	
9H23034-CAL4	10	1678728	167872.800	10.54	
9H23034-CAL5	25	4163229	166529.200	10.54	
9H23034-CAL6	50	8730692	174613.800	10.54	
9H23034-CAL7	100	778407E+07	177840.700	10.54	
9H23034-CAL8	200	809778E+07	190488.900	10.54	
AVE RF	179763.100	RF RSD	6.18	AVE RT	10.54

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 9H23034

Analysis Included

1311/8081B TCLP Pest Reg List
1311/8081B TCLP Pest Reg List +ADD
1311/8081B TCLP Pesticides (All)
1311/8081B TCLP Pesticides + Add (All)
1312/8081B SPLP Pesticides
608 Additional Only (QC)
608 Pest (Chlordane)
608 Pesticides
608 Pesticides (DDT Only)
608 Pesticides (SW)
608 Pesticides (SW) Full List
608 Pesticides (TTO)
608 Pesticides + Adds
608.3 Additional - DEVELOPMENT
608.3 Chlordane - DEVELOPMENT
608.3 PCBs - DEVELOPMENT
608.3 Pesticides - DEVELOPMENT
608.3 Pesticides + Adds - DEVELOPMENT
608.3 Toxaphene - DEVELOPMENT
8081B Pesticides
8081B 2,4+4,4-DDx Only (+Add)
8081B Chlordane
8081B DDT Only
8081B Pesticides + Add
8081B RSET FW Sed (+Add) (2016)
8081B RSET Sediment List (+Add)
8081B RSET Sediment Marine (2016) (+Add)
8081B Toxaphene

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 9H23034

INSTRUMENT SEQUENCE LOG

SampleID	SampleName	Matrix	STDID	ISTD_ID	Analyzed
9H23034-ICB1	Initial Cal Blank	Water	A19H348		8/23/2019 1:33:00PM
9H23034-CAL1	Cal Standard	Water	A19E245	"	8/23/2019 1:51:00PM
9H23034-CAL2	Cal Standard	Water	A19E246	"	8/23/2019 2:08:00PM
9H23034-CAL3	Cal Standard	Water	A19E247	"	8/23/2019 2:25:00PM
9H23034-CAL4	Cal Standard	Water	A19E249	"	8/23/2019 2:42:00PM
9H23034-CAL5	Cal Standard	Water	A19E250	"	8/23/2019 3:00:00PM
9H23034-CAL6	Cal Standard	Water	A19H383	"	8/23/2019 3:17:00PM
9H23034-CAL7	Cal Standard	Water	A19H384	"	8/23/2019 3:34:00PM
9H23034-CAL8	Cal Standard	Water	A19E244	"	8/23/2019 3:52:00PM
9H23034-ICV1	Initial Cal Check	Water	A19E106	"	8/23/2019 4:26:00PM
9H23034-CAL9	Cal Standard	Water	A19E272	"	8/23/2019 4:44:00PM
9H23034-CALA	Cal Standard	Water	A19E273	"	8/23/2019 5:01:00PM
9H23034-CALB	Cal Standard	Water	A19E274	"	8/23/2019 5:18:00PM
9H23034-CALC	Cal Standard	Water	A19E275	"	8/23/2019 5:35:00PM
9H23034-CALD	Cal Standard	Water	A19E276	"	8/23/2019 5:53:00PM
9H23034-CALE	Cal Standard	Water	A19E154	"	8/23/2019 6:10:00PM
9H23034-CALF	Cal Standard	Water	A19E155	"	8/23/2019 6:27:00PM
9H23034-CALG	Cal Standard	Water	A19E271	"	8/23/2019 6:45:00PM
9H23034-ICV2	Initial Cal Check	Water	A19E043	"	8/23/2019 7:19:00PM
9H23034-CALH	Cal Standard	Water	A19F232	"	8/23/2019 7:36:00PM
9H23034-CALI	Cal Standard	Water	A19F233	"	8/23/2019 7:54:00PM
9H23034-CALJ	Cal Standard	Water	A19F234	"	8/23/2019 8:11:00PM
9H23034-CALK	Cal Standard	Water	A19F235	"	8/23/2019 8:28:00PM
9H23034-CALL	Cal Standard	Water	A19F236	"	8/23/2019 8:45:00PM
9H23034-CALM	Cal Standard	Water	A19F231	"	8/23/2019 9:02:00PM
9H23034-ICV3	Initial Cal Check	Water	A19E108	"	8/23/2019 9:37:00PM
9H23034-CALN	Cal Standard	Water	A19D122	"	8/23/2019 9:54:00PM
9H23034-CALO	Cal Standard	Water	A19D123	"	8/23/2019 10:11:00PM
9H23034-CALP	Cal Standard	Water	A19D124	"	8/23/2019 10:28:00PM
9H23034-CALQ	Cal Standard	Water	A19D125	"	8/23/2019 10:45:00PM
9H23034-CALR	Cal Standard	Water	A19D126	"	8/23/2019 11:03:00PM
9H23034-CALS	Cal Standard	Water	A19D121	"	8/23/2019 11:20:00PM
9H23034-ICV4	Initial Cal Check	Water	A19D127	"	8/23/2019 11:54:00PM

CALIBRATION STANDARD RECOVERIES

Calibration: A9H2608

Instrument: DualECD5F

1311/8081B TCLP Pest Reg L

Sequence: 9H23034

Matrix: Water

SampleID	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9H23034-CAL1					
9H23034-CAL2					
9H23034-CAL3					
9H23034-CAL4					
9H23034-CAL5					

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 9H23034

9H23034-CAL6	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9H23034-CAL7	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9H23034-CAL8	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9H23034-CAL9	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9H23034-CALA	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9H23034-CALB	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9H23034-CALC	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9H23034-CALD	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9H23034-CALE	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9H23034-CALF	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9H23034-CALG	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9H23034-CALH	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9H23034-CALI	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9H23034-CALJ	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9H23034-CALK	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9H23034-CALL	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9H23034-CALM	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9H23034-CALN	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9H23034-CALO	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9H23034-CALP	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9H23034-CALQ	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9H23034-CALR	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9H23034-CALS	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual

Compounds listed above have recalculated recoveries outside 70-130% of the true values, and the calibration levels are above the reporting level. If no compounds are listed, all are OK. Please see the next section for quadratic fit compounds.

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 9H23034

Analytes With Quadratic Curve Fits

Qualifier iMDL iMRL Spike Amt %Difference OK? Raise MRL to ?
_____ _____

Analytes listed above have quadratic curve fits. If they are using a weighting option, they must be checked against the requested curve points to determine if the recalculated results are within limits (70-130 or as specified).

ICV RECOVERIES

Calibration: **A9H2608**

Instrument: **DualECD5F**

608 Pesticides (SW) Full List

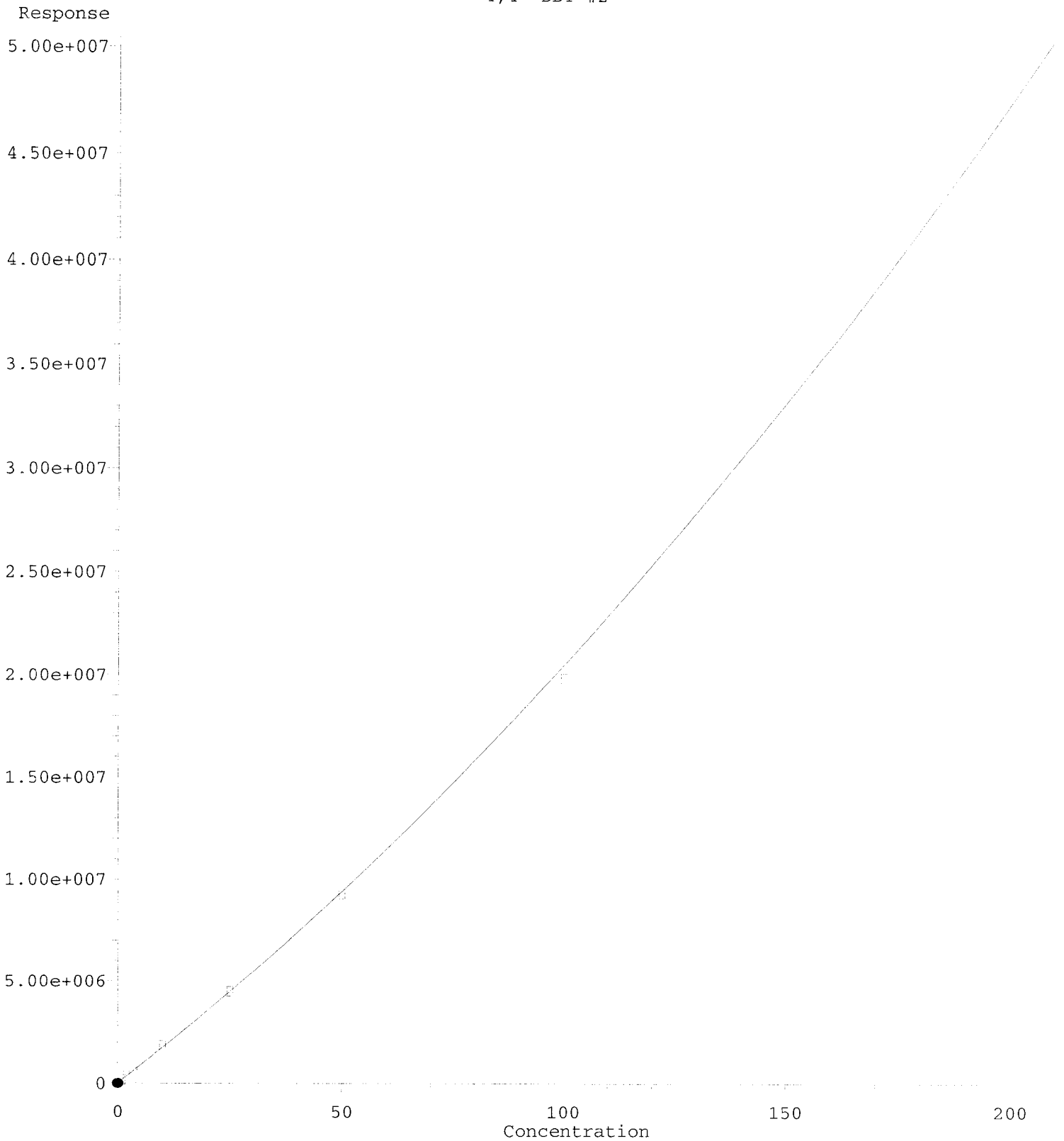
Sequence: **9H23034**

Matrix: **Water**

9H23034-ICV1	Inst. MRL	ICV Level	Result	%Rec.	Qual
9H23034-ICV2	Inst. MRL	ICV Level	Result	%Rec.	Qual
9H23034-ICV3	Inst. MRL	ICV Level	Result	%Rec.	Qual
9H23034-ICV4	Inst. MRL	ICV Level	Result	%Rec.	Qual

Compounds listed above have Initial Calibration Verification standard recoveries outside 70-130% of the true values. If no compounds are listed, all have passing recoveries.

4,4'-DDT #2

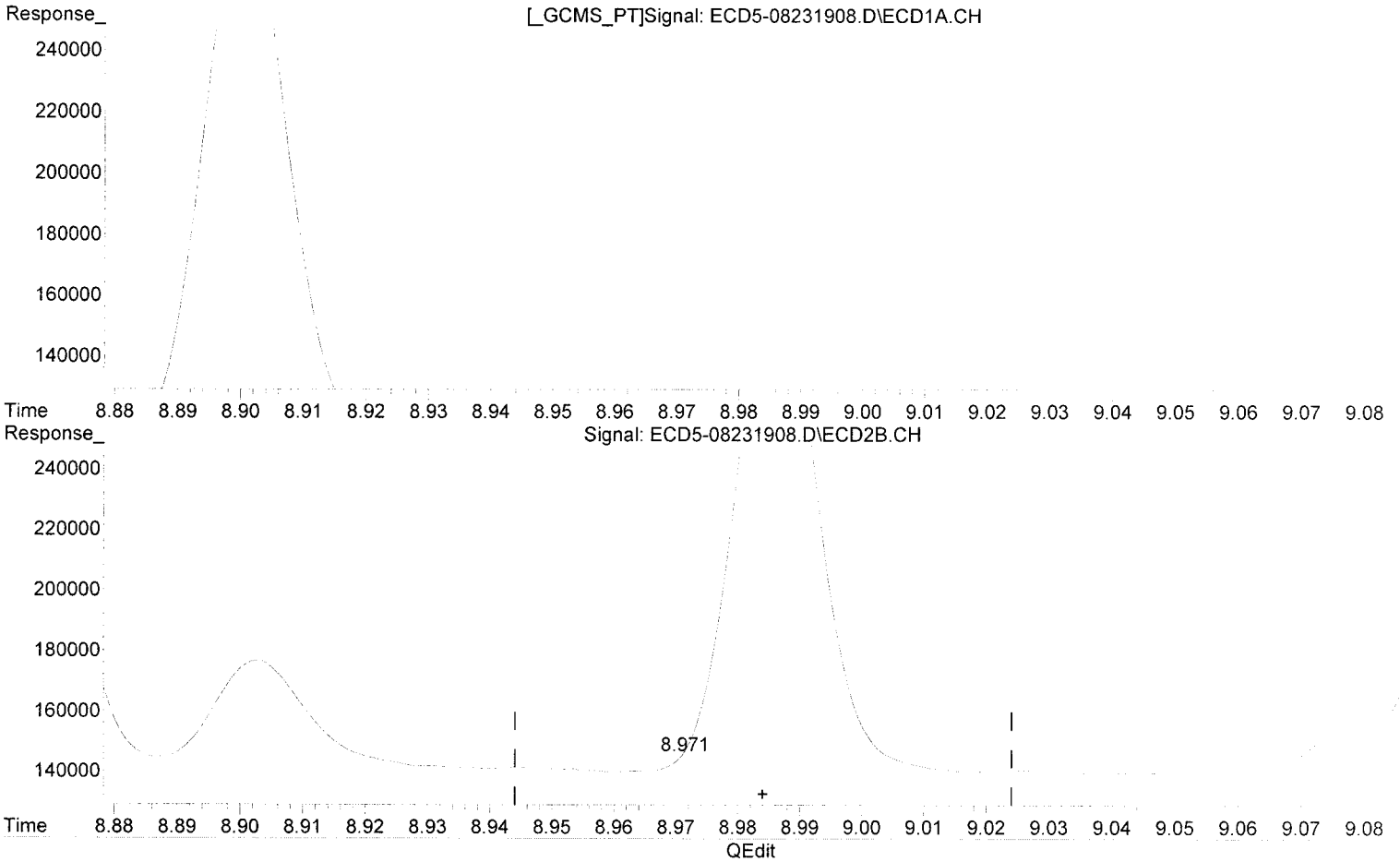


R = 3.30e+002 A*A + 1.71e+005 A + 6.57e+003
Coef of Det (r²) = 0.999 Curve Fit: Quadratic w(1/a²)
Method Name: R:\methods\ECD5_QUANTPEST_190829-M
Calibration Table Last Updated: Mon Aug 26 11:58:51 2019

Quantitation Report (Qedit)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231908.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 13:51
Operator : MJB
Sample : 9H23034-CAL1
Misc : A19E245, AB 1 ppb
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 26 11:59:55 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(17) 4,4'-DDT
8.205min 0.953 ng/mL
response 113897

MJB 8/26/19

(17) 4,4'-DDT #2
8.971min -0.006 ng/mL (m)
response 5621

Endrin Aldehyde

Response

2.60e+007

2.40e+007

2.20e+007

2.00e+007

1.80e+007

1.60e+007

1.40e+007

1.20e+007

1.00e+007

8.00e+006

6.00e+006

4.00e+006

2.00e+006

0

0

50

100

150

200

Concentration

$R = 8.05e+001 A^2 + 1.16e+005 A + 1.19e+005$

Coef of Det (r^2) = 0.997 Curve Fit: Quadratic w($1/a^2$)

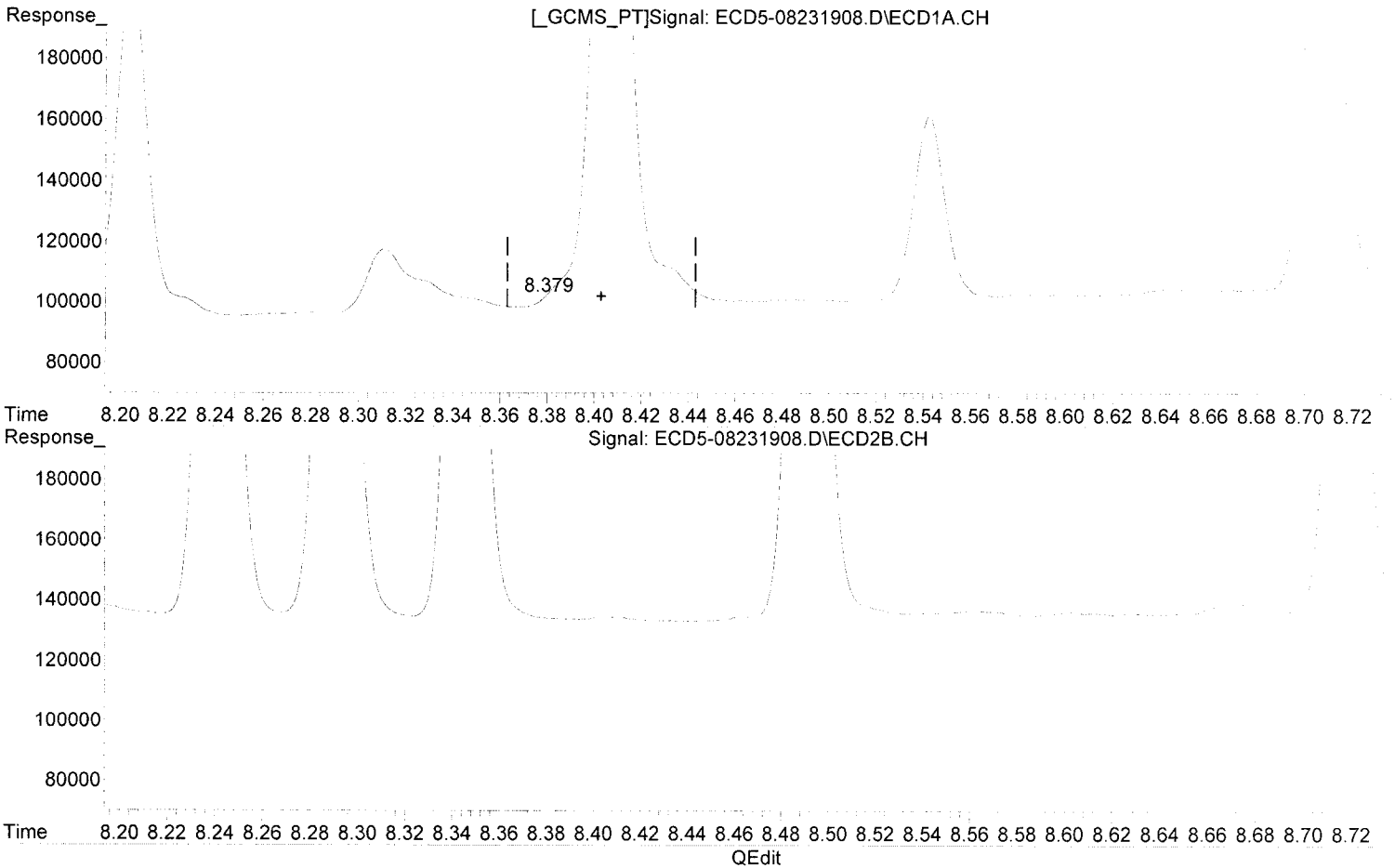
Method Name: R:\methods\ECD5_QUANTPEST_190829-M 11/20/19 Anchor OEA LLC Gasco Field DG2019 - 2a Surface Sediments Page 361 of 854

Calibration Table Last Updated: Mon Aug 26 11:58:51 2019

Quantitation Report (Qedit)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231908.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 13:51
Operator : MJB
Sample : 9H23034-CAL1
Misc : A19E245, AB 1 ppb
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 26 11:59:55 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(18) Endrin Aldehyde
8.379min -0.993 ng/mL(m)
response 3543

MJB
8/26/19

(18) Endrin Aldehyde #2
9.101min 1.058 ng/mL
response 348624

Endrin Aldehyde #2



$R = 2.18e+002 A^2 + 1.83e+005 A + 1.55e+005$

Coef of Det (r^2) = 0.996 Curve Fit: Quadratic w(1/a^2)

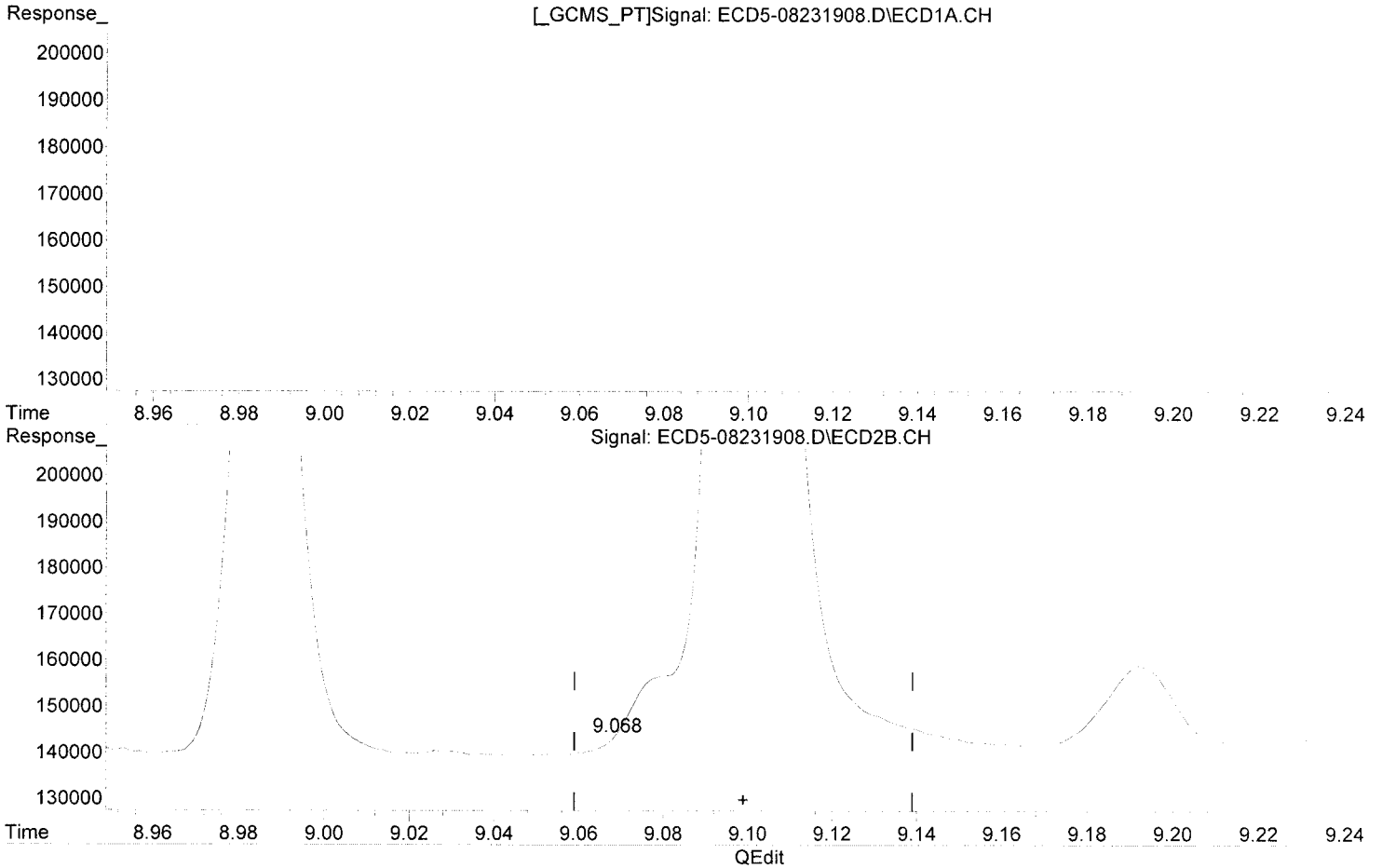
Method Name: R:\methods\BCD5_QUANTRES1_190829.M 11/20/19 Anchor OEA LLC Gasco Pkg 59 DG2019 - 2a Surface Sediments Page 363 of 854

Calibration Table Last Updated: Mon Aug 26 11:58:51 2019

Quantitation Report (Qedit)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231908.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 13:51
Operator : MJB
Sample : 9H23034-CAL1
Misc : A19E245, AB 1 ppb
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 26 11:59:55 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(18) Endrin Aldehyde
8.379min -0.993 ng/mL m
response 3543

MJB 8/26/19

(18) Endrin Aldehyde #2
9.068min -0.831 ng/mL (m)
response 3374

Methoxychlor #2



$R = 1.78e+002 A^2 + 8.05e+004 A + 1.50e+004$

Coef of Det (r²) = 0.999 Curve Fit: Quadratic w(1/a²)

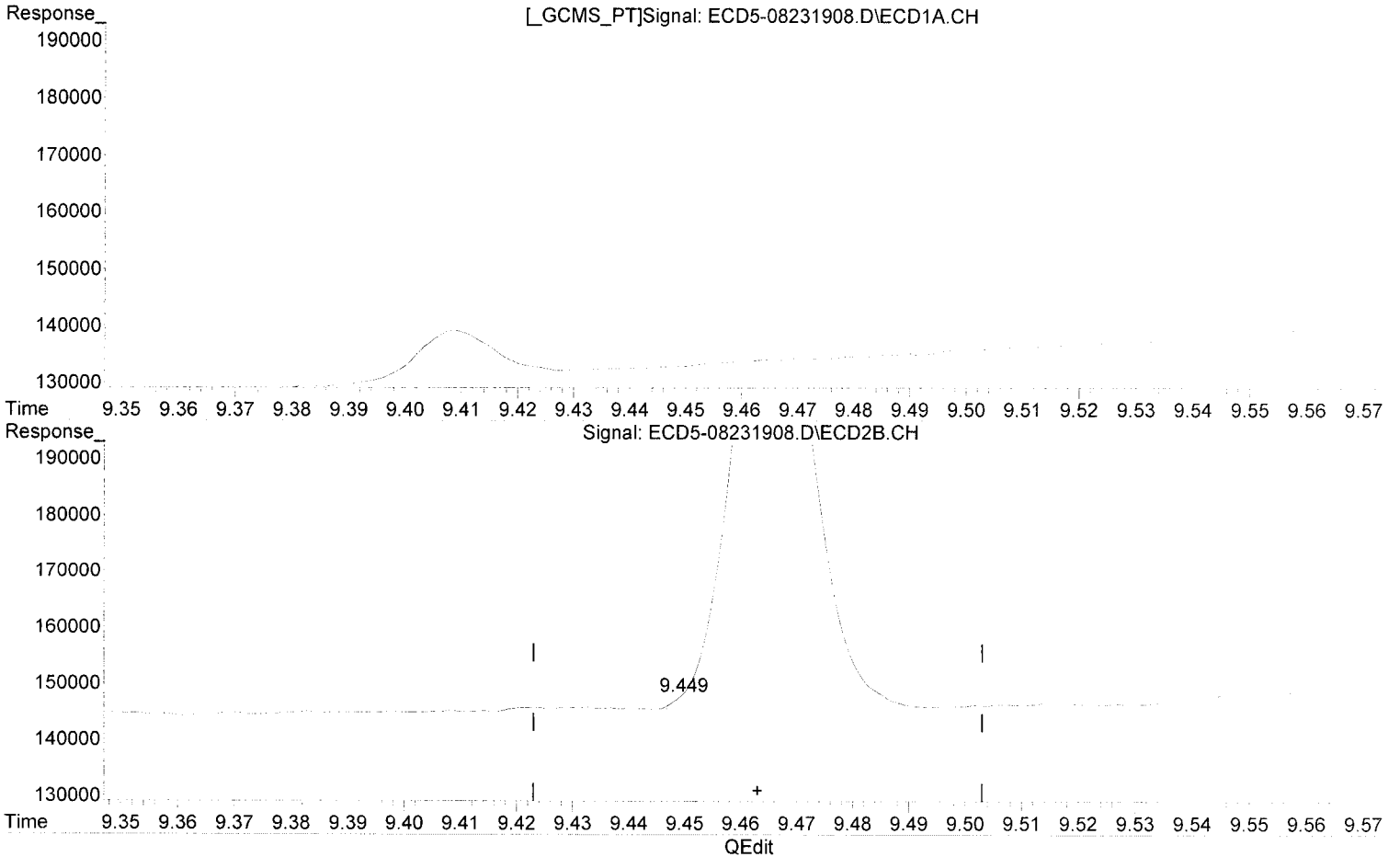
Method Name: R:\methods\ECD5_QUANTPEST_190823-M 11/20/19 Anchor OEA LLC Casco Press DG2019 - 2a Surface Sediments Page 365 of 854

Calibration Table Last Updated: Mon Aug 26 11:58:51 2019

Quantitation Report (Qedit)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231908.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 13:51
Operator : MJB
Sample : 9H23034-CAL1
Misc : A19E245, AB 1 ppb
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 26 11:59:55 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(20) Methoxychlor
8.543min 1.019 ng/mL
response 59659

MJB
8/26/19

(20) Methoxychlor #2
9.449min -0.161 ng/mL (m)
response 2070

trans-Nonachlor



$R = -2.05e+000 A^2 + 1.79e+005 A + 5.67e+004$

Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w($1/a^2$)

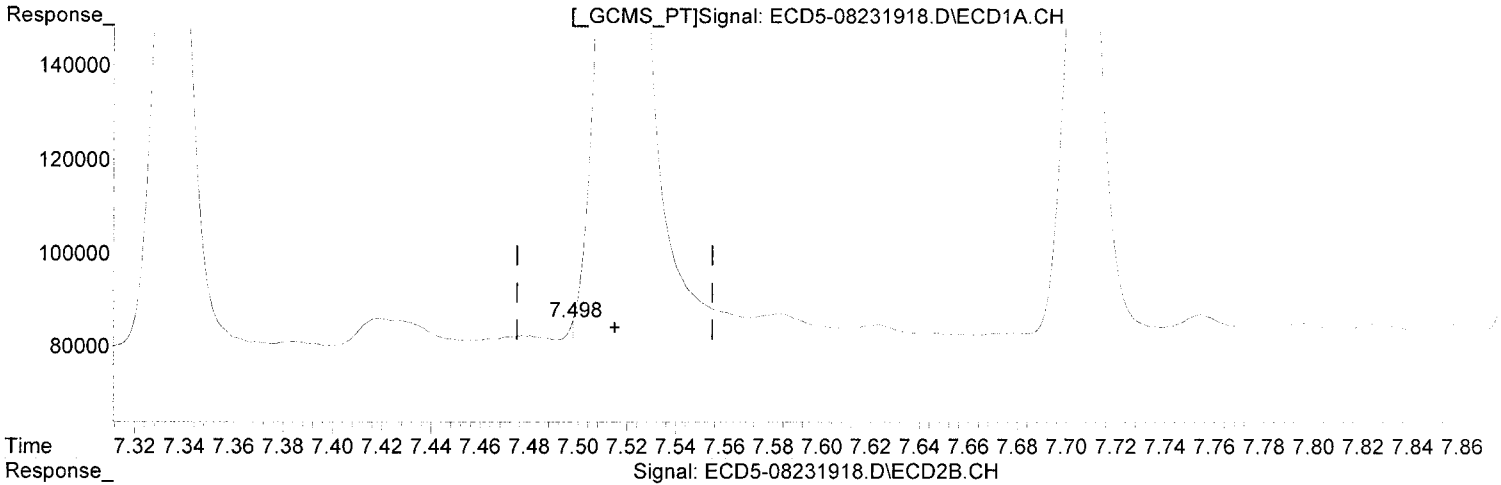
Method Name: R:\methods\BCL5_QC\NIPES1_19025.H 11/20/19 Anchor O&A LLC Casco Bay DG2019 - 2a Surface Sediments Page 367 of 854

Calibration Table Last Updated: Mon Aug 26 11:58:51 2019

Quantitation Report (Qedit)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231918.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 16:44
Operator : MJB
Sample : 9H23034-CAL9
Misc : A19E272, 9-42 1 ppb
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 26 12:02:15 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(27) trans-Nonachlor

7.498min 87346.675 ng/mL (m)
response 4808

Qedit

MJB 8/26/19

(27) trans-Nonachlor #2

8.195min 1.015 ng/mL
response 306202

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\
 Data File : ECD5-08231907.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 23 Aug 2019 13:33
 Operator : MJB
 Sample : 9H23034-ICB1
 Misc : A19H348
 ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Aug 26 15:02:44 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

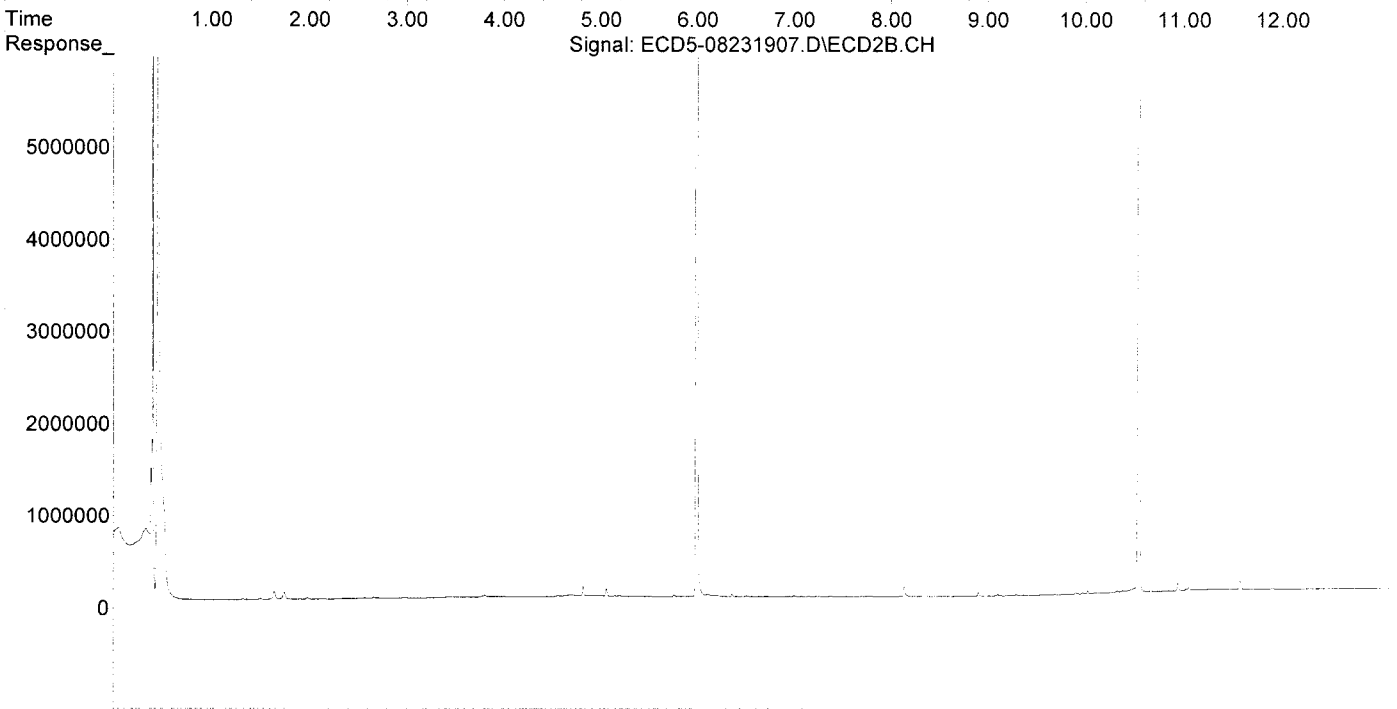
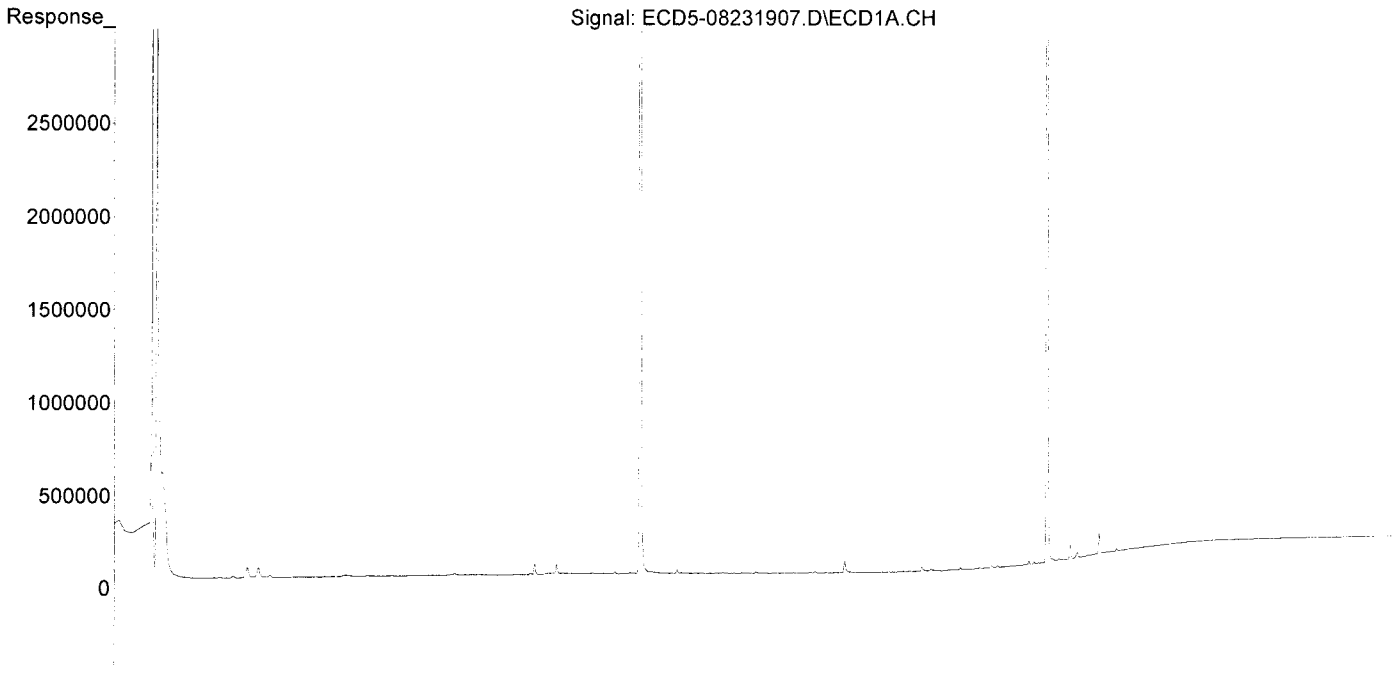
MJB 8/26/19

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.398	5.992	15096765	27637017	90.958	94.206
22) S DCBP (S)	9.594	10.543	12462090	16576085	88.322	92.211
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D.	N.D.
3) g-BHC	6.253f	0.000	6973	0	0.035	N.D. #
4) b-BHC	0.000	7.003f	0	10802	N.D.	0.068 #
5) Heptachlor	6.596f	0.000	8260	0	0.046	N.D. #
6) d-BHC	6.451	7.234	5541	7061	0.028	0.020
7) Aldrin	0.000	0.000	0	0	N.D.	N.D.
8) Heptachlo...	7.318	0.000	2356	0	0.013	N.D. #
9) trans-Chl...	0.000	8.140	0	104395	N.D.	0.333 #
10) cis-Chlor...	7.514	0.000	58774	0	0.323	N.D. #
11) Endosulfa...	0.000	0.000	0	0	N.D.	N.D.
12) 4,4'-DDE	0.000	0.000	0	0	N.D.	N.D.
13) Dieldrin	0.000	0.000	0	0	N.D.	N.D.
14) Endrin	0.000	0.000	0	0	N.D.	N.D.
15) 4,4'-DDD	0.000	0.000	0	0	N.D.	N.D.
16) Endosulfa...	8.119	0.000	3735	0	0.026	N.D. #
17) 4,4'-DDT	8.185	0.000	4049	0	0.034	N.D. #
18) Endrin Al...	8.408	9.102	14375	14948	BelowCal	BelowCal
19) Endosulfa...	8.709	9.292	12123	14809	0.078	0.059
20) Methoxychlor	8.542	0.000	4975	0	0.085	N.D. #
21) Endrin Ke...	8.903	9.690	4830	7943	0.029	0.031
23) Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
24) Hexachlor...	5.779	0.000	21656	0	0.123	N.D. #
25) Oxychlorane	0.000	0.000	0	0	N.D.	N.D.
26) 2,4'-DDE	7.318	8.140	2356	104395	0.018	0.492 #
27) trans-Non...	7.514	0.000	58774	0	0.012	N.D. #
28) 2,4'-DDD	0.000	0.000	0	0	N.D.	N.D.
29) 2,4'-DDT	0.000	0.000	0	0	N.D.	N.D.
30) cis-Nonac...	0.000	0.000	0	0	N.D.	N.D.
31) Mirex	8.652	9.690	4544	7943	0.036	0.043
32) Chlordane...	0.000	8.140	0	104395	N.D.	2.885 #
33) Chlordane...	7.514	0.000	58774	0	2.345	N.D. #
34) Chlordane...	0.000	8.904	0	37260	N.D.	4.156 #
35) Chlordane...	3.445	0.000	6677	0	NoCal	N.D.
36) Toxaphene...	7.514	0.000	58774	0	65.621	N.D. #
37) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.
38) Toxaphene...	8.119	0.000	3735	0	1.109	N.D. #
39) Toxaphene...	8.312f	8.904	24186	37260	7.464	4.462 #
40) Toxaphene...	8.542f	9.102	4975	14948	2.075	3.207 #
41) Toxaphene...	8.652	0.000	4544	0	1.436	N.D. #
42) Toxaphene...	3.445	0.000	6677	0	NoCal	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231907.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 13:33
Operator : MJB
Sample : 9H23034-ICB1
Misc : A19H348
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 26 15:02:44 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : R:\data\2019-08\9H23034\
 Data File : ECD5-08231916.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 23 Aug 2019 16:09
 Operator : MJB
 Sample : 9H23034-IBL1
 Misc : Instrument Blank
 ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Aug 26 15:02:50 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Clean

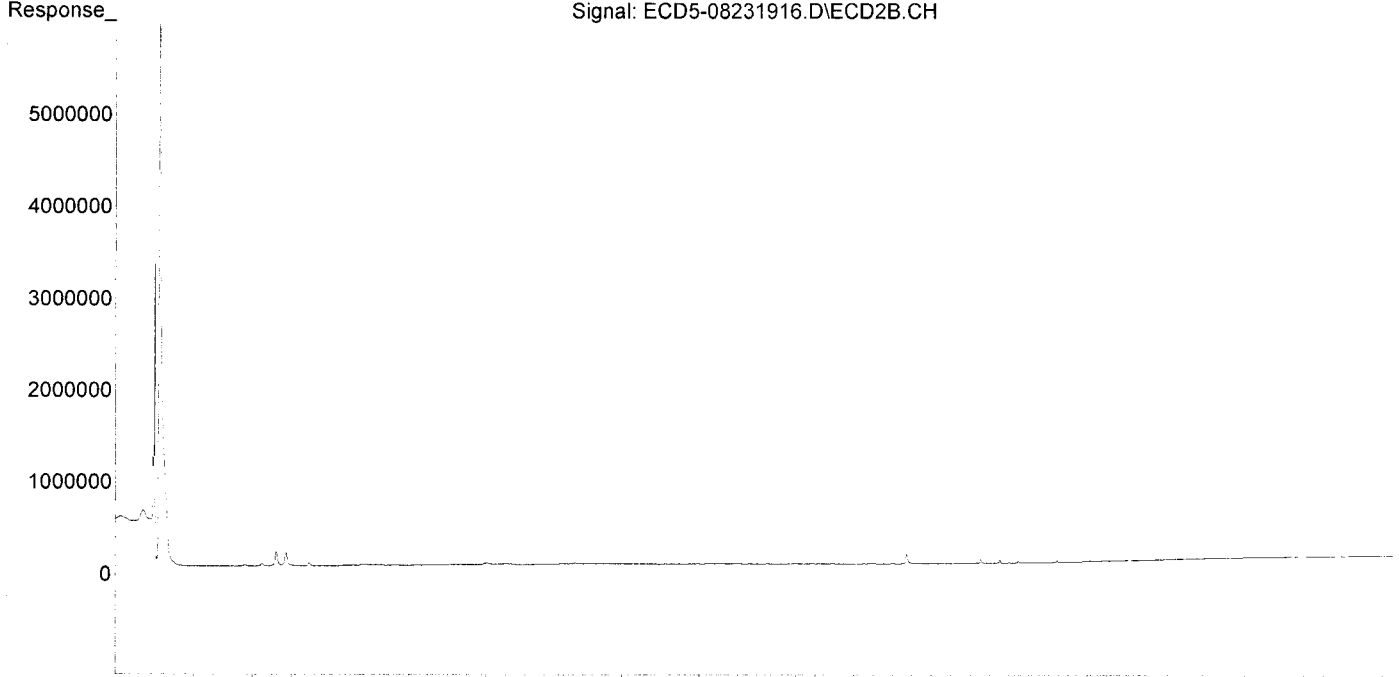
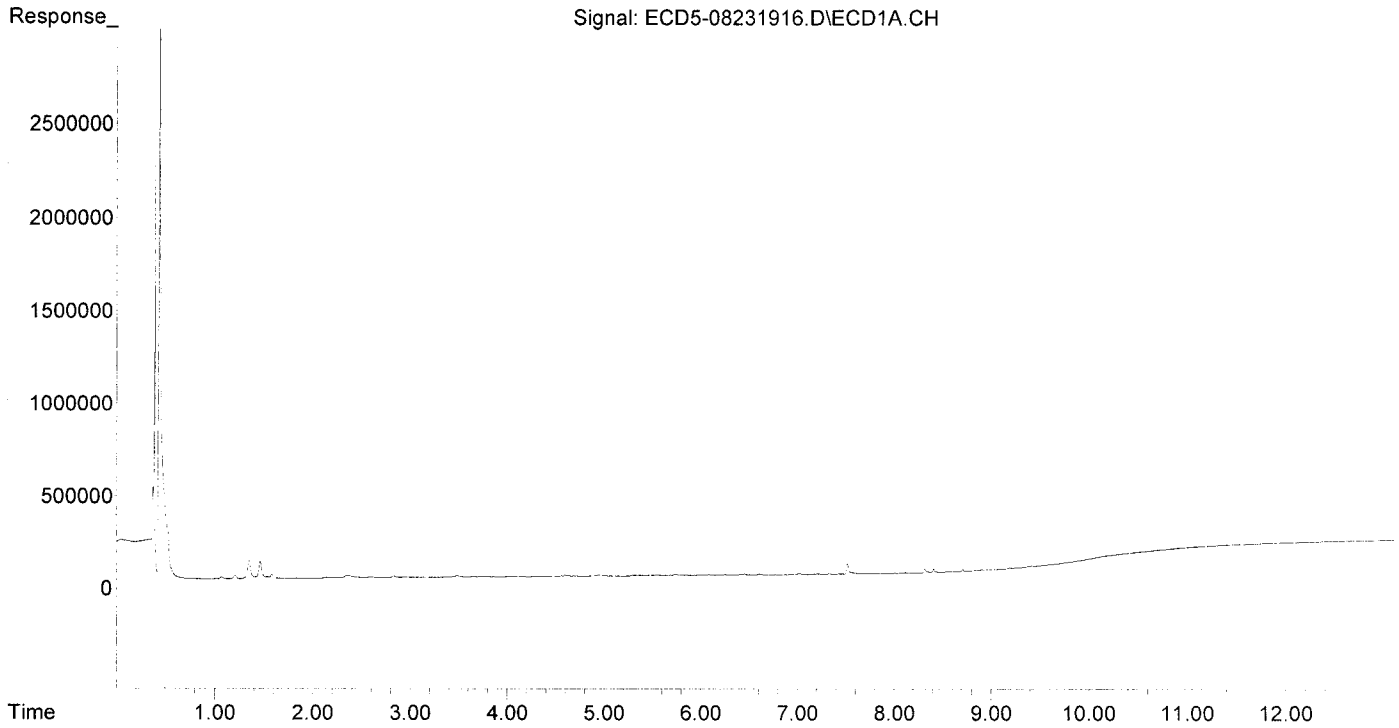
MJB 8/26/19

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	5.984	0	7755	N.D.	0.026 #
22) S DCBP (S)	9.595	10.540	5550	5660	0.039	0.031
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D.	N.D.
3) g-BHC	6.249f	0.000	4370	0	0.022	N.D. #
4) b-BHC	0.000	7.003f	0	7432	N.D.	0.047 #
5) Heptachlor	6.602f	0.000	4945	0	0.027	N.D. #
6) d-BHC	6.450	7.233	6336	9226	0.032	0.026
7) Aldrin	0.000	0.000	0	0	N.D.	N.D.
8) Heptachlo...	0.000	0.000	0	0	N.D.	N.D.
9) trans-Chl...	0.000	8.142	0	99412	N.D.	0.317 #
10) cis-Chlor...	7.516	0.000	56525	0	0.310	N.D. #
11) Endosulfa...	0.000	0.000	0	0	N.D.	N.D.
12) 4,4'-DDE	0.000	0.000	0	0	N.D.	N.D.
13) Dieldrin	0.000	0.000	0	0	N.D.	N.D.
14) Endrin	0.000	0.000	0	0	N.D.	N.D.
15) 4,4'-DDD	8.007	0.000	1177	0	0.007	N.D. #
16) Endosulfa...	8.117	8.865	3391	6280	0.024	0.027
17) 4,4'-DDT	8.226f	0.000	1460	0	0.012	N.D. #
18) Endrin Al...	8.407	9.100	21929	28697	BelowCal	BelowCal
19) Endosulfa...	8.707	9.291	12087	18257	0.078	0.073
20) Methoxychlor	8.544	0.000	4198	0	0.072	N.D. #
21) Endrin Ke...	8.901	9.686	4385	18734	0.026	0.073 #
23) Hexachlor...	0.000	3.689	0	2782	N.D.	0.007 #
24) Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
25) Oxychlordane	0.000	0.000	0	0	N.D.	N.D.
26) 2,4'-DDE	0.000	8.142	0	99412	N.D. <i>Q-ent</i>	0.469 #
27) trans-Non...	7.516	0.000	56525	0	0.7346.385	N.D. #
28) 2,4'-DDD	0.000	0.000	0	0	N.D.	N.D.
29) 2,4'-DDT	0.000	0.000	0	0	N.D.	N.D.
30) cis-Nonac...	8.007f	0.000	1177	0	0.006	N.D. #
31) Mirex	0.000	9.686	0	18734	N.D.	0.101 #
32) Chlordane...	0.000	8.142	0	99412	N.D.	2.747 #
33) Chlordane...	7.516	0.000	56525	0	2.255	N.D. #
34) Chlordane...	8.065	8.904	2775	39801	0.480	4.439 #
35) Chlordane...	3.447	0.000	4520	0	NoCal	N.D.
36) Toxaphene...	7.516	0.000	56525	0	63.111	N.D. #
37) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.
38) Toxaphene...	8.117	8.865	3391	6280	1.007	1.239
39) Toxaphene...	8.314f	8.904	23317	39801	7.196	4.767
40) Toxaphene...	8.583	9.100	2463	28697	1.028	6.158 #
41) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.
42) Toxaphene...	3.447	0.000	4520	0	NoCal	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231916.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 16:09
Operator : MJB
Sample : 9H23034-IBL1
Misc : Instrument Blank
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 26 15:02:50 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\
 Data File : ECD5-08231917.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 23 Aug 2019 16:26
 Operator : MJB
 Sample : 9H23034-ICV1
 Misc : A19E106, AB 50 ppb
 ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Aug 26 15:02:56 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB
8/26/19

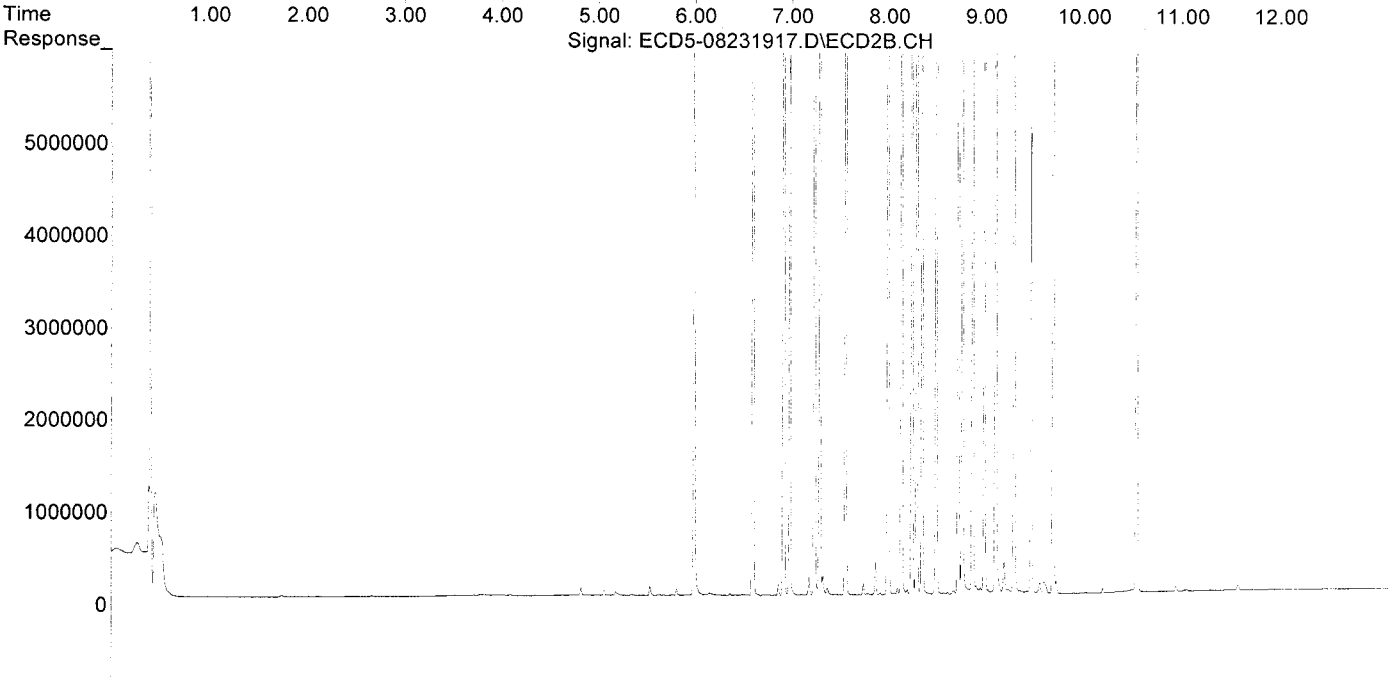
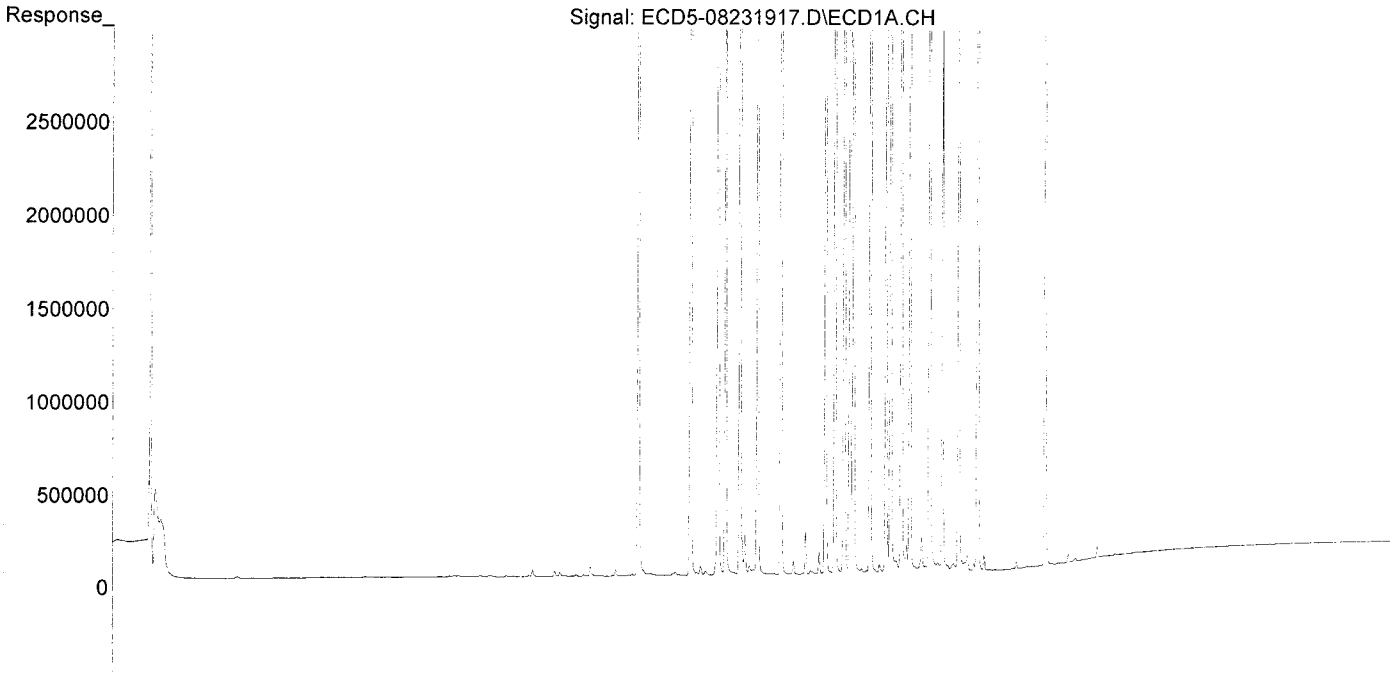
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.395	5.989	8209928	14467910	49.465	49.317
22) S DCBP (S)	9.589	10.539	6928381	8667079	49.103	48.214
Target Compounds						
2) a-BHC	5.935	6.596	11712240	21507667	51.072	52.414
3) g-BHC	6.218	6.913	10370774	18809716	51.397	52.732
4) b-BHC	6.296	6.977	4410789	7929442	48.801	50.102
5) Heptachlor	6.629	7.288	9286546	15998647	51.223	52.287
6) d-BHC	6.446	7.231	10162400	18561571	51.667	52.632
7) Aldrin	6.870	7.553	10415223	17743229	52.750	53.867
8) Heptachlo...	7.330	7.991	9218950	15454788	50.054	51.371
9) trans-Chl...	7.427	8.130	9449748	15882363	51.110	50.690
10) cis-Chlor...	7.523	8.238	8891439	15040020	48.835	51.640
11) Endosulfa...	7.620	8.288	8454858	14042285	49.682	51.030
12) 4,4'-DDE	7.583	8.343	9669653	16358741	51.290	52.655
13) Dieldrin	7.792	8.489	9566646	15751562	49.832	51.789
14) Endrin	7.957	8.715	7744641	11999227	52.675	53.135
15) 4,4'-DDD	8.003	8.758	8044313	14118585	51.192	55.105
16) Endosulfa...	8.114	8.862	7639079	12307624	53.193	53.371
17) 4,4'-DDT	8.201	8.984	6427421	10243965	53.759	54.092
18) Endrin Al...	8.403	9.098	7471981	12138603	60.652	61.144
19) Endosulfa...	8.704	9.289	8022310	12945664	51.764	51.972
20) Methoxychlor	8.537	9.463	3243218	5107379	55.369	56.272
21) Endrin Ke...	8.898	9.687	8897553	13958232	53.356	54.245
23) Hexachlor...	0.000	3.713f	0	6424	N.D.	0.017 #
24) Hexachlor...	5.778	6.482f	19713	11218	0.112	0.036 #
25) Oxychlordane	7.266	7.916	116203	18640	0.706	0.068 #
26) 2,4'-DDE	7.330	8.130	9218950	15882363	71.876	74.868
27) trans-Non...	7.523	8.193	8891439	52587	49.340	0.174 #
28) 2,4'-DDD	7.704	8.489	22276	15751562	0.195	83.402 #
29) 2,4'-DDT	7.889	8.715	44366	11999227	0.404	67.283 #
30) cis-Nonac...	8.003	8.758	8044313	14118585	38.746	42.089
31) Mirex	8.653	9.687	40409	13958232	0.322	75.015 #
32) Chlordane...	7.427	8.130	9449748	15882363	479.936	438.926
33) Chlordane...	7.523	8.238	8891439	15040020	354.745	495.323
34) Chlordane...	0.000	8.899	0	79876	N.D.	8.909 #
35) Chlordane...	3.446	0.000	5075	0	NoCal	N.D.
36) Toxaphene...	7.523f	8.489f	8891439	15751562	9927.388	6002.292
37) Toxaphene...	7.792	0.000	9566646	0	5923.845	N.D. #
38) Toxaphene...	8.114	8.862	7639079	12307624	2268.479	2428.346
39) Toxaphene...	8.324f	8.899	184731	79876	57.013	9.566 #
40) Toxaphene...	8.537f	9.098	3243218	12138603	1352.952	2604.650 #
41) Toxaphene...	8.653	9.463	40409	5107379	12.769	1075.192 #
42) Toxaphene...	3.446	0.000	5075	0	NoCal	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231917.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 16:26
Operator : MJB
Sample : 9H23034-ICV1
Misc : A19E106, AB 50 ppb
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 26 15:02:56 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\
 Data File : ECD5-08231926.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 23 Aug 2019 19:02
 Operator : MJB
 Sample : 9H23034-IBL2
 Misc : Instrument Blank
 ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Aug 26 15:03:03 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

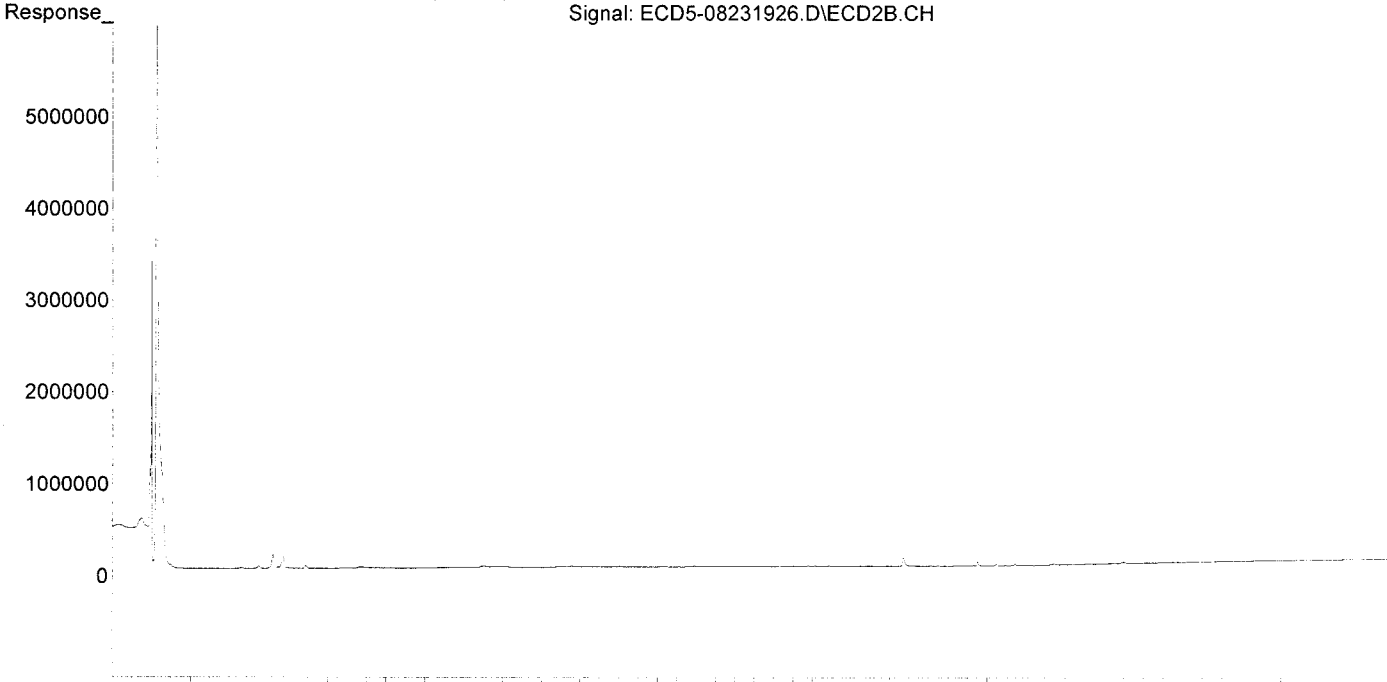
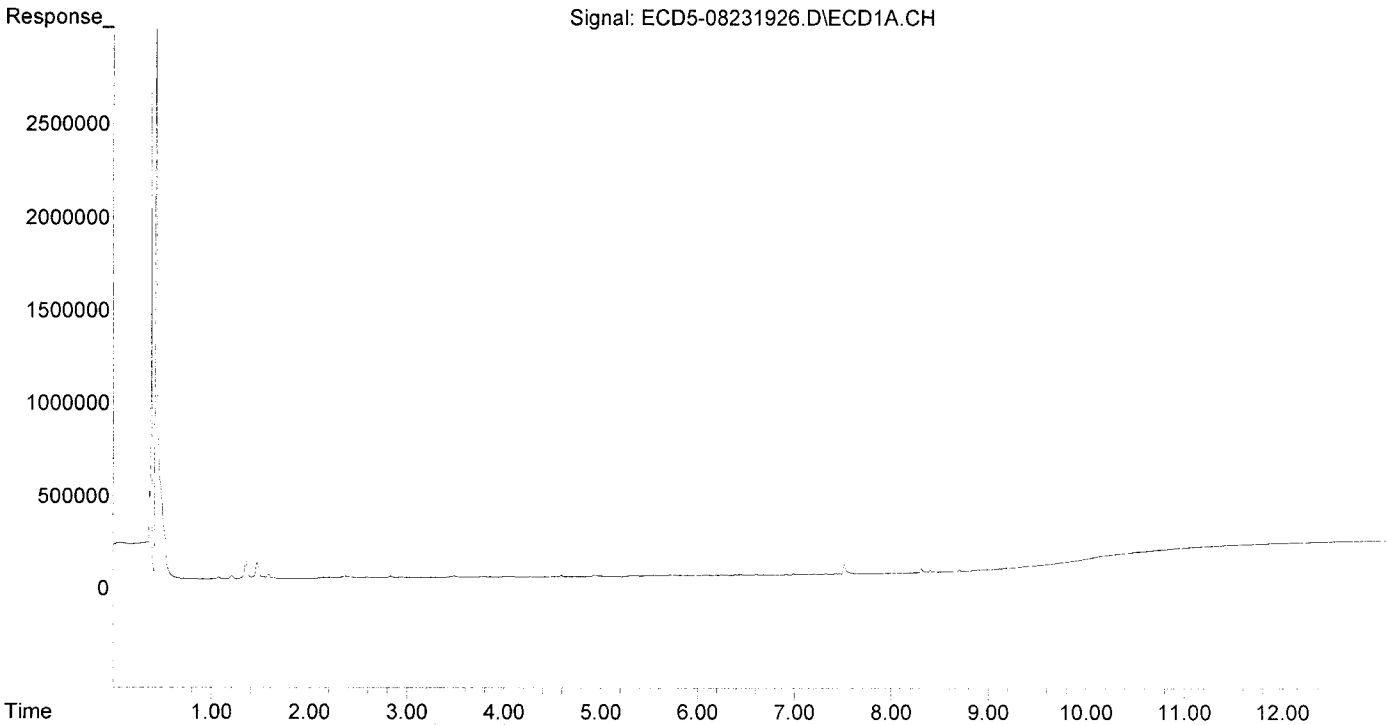
Clean
MJB
8/26/19

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	5.979	0	6612	N.D.	0.023 #
22) S DCBP (S)	0.000	0.000	0	0	N.D.	N.D.
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D.	N.D.
3) g-BHC	6.246f	0.000	5266	0	0.026	N.D. #
4) b-BHC	0.000	0.000	0	0	N.D.	N.D.
5) Heptachlor	6.606f	0.000	2965	0	0.016	N.D. #
6) d-BHC	6.448	7.230	6262	8744	0.032	0.025
7) Aldrin	0.000	0.000	0	0	N.D.	N.D.
8) Heptachlo...	0.000	0.000	0	0	N.D.	N.D.
9) trans-Chl...	0.000	8.141	0	95737	N.D.	0.306 #
10) cis-Chlor...	7.516	0.000	51171	0	0.281	N.D. #
11) Endosulfa...	0.000	0.000	0	0	N.D.	N.D.
12) 4,4'-DDE	0.000	0.000	0	0	N.D.	N.D.
13) Dieldrin	0.000	0.000	0	0	N.D.	N.D.
14) Endrin	0.000	0.000	0	0	N.D.	N.D.
15) 4,4'-DDD	0.000	0.000	0	0	N.D.	N.D.
16) Endosulfa...	8.115	8.861	2908	5919	0.020	0.026
17) 4,4'-DDT	0.000	0.000	0	0	N.D.	N.D.
18) Endrin Al...	8.404	9.098	11210	14199	BelowCal	BelowCal
19) Endosulfa...	8.705	9.288	9669	15528	0.062	0.062
20) Methoxychlor	8.535	0.000	2114	0	0.036	N.D. #
21) Endrin Ke...	8.899	9.685	4160	14028	0.025	0.055 #
23) Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
24) Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
25) Oxychlordan	0.000	0.000	0	0	N.D.	N.D.
26) 2,4'-DDE	0.000	8.141	0	95737	N.D.	0.451 #
27) trans-Non...	7.516	0.000	51171	0	87346.415	N.D. #
28) 2,4'-DDD	0.000	0.000	0	0	N.D.	N.D.
29) 2,4'-DDT	0.000	0.000	0	0	N.D.	N.D.
30) cis-Nonac...	0.000	0.000	0	0	N.D.	N.D.
31) Mirex	8.653	9.685	1197	14028	0.010	0.075 #
32) Chlordane...	0.000	8.141	0	95737	N.D.	2.646 #
33) Chlordane...	7.516	0.000	51171	0	2.042	N.D. #
34) Chlordane...	8.051	8.903	2776	42860	0.480	4.780 #
35) Chlordane...	3.446	0.000	4206	0	NoCal	N.D.
36) Toxaphene...	7.516	0.000	51171	0	57.133	N.D. #
37) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.
38) Toxaphene...	8.115	8.861	2908	5919	0.863	1.168
39) Toxaphene...	8.313f	8.903	23619	42860	7.290	5.133
40) Toxaphene...	8.535f	9.098	2114	14199	0.882	3.047 #
41) Toxaphene...	8.653	0.000	1197	0	0.378	N.D. #
42) Toxaphene...	3.446	0.000	4206	0	NoCal	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231926.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 19:02
Operator : MJB
Sample : 9H23034-IBL2
Misc : Instrument Blank
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 26 15:03:03 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : R:\data\2019-08\9H23034\
 Data File : ECD5-08231927.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 23 Aug 2019 19:19
 Operator : MJB
 Sample : 9H23034-ICV2
 Misc : A19E043, 9-42 50 ppb
 ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Aug 26 15:03:09 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

WPB 8/26/19

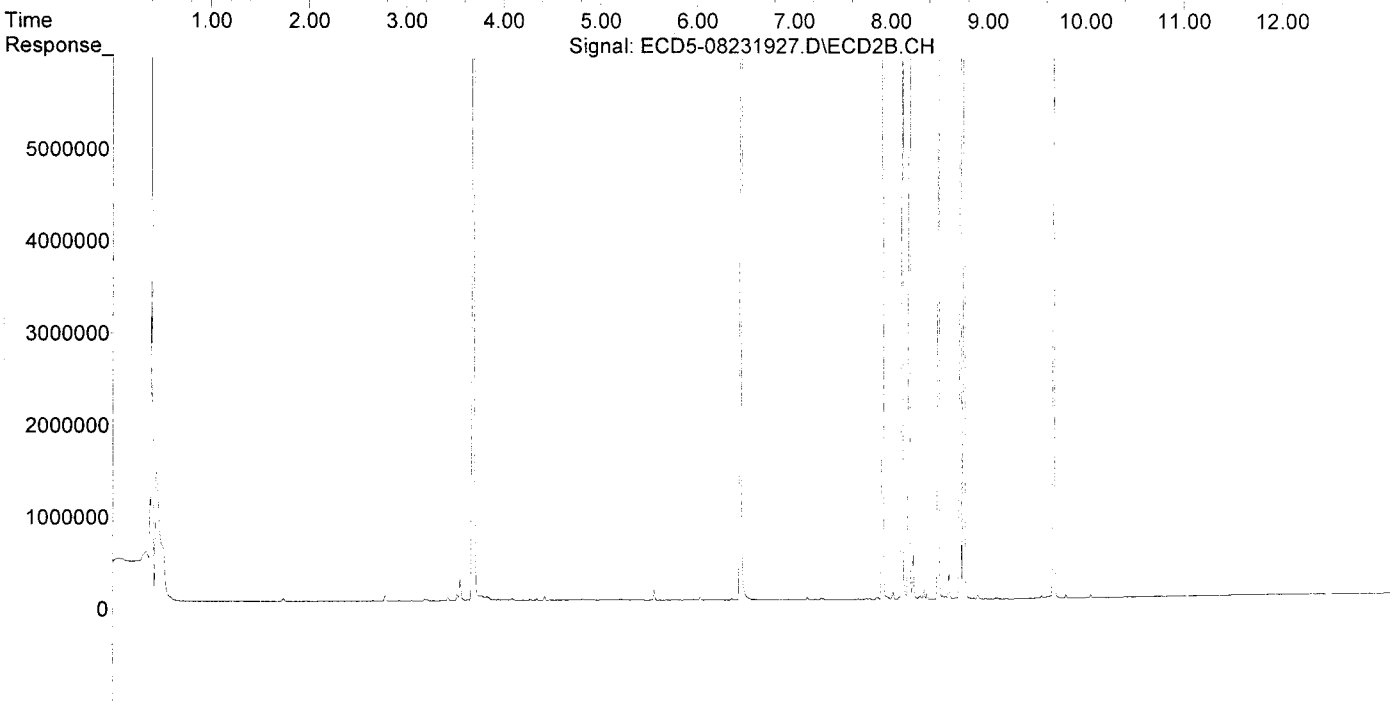
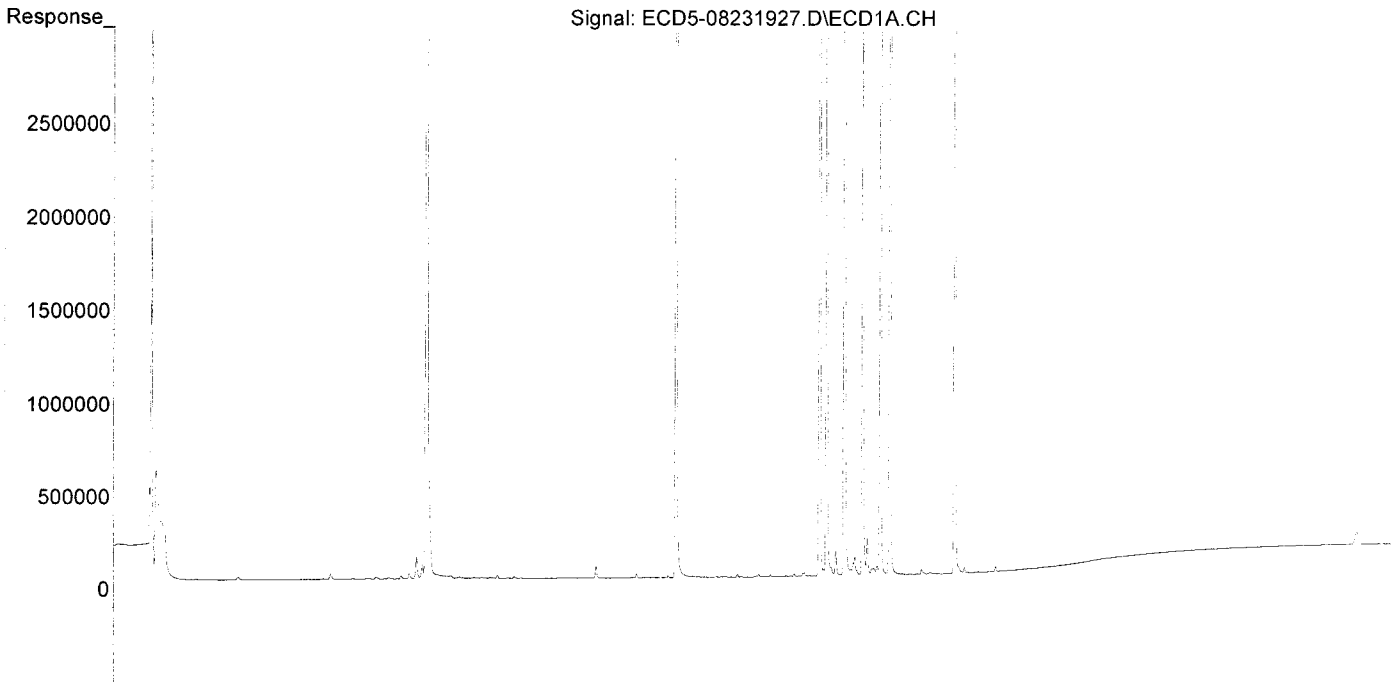
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.367f	5.979	21795	7434	0.131	0.025 #
22) S DCBP (S)	9.593	0.000	5164	0	0.037	N.D. #
Target Compounds						
2) a-BHC	5.944	0.000	7626	0	0.033	N.D. #
3) g-BHC	6.193f	6.950f	4309	4488	0.021	0.013 #
4) b-BHC	6.276f	6.950f	4448	4488	0.049	0.028 #
5) Heptachlor	6.631	7.288	13910	18612	0.077	0.061
6) d-BHC	6.450	7.231	4193	7280	0.021	0.021
7) Aldrin	0.000	0.000	0	0	N.D.	N.D.
8) Heptachlo...	7.333	7.969f	6044730	30442	32.820	0.101 #
9) trans-Chl...	7.428	8.122	135885	10152421	0.735	32.402 #
10) cis-Chlor...	7.515	8.238	9079715	499411	49.869	1.715 #
11) Endosulfa...	7.623	8.313f	100346	33305	0.590	0.121 #
12) 4,4'-DDE	7.585	8.350	33793	99515	0.179	0.320 #
13) Dieldrin	7.801	8.494	35090	9221128	0.183	30.318 #
14) Endrin	7.985f	8.719	9530740	8396212	64.823	37.180 #
15) 4,4'-DDD	7.985	8.758	9530740	16410440	60.651	64.050
16) Endosulfa...	0.000	8.903f	0	43832	N.D.	0.190 #
17) 4,4'-DDT	0.000	0.000	0	0	N.D.	N.D.
18) Endrin Al...	8.400	9.100	6045	8867	BelowCal	BelowCal
19) Endosulfa...	0.000	9.288	0	6758	N.D.	0.027 #
20) Methoxychlor	0.000	0.000	0	0	N.D.	N.D.
21) Endrin Ke...	8.897	9.678	3909	8640754	0.023	33.580 #
23) Hexachlor...	3.197	3.687	8657262	18235302	47.375	48.507
24) Hexachlor...	5.774	6.453	8419764	15057280	47.760	47.940
25) Oxychlordane	7.260	7.920	8060765	13729255	48.990	50.125
26) 2,4'-DDE	7.333	8.122	6044730	10152421	47.128	47.858
27) trans-Non...	7.515	8.194	9079715	15314695	50.392	50.772
28) 2,4'-DDD	7.704	8.494	5439144	9221128	47.659	48.824
29) 2,4'-DDT	7.888	8.719	5329154	8396212	48.585	47.080
30) cis-Nonac...	7.985	8.758	9530740	16410440	45.906	48.921
31) Mirex	8.652	9.678	5900124	8640754	47.063	46.437
32) Chlordane...	7.428	8.122	135885	10152421	6.901	280.573 #
33) Chlordane...	7.515	8.238	9079715	499411	362.257	16.447 #
34) Chlordane...	0.000	8.903	0	43832	N.D.	4.889 #
35) Chlordane...	3.444	3.433	15163	32758	NoCal	NoCal
36) Toxaphene...	7.515	8.494f	9079715	9221128	10137.600	3513.804 #
37) Toxaphene...	7.801	0.000	35090	0	21.729	N.D. #
38) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.
39) Toxaphene...	8.313f	8.903	24546	43832	7.576	5.249
40) Toxaphene...	0.000	9.100	0	8867	N.D.	1.903 #
41) Toxaphene...	8.652	0.000	5900124	0	1864.424	N.D. #
42) Toxaphene...	3.444	3.433	15163	32758	NoCal	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231927.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 19:19
Operator : MJB
Sample : 9H23034-ICV2
Misc : A19E043, 9-42 50 ppb
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 26 15:03:09 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\
 Data File : ECD5-08231934.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 23 Aug 2019 21:20
 Operator : MJB
 Sample : 9H23034-IBL3
 Misc : Instrument Blank
 ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Aug 26 15:03:15 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

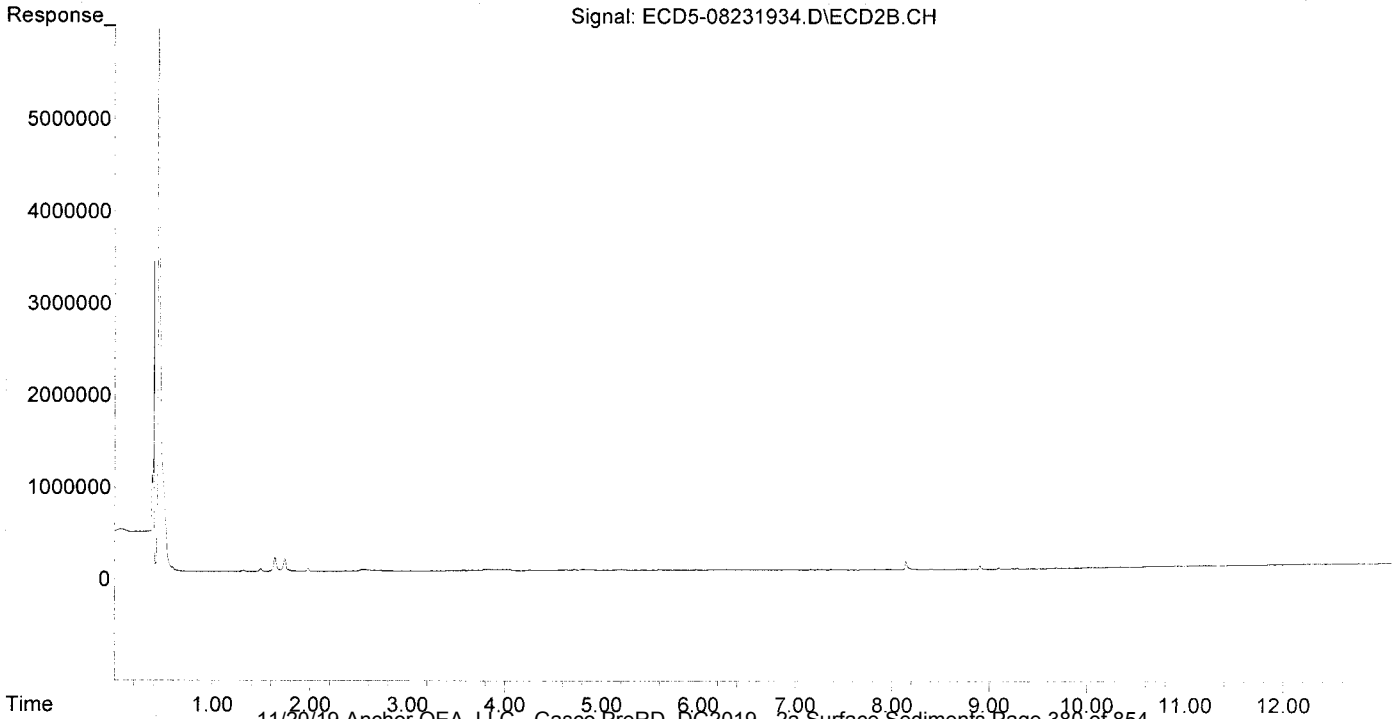
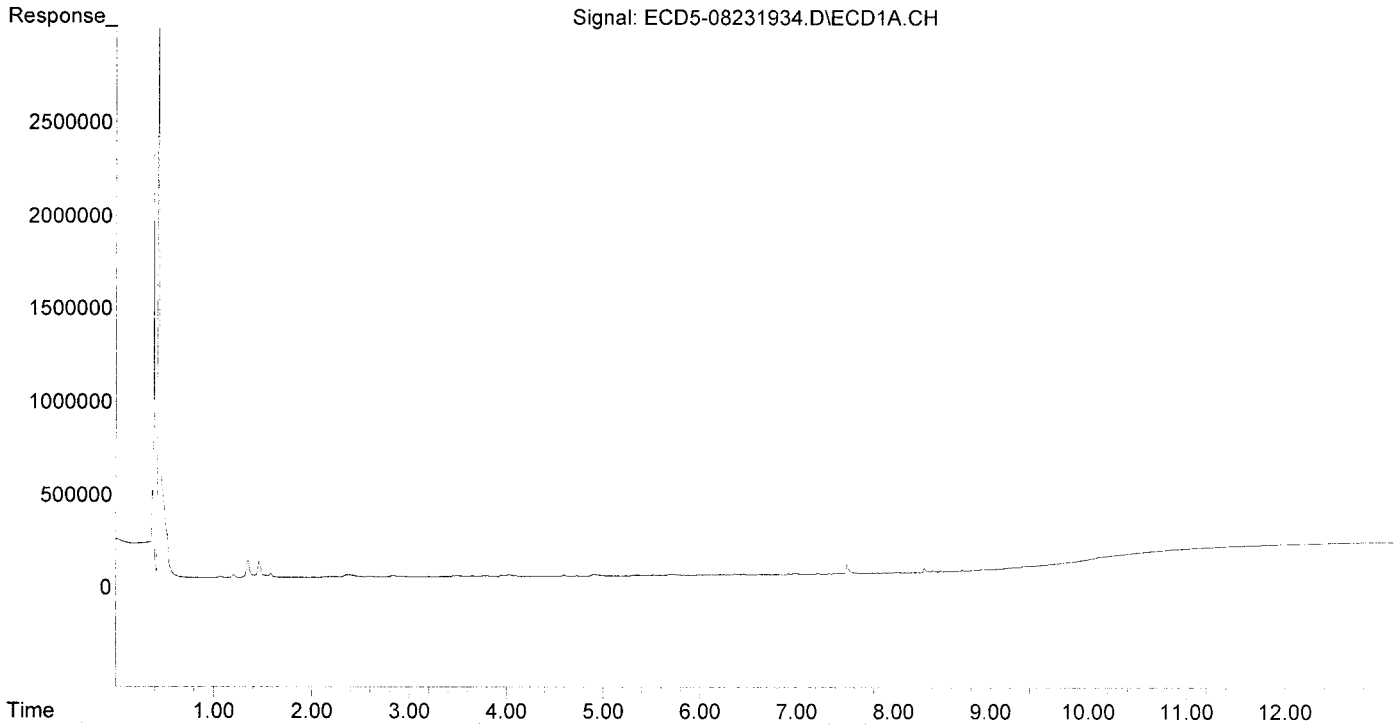
clean
MJB
8/26/19

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	5.976	0	5923	N.D.	0.020 #
22) S DCBP (S)	0.000	0.000	0	0	N.D.	N.D.
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D.	N.D.
3) g-BHC	6.207	0.000	3774	0	0.019	N.D. #
4) b-BHC	0.000	0.000	0	0	N.D.	N.D.
5) Heptachlor	6.609f	0.000	2731	0	0.015	N.D. #
6) d-BHC	6.450	7.231	5497	6832	0.028	0.019
7) Aldrin	0.000	0.000	0	0	N.D.	N.D.
8) Heptachlo...	0.000	0.000	0	0	N.D.	N.D.
9) trans-Chl...	0.000	8.142	0	83130	N.D.	0.265 #
10) cis-Chlor...	7.519	0.000	51396	0	0.282	N.D. #
11) Endosulfa...	0.000	0.000	0	0	N.D.	N.D.
12) 4,4'-DDE	0.000	0.000	0	0	N.D.	N.D.
13) Dieldrin	0.000	0.000	0	0	N.D.	N.D.
14) Endrin	0.000	0.000	0	0	N.D.	N.D.
15) 4,4'-DDD	8.023f	0.000	4578	0	0.029	N.D. #
16) Endosulfa...	8.116	8.861	1913	3871	0.013	0.017
17) 4,4'-DDT	0.000	0.000	0	0	N.D.	N.D.
18) Endrin Al...	8.405	9.098	8970	10610	BelowCal	BelowCal
19) Endosulfa...	8.706	9.288	7044	10525	0.045	0.042
20) Methoxychlor	8.536	0.000	1701	0	0.029	N.D. #
21) Endrin Ke...	8.919f	9.686	4032	9735	0.024	0.038 #
23) Hexachlor...	0.000	3.679	0	2600	N.D.	0.007 #
24) Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
25) Oxychlordane	0.000	0.000	0	0	N.D.	N.D.
26) 2,4'-DDE	0.000	8.142	0	83130	N.D. <i>ROI</i>	0.392 #
27) trans-Non...	7.519	0.000	51396	0	87346.414	N.D. #
28) 2,4'-DDD	0.000	0.000	0	0	N.D.	N.D.
29) 2,4'-DDT	0.000	0.000	0	0	N.D.	N.D.
30) cis-Nonac...	8.023f	0.000	4578	0	0.022	N.D. #
31) Mirex	0.000	9.686	0	9735	N.D.	0.052 #
32) Chlordane...	0.000	8.142	0	83130	N.D.	2.297 #
33) Chlordane...	7.519	0.000	51396	0	2.051	N.D. #
34) Chlordane...	0.000	8.904	0	38172	N.D.	4.258 #
35) Chlordane...	3.449	0.000	3828	0	NoCal	N.D.
36) Toxaphene...	7.519	0.000	51396	0	57.384	N.D. #
37) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.
38) Toxaphene...	8.116	8.861	1913	3871	0.568	0.764
39) Toxaphene...	8.316f	8.904	21302	38172	6.574	4.572
40) Toxaphene...	8.536f	9.098	1701	10610	0.709	2.277 #
41) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.
42) Toxaphene...	3.449	0.000	3828	0	NoCal	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231934.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 21:20
Operator : MJB
Sample : 9H23034-IBL3
Misc : Instrument Blank
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 26 15:03:15 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\
 Data File : ECD5-08231935.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 23 Aug 2019 21:37
 Operator : MJB
 Sample : 9H23034-ICV3
 Misc : A19F108, CHLOR 500 ppb
 ALS Vial : 28 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Aug 26 15:03:22 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB
8/26/19

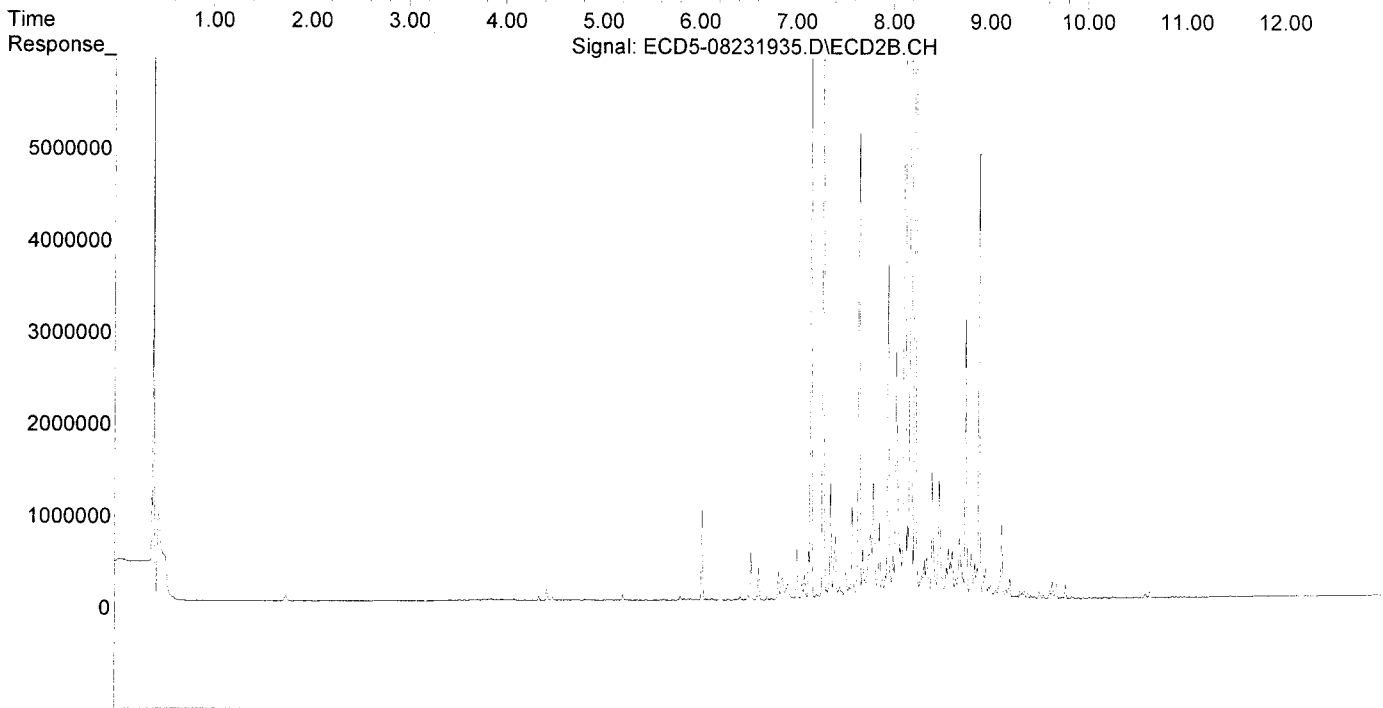
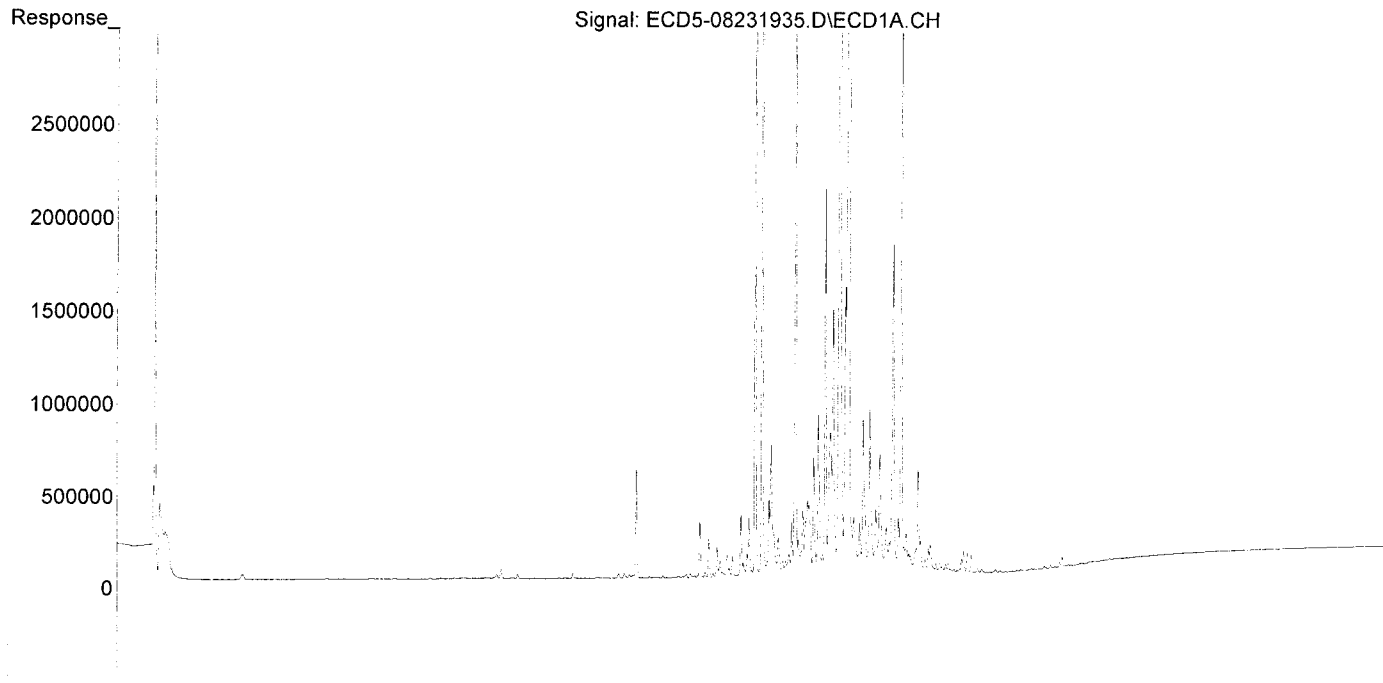
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	5.975	0	8961	N.D.	0.031 #
22) S DCBP (S)	9.601	10.507f	18796	7616	0.133	0.042 #
Target Compounds						
2) a-BHC	5.934	6.622f	9141	348363	0.040	0.849 #
3) g-BHC	6.194f	6.923	92353	182619	0.458	0.512 #
4) b-BHC	6.323f	7.017f	112667	560662	1.247	3.543 #
5) Heptachlor	6.630	7.288	4625489	7814185	25.513	25.538 #
6) d-BHC	6.412f	7.222	337700	61064	1.717	0.173 #
7) Aldrin	6.874	7.557	83911	133681	0.425	0.406 #
8) Heptachlo...	7.336	8.010	771372	473989	4.188	1.576 #
9) trans-Chl...	7.427	8.130	10721056	19872286	57.986	63.424 #
10) cis-Chlor...	7.520	8.238	13401062	16289264	73.603	55.929 #
11) Endosulfa...	7.639	8.310f	285254	253033	1.676	0.920 #
12) 4,4'-DDE	7.578	8.333	311083	429833	1.650	1.384 #
13) Dieldrin	7.806	8.488	355046	1298858	1.849	4.270 #
14) Endrin	7.984f	8.713	1829350	383068	12.442	1.696 #
15) 4,4'-DDD	7.984	8.759	1829350	3046940	11.641	11.892 #
16) Endosulfa...	8.118	8.873	216170	351371	1.505	1.524 #
17) 4,4'-DDT	0.000	8.994	0	130946	N.D.	0.725 #
18) Endrin Al...	8.427f	9.128f	55387	802635	BelowCal	3.530 #
19) Endosulfa...	8.708	9.290	120383	34589	0.777	0.139 #
20) Methoxychlor	8.552	9.463	53824	27882	0.919	0.160 #
21) Endrin Ke...	8.894	9.687	19548	156351	0.117	0.608 #
23) Hexachlor...	3.198	3.688	5435	10087	0.030	0.027 #
24) Hexachlor...	5.768	6.431f	8591	38244	0.049	0.122 #
25) Oxychlorodane	7.253	7.933	114695	258636	0.697	0.944 #
26) 2,4'-DDE	7.336	8.130	771372	19872286	6.014	93.676 #
27) trans-Non...	7.520	8.195	13401062	14312099	74.546	47.448 #
28) 2,4'-DDD	7.674f	8.488	831029	1298858	7.282	6.877 #
29) 2,4'-DDT	7.913f	8.713	254540	383068	2.321	2.148 #
30) cis-Nonac...	7.984	8.759	1829350	3046940	8.811	9.083 #
31) Mirex	8.643	9.687	16477	156351	0.131	0.840 #
32) Chlordane...	7.427	8.130	10721056	19872286	544.503	549.192 #
33) Chlordane...	7.520	8.238	13401062	16289264	534.667	536.465 #
34) Chlordane...	8.068	8.898	3177144	4850138	549.572	540.955 #
35) Chlordane...	3.448	0.000	3889	0	NoCal	N.D.
36) Toxaphene...	7.520	8.488f	13401062	1298858	14962.430	494.943 #
37) Toxaphene...	7.806	8.814	355046	496679	219.851	150.919 #
38) Toxaphene...	8.118	8.851	216170	383467	64.193	75.660 #
39) Toxaphene...	8.347	8.898	132572	4850138	40.915	580.866 #
40) Toxaphene...	8.552f	9.068f	53824	98957	22.453	21.234 #
41) Toxaphene...	8.643	9.463	16477	27882	5.207	5.870 #
42) Toxaphene...	3.448	0.000	3889	0	NoCal	N.D.

542.91
542.20

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231935.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 21:37
Operator : MJB
Sample : 9H23034-ICV3
Misc : A19F108, CHLOR 500 ppb
ALS Vial : 28 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 26 15:03:22 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\
 Data File : ECD5-08231942.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 23 Aug 2019 23:37
 Operator : MJB
 Sample : 9H23034-IBL4
 Misc : Instrument Blank
 ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Aug 26 15:03:28 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

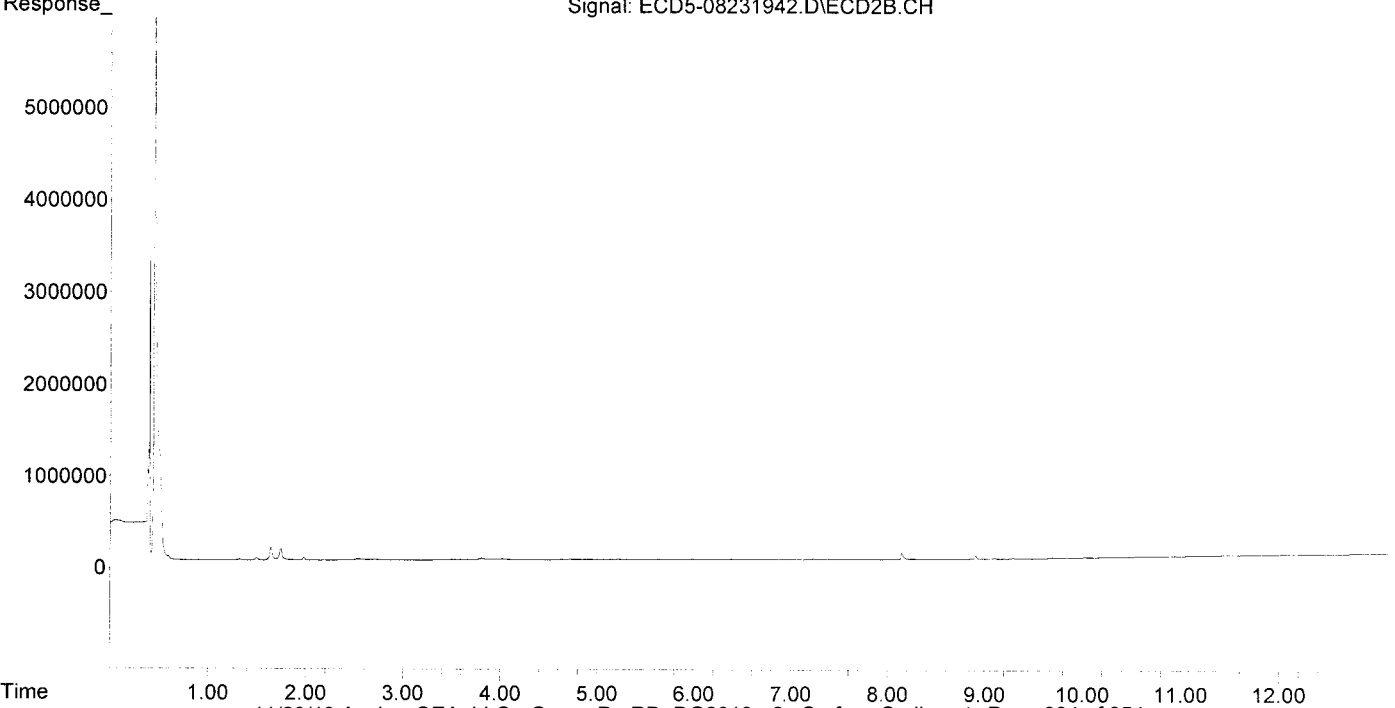
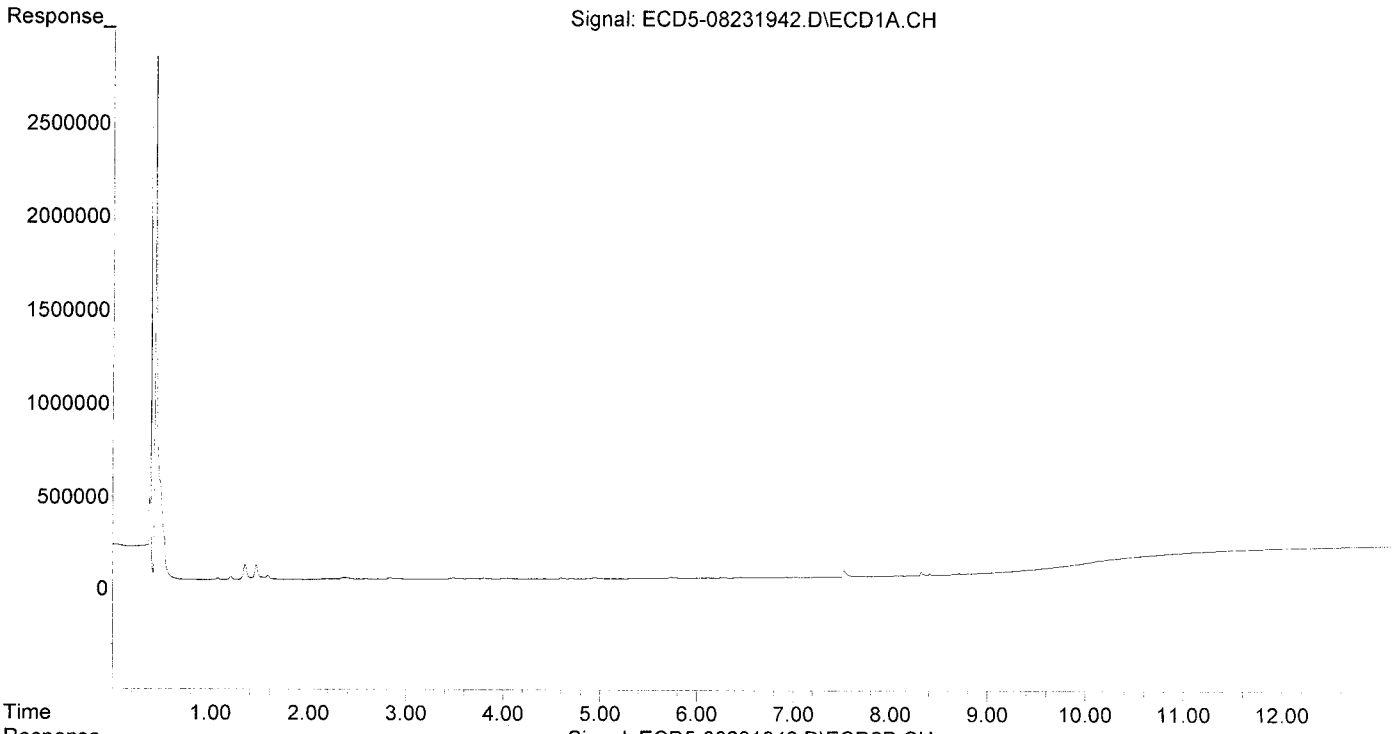
*MJB
8/26/19*

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	5.983	0	6142	N.D.	0.021 #
22) S DCBP (S)	0.000	0.000	0	0	N.D.	N.D.
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D.	N.D.
3) g-BHC	6.248f	0.000	4243	0	0.021	N.D. #
4) b-BHC	0.000	0.000	0	0	N.D.	N.D.
5) Heptachlor	0.000	0.000	0	0	N.D.	N.D.
6) d-BHC	6.450	7.232	5264	7410	0.027	0.021
7) Aldrin	0.000	0.000	0	0	N.D.	N.D.
8) Heptachlo...	7.334	0.000	1978	0	0.011	N.D. #
9) trans-Chl...	7.425	8.145	1693	72982	0.009	0.233 #
10) cis-Chlor...	7.522	0.000	38316	0	0.210	N.D. #
11) Endosulfa...	0.000	0.000	0	0	N.D.	N.D.
12) 4,4'-DDE	0.000	0.000	0	0	N.D.	N.D.
13) Dieldrin	0.000	0.000	0	0	N.D.	N.D.
14) Endrin	0.000	0.000	0	0	N.D.	N.D.
15) 4,4'-DDD	0.000	0.000	0	0	N.D.	N.D.
16) Endosulfa...	8.117	0.000	2505	0	0.017	N.D. #
17) 4,4'-DDT	8.194	0.000	767	0	0.006	N.D. #
18) Endrin Al...	8.406	9.100	10140	13686	BelowCal	BelowCal
19) Endosulfa...	8.707	9.290	7273	12897	0.047	0.052
20) Methoxychlor	8.540	0.000	2018	0	0.034	N.D. #
21) Endrin Ke...	8.901	9.687	3565	7207	0.021	0.028
23) Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
24) Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
25) Oxychlorane	0.000	0.000	0	0	N.D.	N.D.
26) 2,4'-DDE	7.334	8.145f	1978	72982	0.015	0.344 #
27) trans-Non...	7.522	0.000	38316	0	87346.487	N.D. #
28) 2,4'-DDD	0.000	0.000	0	0	N.D.	N.D.
29) 2,4'-DDT	0.000	0.000	0	0	N.D.	N.D.
30) cis-Nonac...	0.000	0.000	0	0	N.D.	N.D.
31) Mirex	8.644	9.687	766	7207	0.006	0.039 #
32) Chlordane...	7.425	8.145	1693	72982	0.086	2.017 #
33) Chlordane...	7.522	0.000	38316	0	1.529	N.D. #
34) Chlordane...	8.049	8.906	2785	37528	0.482	4.186 #
35) Chlordane...	3.451	0.000	3890	0	NoCal	N.D.
36) Toxaphene...	7.522f	0.000	38316	0	42.781	N.D. #
37) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.
38) Toxaphene...	8.117	0.000	2505	0	0.744	N.D. #
39) Toxaphene...	8.318f	8.906	18960	37528	5.852	4.495
40) Toxaphene...	8.540f	9.100	2018	13686	0.842	2.937 #
41) Toxaphene...	8.644	0.000	766	0	0.242	N.D. #
42) Toxaphene...	3.451	0.000	3890	0	NoCal	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231942.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 23:37
Operator : MJB
Sample : 9H23034-IBL4
Misc : Instrument Blank
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 26 15:03:28 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\
 Data File : ECD5-08231943.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 23 Aug 2019 23:54
 Operator : MJB
 Sample : 9H23034-ICV4
 Misc : A19D127, TOX 500 ppb
 ALS Vial : 35 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Aug 26 15:03:35 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
 Quant Title : Instrument: DualeCD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB
8/26/19

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	5.984	0	5611	N.D.	0.019 #
22) S DCBP (S)	9.591	10.521	22246	40017	0.158	0.223 #
Target Compounds						
2) a-BHC	5.949	6.596	3272	7415	0.014	0.018
3) g-BHC	6.247f	6.907	6246	18839	0.031	0.053 #
4) b-BHC	6.296	6.966	11447	24200	0.127	0.153
5) Heptachlor	6.631	7.293	23849	45477	0.132	0.149
6) d-BHC	6.434	7.233	11867	47325	0.060	0.134 #
7) Aldrin	6.871	7.582f	53004	119759	0.268	0.364
8) Heptachlo...	7.358f	7.984	250185	414973	1.358	1.379
9) trans-Chl...	7.445	8.135	315388	332556	1.706	1.061
10) cis-Chlor...	7.501f	8.220	426074	475646	2.340	1.633
11) Endosulfa...	7.629	8.295	511717	592244	3.007	2.152
12) 4,4'-DDE	7.551f	8.359	359885	753065	1.909	2.424
13) Dieldrin	7.794	8.506	766286	726725	3.992	2.389 #
14) Endrin	7.934f	8.711	607064	1341537	4.129	5.941 #
15) 4,4'-DDD	8.021	8.761	679517	912025	4.324	3.560
16) Endosulfa...	8.105	8.848	1638713	2447077	11.411	10.611
17) 4,4'-DDT	8.184	8.976	1416015	960593	11.844	5.508 #
18) Endrin Al...	8.392	9.091	1088580	2275708	8.285	11.454
19) Endosulfa...	8.709	9.291	549140	929201	3.543	3.730
20) Methoxychlor	8.543	9.470	549172	2364076	9.376	27.518 #
21) Endrin Ke...	8.893	9.712f	380224	458705	2.280	1.783
23) Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
24) Hexachlor...	5.813f	6.462	3660	6563	0.021	0.021
25) Oxychlorthane	7.265	7.936	334880	406205	2.035	1.483
26) 2,4'-DDE	7.358f	8.112	250185	466633	1.951	2.200
27) trans-Non...	7.501	8.205	426074	457454	2.062	1.517
28) 2,4'-DDD	7.712	8.506	575777	726725	5.045	3.848
29) 2,4'-DDT	7.898	8.711	911632	1341537	8.311	7.522
30) cis-Nonac...	7.982	8.761	1096031	912025	5.279	2.719 #
31) Mirex	8.641	9.712f	1546722	458705	12.338	2.465 #
32) Chlordane...	7.445	8.135	315388	332556	16.018	9.191 #
33) Chlordane...	7.501	8.220	426074	475646	16.999	15.665
34) Chlordane...	8.046f	8.915	705731	4045258	122.075	451.184 # A
35) Chlordane...	3.453	0.000	2732	0	NoCal	N.D. B
36) Toxaphene...	7.501	8.466	426074	1252556	475.717	477.299
37) Toxaphene...	7.794	8.813	766286	1618562	474.499	491.811
38) Toxaphene...	8.105	8.848	1638713	2447077	486.627	482.818
39) Toxaphene...	8.346	8.915	1570667	4045258	484.751	484.472
40) Toxaphene...	8.573	9.091	1186452	2275708	494.944	488.312
41) Toxaphene...	8.641	9.470	1546722	2364076	488.760	497.679
42) Toxaphene...	3.453	0.000	2732	0	NoCal	N.D.

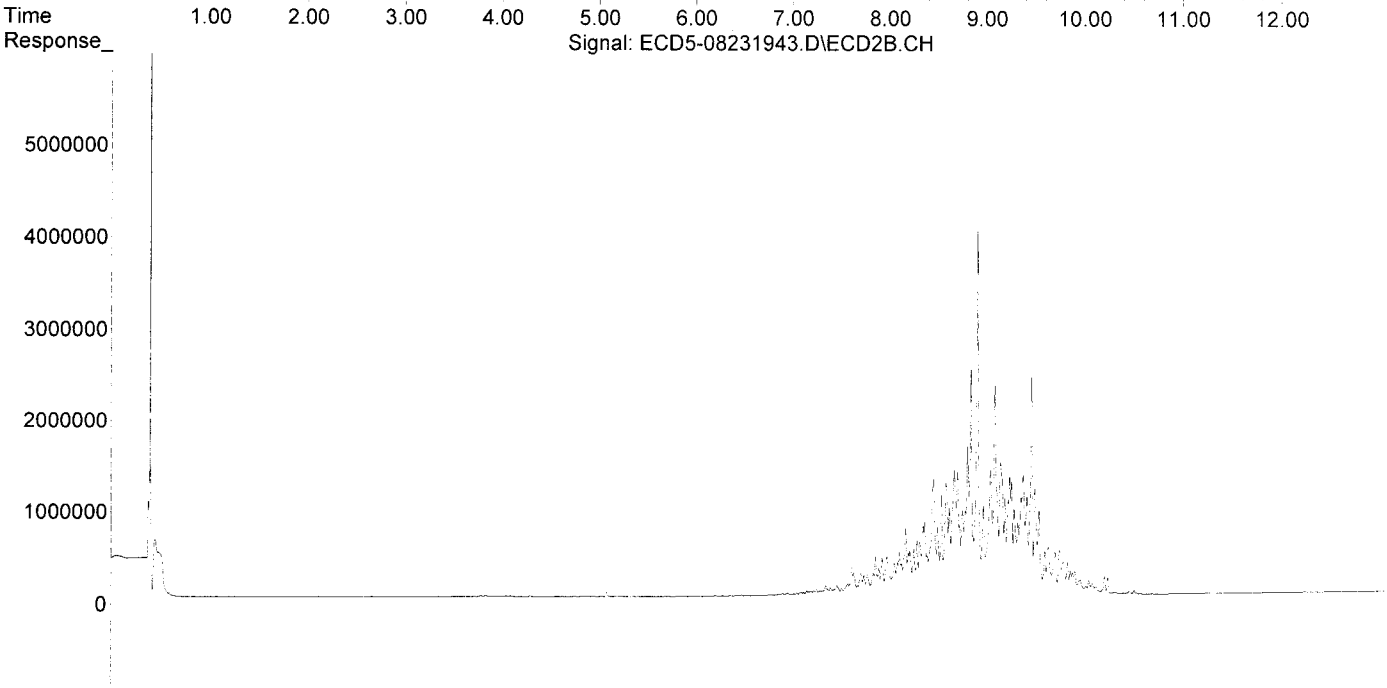
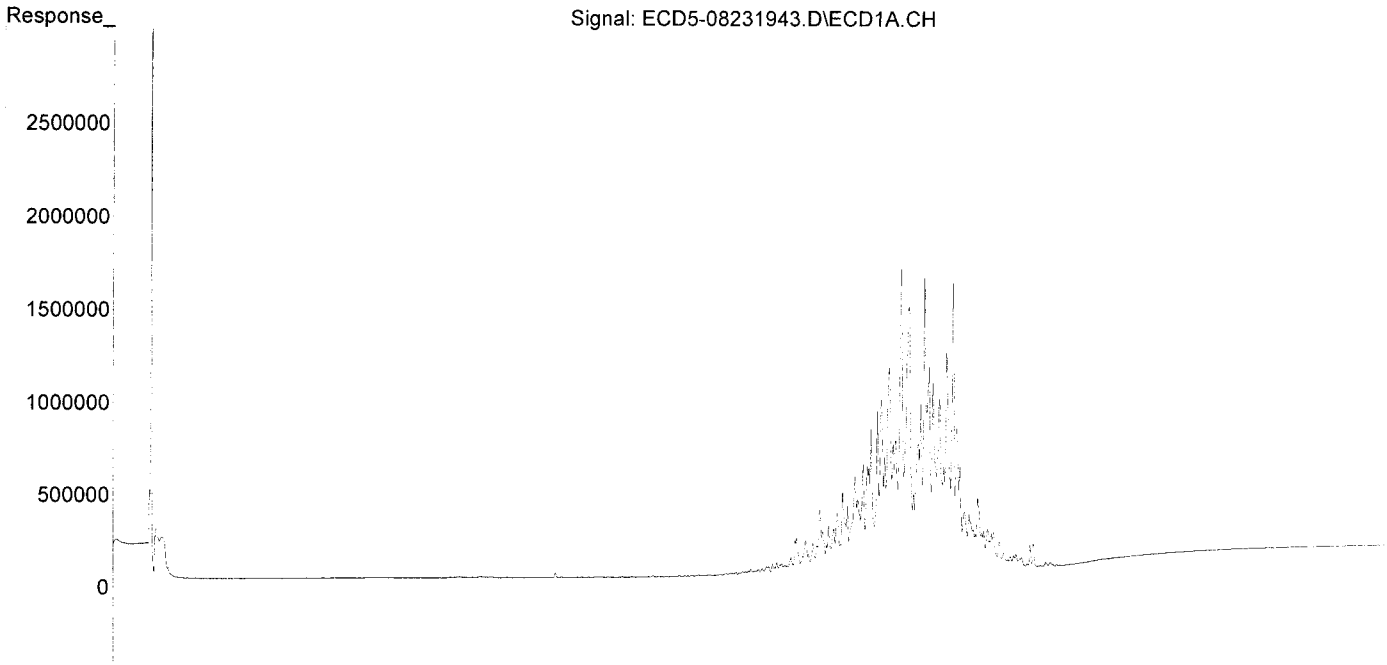
484.22 487.07

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231943.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 23:54
Operator : MJB
Sample : 9H23034-ICV4
Misc : A19D127, TOX 500 ppb
ALS Vial : 35 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 26 15:03:35 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : R:\data\2019-08\9H23034\REQUANT\
 Data File : ECD5-08231908.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 23 Aug 2019 13:51
 Operator : MJB
 Sample : 9H23034-CAL1
 Misc : A19E245, AB 1 ppb
 ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Aug 26 11:59:55 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 8/26/19

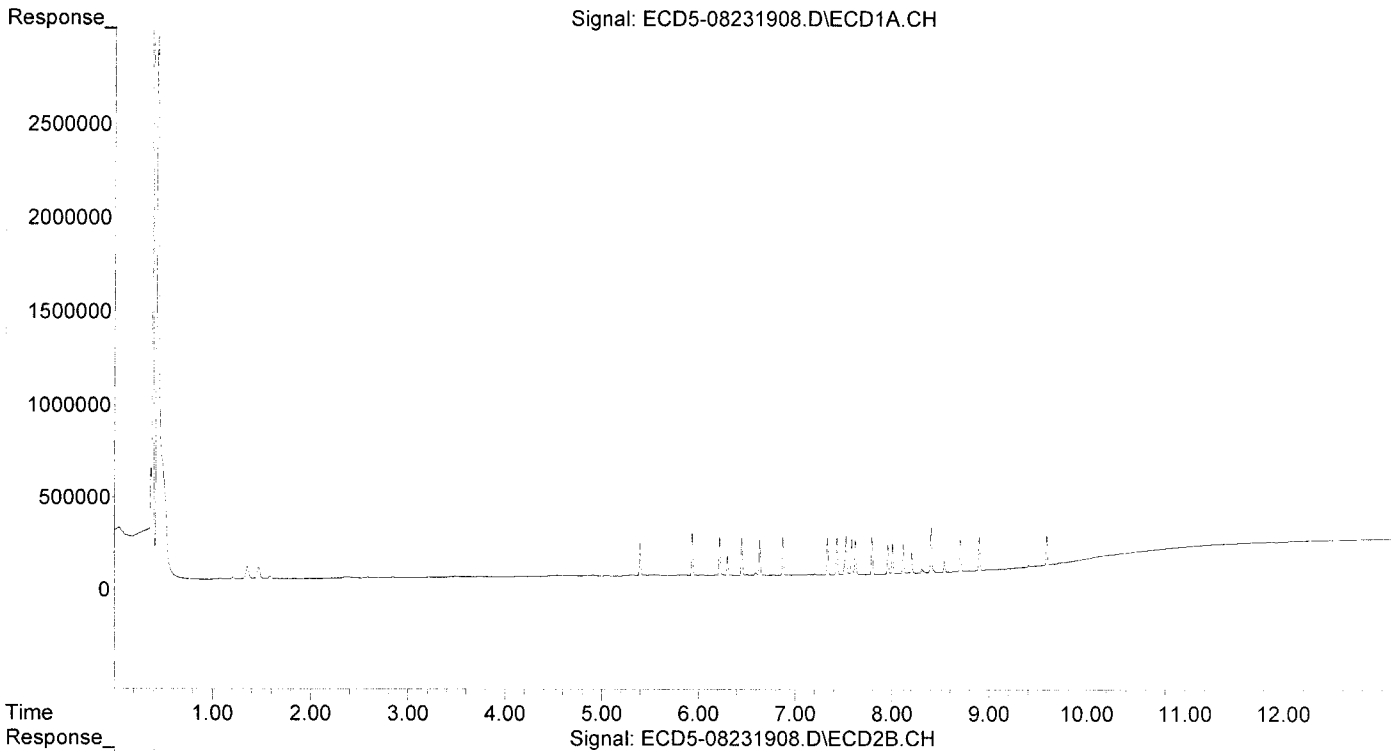
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.397	5.991	176748	300053	1.065	1.023
22) S DCBP (S)	9.593	10.541	163865	191572	1.161	1.066
Target Compounds						
2) a-BHC	5.937	6.597	231994	393119	1.012	0.958
3) g-BHC	6.221	6.915	207427	352286	1.028	0.988
4) b-BHC	6.300	6.980	104326	176262	1.154	1.114
5) Heptachlor	6.635	7.292	192066	309811	1.059	1.013
6) d-BHC	6.450	7.234	199840	349123	1.016	0.990
7) Aldrin	6.875	7.557	205523	317466	1.041	0.964
8) Heptachlo...	7.335	7.994	200503	310098	1.089	1.031
9) trans-Chl...	7.433	8.135	197202	364142	1.067	1.162
10) cis-Chlor...	7.528	8.241	209780	299422	1.152	1.028
11) Endosulfa...	7.625	8.291	185217	278874	1.088	1.013
12) 4,4'-DDE	7.586	8.346	193435	298463	1.026	0.961
13) Dieldrin	7.796	8.491	197721	296684	1.030	0.975
14) Endrin	7.961	8.718	156412	222882	1.064	0.987
15) 4,4'-DDD	8.007	8.760	164956	251549	1.050	0.982
16) Endosulfa...	8.118	8.865	158139	232156	1.101	1.007
17) 4,4'-DDT	8.205	8.986	113897	179700	0.953	1.008
18) Endrin Al...	8.407	9.101	241285	348624	1.050	1.058
19) Endosulfa...	8.708	9.292	176097	265797	1.136	1.067
20) Methoxychlor	8.543	9.466	59659	95155	1.019	0.994
21) Endrin Ke...	8.901	9.690	177552	255763	1.065	0.994
23) Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
24) Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
25) Oxychlorane	0.000	0.000	0	0	N.D.	N.D.
26) 2,4'-DDE	7.335	8.135	200503	364142	1.563	1.717
27) trans-Non...	7.528	0.000	209780	0	0.855	N.D. #
28) 2,4'-DDD	0.000	8.491	0	296684	N.D.	1.571 #
29) 2,4'-DDT	0.000	8.718	0	222882	N.D.	1.250 #
30) cis-Nonac...	8.007f	8.760	164956	251549	0.795	0.750
31) Mirex	0.000	9.690	0	255763	N.D.	1.375 #
32) Chlordane...	7.433	8.135	197202	364142	10.016	10.063
33) Chlordane...	7.528	8.241	209780	299422	8.370	9.861
34) Chlordane...	0.000	8.903	0	37787	N.D.	4.214 #
35) Chlordane...	3.445	0.000	4502	0	NoCal	N.D.
36) Toxaphene...	7.528f	8.491f	209780	296684	234.222	113.054 #
37) Toxaphene...	7.796	0.000	197721	0	122.432	N.D. #
38) Toxaphene...	8.118	8.865	158139	232156	46.960	45.805
39) Toxaphene...	8.312f	8.903	20859	37787	6.438	4.525
40) Toxaphene...	8.543f	9.101	59659	348624	24.888	74.806 #
41) Toxaphene...	0.000	9.466	0	95155	N.D.	20.032 #
42) Toxaphene...	3.445	0.000	4502	0	NoCal	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231908.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 13:51
Operator : MJB
Sample : 9H23034-CAL1
Misc : A19E245, AB 1 ppb
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 26 11:59:55 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
 Data File : ECD5-08231909.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 23 Aug 2019 14:08
 Operator : MJB
 Sample : 9H23034-CAL2
 Misc : A19E246, AB 2 ppb
 ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Aug 26 12:00:13 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB
8/26/19

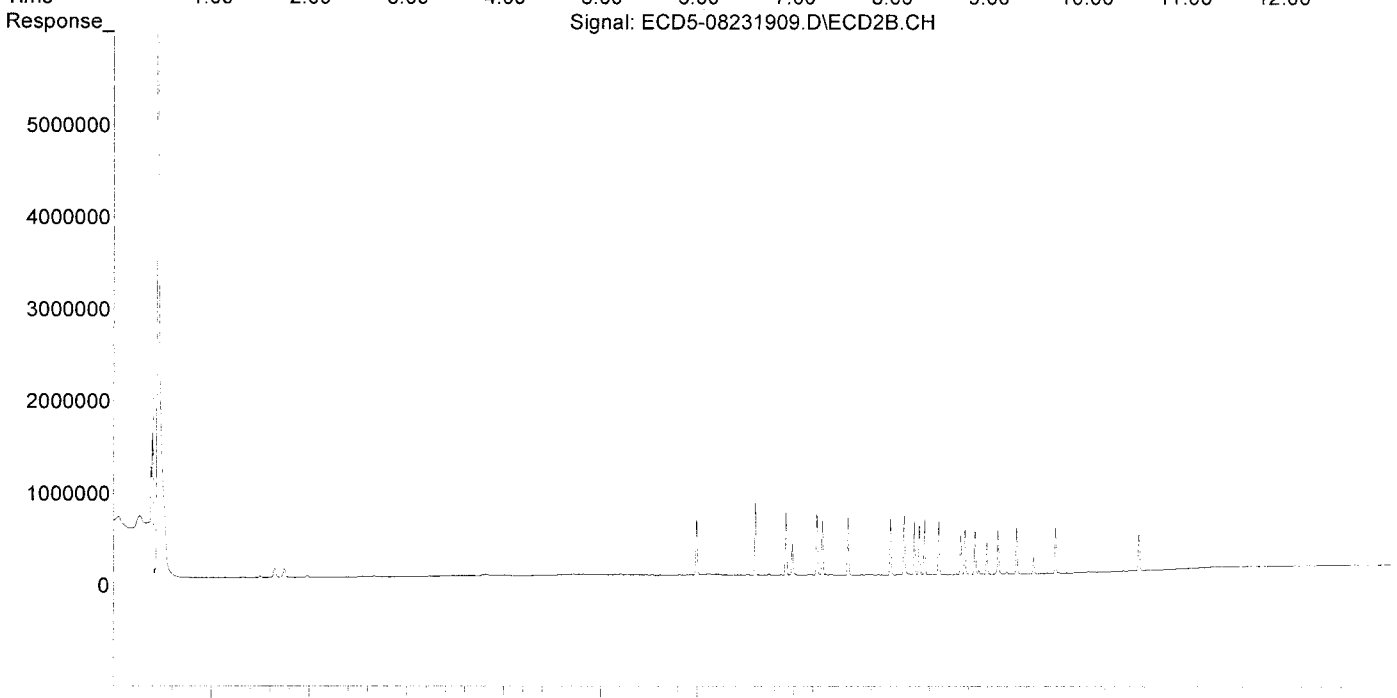
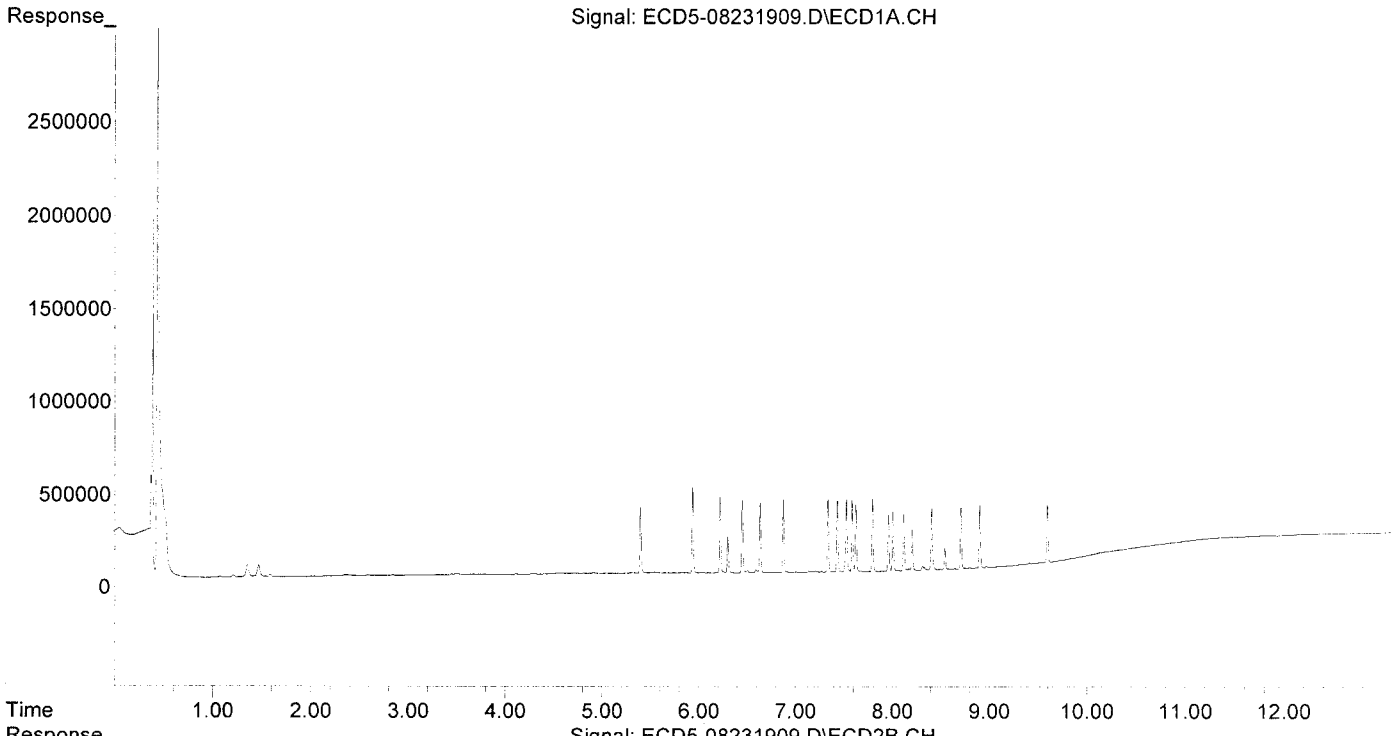
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.396	5.990	349972	600766	2.109	2.048
22) S DCBP (S)	9.593	10.542	309904	390006	2.196	2.170
Target Compounds						
2) a-BHC	5.936	6.597	458365	784586	1.999	1.912
3) g-BHC	6.220	6.915	406027	690922	2.012	1.937
4) b-BHC	6.300	6.980	194168	335260	2.148	2.118
5) Heptachlor	6.635	7.291	369615	586765	2.039	1.918
6) d-BHC	6.450	7.233	386980	669122	1.967	1.897
7) Aldrin	6.875	7.556	399550	635458	2.024	1.929
8) Heptachlo...	7.335	7.993	392052	606240	2.129	2.015
9) trans-Chl...	7.432	8.135	382271	644454	2.068	2.057
10) cis-Chlor...	7.527	8.241	389999	579667	2.142	1.990
11) Endosulfa...	7.625	8.291	357368	540442	2.100	1.964
12) 4,4'-DDE	7.586	8.345	388618	598066	2.061	1.925
13) Dieldrin	7.796	8.491	395728	583812	2.061	1.919
14) Endrin	7.960	8.718	298515	424889	2.030	1.881
15) 4,4'-DDD	8.006	8.760	314622	488120	2.002	1.905
16) Endosulfa...	8.118	8.864	299106	462256	2.083	2.005
17) 4,4'-DDT	8.204	8.986	218190	341782	1.825	1.948
18) Endrin Al...	8.407	9.101	328182	477694	1.795	1.763
19) Endosulfa...	8.707	9.291	322163	498767	2.079	2.002
20) Methoxychlor	8.542	9.465	111466	178074	1.903	2.018
21) Endrin Ke...	8.901	9.689	331269	493110	1.987	1.916
23) Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
24) Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
25) Oxychlordane	7.271	0.000	4709	0	0.029	N.D. #
26) 2,4'-DDE	7.335	8.135	392052	644454	3.057	3.038
27) trans-Non...	7.527	0.000	389999	0	1.861	N.D. #
28) 2,4'-DDD	0.000	8.491	0	583812	N.D.	3.091 #
29) 2,4'-DDT	0.000	8.718	0	424889	N.D.	2.382 #
30) cis-Nonac...	8.006f	8.760	314622	488120	1.515	1.455
31) Mirex	8.657	9.689	1737	493110	0.014	2.650 #
32) Chlordane...	7.432	8.135	382271	644454	19.415	17.810
33) Chlordane...	7.527	8.241	389999	579667	15.560	19.091
34) Chlordane...	8.065	8.903	2900	40429	0.502	4.509 #
35) Chlordane...	3.445	0.000	4897	0	NoCal	N.D.
36) Toxaphene...	7.527f	8.491f	389999	583812	435.438	222.468 #
37) Toxaphene...	7.796	0.000	395728	0	245.042	N.D. #
38) Toxaphene...	8.118	8.864	299106	462256	88.822	91.205
39) Toxaphene...	8.312f	8.903	21365	40429	6.594	4.842
40) Toxaphene...	8.582	9.101	2314	477694	0.965	102.502 #
41) Toxaphene...	8.657	9.465	1737	178074	0.549	37.488 #
42) Toxaphene...	3.445	0.000	4897	0	NoCal	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231909.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 14:08
Operator : MJB
Sample : 9H23034-CAL2
Misc : A19E246, AB 2 ppb
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 26 12:00:13 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
 Data File : ECD5-08231910.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 23 Aug 2019 14:25
 Operator : MJB
 Sample : 9H23034-CAL3
 Misc : A19E247, AB 5 ppb
 ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Aug 26 12:00:25 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

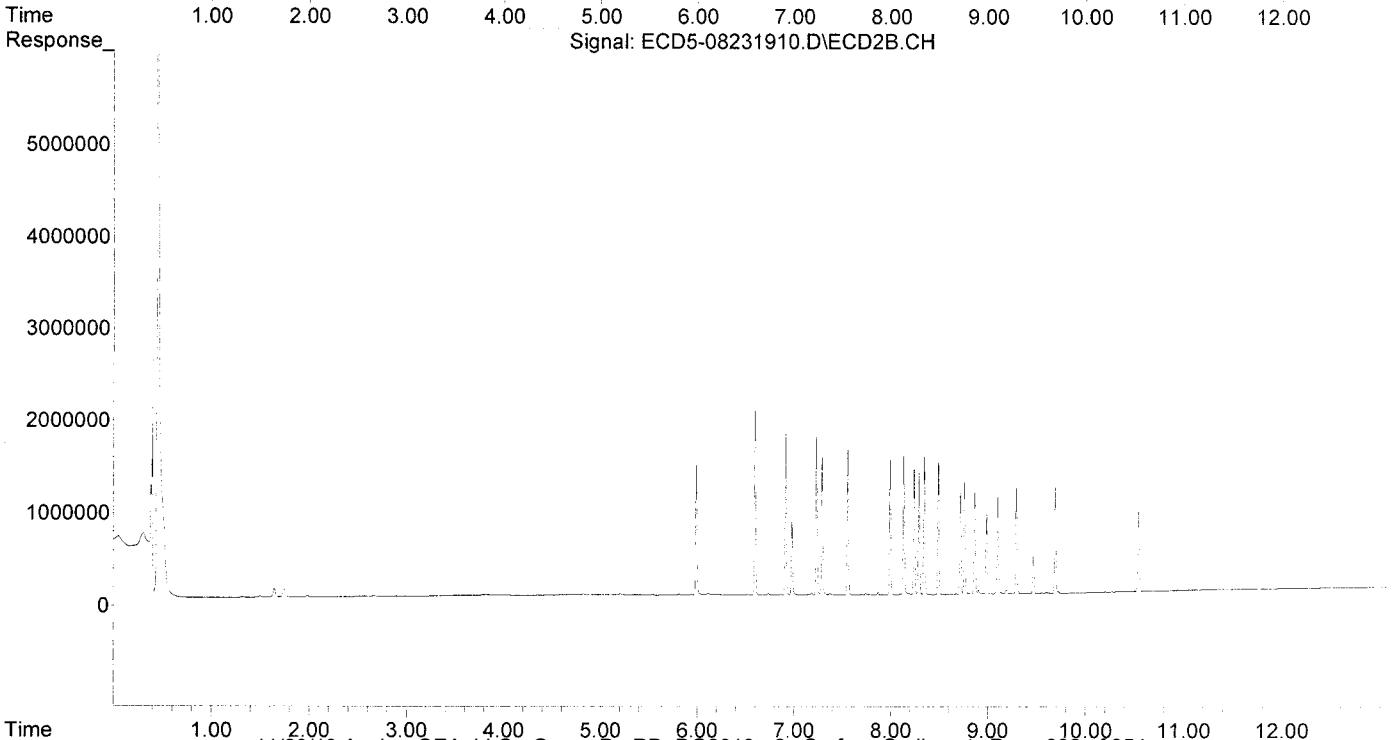
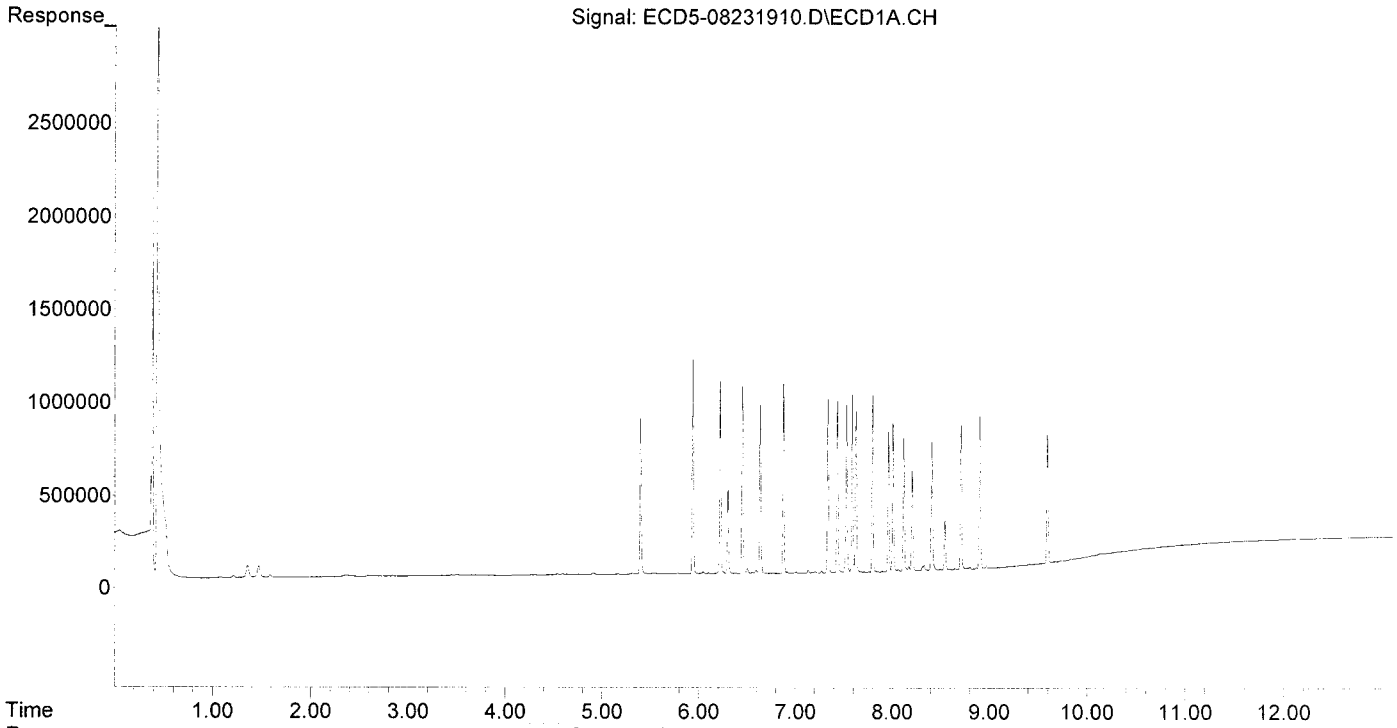
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.396	5.990	834206	1437876	5.026	4.901
22) S DCBP (S)	9.594	10.542	701050	870921	4.969	4.845
Target Compounds						
2) a-BHC	5.937	6.597	1147932	1985438	5.006	4.839
3) g-BHC	6.220	6.915	1020724	1742677	5.059	4.885
4) b-BHC	6.300	6.980	456954	788630	5.056	4.983
5) Heptachlor	6.635	7.291	899091	1508218	4.959	4.929
6) d-BHC	6.449	7.233	1004012	1717450	5.105	4.870
7) Aldrin	6.875	7.556	1012733	1600995	5.129	4.860
8) Heptachlo...	7.335	7.994	923620	1455941	5.015	4.839
9) trans-Chl...	7.432	8.134	926577	1502119	5.011	4.794
10) cis-Chlor...	7.528	8.241	908795	1434855	4.991	4.927
11) Endosulfa...	7.624	8.290	861509	1327191	5.062	4.823
12) 4,4'-DDE	7.586	8.345	953351	1487999	5.057	4.790
13) Dieldrin	7.796	8.491	972009	1462538	5.063	4.809
14) Endrin	7.960	8.718	738953	1092877	5.026	4.839
15) 4,4'-DDD	8.007	8.759	790498	1208642	5.031	4.717
16) Endosulfa...	8.118	8.865	709544	1096359	4.941	4.754
17) 4,4'-DDT	8.205	8.986	553009	873653	4.625	5.010
18) Endrin Al...	8.407	9.101	683393	1045869	4.834	4.849
19) Endosulfa...	8.708	9.291	768798	1175908	4.961	4.721
20) Methoxychlor	8.542	9.466	270388	413802	4.616	4.904
21) Endrin Ke...	8.901	9.689	811384	1205004	4.866	4.683
23) Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
24) Hexachlor...	5.782	0.000	4389	0	0.025	N.D. #
25) Oxychlordane	7.271	0.000	11672	0	0.071	N.D. #
26) 2,4'-DDE	7.335	8.134	923620	1502119	7.201	7.081
27) trans-Non...	7.528	0.000	908795	0	4.756	N.D. #
28) 2,4'-DDD	0.000	8.491	0	1462538	N.D.	7.744 #
29) 2,4'-DDT	7.894	8.718	3329	1092877	0.030	6.128 #
30) cis-Nonac...	8.007f	8.759	790498	1208642	3.808	3.603
31) Mirex	8.645	9.689	4292	1205004	0.034	6.476 #
32) Chlordane...	7.432	8.134	926577	1502119	47.059	41.513
33) Chlordane...	7.528	8.241	908795	1434855	36.259	47.255
34) Chlordane...	8.063	8.903	7555	42265	1.307	4.714 #
35) Chlordane...	3.446	0.000	4904	0	NoCal	N.D.
36) Toxaphene...	7.528f	8.491f	908795	1462538	1014.680	557.315 #
37) Toxaphene...	7.796	0.000	972009	0	601.886	N.D. #
38) Toxaphene...	8.118	8.865	709544	1096359	210.704	216.316
39) Toxaphene...	8.328	8.903	27348	42265	8.440	5.062 #
40) Toxaphene...	8.542f	9.101	270388	1045869	112.796	224.418 #
41) Toxaphene...	8.645	9.466	4292	413802	1.356	87.113 #
42) Toxaphene...	3.446	0.000	4904	0	NoCal	N.D.

MJB
8/26/19

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231910.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 14:25
Operator : MJB
Sample : 9H23034-CAL3
Misc : A19E247, AB 5 ppb
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 26 12:00:25 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : R:\data\2019-08\9H23034\REQUANT\
 Data File : ECD5-08231911.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 23 Aug 2019 14:42
 Operator : MJB
 Sample : 9H23034-CAL4
 Misc : A19E249, AB 10 ppb
 ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Aug 26 12:00:36 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

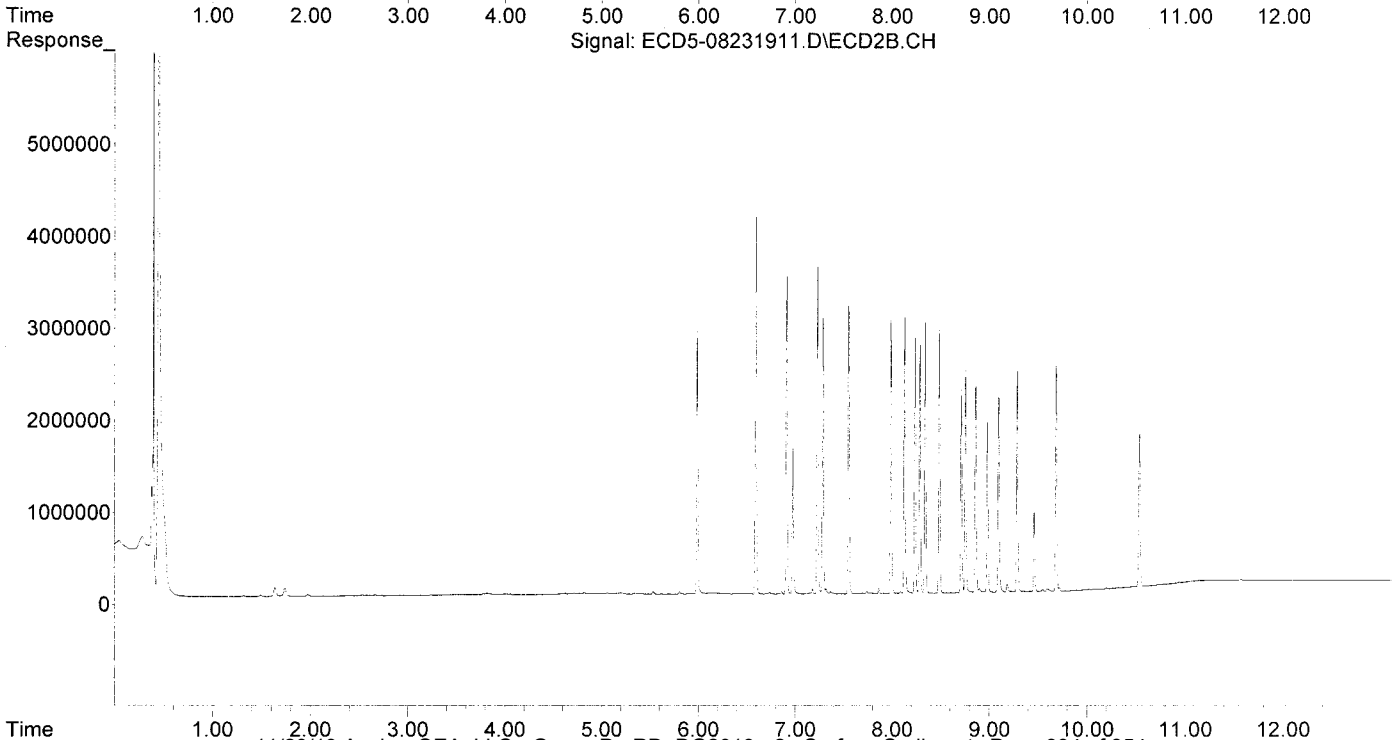
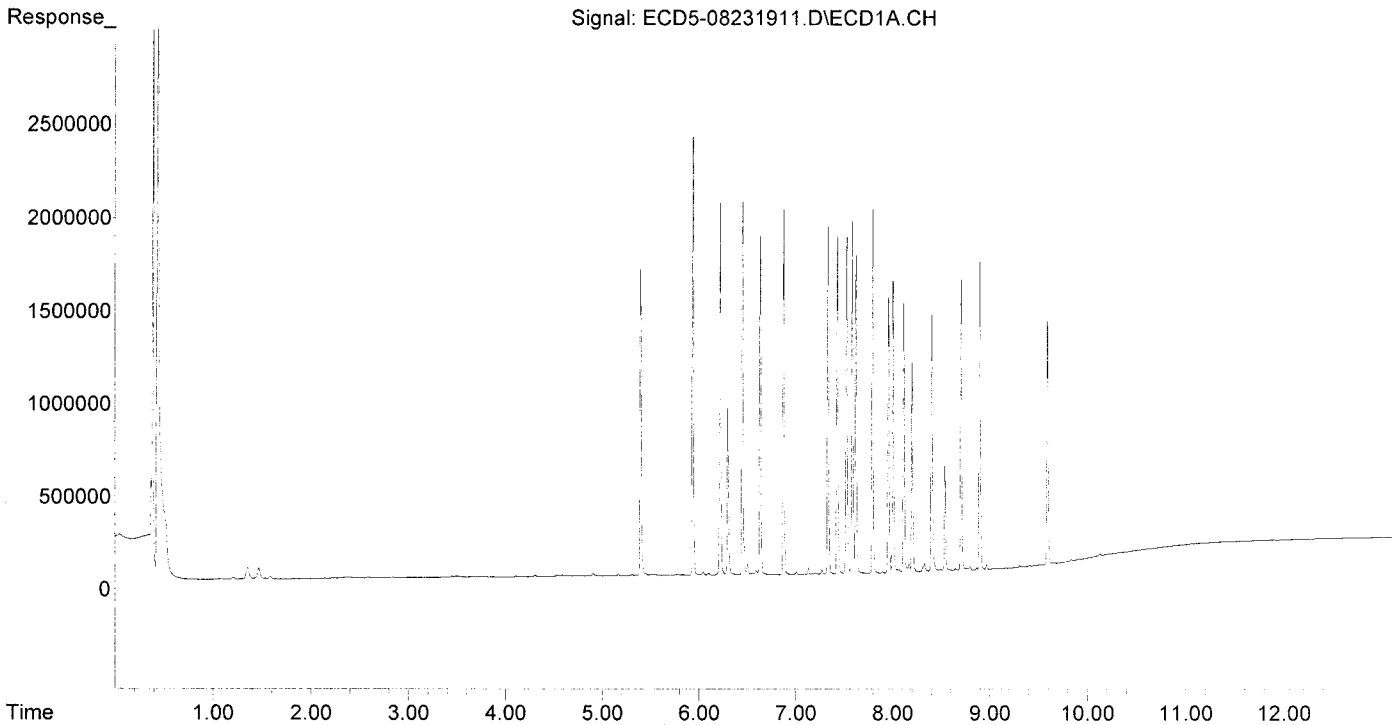
MJB 8/26/19

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.396	5.990	1644447	2865854	9.908	9.769
22) S DCBP (S)	9.593	10.541	1335468	1678728	9.465	9.339
Target Compounds						
2) a-BHC	5.936	6.597	2347065	4095890	10.234	9.982
3) g-BHC	6.220	6.915	2034859	3476733	10.085	9.747
4) b-BHC	6.299	6.980	910875	1580847	10.078	9.989
5) Heptachlor	6.634	7.291	1819621	3005915	10.037	9.824
6) d-BHC	6.449	7.234	2006493	3613517	10.201	10.246
7) Aldrin	6.875	7.556	2010802	3341093	10.184	10.143
8) Heptachlo...	7.335	7.994	1865428	2959301	10.128	9.837
9) trans-Chl...	7.431	8.134	1847996	3002782	9.995	9.584
10) cis-Chlor...	7.527	8.241	1843346	2859573	10.124	9.818
11) Endosulfa...	7.623	8.291	1709332	2724272	10.044	9.900
12) 4,4'-DDE	7.585	8.346	1890931	3049792	10.030	9.817
13) Dieldrin	7.795	8.491	1954890	2898866	10.183	9.531
14) Endrin	7.960	8.718	1475508	2244483	10.036	9.939
15) 4,4'-DDD	8.006	8.760	1565974	2425496	9.965	9.467
16) Endosulfa...	8.117	8.864	1448080	2243610	10.083	9.729
17) 4,4'-DDT	8.204	8.987	1146556	1841119	9.590	10.491
18) Endrin Al...	8.406	9.101	1375129	2125028	10.716	10.650
19) Endosulfa...	8.707	9.292	1553540	2424584	10.024	9.734
20) Methoxychlor	8.542	9.465	561706	883069	9.590	10.543
21) Endrin Ke...	8.900	9.689	1664380	2496985	9.981	9.704
23) Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
24) Hexachlor...	5.781	0.000	6414	0	0.036	N.D. #
25) Oxychlorane	7.271	0.000	23125	0	0.141	N.D. #
26) 2,4'-DDE	7.335	8.134	1865428	3002782	14.544	14.155
27) trans-Non...	7.527	0.000	1843346	0	9.974	N.D. #
28) 2,4'-DDD	0.000	8.491	0	2898866	N.D.	15.349 #
29) 2,4'-DDT	7.893	8.718	6940	2244483	0.063	12.585 #
30) cis-Nonac...	8.006f	8.760	1565974	2425496	7.543	7.231
31) Mirex	8.644	9.689	9584	2496985	0.076	13.419 #
32) Chlordane...	7.431	8.134	1847996	3002782	93.856	82.985
33) Chlordane...	7.527	8.241	1843346	2859573	73.545	94.176
34) Chlordane...	8.062	8.903	15147	46214	2.620	5.154 #
35) Chlordane...	3.446	0.000	4445	0	NoCal	N.D.
36) Toxaphene...	7.527f	8.491f	1843346	2898866	2058.116	1104.642 #
37) Toxaphene...	7.795	0.000	1954890	0	1210.504	N.D. #
38) Toxaphene...	8.117	8.864	1448080	2243610	430.018	442.674
39) Toxaphene...	8.328	8.903	47046	46214	14.520	5.535 #
40) Toxaphene...	8.542f	9.101	561706	2125028	234.323	455.980 #
41) Toxaphene...	8.644	9.465	9584	883069	3.029	185.901 #
42) Toxaphene...	3.446	0.000	4445	0	NoCal	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231911.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 14:42
Operator : MJB
Sample : 9H23034-CAL4
Misc : A19E249, AB 10 ppb
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 26 12:00:36 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
 Data File : ECD5-08231912.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 23 Aug 2019 15:00
 Operator : MJB
 Sample : 9H23034-CAL5
 Misc : A19E250, AB 25 ppb
 ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Aug 26 12:01:01 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

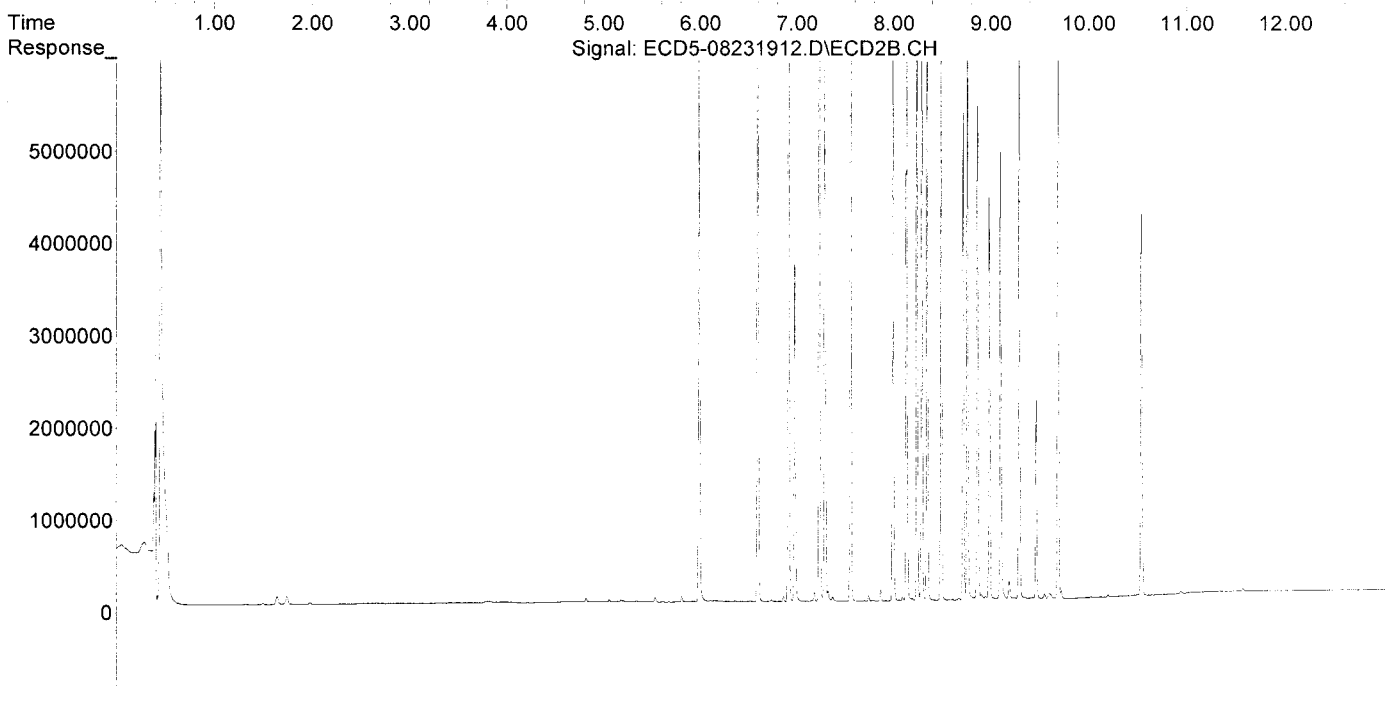
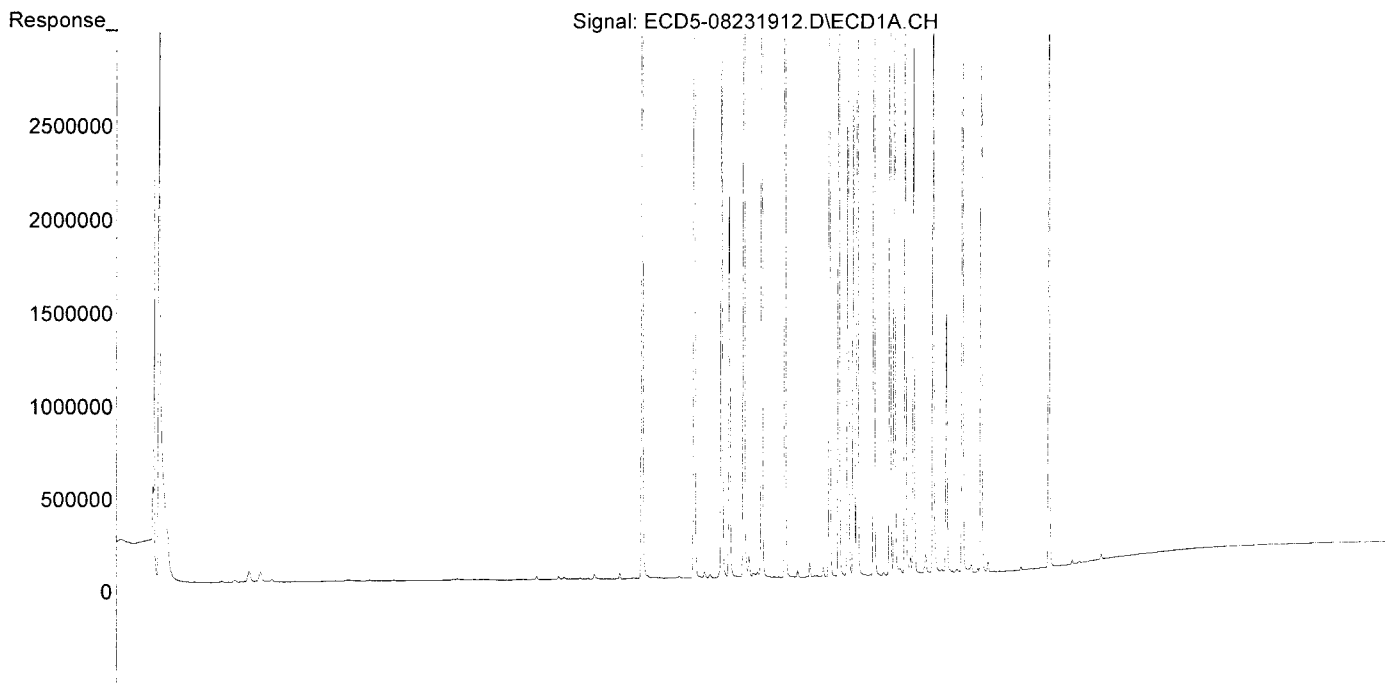
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.394	5.989	4015832	7072923	24.195	24.109
22) S DCBP (S)	9.592	10.539	3342634	4163229	23.690	23.160
Target Compounds						
2) a-BHC	5.935	6.596	5553096	9910863	24.215	24.153
3) g-BHC	6.218	6.913	4875657	8508386	24.164	23.853
4) b-BHC	6.297	6.978	2060378	3677155	22.796	23.234
5) Heptachlor	6.633	7.289	4314306	7282282	23.797	23.800
6) d-BHC	6.447	7.232	4667166	8247775	23.729	23.387
7) Aldrin	6.873	7.555	4845355	7878574	24.540	23.919
8) Heptachlo...	7.332	7.992	4344286	7064729	23.587	23.483
9) trans-Chl...	7.429	8.131	4401456	7157480	23.806	22.844
10) cis-Chlor...	7.525	8.239	4244413	6935857	23.312	23.814
11) Endosulfa...	7.621	8.288	4111285	6571512	24.158	23.881
12) 4,4'-DDE	7.583	8.343	4571066	7501047	24.246	24.144
13) Dieldrin	7.792	8.489	4582306	7333890	23.869	24.113
14) Endrin	7.957	8.716	3508904	5325883	23.866	23.584
15) 4,4'-DDD	8.004	8.758	3727035	6146469	23.718	23.990
16) Endosulfa...	8.115	8.862	3371864	5447602	23.479	23.623
17) 4,4'-DDT	8.202	8.984	2924467	4480388	24.460	24.907
18) Endrin Al...	8.404	9.099	3119767	4848504	25.346	24.953
19) Endosulfa...	8.705	9.289	3645411	5978906	23.522	24.003
20) Methoxychlor	8.540	9.463	1390283	2166659	23.735	25.322
21) Endrin Ke...	8.899	9.688	4008958	5893691	24.041	22.904
23) Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
24) Hexachlor...	5.779	0.000	7817	0	0.044	N.D. #
25) Oxychlordane	7.269	0.000	51278	0	0.312	N.D. #
26) 2,4'-DDE	7.332	8.131	4344286	7157480	33.871	33.740
27) trans-Non...	7.525	8.192	4244413	24831	23.380	0.082 #
28) 2,4'-DDD	0.000	8.489	0	7333890	N.D.	38.832 #
29) 2,4'-DDT	7.891	8.716	15573	5325883	0.142	29.864 #
30) cis-Nonac...	8.004	8.758	3727035	6146469	17.952	18.323
31) Mirex	8.651	9.688	18145	5893691	0.145	31.674 #
32) Chlordane...	7.429	8.131	4401456	7157480	223.542	197.805
33) Chlordane...	7.525	8.239	4244413	6935857	169.341	228.423
34) Chlordane...	8.059	8.901	33094	57884	5.724	6.456
35) Chlordane...	3.446	0.000	4689	0	NoCal	N.D.
36) Toxaphene...	7.525f	8.489f	4244413	7333890	4738.933	2794.653 #
37) Toxaphene...	7.792	0.000	4582306	0	2837.449	N.D. #
38) Toxaphene...	8.115	8.862	3371864	5447602	1001.299	1074.835
39) Toxaphene...	8.326f	8.901	104762	57884	32.332	6.932 #
40) Toxaphene...	8.540f	9.099	1390283	4848504	579.975	1040.371 #
41) Toxaphene...	8.651	9.463	18145	2166659	5.734	456.119 #
42) Toxaphene...	3.446	0.000	4689	0	NoCal	N.D.

NB
(2611)

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231912.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 15:00
Operator : MJB
Sample : 9H23034-CAL5
Misc : A19E250, AB 25 ppb
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 26 12:01:01 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
 Data File : ECD5-08231913.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 23 Aug 2019 15:17
 Operator : MJB
 Sample : 9H23034-CAL6
 Misc : A19H383, AB 50 ppb
 ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Aug 26 12:01:12 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 8/26/19

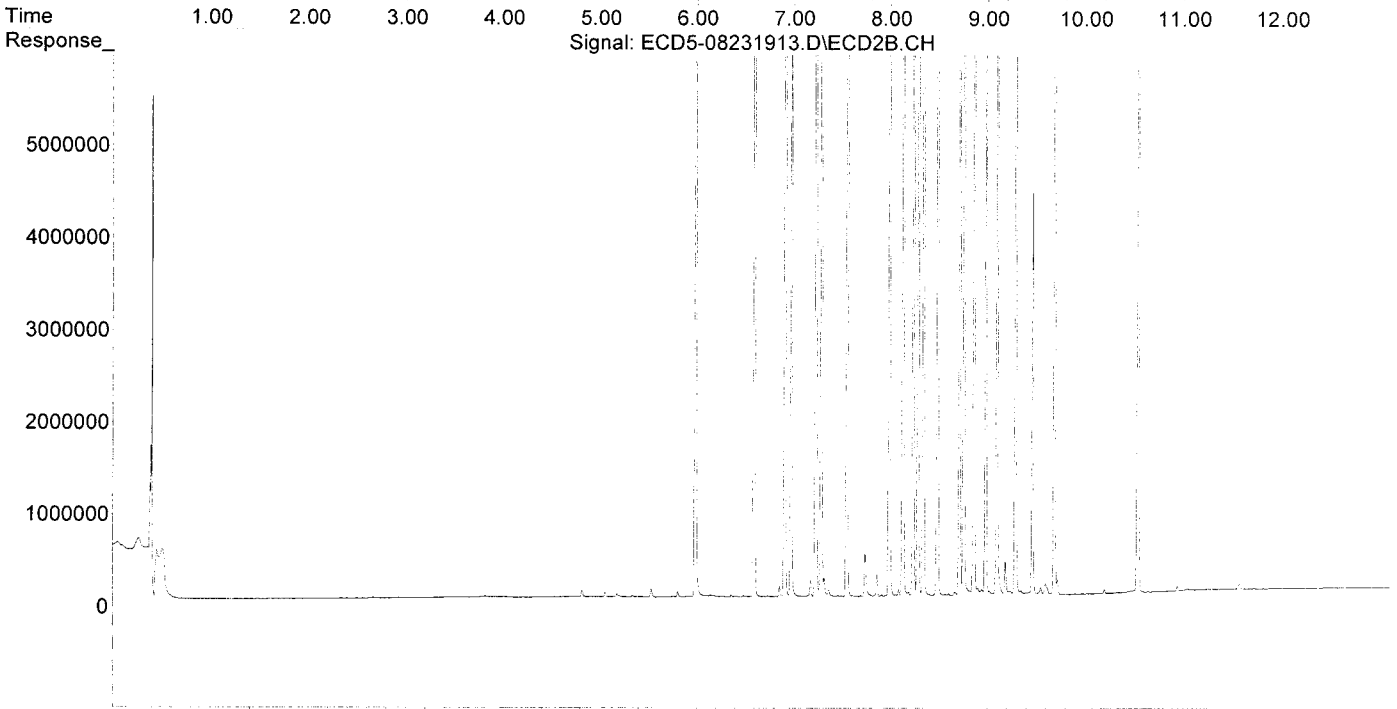
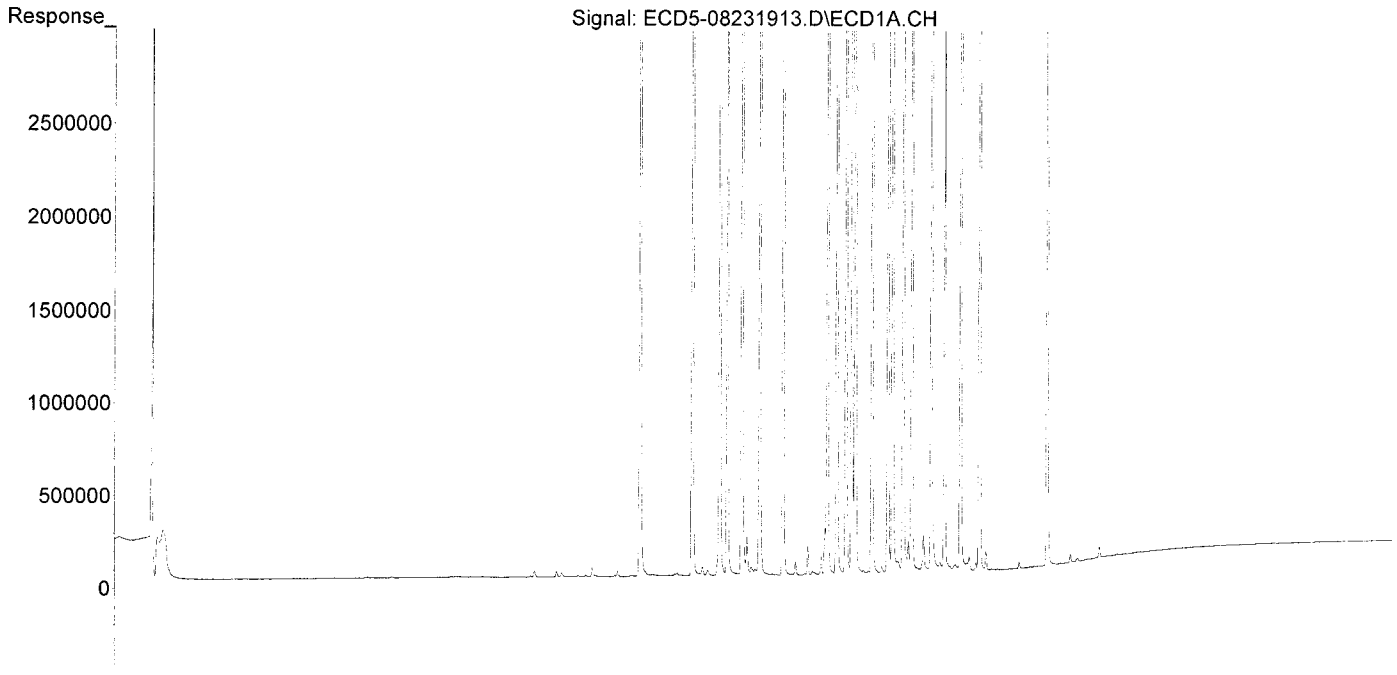
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.394	5.989	8071481	14196745	48.631	48.392
22) S DCBP (S)	9.592	10.541	6678990	8730692	47.336	48.568
Target Compounds						
2) a-BHC	5.935	6.596	11369592	20265817	49.578	49.388
3) g-BHC	6.218	6.914	9785999	17381069	48.499	48.727
4) b-BHC	6.296	6.978	4100858	7516011	45.372	47.490
5) Heptachlor	6.632	7.290	8735158	14595143	48.182	47.700
6) d-BHC	6.447	7.232	9610742	17311258	48.862	49.087
7) Aldrin	6.873	7.555	9327672	16264416	47.242	49.377
8) Heptachlo...	7.332	7.992	8869300	14837794	48.156	49.320
9) trans-Chl...	7.428	8.131	8959305	14678719	48.457	46.848
10) cis-Chlor...	7.524	8.238	8622674	14002116	47.359	48.076
11) Endosulfa...	7.621	8.289	7984410	13712329	46.917	49.831
12) 4,4'-DDE	7.583	8.344	9177389	15554706	48.679	50.067
13) Dieldrin	7.792	8.489	9386664	15434113	48.894	50.745
14) Endrin	7.957	8.716	6979572	11015379	47.471	48.778
15) 4,4'-DDD	8.004	8.758	7726197	13159451	49.167	51.361
16) Endosulfa...	8.114	8.863	6840920	11534525	47.635	50.018
17) 4,4'-DDT	8.202	8.985	6205369	9285492	51.902	49.430
18) Endrin Al...	8.404	9.099	6224451	10209034	50.697	51.836
19) Endosulfa...	8.705	9.289	7420576	12149289	47.882	48.775
20) Methoxychlor	8.540	9.464	2860683	4346199	48.839	48.597
21) Endrin Ke...	8.899	9.687	8190707	12954568	49.117	50.345
23) Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
24) Hexachlor...	5.777	6.487f	17034	6623	0.097	0.021 #
25) Oxychlorane	7.268	7.916	93115	13858	0.566	0.051 #
26) 2,4'-DDE	7.332	8.131	8869300	14678719	69.150	69.194
27) trans-Non...	7.524	8.193	8622674	44541	47.838	0.148 #
28) 2,4'-DDD	7.705	8.489	15706	15434113	0.138	81.721 #
29) 2,4'-DDT	7.890	8.716	32276	11015379	0.294	61.766 #
30) cis-Nonac...	8.004	8.758	7726197	13159451	37.214	39.229
31) Mirex	8.653	9.687	33100	12954568	0.264	69.621 #
32) Chlordane...	7.428	8.131	8959305	14678719	455.027	405.662
33) Chlordane...	7.524	8.238	8622674	14002116	344.022	461.141
34) Chlordane...	8.059	8.901	56505	76664	9.774	8.551
35) Chlordane...	3.445	0.000	3954	0	NoCal	N.D.
36) Toxaphene...	7.524f	8.489f	8622674	15434113	9627.309	5881.324
37) Toxaphene...	7.792	8.823	9386664	45987	5812.397	13.973 #
38) Toxaphene...	8.114	8.863	6840920	11534525	2031.460	2275.810
39) Toxaphene...	8.325f	8.901	190344	76664	58.746	9.182 #
40) Toxaphene...	8.540f	9.099	2860683	10209034	1193.372	2190.611 #
41) Toxaphene...	8.653	9.464	33100	4346199	10.460	914.950 #
42) Toxaphene...	3.445	0.000	3954	0	NoCal	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231913.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 15:17
Operator : MJB
Sample : 9H23034-CAL6
Misc : A19H383, AB 50 ppb
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 26 12:01:12 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
 Data File : ECD5-08231914.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 23 Aug 2019 15:34
 Operator : MJB
 Sample : 9H23034-CAL7
 Misc : A19H382, AB 100 ppb
 ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Aug 26 12:01:22 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.395	5.989	15850922	29256334	95.502	99.726
22) S DCBP (S)	9.592	10.540	13405396	17784069	95.007	98.931
Target Compounds						
2) a-BHC	5.935	6.596	22363584	41699210	97.517	101.621
3) g-BHC	6.218	6.914	19595093	36788994	97.113	103.136
4) b-BHC	6.296	6.977	8355416	14625175	92.444	92.409
5) Heptachlor	6.632	7.289	17551528	30277818	96.811	98.955
6) d-BHC	6.446	7.232	19475580	35176633	99.016	99.745
7) Aldrin	6.872	7.555	19108074	33906422	96.776	102.936
8) Heptachlo...	7.331	7.991	17318444	30045511	94.031	99.869
9) trans-Chl...	7.427	8.131	17732791	30742272	95.909	98.116
10) cis-Chlor...	7.523	8.238	16742584	29042863	91.956	99.719
11) Endosulfa...	7.619	8.288	16089996	27212707	94.547	98.892
12) 4,4'-DDE	7.582	8.344	18052552	32499603	95.754	104.609
13) Dieldrin	7.791	8.488	18324422	31001958	95.450	101.930
14) Endrin	7.957	8.715	13812708	23102413	93.947	102.301
15) 4,4'-DDD	8.003	8.758	15437146	26297484	98.238	102.639
16) Endosulfa...	8.113	8.861	13543500	23016371	94.307	99.808
17) 4,4'-DDT	8.201	8.984	12176961	19789501	101.848	97.215
18) Endrin Al...	8.403	9.098	12363806	20502737	98.526	99.562
19) Endosulfa...	8.704	9.289	14366789	24477320	92.702	98.268
20) Methoxychlor	8.539	9.463	5877329	9444987	100.340	96.538
21) Endrin Ke...	8.898	9.687	16251943	26636559	97.458	103.517
23) Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
24) Hexachlor...	5.777	0.000	29252	0	0.166	N.D. #
25) Oxychlorane	7.267	7.915	165864	25145	1.008	0.092 #
26) 2,4'-DDE	7.331	8.131	17318444	30742272	135.025	144.916
27) trans-Non...	7.523	8.192	16742584	77338	93.233	0.256 #
28) 2,4'-DDD	7.704	8.488	32176	31001958	0.282	164.150 #
29) 2,4'-DDT	7.889	8.715	66298	23102413	0.604	129.542 #
30) cis-Nonac...	8.003	8.758	15437146	26297484	74.355	78.395
31) Mirex	8.651	9.687	63592	26636559	0.507	143.151 #
32) Chlordane...	7.427	8.131	17732791	30742272	900.616	849.596
33) Chlordane...	7.523	8.238	16742584	29042863	667.985	956.488 #
34) Chlordane...	8.059	8.899	102306	115089	17.697	12.836
35) Chlordane...	3.447	0.000	5362	0	NoCal	N.D.
36) Toxaphene...	7.523f	8.488f	16742584	31001958	18693.275	11813.609
37) Toxaphene...	7.791	0.000	18324422	0	11346.823	N.D. #
38) Toxaphene...	8.113	8.861	13543500	23016371	4021.839	4541.226
39) Toxaphene...	8.324f	8.899	362066	115089	111.744	13.783 #
40) Toxaphene...	8.598f	9.098	51910	20502737	21.655	4399.391 #
41) Toxaphene...	8.651	9.463	63592	9444987	20.095	1988.334 #
42) Toxaphene...	3.447	0.000	5362	0	NoCal	N.D.

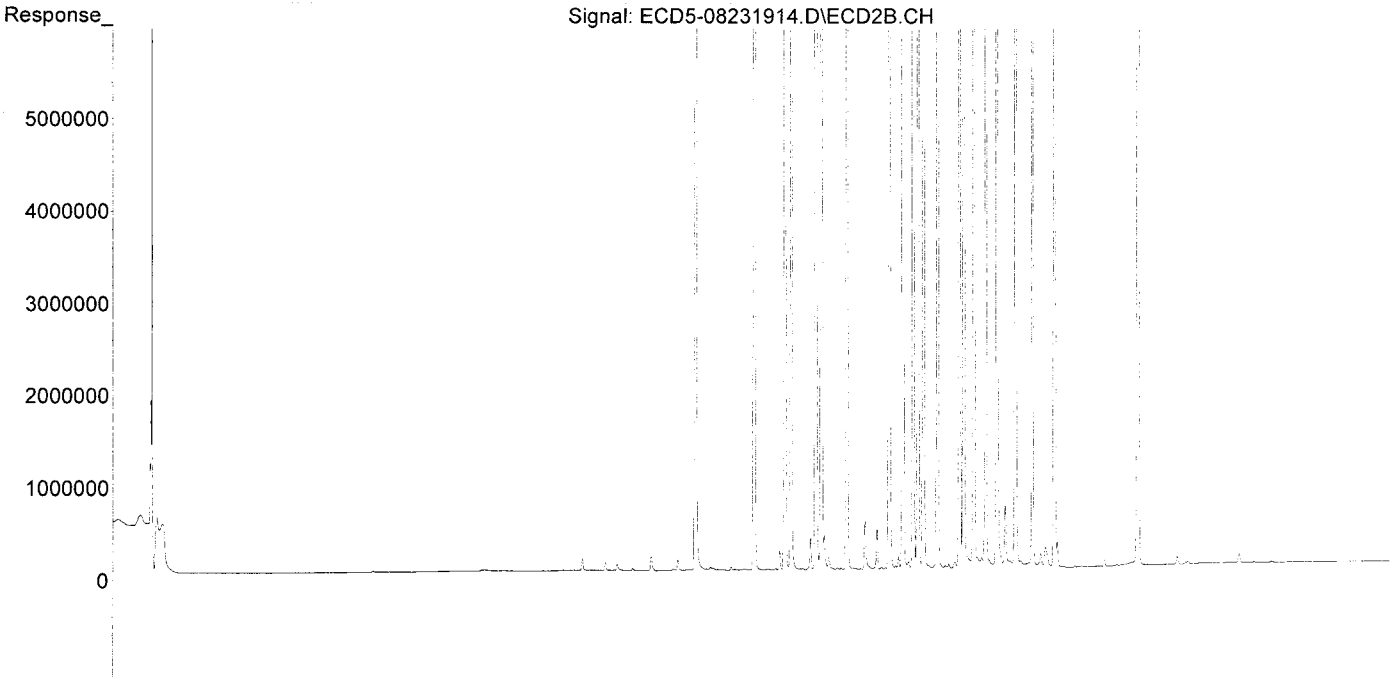
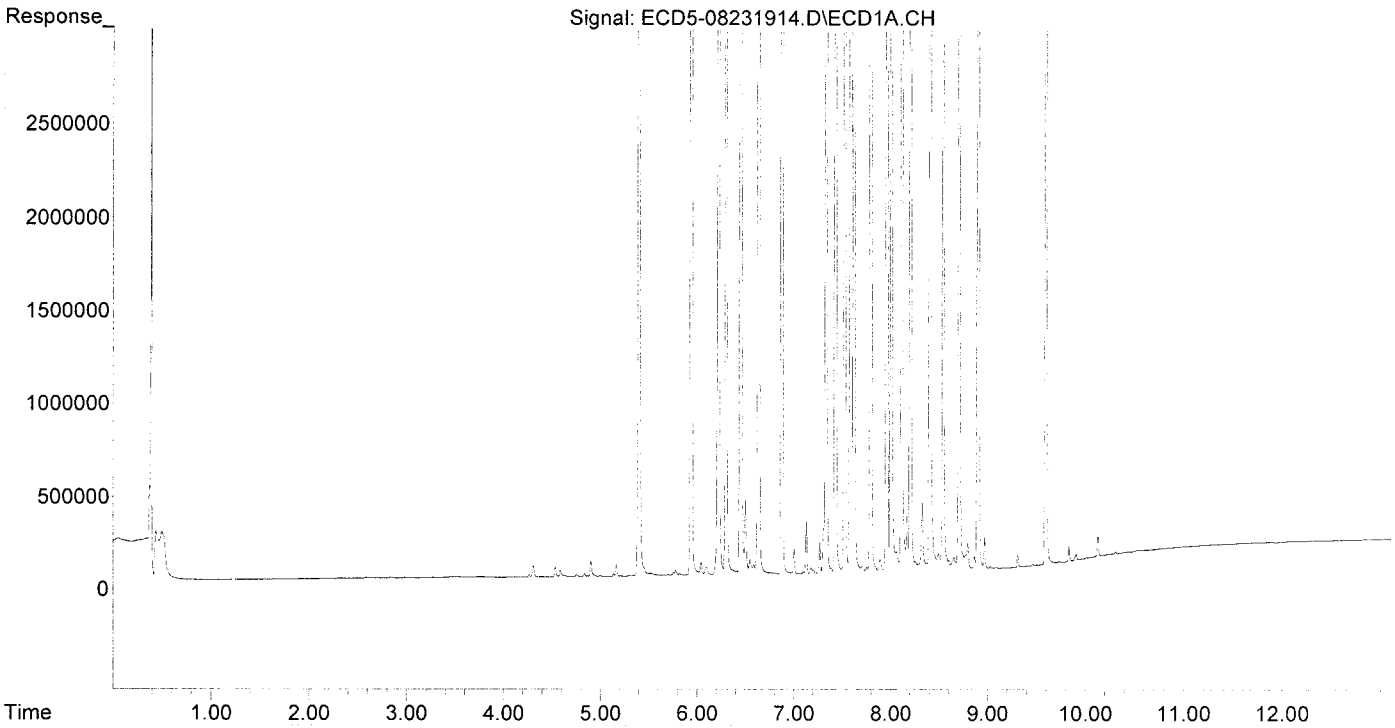
MJB
6/26/19

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231914.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 15:34
Operator : MJB
Sample : 9H23034-CAL7
Misc : A19H382, AB 100 ppb
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 26 12:01:22 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
 Data File : ECD5-08231915.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 23 Aug 2019 15:52
 Operator : MJB
 Sample : 9H23034-CAL8
 Misc : A19E244, AB 200 ppb
 ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Aug 26 12:01:32 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

10/6/2019

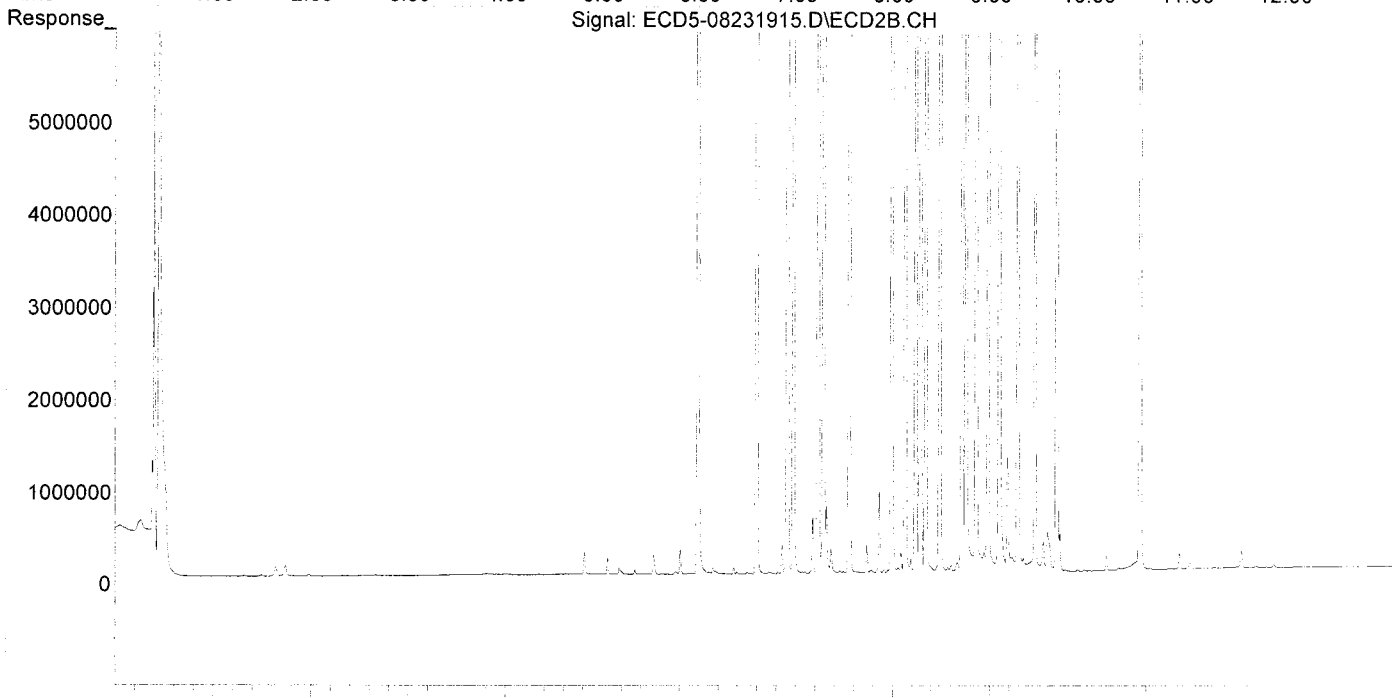
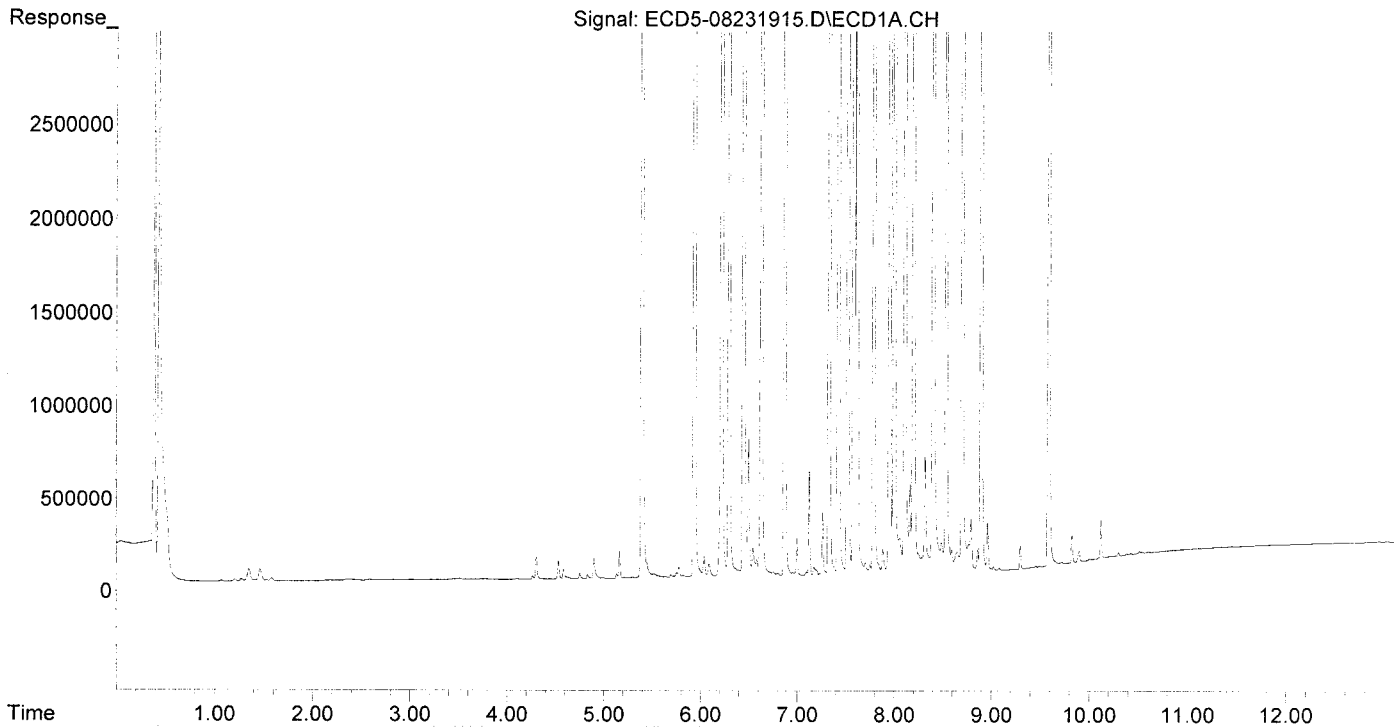
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.394	5.990	32842535	62584449	197.876	213.332
22) S DCBP (S)	9.591	10.539	26975231	38097779	191.180	211.933
Target Compounds						
2) a-BHC	5.935	6.597	47202252	94376748	205.828	229.997
3) g-BHC	6.218	6.914	41889726	80765680	207.604	226.422
4) b-BHC	6.294	6.977	18238696	32553433	201.792	205.688
5) Heptachlor	6.630	7.289	37785699	71283176	208.419	232.969
6) d-BHC	6.445	7.232	41016592	80979751	208.534	229.622
7) Aldrin	6.870	7.554	39838403	73228186	201.769	222.313
8) Heptachlo...	7.330	7.991	36258170	65330070	196.864	217.153
9) trans-Chl...	7.425	8.130	37621413	66447972	203.478	212.073
10) cis-Chlor...	7.521	8.238	35207945	63977063	193.375	219.666
11) Endosulfa...	7.618	8.288	33852593	61043507	198.922	221.834
12) 4,4'-DDE	7.581	8.344	38763081	69842351	205.607	224.807
13) Dieldrin	7.791	8.489	39217772	70031781	204.281	230.254
14) Endrin	7.955	8.715	31426311	52779585	213.745	233.717
15) 4,4'-DDD	8.002	8.758	32436804	59560270	206.419	232.463
16) Endosulfa...	8.112	8.862	29471042	51834888	205.214	224.777
17) 4,4'-DDT	8.200	8.984	29075222	48203441	243.185	202.337
18) Endrin Al...	8.402	9.098	26627672	45084544	200.132	198.781
19) Endosulfa...	8.704	9.289	31126520	54592794	200.845	219.171
20) Methoxychlor	8.537	9.463	14271143	23714100	243.642	203.084
21) Endrin Ke...	8.898	9.688	35094718	60861376	210.452	236.524
23) Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
24) Hexachlor...	5.776	0.000	55469	0	0.315	N.D. #
25) Oxylchlordane	7.265	7.915	336226	30124	2.043	0.110 #
26) 2,4'-DDE	7.330	8.130	36258170	66447972	282.690	313.230
27) trans-Non...	7.521	8.191	35207945	140624	196.641	0.466 #
28) 2,4'-DDD	7.703	8.489	57049	70031781	0.500	370.806 #
29) 2,4'-DDT	7.886	8.715	129876	52779585	1.184	295.950 #
30) cis-Nonac...	8.002	8.758	32436804	59560270	156.235	177.554
31) Mirex	8.651	9.688	103310	60861376	0.824	327.083 #
32) Chlordane...	7.425	8.130	37621413	66447972	1910.724	1836.362
33) Chlordane...	7.521	8.238	35207945	63977063	1404.705	2106.999 #
34) Chlordane...	8.058	8.862f	183720	51834888	31.779	5781.350 #
35) Chlordane...	3.445	0.000	4872	0	NoCal	N.D.
36) Toxaphene...	7.521	8.489f	35207945	70031781	39310.050	26686.316
37) Toxaphene...	7.791	0.000	39217772	0	24284.375	N.D. #
38) Toxaphene...	8.112	8.862	29471042	51834888	8751.637	10227.240
39) Toxaphene...	8.322f	8.943f	634260	207653	195.750	24.869 #
40) Toxaphene...	8.537f	9.098	14271143	45084544	5953.399	9674.052 #
41) Toxaphene...	8.651	9.463	103310	23714100	32.646	4992.230 #
42) Toxaphene...	3.445	0.000	4872	0	NoCal	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231915.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 15:52
Operator : MJB
Sample : 9H23034-CAL8
Misc : A19E244, AB 200 ppb
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 26 12:01:32 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
 Data File : ECD5-08231918.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 23 Aug 2019 16:44
 Operator : MJB
 Sample : 9H23034-CAL9
 Misc : A19E272, 9-42 1 ppb
 ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Aug 26 12:02:15 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

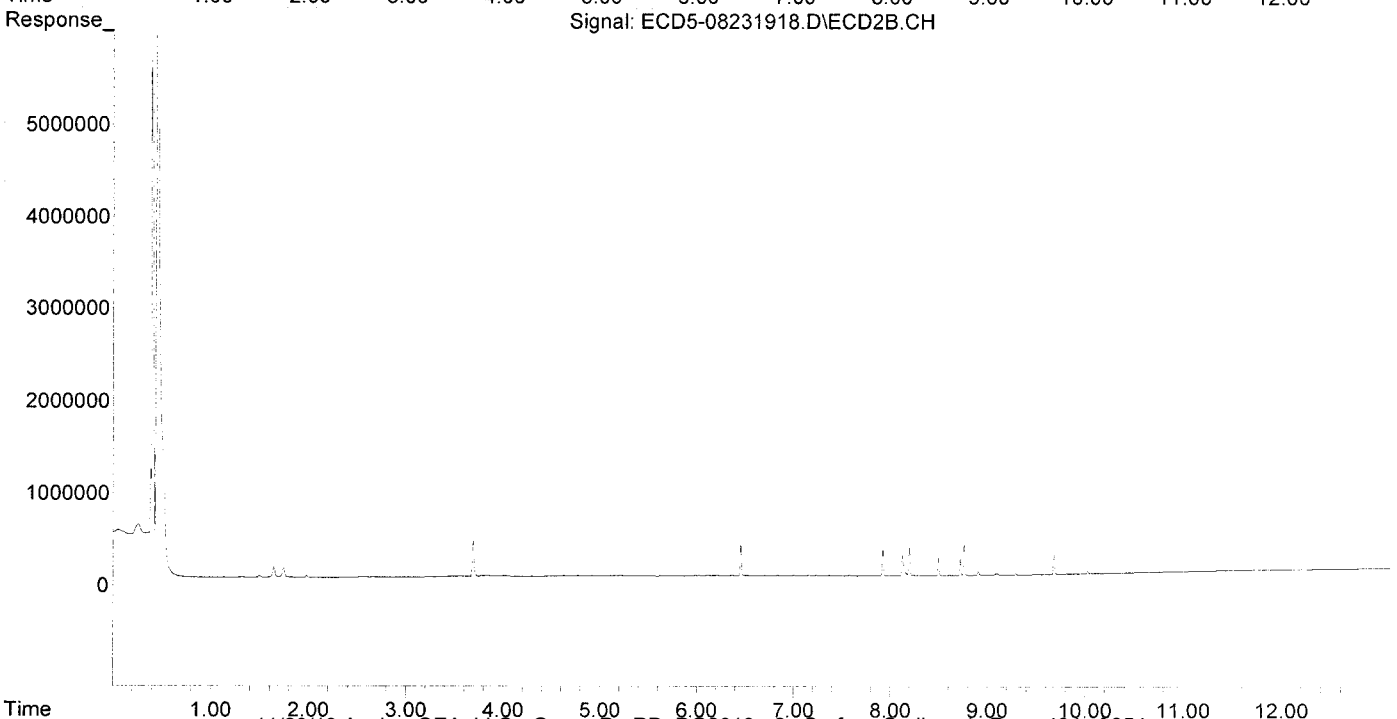
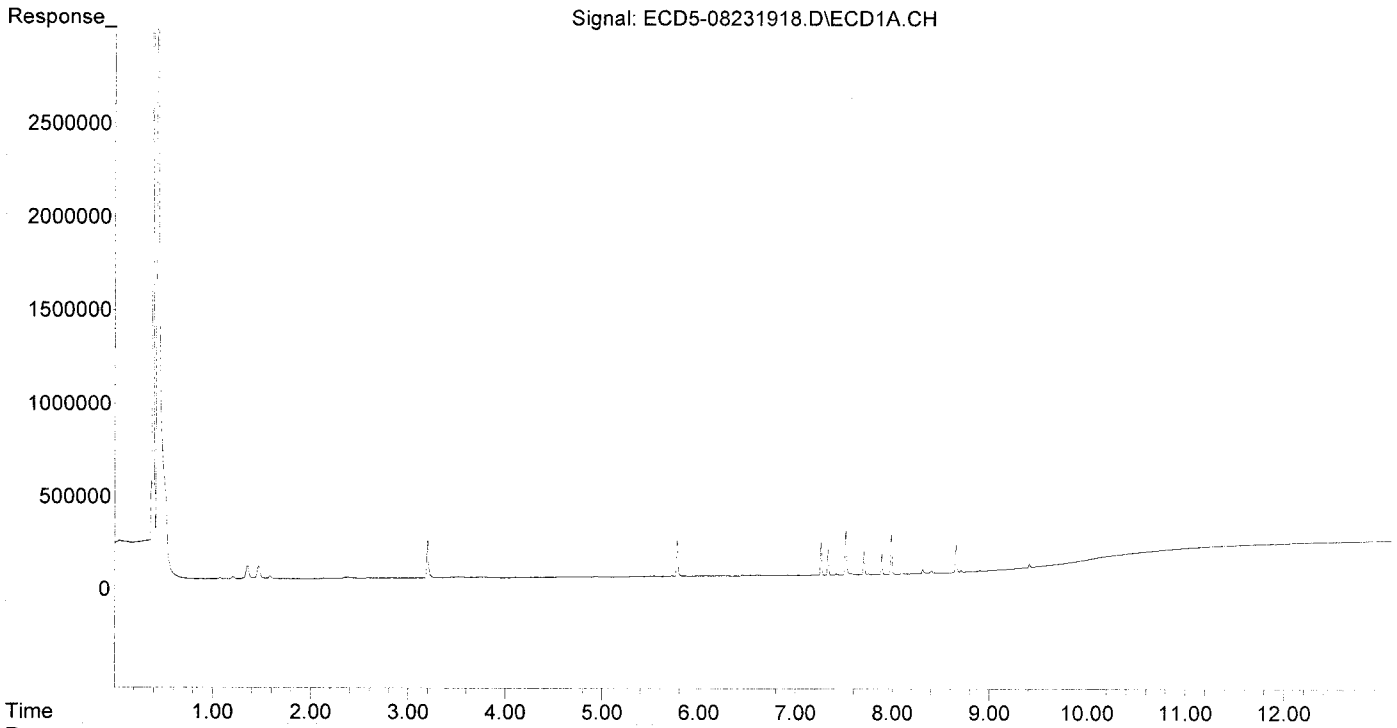
MJB 8/26/19

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	5.984	0	6576	N.D.	0.022 #
22) S DCBP (S)	9.593	10.540	2255	5805	0.016	0.032 #
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D.	N.D.
3) g-BHC	6.249f	0.000	4648	0	0.023	N.D. #
4) b-BHC	0.000	7.002f	0	7162	N.D.	0.045 #
5) Heptachlor	6.601f	0.000	3572	0	0.020	N.D. #
6) d-BHC	6.449	7.232	5321	8483	0.027	0.024
7) Aldrin	0.000	7.577f	0	8990	N.D.	0.027 #
8) Heptachlo...	7.335	0.000	137947	0	0.749	N.D. #
9) trans-Chl...	7.420	8.123	5532	219164	0.030	0.699 #
10) cis-Chlor...	7.518	0.000	236836	0	1.301	N.D. #
11) Endosulfa...	7.582f	0.000	5522	0	0.032	N.D. #
12) 4,4'-DDE	7.582	0.000	5522	0	0.029	N.D. #
13) Dieldrin	7.755f	8.495	4087	192040	0.021	0.631 #
14) Endrin	7.987f	8.719	219220	173338	1.491	0.768 #
15) 4,4'-DDD	7.987	8.759	219220	332745	1.395	1.299 #
16) Endosulfa...	8.116	8.903f	2586	40443	0.018	0.175 #
17) 4,4'-DDT	8.202	0.000	1027	0	0.009	N.D. #
18) Endrin Al...	8.404	9.099	13122	17799	BelowCal	BelowCal
19) Endosulfa...	8.706	9.290	8041	12118	0.052	0.049
20) Methoxychlor	8.548	0.000	665	0	0.011	N.D. #
21) Endrin Ke...	8.900	9.680	3962	209783	0.024	0.815 #
23) Hexachlor...	3.198	3.687	198207	383198	1.085	1.019
24) Hexachlor...	5.775	6.453	194679	328025	1.104	1.044
25) Oxychlorane	7.263	7.922	176844	279143	1.075	1.019
26) 2,4'-DDE	7.335	8.123	137947	219164	1.076	1.033
27) trans-Non...	7.518	8.195	236836	306202	1.006	1.015
28) 2,4'-DDD	7.707	8.495	120240	192040	1.054	1.017
29) 2,4'-DDT	7.890	8.719	107110	173338	0.977	0.972
30) cis-Nonac...	7.987	8.759	219220	332745	1.056	0.992
31) Mirex	8.655	9.680	147356	209783	1.175	1.127
32) Chlordane...	7.420	8.123	5532	219164	0.281	6.057 #
33) Chlordane...	7.518	0.000	236836	0	9.449	N.D. #
34) Chlordane...	0.000	8.903	0	40443	N.D.	4.511 #
35) Chlordane...	3.444	0.000	4642	0	NoCal	N.D.
36) Toxaphene...	7.518	8.495f	236836	192040	264.430	73.179 #
37) Toxaphene...	7.755f	0.000	4087	0	2.531	N.D. #
38) Toxaphene...	8.116	0.000	2586	0	0.768	N.D. #
39) Toxaphene...	8.312f	8.903	22217	40443	6.857	4.844
40) Toxaphene...	8.548f	9.099	665	17799	0.277	3.819 #
41) Toxaphene...	8.655	0.000	147356	0	46.564	N.D. #
42) Toxaphene...	3.444	0.000	4642	0	NoCal	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231918.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 16:44
Operator : MJB
Sample : 9H23034-CAL9
Misc : A19E272, 9-42 1 ppb
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 26 12:02:15 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
 Data File : ECD5-08231919.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 23 Aug 2019 17:01
 Operator : MJB
 Sample : 9H23034-CALA
 Misc : A19E273, 9-42 2 ppb
 ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Aug 26 12:02:30 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
 Quant Title : Instrument: DualeCD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB
8/26/19

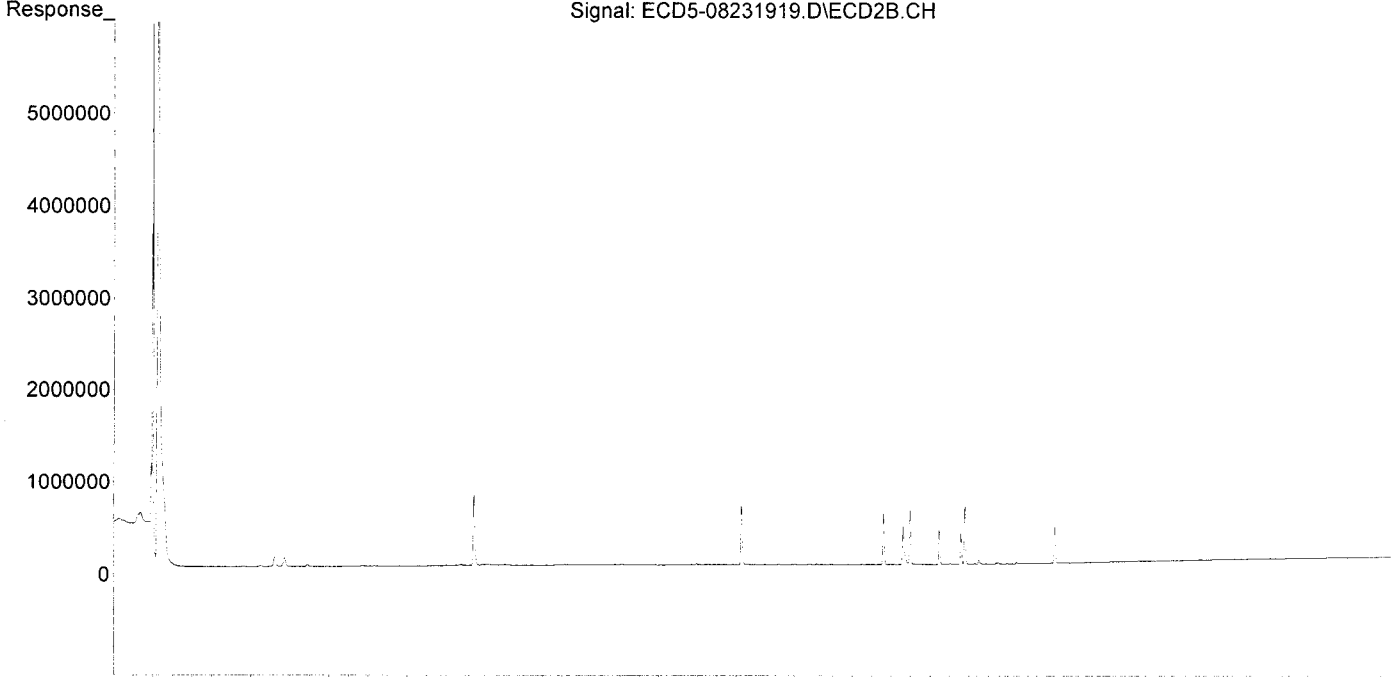
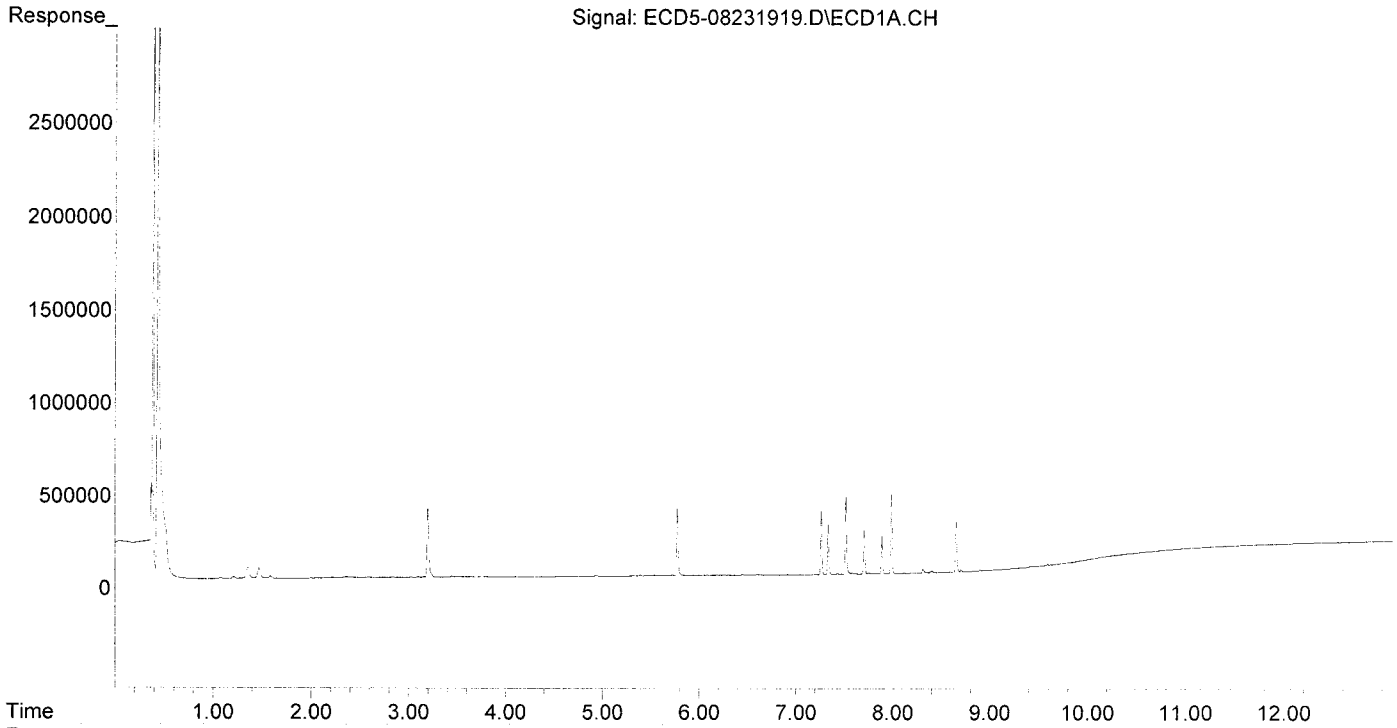
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.394	5.986	6323	13044	0.038	0.044
22) S DCBP (S)	9.592	10.539	6116	7474	0.043	0.042
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D.	N.D.
3) g-BHC	6.248f	0.000	3811	0	0.019	N.D. #
4) b-BHC	0.000	0.000	0	0	N.D.	N.D.
5) Heptachlor	6.631	0.000	3915	0	0.022	N.D. #
6) d-BHC	6.449	7.231	6839	9605	0.035	0.027
7) Aldrin	0.000	0.000	0	0	N.D.	N.D.
8) Heptachlo...	7.334	0.000	265212	0	1.440	N.D. #
9) trans-Chl...	7.429	8.123	4955	411812	0.027	1.314 #
10) cis-Chlor...	7.518	0.000	415126	0	2.280	N.D. #
11) Endosulfa...	7.582f	0.000	3811	0	0.022	N.D. #
12) 4,4'-DDE	7.582	0.000	3811	0	0.020	N.D. #
13) Dieldrin	7.754f	8.495	8020	373596	0.042	1.228 #
14) Endrin	7.986f	8.718	423442	332170	2.880	1.471 #
15) 4,4'-DDD	7.986	8.758	423442	624783	2.695	2.439
16) Endosulfa...	8.116	8.862	3733	5461	0.026	0.024
17) 4,4'-DDT	8.200	0.000	1311	0	0.011	N.D. #
18) Endrin Al...	8.405	9.099	11160	14424	BelowCal	BelowCal
19) Endosulfa...	8.705	9.289	10006	14488	0.065	0.058
20) Methoxychlor	0.000	0.000	0	0	N.D.	N.D.
21) Endrin Ke...	8.899	9.680	5404	388199	0.032	1.509 #
23) Hexachlor...	3.198	3.687	375794	754548	2.056	2.007
24) Hexachlor...	5.775	6.453	362082	632830	2.054	2.015
25) Oxychlordane	7.262	7.921	339370	541023	2.063	1.975
26) 2,4'-DDE	7.334	8.123	265212	411812	2.068	1.941
27) trans-Non...	7.518	8.194	415126	587765	2.001	1.949
28) 2,4'-DDD	7.707	8.495	233089	373596	2.042	1.978
29) 2,4'-DDT	7.889	8.718	204209	332170	1.862	1.863
30) cis-Nonac...	7.986	8.758	423442	624783	2.040	1.863
31) Mirex	8.655	9.680	266770	388199	2.128	2.086
32) Chlordane...	7.429	8.123	4955	411812	0.252	11.381 #
33) Chlordane...	7.518	0.000	415126	0	16.562	N.D. #
34) Chlordane...	0.000	8.903	0	41985	N.D.	4.683 #
35) Chlordane...	3.444	0.000	5015	0	NoCal	N.D.
36) Toxaphene...	7.518	8.495f	415126	373596	463.493	142.363 #
37) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.
38) Toxaphene...	8.116	8.862	3733	5461	1.108	1.077
39) Toxaphene...	8.312f	8.903	22876	41985	7.060	5.028
40) Toxaphene...	0.000	9.099	0	14424	N.D.	3.095 #
41) Toxaphene...	8.655	0.000	266770	0	84.299	N.D. #
42) Toxaphene...	3.444	0.000	5015	0	NoCal	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231919.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 17:01
Operator : MJB
Sample : 9H23034-CALA
Misc : A19E273, 9-42 2 ppb
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 26 12:02:30 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
 Data File : ECD5-08231920.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 23 Aug 2019 17:18
 Operator : MJB
 Sample : 9H23034-CALB
 Misc : A19E274, 9-42 5 ppb
 ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Aug 26 12:02:42 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

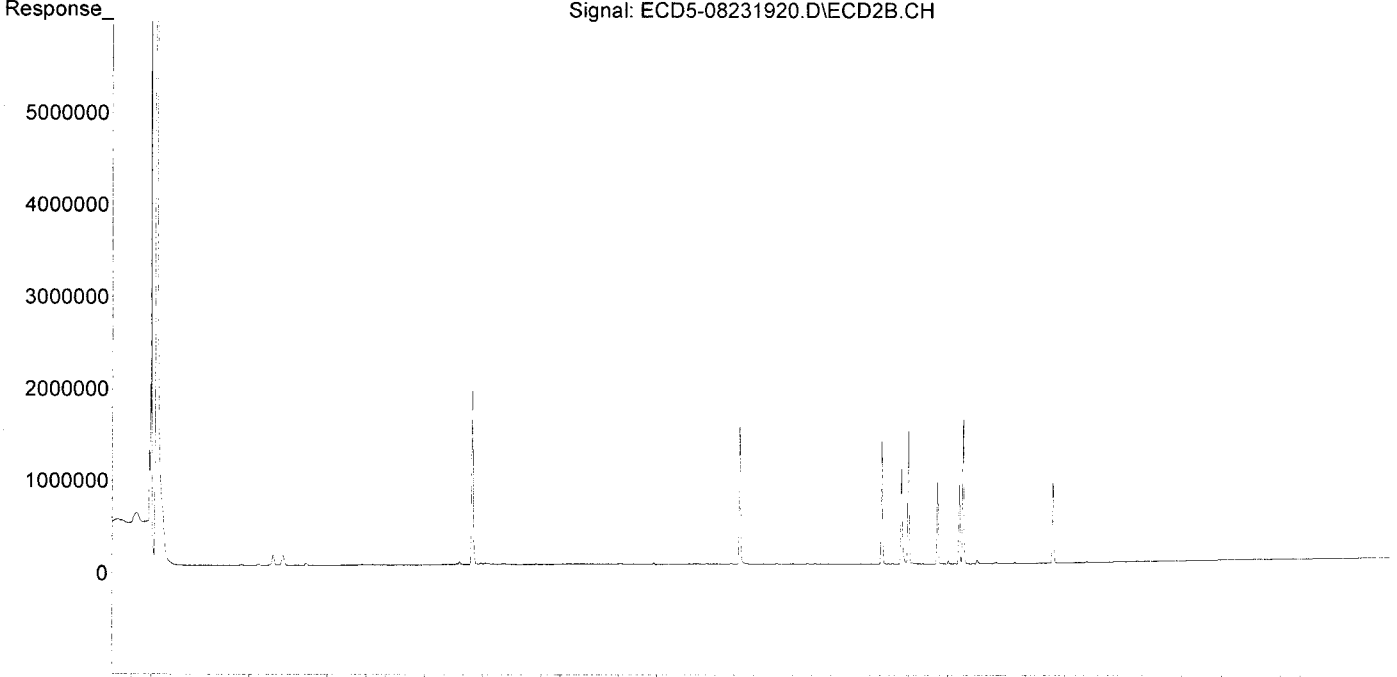
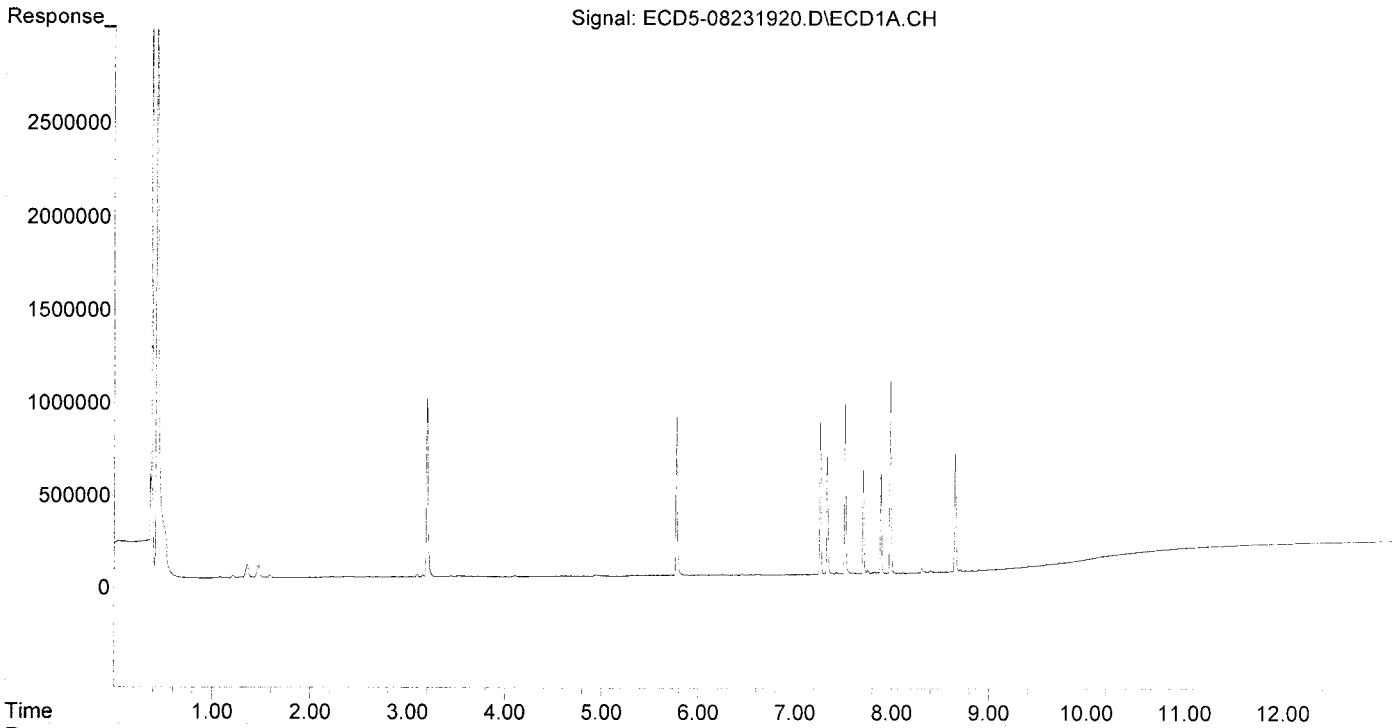
MJB
8/26/19

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.368f	5.982	4403	6341	0.027	0.022
22) S DCBP (S)	9.592	10.539	7940	5412	0.056	0.030 #
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D.	N.D.
3) g-BHC	6.247f	0.000	5412	0	0.027	N.D. #
4) b-BHC	0.000	0.000	0	0	N.D.	N.D.
5) Heptachlor	6.631	7.289	4685	5276	0.026	0.017
6) d-BHC	6.449	7.232	7597	11663	0.039	0.033
7) Aldrin	0.000	0.000	0	0	N.D.	N.D.
8) Heptachlo...	7.334	7.991	633168	6408	3.438	0.021 #
9) trans-Chl...	7.429	8.123	9886	1029687	0.053	3.286 #
10) cis-Chlor...	7.518	8.236	933222	8550	5.126	0.029 #
11) Endosulfa...	0.000	0.000	0	0	N.D.	N.D.
12) 4,4'-DDE	0.000	0.000	0	0	N.D.	N.D.
13) Dieldrin	7.799	8.495	5522	898697	0.029	2.955 #
14) Endrin	7.986f	8.719	1025899	873074	6.978	3.866 #
15) 4,4'-DDD	7.986	8.759	1025899	1587243	6.529	6.195
16) Endosulfa...	8.116	8.862	3810	5519	0.027	0.024
17) 4,4'-DDT	0.000	0.000	0	0	N.D.	N.D.
18) Endrin Al...	8.404	9.098	10319	12495	BelowCal	BelowCal
19) Endosulfa...	8.705	9.289	10733	14179	0.069	0.057
20) Methoxychlor	8.550	0.000	617	0	0.011	N.D. #
21) Endrin Ke...	8.899	9.679	5632	895523	0.034	3.480 #
23) Hexachlor...	3.198	3.687	959211	1877484	5.249	4.994
24) Hexachlor...	5.775	6.453	853793	1485583	4.843	4.730
25) Oxychlorane	7.262	7.921	819748	1325543	4.982	4.839
26) 2,4'-DDE	7.334	8.123	633168	1029687	4.937	4.854
27) trans-Non...	7.518	8.194	933222	1467723	4.893	4.866
28) 2,4'-DDD	7.705	8.495	560942	898697	4.915	4.758
29) 2,4'-DDT	7.889	8.719	536967	873074	4.895	4.896
30) cis-Nonac...	7.986	8.759	1025899	1587243	4.941	4.732
31) Mirex	8.654	9.679	628618	895523	5.014	4.813
32) Chlordane...	7.429	8.123	9886	1029687	0.502	28.457 #
33) Chlordane...	7.518	8.236	933222	8550	37.233	0.282 #
34) Chlordane...	0.000	8.903	0	41570	N.D.	4.636 #
35) Chlordane...	3.443	3.434	5083	3848	NoCal	NoCal
36) Toxaphene...	7.518	8.495f	933222	898697	1041.953	342.457 #
37) Toxaphene...	7.799	0.000	5522	0	3.419	N.D. #
38) Toxaphene...	8.116	8.862	3810	5519	1.131	1.089
39) Toxaphene...	8.312f	8.903	22738	41570	7.017	4.979
40) Toxaphene...	8.550f	9.098	617	12495	0.257	2.681 #
41) Toxaphene...	8.654	0.000	628618	0	198.642	N.D. #
42) Toxaphene...	3.443	3.434	5083	3848	NoCal	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231920.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 17:18
Operator : MJB
Sample : 9H23034-CALB
Misc : A19E274, 9-42 5 ppb
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 26 12:02:42 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
 Data File : ECD5-08231921.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 23 Aug 2019 17:35
 Operator : MJB
 Sample : 9H23034-CALC
 Misc : A19E275, 9-42 10 ppb
 ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Aug 26 12:02:55 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 8/26/19

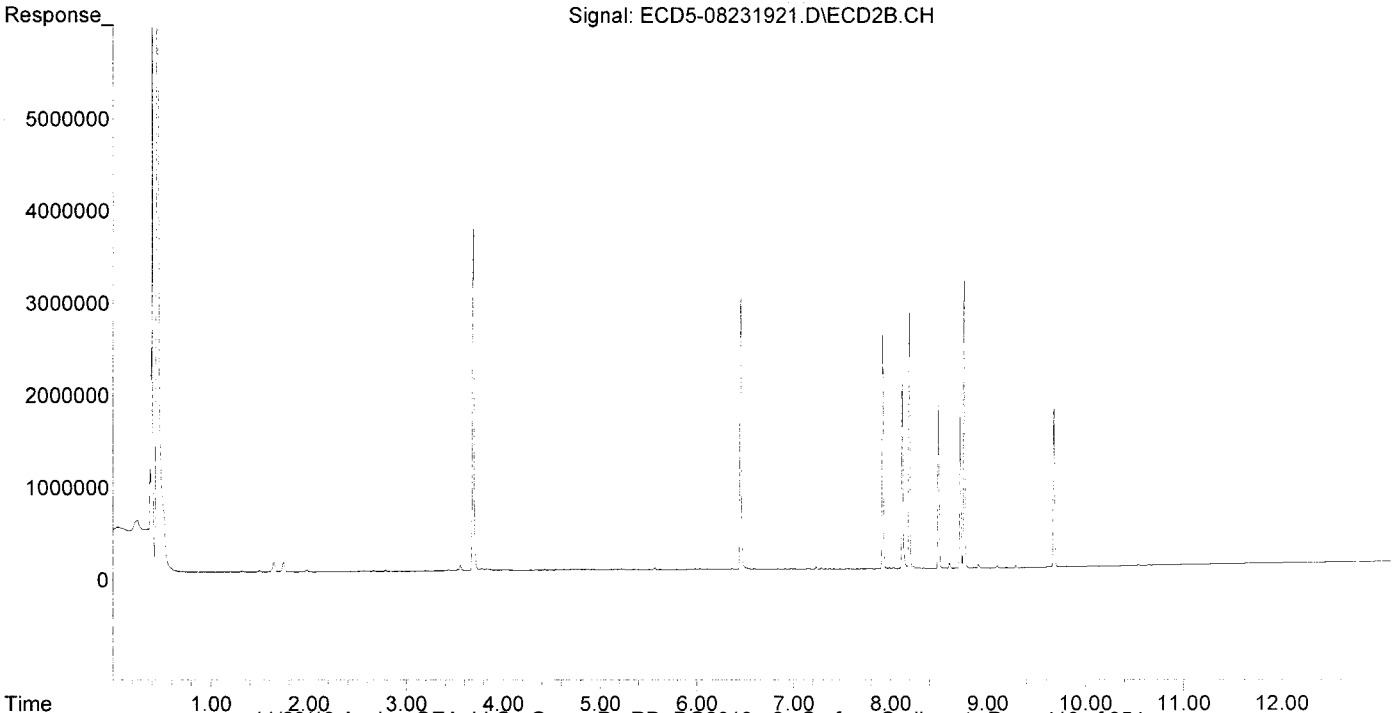
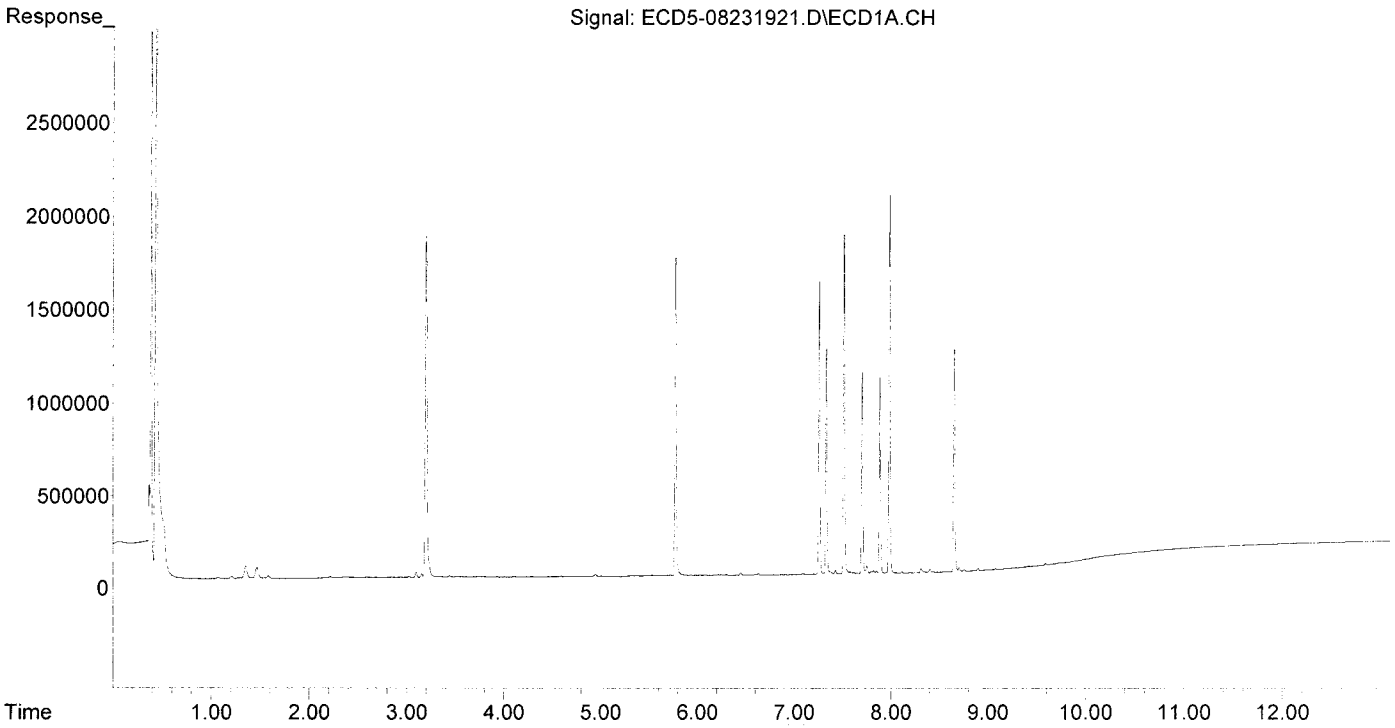
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.367f	5.983	5244	8048	0.032	0.027
22) S DCBP (S)	9.591	10.539	8426	10511	0.060	0.058
Target Compounds						
2) a-BHC	5.934	6.594	5268	9085	0.023	0.022
3) g-BHC	6.219	6.912	5161	7308	0.026	0.020
4) b-BHC	6.300	6.978	6085	7741	0.067	0.049
5) Heptachlor	6.631	7.288	8267	12275	0.046	0.040
6) d-BHC	6.449	7.232	14325	24245	0.073	0.069
7) Aldrin	6.872	7.553	3901	5863	0.020	0.018
8) Heptachlo...	7.333	7.990	1245265	15714	6.761	0.052 #
9) trans-Chl...	7.428	8.122	20597	2018331	0.111	6.442 #
10) cis-Chlor...	7.516	8.236	1817552	21137	9.983	0.073 #
11) Endosulfa...	7.620	8.289	8045	10794	0.047	0.039
12) 4,4'-DDE	7.582	8.342	11334	7910	0.060	0.025 #
13) Dieldrin	7.797	8.495	12142	1778790	0.063	5.848 #
14) Endrin	7.986f	8.719	2032010	1702568	13.821	7.539 #
15) 4,4'-DDD	7.986	8.759	2032010	3148054	12.931	12.287
16) Endosulfa...	8.115	8.863	8267	13466	0.058	0.058
17) 4,4'-DDT	8.202	0.000	2833	0	0.024	N.D. #
18) Endrin Al...	8.404	9.098	18899	26666	BelowCal	BelowCal
19) Endosulfa...	8.705	9.289	20232	26713	0.131	0.107
20) Methoxychlor	8.543	0.000	1294	0	0.022	N.D. #
21) Endrin Ke...	8.899	9.679	11108	1722960	0.067	6.696 #
23) Hexachlor...	3.198	3.687	1838187	3701532	10.059	9.846
24) Hexachlor...	5.774	6.453	1711884	2936294	9.710	9.349
25) Oxychlorane	7.261	7.921	1591613	2538903	9.673	9.269
26) 2,4'-DDE	7.333	8.122	1245265	2018331	9.709	9.514
27) trans-Non...	7.516	8.194	1817552	2844404	9.830	9.430
28) 2,4'-DDD	7.705	8.495	1103587	1778790	9.670	9.418
29) 2,4'-DDT	7.888	8.719	1051565	1702568	9.587	9.547
30) cis-Nonac...	7.986	8.759	2032010	3148054	9.787	9.385
31) Mirex	8.654	9.679	1196365	1722960	9.543	9.260
32) Chlordane...	7.428	8.122	20597	2018331	1.046	55.779 #
33) Chlordane...	7.516	8.236	1817552	21137	72.516	0.696 #
34) Chlordane...	0.000	8.903	0	42511	N.D.	4.741 #
35) Chlordane...	3.445	3.433	6229	7261	NoCal	NoCal
36) Toxaphene...	7.516	8.495f	1817552	1778790	2029.316	677.826 #
37) Toxaphene...	7.797	0.000	12142	0	7.518	N.D. #
38) Toxaphene...	8.115	8.863	8267	13466	2.455	2.657
39) Toxaphene...	8.312f	8.903	23581	42511	7.278	5.091
40) Toxaphene...	8.582	9.098	560	26666	0.234	5.722 #
41) Toxaphene...	8.654	0.000	1196365	0	378.048	N.D. #
42) Toxaphene...	3.445	3.433	6229	7261	NoCal	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231921.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 17:35
Operator : MJB
Sample : 9H23034-CALC
Misc : A19E275, 9-42 10 ppb
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 26 12:02:55 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
 Data File : ECD5-08231922.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 23 Aug 2019 17:53
 Operator : MJB
 Sample : 9H23034-CALD
 Misc : A19E276, 9-42 25 ppb
 ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Aug 26 12:03:06 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.367f	5.981	10828	6833	0.065	0.023 #
22) S DCBP (S)	9.592	10.539	20297	20262	0.144	0.113
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D.	N.D.
3) g-BHC	6.248f	0.000	5786	0	0.029	N.D. #
4) b-BHC	0.000	0.000	0	0	N.D.	N.D.
5) Heptachlor	6.632	7.288	9958	12977	0.055	0.042
6) d-BHC	6.450	7.231	5090	7876	0.026	0.022
7) Aldrin	0.000	0.000	0	0	N.D.	N.D.
8) Heptachlo...	7.333	7.989	3059421	19960	16.611	0.066 #
9) trans-Chl...	7.428	8.122	36083	4999232	0.195	15.955 #
10) cis-Chlor...	7.516	8.235	4391046	27018	24.117	0.093 #
11) Endosulfa...	7.604	8.299	11350	9999	0.067	0.036 #
12) 4,4'-DDE	7.604f	0.000	11350	0	0.060	N.D. #
13) Dieldrin	7.800	8.495	19961	4389185	0.104	14.431 #
14) Endrin	7.986f	8.719	4993110	4405554	33.960	19.509 #
15) 4,4'-DDD	7.986	8.759	4993110	8219393	31.775	32.080
16) Endosulfa...	0.000	8.862	0	7977	N.D.	0.035 #
17) 4,4'-DDT	0.000	0.000	0	0	N.D.	N.D.
18) Endrin Al...	8.404	9.098	7779	9076	BelowCal	BelowCal
19) Endosulfa...	0.000	9.289	0	11382	N.D.	0.046 #
20) Methoxychlor	0.000	0.000	0	0	N.D.	N.D.
21) Endrin Ke...	8.899	9.679	4709	4138115	0.028	16.082 #
23) Hexachlor...	3.198	3.687	4363988	8892238	23.881	23.654
24) Hexachlor...	5.774	6.453	4184551	7416324	23.736	23.612
25) Oxychlordane	7.261	7.920	3881255	6202791	23.589	22.646
26) 2,4'-DDE	7.333	8.122	3059421	4999232	23.853	23.566
27) trans-Non...	7.516	8.194	4391046	7092288	24.199	23.513
28) 2,4'-DDD	7.705	8.495	2745178	4389185	24.054	23.240
29) 2,4'-DDT	7.888	8.719	2728794	4405554	24.878	24.703
30) cis-Nonac...	7.986	8.759	4993110	8219393	24.050	24.503
31) Mirex	8.654	9.679	2910818	4138115	23.218	22.239
32) Chlordane...	7.428	8.122	36083	4999232	1.833	138.159 #
33) Chlordane...	7.516	8.235	4391046	27018	175.191	0.890 #
34) Chlordane...	0.000	8.903	0	43328	N.D.	4.833 #
35) Chlordane...	3.444	3.433	9286	16581	NoCal	NoCal
36) Toxaphene...	7.516	8.495f	4391046	4389185	4902.650	1672.543 #
37) Toxaphene...	7.800	0.000	19961	0	12.360	N.D. #
38) Toxaphene...	0.000	8.862	0	7977	N.D.	1.574 #
39) Toxaphene...	8.313f	8.903	24731	43328	7.633	5.189
40) Toxaphene...	8.607f	9.098	797	9076	0.332	1.947 #
41) Toxaphene...	8.654	0.000	2910818	0	919.811	N.D. #
42) Toxaphene...	3.444	3.433	9286	16581	NoCal	NoCal

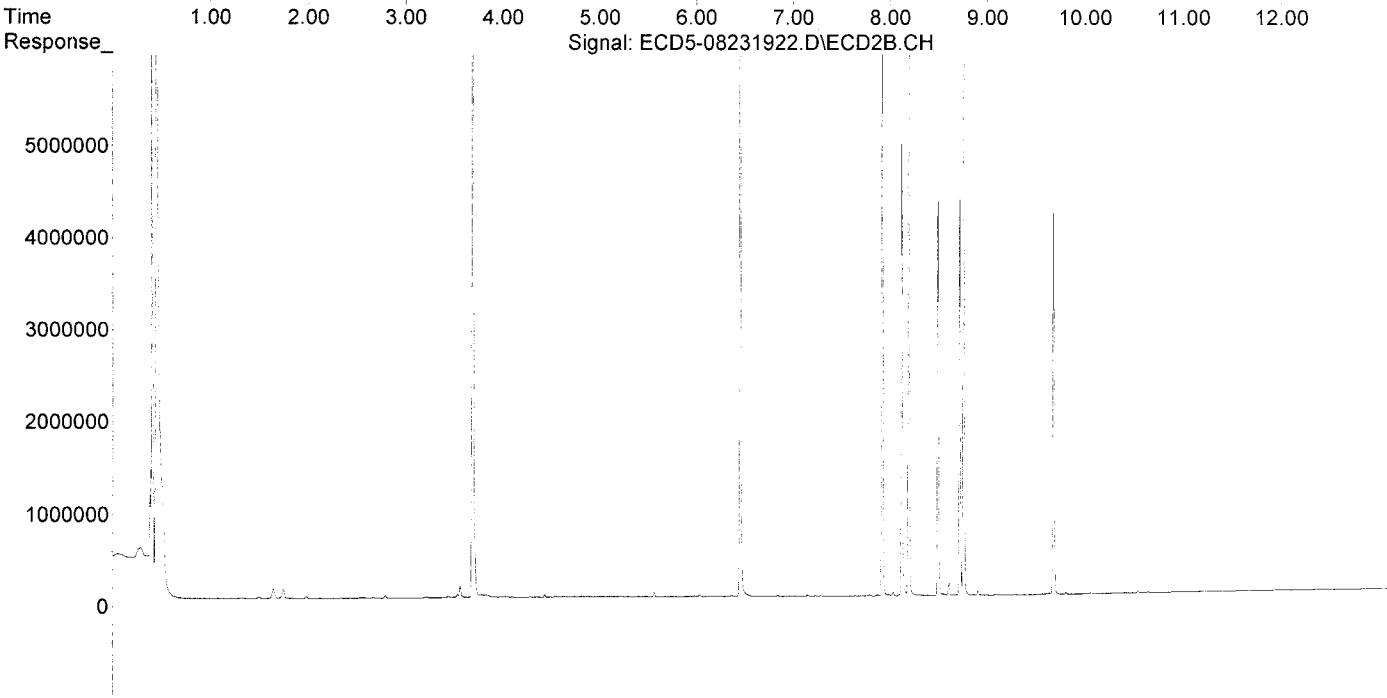
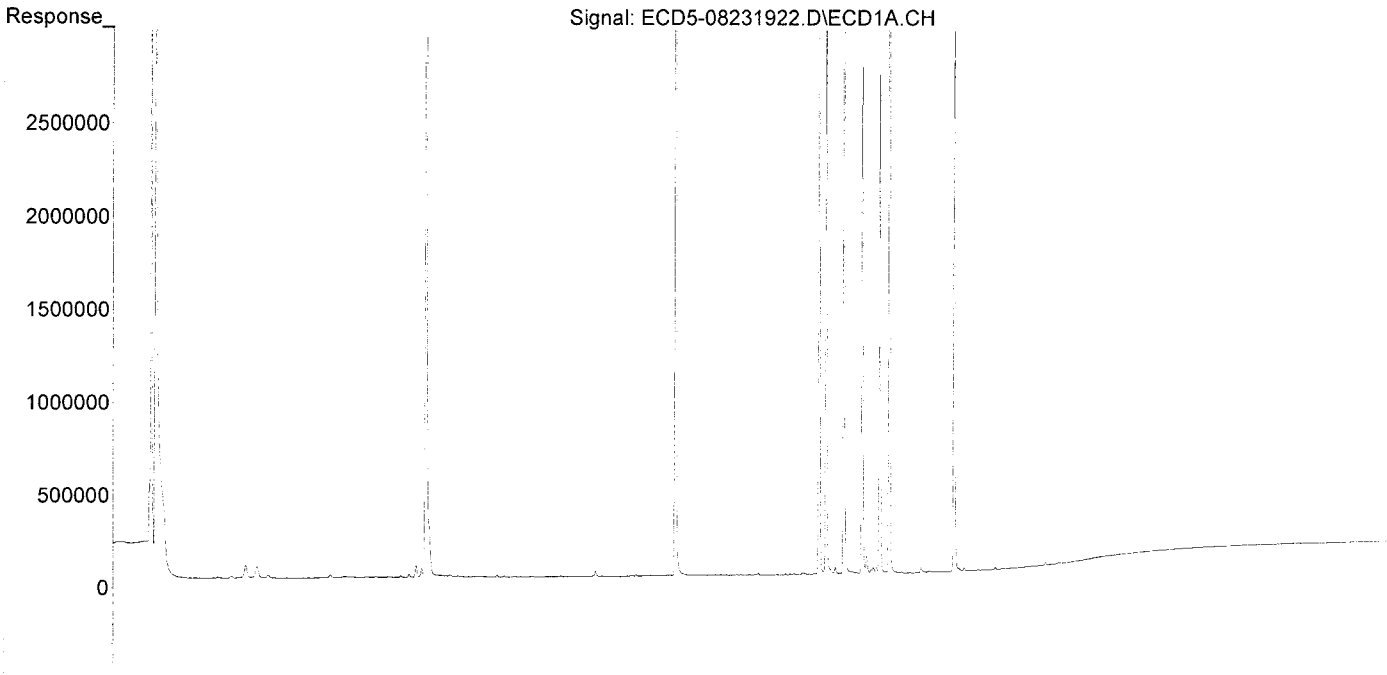
MJB 8/26/19

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231922.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 17:53
Operator : MJB
Sample : 9H23034-CALD
Misc : A19E276, 9-42 25 ppb
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 26 12:03:06 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
 Data File : ECD5-08231923.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 23 Aug 2019 18:10
 Operator : MJB
 Sample : 9H23034-CALE
 Misc : A19E154, 9-42 50 ppb
 ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Aug 26 12:03:18 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB
8/26/19

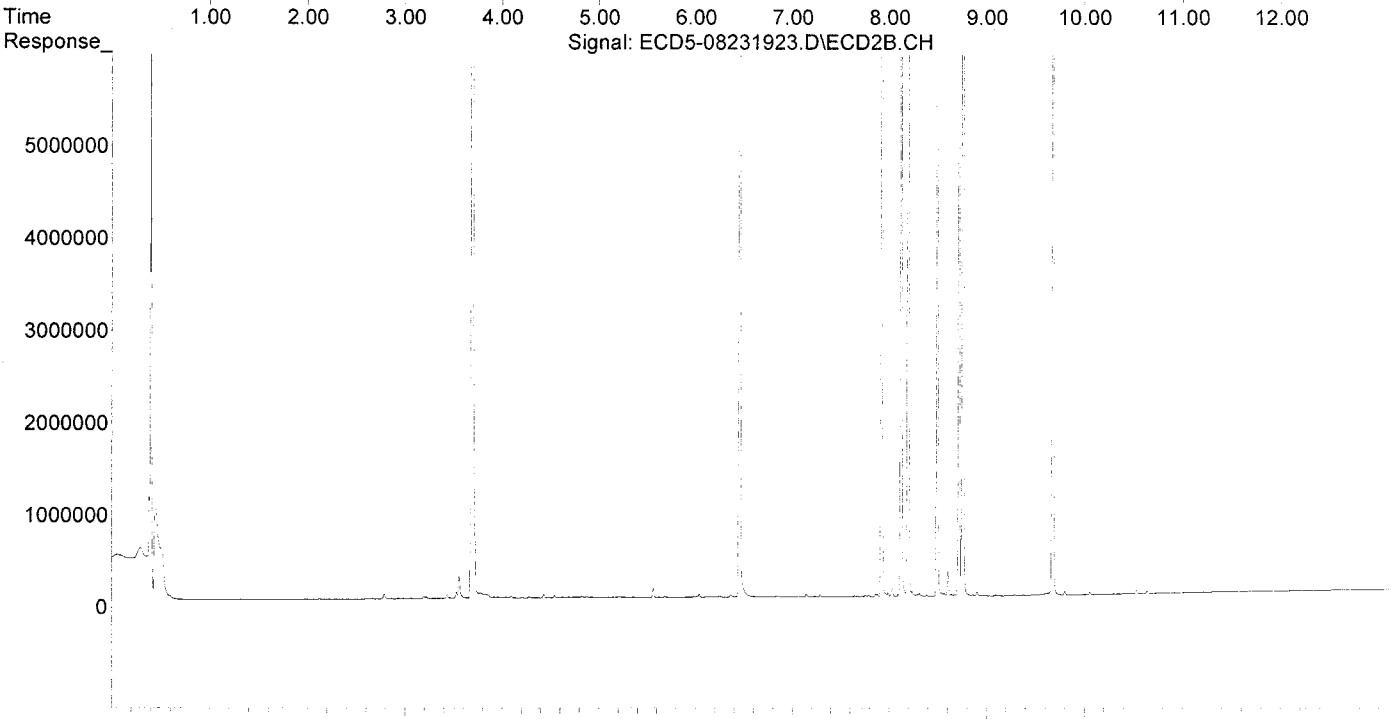
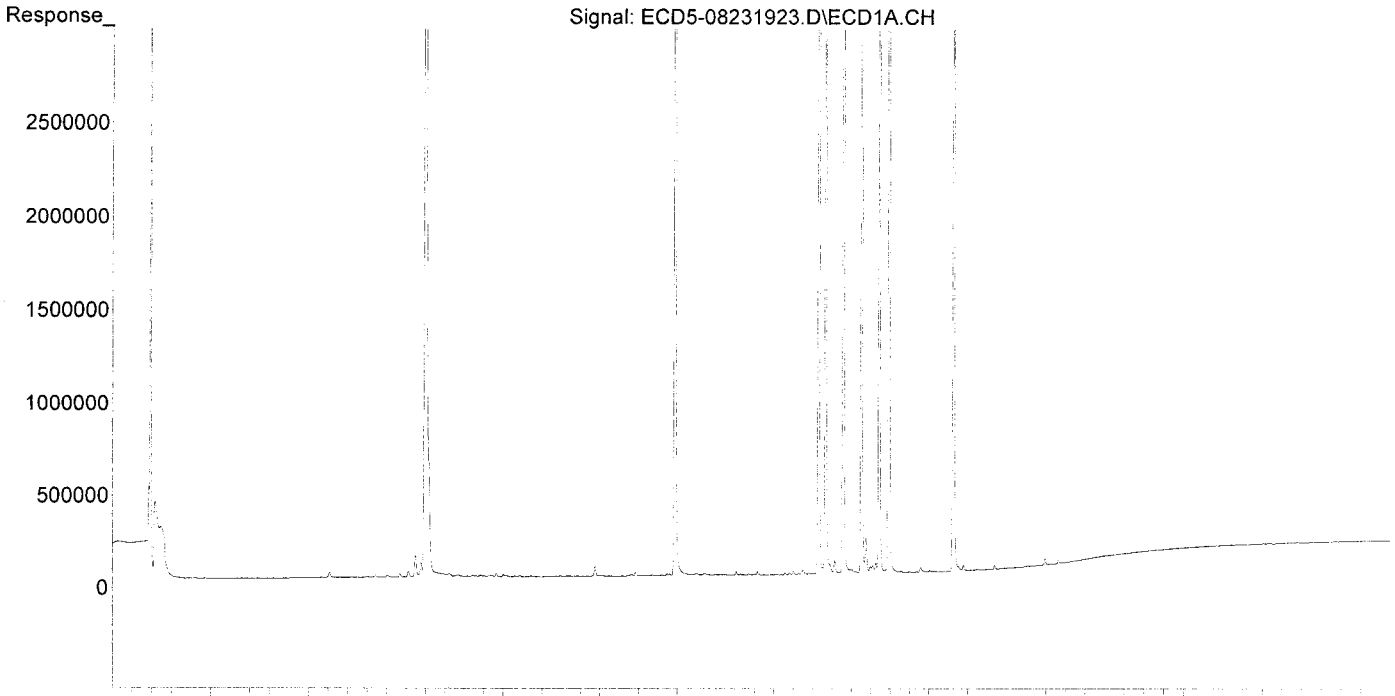
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.367f	5.981	19019	8441	0.115	0.029 #
22) S DCBP (S)	9.591	10.538	35203	39503	0.249	0.220
Target Compounds						
2) a-BHC	5.949	0.000	5252	0	0.023	N.D. #
3) g-BHC	6.196f	6.951f	4084	3735	0.020	0.010 #
4) b-BHC	0.000	6.951f	0	3735	N.D.	0.024 #
5) Heptachlor	6.632	7.289	17900	26152	0.099	0.085
6) d-BHC	6.450	7.232	4458	7173	0.023	0.020
7) Aldrin	0.000	7.520f	0	4998	N.D.	0.015 #
8) Heptachlo...	7.333	7.989	6510588	39220	35.349	0.130 #
9) trans-Chl...	7.428	8.122	71663	11006400	0.388	35.128 #
10) cis-Chlor...	7.516	8.236	9581794	53379	52.627	0.183 #
11) Endosulfa...	7.604	8.299	22096	24918	0.130	0.091
12) 4,4'-DDE	7.604f	8.314f	22096	29928	0.117	0.096
13) Dieldrin	7.798	8.495	33203	9924934	0.173	32.632 #
14) Endrin	7.985f	8.718	10616019	8810591	72.204	39.015 #
15) 4,4'-DDD	7.985	8.758	10616019	17721229	67.557	69.166
16) Endosulfa...	0.000	8.862	0	12791	N.D.	0.055 #
17) 4,4'-DDT	0.000	0.000	0	0	N.D.	N.D.
18) Endrin Al...	8.409	9.099	5626	7468	BelowCal	BelowCal
19) Endosulfa...	0.000	9.289	0	9409	N.D.	0.038 #
20) Methoxychlor	0.000	0.000	0	0	N.D.	N.D.
21) Endrin Ke...	8.898	9.679	5162	9100959	0.031	35.369 #
23) Hexachlor...	3.198	3.688	8761747	18635615	47.947	49.572 #
24) Hexachlor...	5.774	6.454	8911624	16094159	50.550	51.241
25) Oxychlorane	7.261	7.920	8382873	14172543	50.948	51.743
26) 2,4'-DDE	7.333	8.122	6510588	11006400	50.760	51.883
27) trans-Non...	7.516	8.194	9581794	15807712	53.197	52.407
28) 2,4'-DDD	7.705	8.495	5920095	9924934	51.874	52.551
29) 2,4'-DDT	7.888	8.718	5687323	8810591	51.850	49.404
30) cis-Nonac...	7.985	8.758	10616019	17721229	51.133	52.828
31) Mirex	8.652	9.679	6218341	9100959	49.601	48.911
32) Chlordane...	7.428	8.122	71663	11006400	3.640	304.174 #
33) Chlordane...	7.516	8.236	9581794	53379	382.289	1.758 #
34) Chlordane...	0.000	8.903	0	43859	N.D.	4.892 #
35) Chlordane...	3.445	3.433	16729	32384	NoCal	NoCal
36) Toxaphene...	7.516	8.495f	9581794	9924934	10698.176	3781.996 #
37) Toxaphene...	7.798	0.000	33203	0	20.560	N.D. #
38) Toxaphene...	0.000	8.862	0	12791	N.D.	2.524 #
39) Toxaphene...	8.314f	8.903	24262	43859	7.488	5.253
40) Toxaphene...	8.605f	9.099	1073	7468	0.448	1.603 #
41) Toxaphene...	8.652	0.000	6218341	0	1964.980	N.D. #
42) Toxaphene...	3.445	3.433	16729	32384	NoCal	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231923.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 18:10
Operator : MJB
Sample : 9H23034-CALE
Misc : A19E154, 9-42 50 ppb
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 26 12:03:18 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
 Data File : ECD5-08231924.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 23 Aug 2019 18:27
 Operator : MJB
 Sample : 9H23034-CALF
 Misc : A19E155, 9-42 100 ppb
 ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Aug 26 12:03:29 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

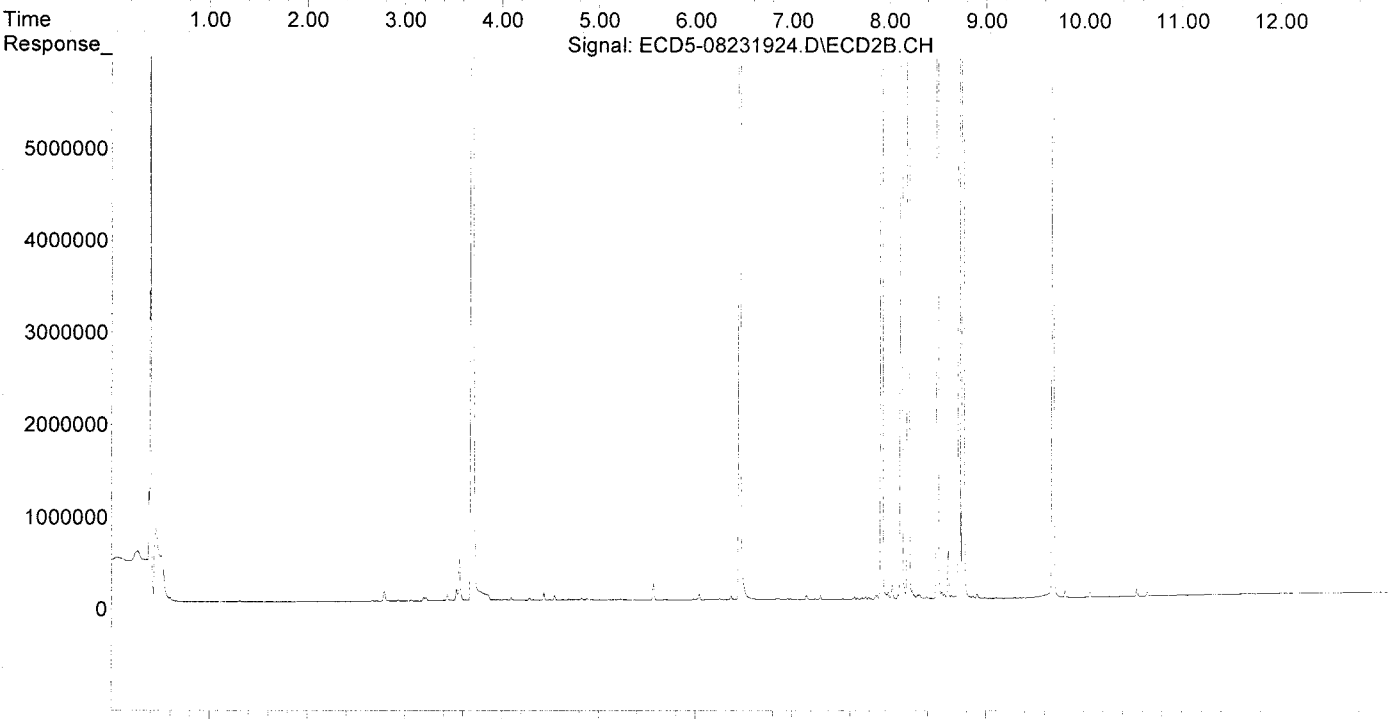
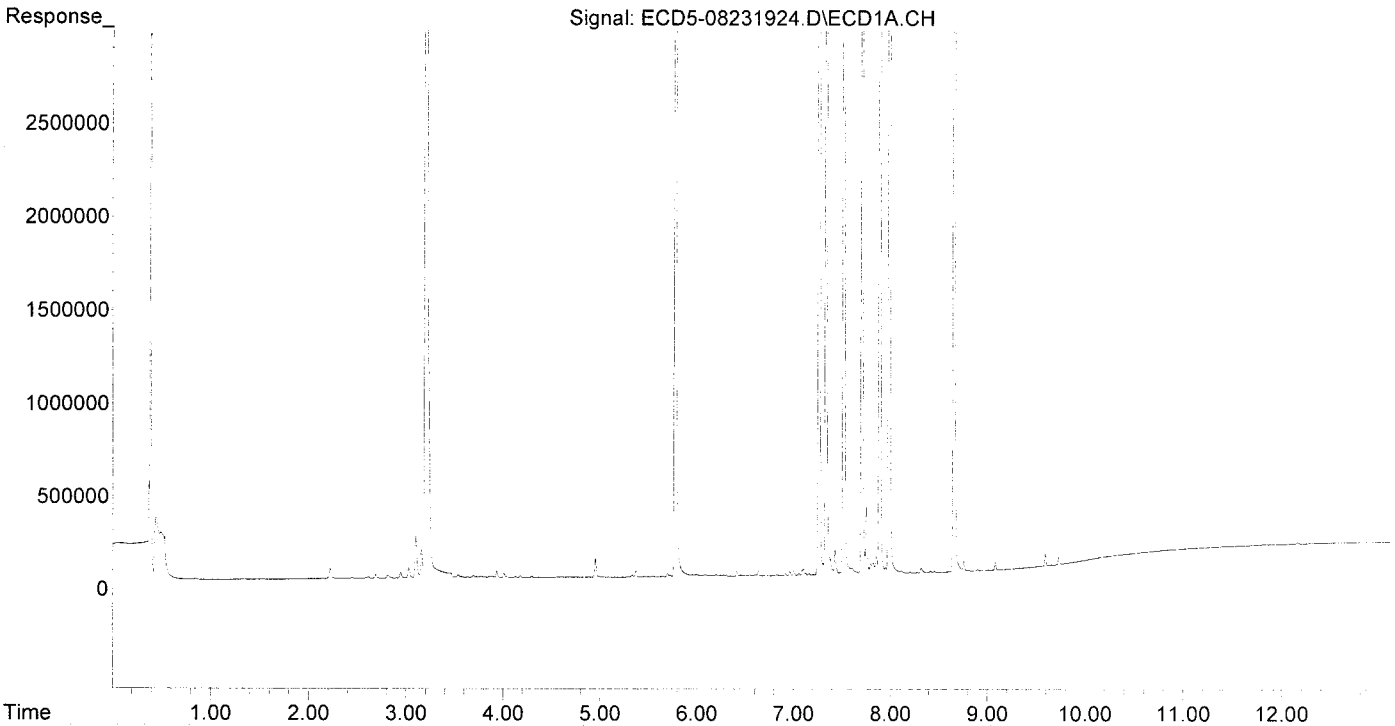
MJB
8/26/19

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.368f	5.981	33988	9402	0.205	0.032 #
22) S DCBP (S)	9.592	10.540	62236	73549	0.441	0.409
Target Compounds						
2) a-BHC	5.950	0.000	8055	0	0.035	N.D. #
3) g-BHC	6.198	6.952f	8435	9250	0.042	0.026
4) b-BHC	6.301	6.979	5312	6852	0.059	0.043
5) Heptachlor	6.634	7.290	29320	42832	0.162	0.140
6) d-BHC	6.451	7.234	4881	8440	0.025	0.024
7) Aldrin	0.000	7.521f	0	8525	N.D.	0.026 #
8) Heptachlo...	7.334	7.990	12769067	71027	69.330	0.236 #
9) trans-Chl...	7.428	8.123	131019	22164400	0.709	70.739 #
10) cis-Chlor...	7.516	8.237	18351251	88947	100.792	0.305 #
11) Endosulfa...	7.604	8.299	36455	42308	0.214	0.154
12) 4,4'-DDE	7.604f	8.315f	36455	43813	0.193	0.141
13) Dieldrin	7.798	8.496	56666	20118925	0.295	66.148 #
14) Endrin	7.986f	8.721	20932641	18998968	142.373	84.131 #
15) 4,4'-DDD	7.986	8.760	20932641	36072644	133.210	140.791
16) Endosulfa...	8.115	8.863	14279	23343	0.099	0.101
17) 4,4'-DDT	8.202	8.985	6473	9074	0.054	0.015 #
18) Endrin Al...	8.415	9.101	7567	8073	BelowCal	BelowCal
19) Endosulfa...	0.000	9.290	0	9186	N.D.	0.037 #
20) Methoxychlor	0.000	0.000	0	0	N.D.	N.D.
21) Endrin Ke...	8.898	9.680	6812	19363200	0.041	75.251 #
23) Hexachlor...	3.199	3.690	17952134	39298885	98.239	104.537
24) Hexachlor...	5.776	6.455	17670025	32766708	100.231	104.324
25) Oxychlorane	7.261	7.922	16359215	29732149	99.425	108.550
26) 2,4'-DDE	7.334	8.123	12769067	22164400	99.555	104.481
27) trans-Non...	7.516	8.195	18351251	31975271	102.232	106.006
28) 2,4'-DDD	7.705	8.496	11587554	20118925	101.534	106.526
29) 2,4'-DDT	7.888	8.721	11771354	18998968	107.317	106.533
30) cis-Nonac...	7.986	8.760	20932641	36072644	100.824	107.535
31) Mirex	8.653	9.680	11960753	19363200	95.406	104.062
32) Chlordane...	7.428	8.123	131019	22164400	6.654	612.537 #
33) Chlordane...	7.516	8.237	18351251	88947	732.167	2.929 #
34) Chlordane...	0.000	8.905	0	44814	N.D.	4.998 #
35) Chlordane...	3.443	3.434	27193	63535	NoCal	NoCal
36) Toxaphene...	7.516	8.496f	18351251	20118925	20489.369	7666.519 #
37) Toxaphene...	7.798	0.000	56666	0	35.089	N.D. #
38) Toxaphene...	8.115	8.863	14279	23343	4.240	4.606
39) Toxaphene...	8.316f	8.905	25592	44814	7.898	5.367
40) Toxaphene...	8.604f	9.101	1951	8073	0.814	1.732 #
41) Toxaphene...	8.653	0.000	11960753	0	3779.567	N.D. #
42) Toxaphene...	3.443	3.434	27193	63535	NoCal	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231924.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 18:27
Operator : MJB
Sample : 9H23034-CALF
Misc : A19E155, 9-42 100 ppb
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 26 12:03:29 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
 Data File : ECD5-08231925.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 23 Aug 2019 18:45
 Operator : MJB
 Sample : 9H23034-CALG
 Misc : A19E271, 9-42 200 ppb
 ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Aug 26 12:03:40 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB
6/26/19

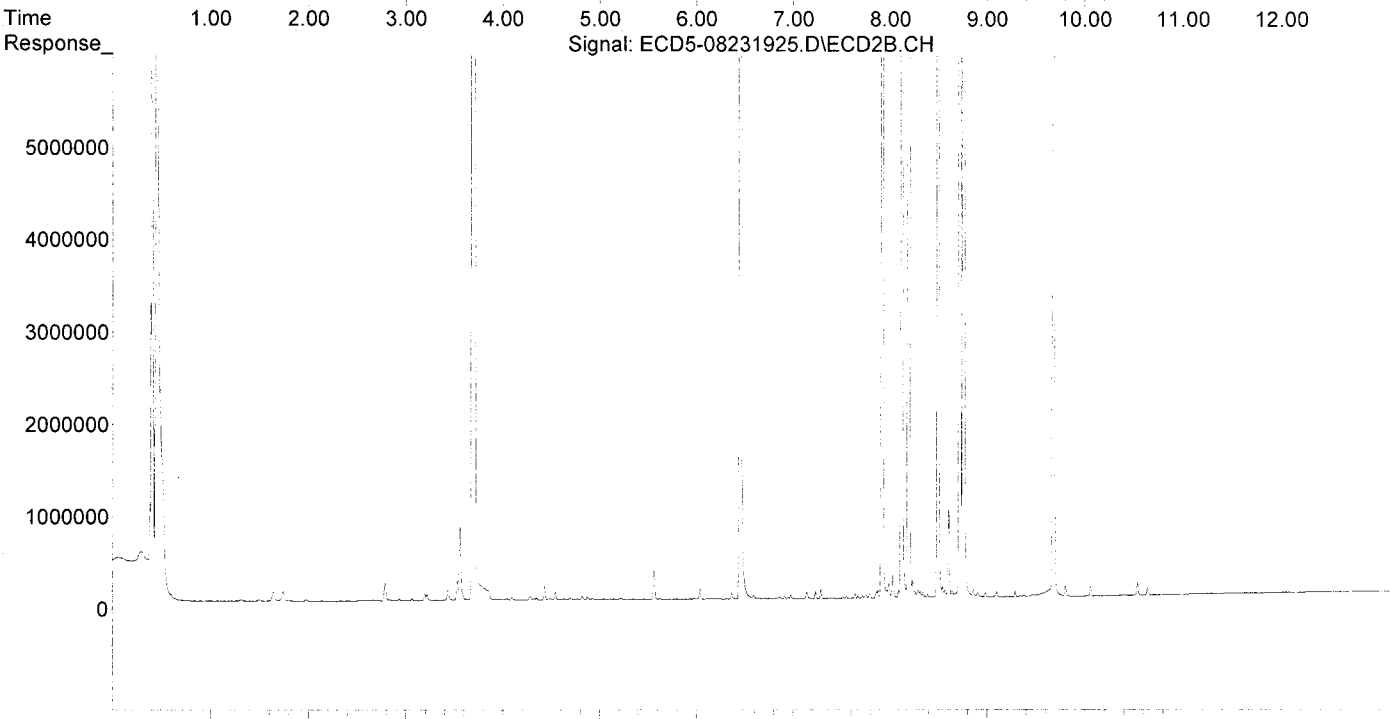
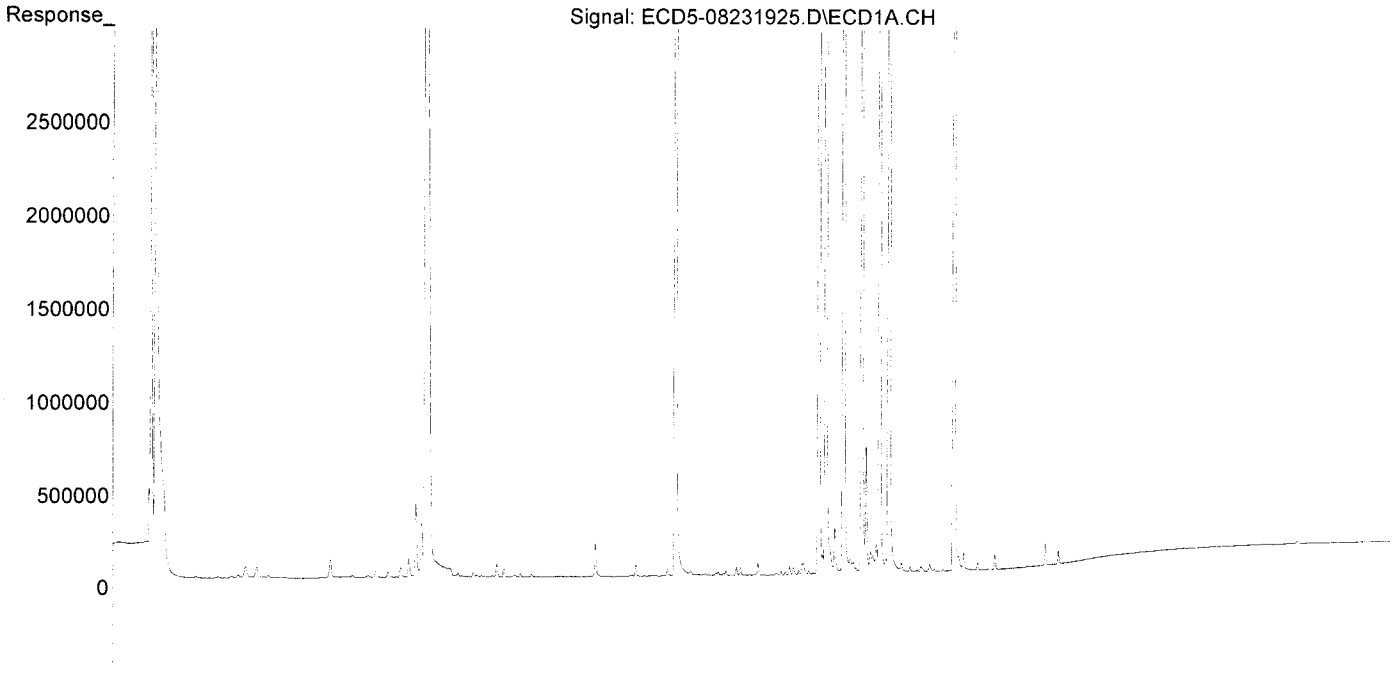
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.367f	5.980	60549	10992	0.365	0.037 #
22) S DCBP (S)	9.590	10.538	118766	140925	0.842	0.784
Target Compounds						
2) a-BHC	5.933	6.593	27118	40902	0.118	0.100
3) g-BHC	6.218	6.912	21255	30993	0.105	0.087
4) b-BHC	6.299	6.977	25058	44238	0.277	0.280
5) Heptachlor	6.630	7.287	63252	104459	0.349	0.341
6) d-BHC	6.448	7.231	43545	78794	0.221	0.223
7) Aldrin	6.870	7.552	17012	29944	0.086	0.091
8) Heptachlo...	7.331	7.988	24819199	162906	134.756	0.541 #
9) trans-Chl...	7.425	8.122	250239	44504592	1.353	142.039 #
10) cis-Chlor...	7.514	8.235	35027918	188111	192.386	0.646 #
11) Endosulfa...	7.581f	8.289	74592	84898	0.438	0.309
12) 4,4'-DDE	7.581	8.341	74592	59877	0.396	0.193 #
13) Dieldrin	7.794	8.494	114089	39839303	0.594	130.986 #
14) Endrin	7.984f	8.719	40046185	39999231	272.373	177.123
15) 4,4'-DDD	7.984	8.759	40046185	72455823	254.843	282.794
16) Endosulfa...	8.113	8.861	50946	84198	0.355	0.365
17) 4,4'-DDT	8.201	8.983	28640	48189	0.240	0.243
18) Endrin Al...	8.404	9.098	39025	57504	BelowCal	BelowCal
19) Endosulfa...	0.000	9.289	0	61418	N.D.	0.247 #
20) Methoxychlor	8.541	9.464	9687	26335	0.165	0.141
21) Endrin Ke...	8.898	9.679	37586	38425530	0.225	149.332 #
23) Hexachlor...	3.199	3.689	34166533	75988565	186.969	202.134
24) Hexachlor...	5.774	6.454	34073459	66261966	193.277	210.967
25) Oxychlorane	7.258	7.920	32032634	58736982	194.683	214.445
26) 2,4'-DDE	7.331	8.122	24819199	44504592	193.505	209.791
27) trans-Non...	7.514	8.194	35027918	63083636	195.632	209.138
28) 2,4'-DDD	7.703	8.494	21916962	39839303	192.043	210.942
29) 2,4'-DDT	7.887	8.719	23024956	39999231	209.914	224.287
30) cis-Nonac...	7.984	8.759	40046185	72455823	192.886	215.996
31) Mirex	8.652	9.679	23284997	38425530	185.735	206.507
32) Chlordane...	7.425	8.122	250239	44504592	12.709	1229.933 #
33) Chlordane...	7.514	8.235	35027918	188111	1397.523	6.195 #
34) Chlordane...	0.000	8.902	0	52051	N.D.	5.805 #
35) Chlordane...	3.438	3.433	48985	106773	NoCal	NoCal
36) Toxaphene...	7.514	8.494f	35027918	39839303	39109.048	15181.168 #
37) Toxaphene...	7.794	0.000	114089	0	70.646	N.D. #
38) Toxaphene...	8.113	8.861	50946	84198	15.129	16.613
39) Toxaphene...	8.313f	8.902	28693	52051	8.856	6.234
40) Toxaphene...	8.602f	9.098	3169	57504	1.322	12.339 #
41) Toxaphene...	8.652	9.464	23284997	26335	7357.999	5.544 #
42) Toxaphene...	3.438	3.433	48985	106773	NoCal	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231925.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 18:45
Operator : MJB
Sample : 9H23034-CALG
Misc : A19E271, 9-42 200 ppb
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 26 12:03:40 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
 Data File : ECD5-08231928.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 23 Aug 2019 19:36
 Operator : MJB
 Sample : 9H23034-CALH
 Misc : A19F232, CHLOR 50 ppb
 ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Aug 26 12:04:22 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
 Quant Title : Instrument: DualeCD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

WB 8/26/19

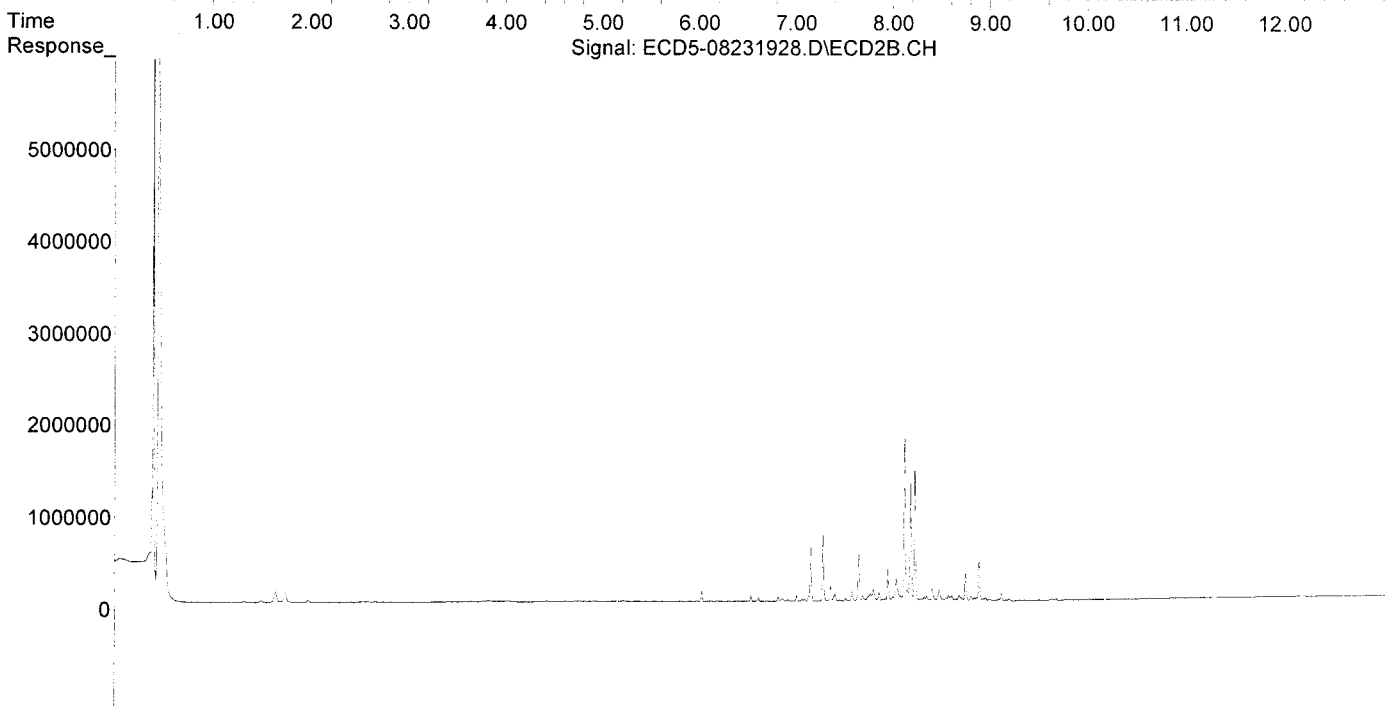
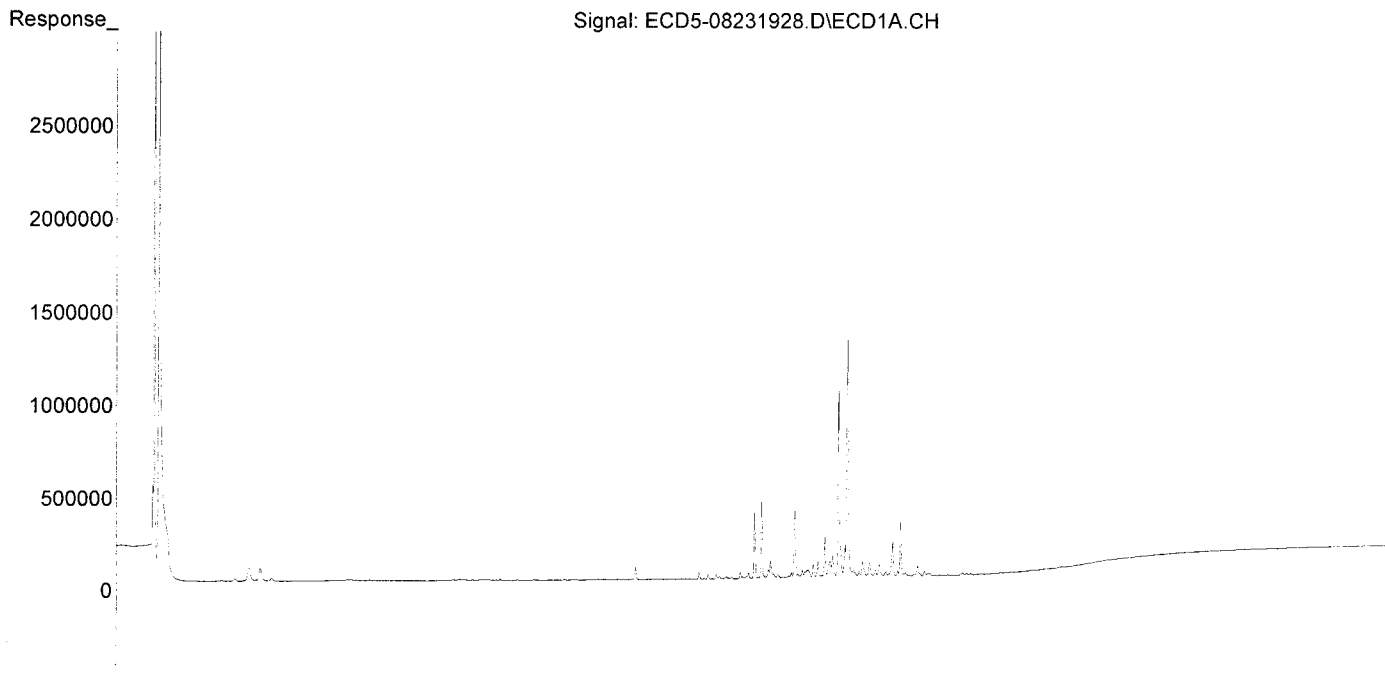
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	0.000	0	0	N.D.	N.D.
22) S DCBP (S)	9.606	0.000	5901	0	0.042	N.D. #
Target Compounds						
2) a-BHC	0.000	6.622f	0	41997	N.D.	0.102 #
3) g-BHC	6.194f	6.924	13212	19652	0.065	0.055
4) b-BHC	6.323f	7.016f	10976	62438	0.121	0.395 #
5) Heptachlor	6.632	7.288	412192	714454	2.274	2.335
6) d-BHC	6.412f	0.000	34416	0	0.175	N.D. #
7) Aldrin	6.877	7.558	6150	10093	0.031	0.031
8) Heptachlo...	7.337	8.010	84467	51183	0.459	0.170 #
9) trans-Chl...	7.429	8.131	1009143	1754707	5.458	5.600
10) cis-Chlor...	7.521	8.237	1286655	1472400	7.067	5.056
11) Endosulfa...	7.640	8.308	29794	24027	0.175	0.087 #
12) 4,4'-DDE	7.579	8.333	33953	45018	0.180	0.145
13) Dieldrin	7.807	8.488	35520	119533	0.185	0.393 #
14) Endrin	7.986f	8.714	182097	37218	1.239	0.165 #
15) 4,4'-DDD	7.986	8.759	182097	301826	1.159	1.178
16) Endosulfa...	8.118	8.873	19535	32870	0.136	0.143
17) 4,4'-DDT	0.000	8.994	0	11155	N.D.	0.027 #
18) Endrin Al...	8.368f	9.128f	14946	80647	BelowCal	BelowCal
19) Endosulfa...	8.708	9.316f	13079	6249	0.084	0.025 #
20) Methoxychlor	8.553	0.000	3815	0	0.065	N.D. #
21) Endrin Ke...	8.899	9.686	2603	18155	0.016	0.071 #
23) Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
24) Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
25) Oxychlordane	7.256	7.934	11579	24468	0.070	0.089
26) 2,4'-DDE	7.337	8.131	84467	1754707	0.659	8.272 #
27) trans-Non...	7.521	8.194	1286655	1274306	6.866	4.225
28) 2,4'-DDD	7.675f	8.488	83034	119533	0.728	0.633
29) 2,4'-DDT	7.914f	8.714	22312	37218	0.203	0.209
30) cis-Nonac...	7.986	8.759	182097	301826	0.877	0.900
31) Mirex	0.000	9.686	0	18155	N.D.	0.098 #
32) Chlordane...	7.429	8.131	1009143	1754707	51.253	48.493
33) Chlordane...	7.521	8.237	1286655	1472400	51.334	48.492
34) Chlordane...	8.068	8.897	288087	439020	49.832	48.966
35) Chlordane...	3.446	0.000	5365	0	NoCal	N.D.
36) Toxaphene...	7.521	8.488f	1286655	119533	1436.564	45.549 #
37) Toxaphene...	7.807	8.814	35520	51904	21.995	15.771
38) Toxaphene...	8.118	8.851	19535	35575	5.801	7.019
39) Toxaphene...	8.348	8.897	14389	439020	4.441	52.578 #
40) Toxaphene...	8.553f	9.128f	3815	80647	1.591	17.305 #
41) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.
42) Toxaphene...	3.446	0.000	5365	0	NoCal	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231928.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 19:36
Operator : MJB
Sample : 9H23034-CALH
Misc : A19F232, CHLOR 50 ppb
ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 26 12:04:22 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
 Data File : ECD5-08231929.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 23 Aug 2019 19:54
 Operator : MJB
 Sample : 9H23034-CALI
 Misc : A19F233, CHLOR 100 ppb
 ALS Vial : 23 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Aug 26 12:04:32 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

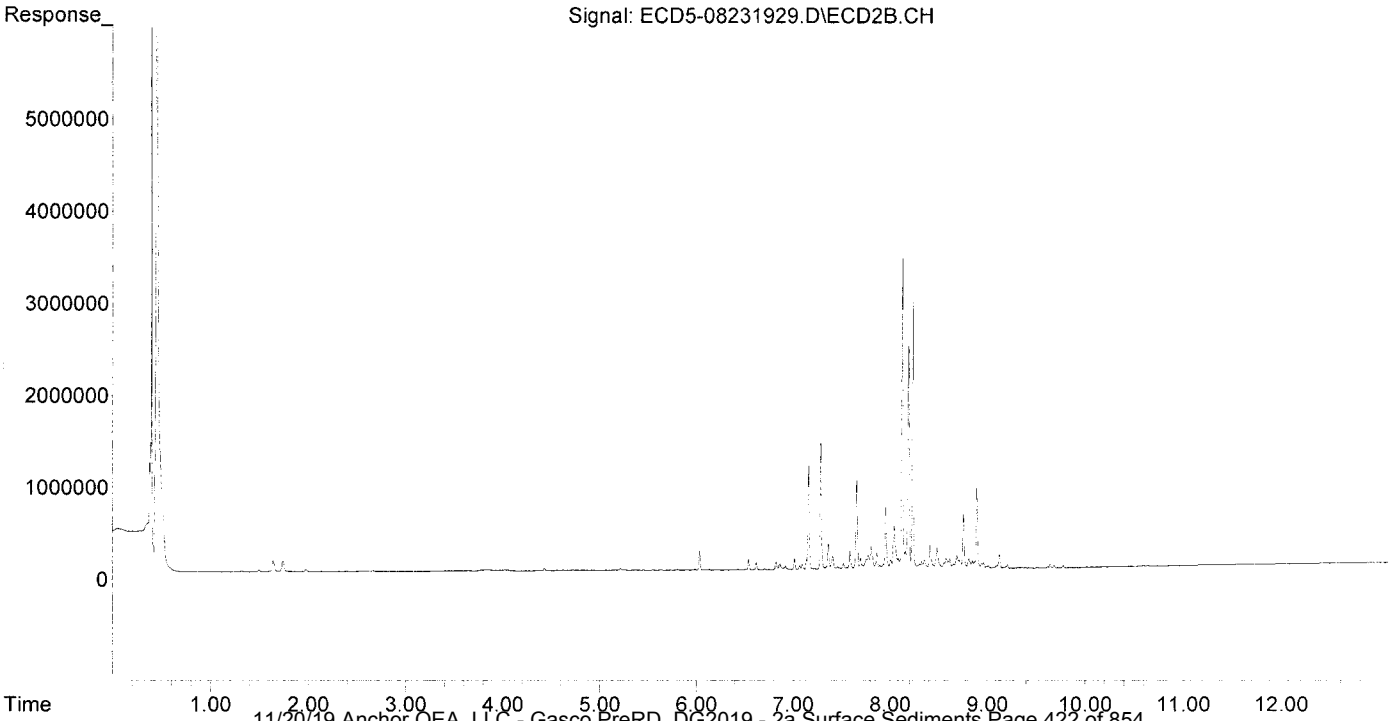
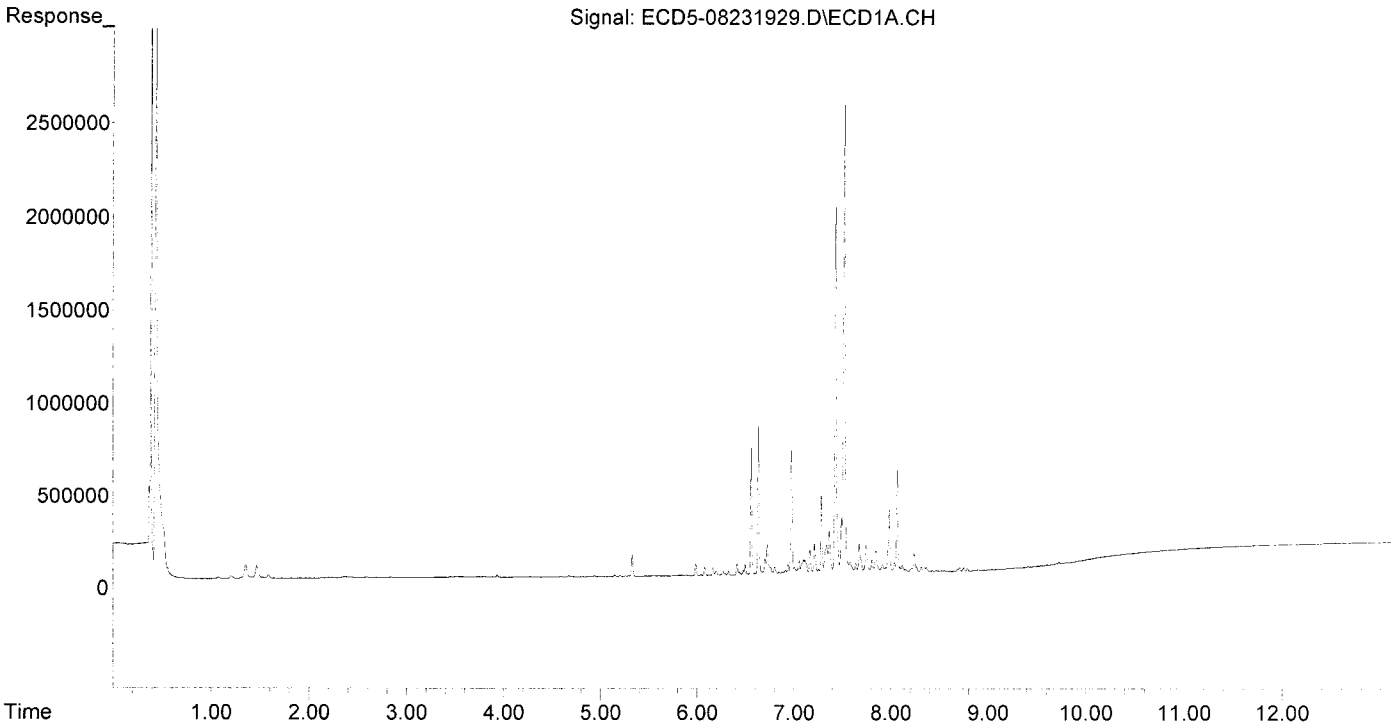
*MB
8/26/19*

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	5.984	0	5943	N.D.	0.020 #
22) S DCBP (S)	9.606	0.000	7472	0	0.053	N.D. #
Target Compounds						
2) a-BHC	0.000	6.622f	0	77932	N.D.	0.190 #
3) g-BHC	6.194f	6.923	23514	36662	0.117	0.103
4) b-BHC	6.323f	7.016f	21053	115009	0.233	0.727 #
5) Heptachlor	6.632	7.288	802906	1372147	4.429	4.484
6) d-BHC	6.412f	0.000	63497	0	0.323	N.D. #
7) Aldrin	6.877	7.558	12864	20481	0.065	0.062
8) Heptachlo...	7.338	8.010	155514	93915	0.844	0.312 #
9) trans-Chl...	7.429	8.130	1978897	3378388	10.703	10.782
10) cis-Chlor...	7.521	8.238	2519520	2905941	13.838	9.978
11) Endosulfa...	7.641f	8.309f	56850	48968	0.334	0.178 #
12) 4,4'-DDE	7.579	8.334	63125	84256	0.335	0.271
13) Dieldrin	7.807	8.488	69910	230931	0.364	0.759 #
14) Endrin	7.986f	8.713	344068	89428	2.340	0.396 #
15) 4,4'-DDD	7.986	8.760	344068	593441	2.190	2.316
16) Endosulfa...	8.118	8.873	39271	74727	0.273	0.324
17) 4,4'-DDT	0.000	8.995	0	22043	N.D.	0.090 #
18) Endrin Al...	8.428f	9.128f	7592	153472	BelowCal	BelowCal
19) Endosulfa...	8.709	9.317f	21141	11695	0.136	0.047 #
20) Methoxychlor	8.553	0.000	6889	0	0.118	N.D. #
21) Endrin Ke...	8.897	9.687	3240	29883	0.019	0.116 #
23) Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
24) Hexachlor...	0.000	6.430f	0	7921	N.D.	0.025 #
25) Oxychlordane	7.255	7.934	24127	50634	0.147	0.185
26) 2,4'-DDE	7.338	8.130	155514	3378388	1.212	15.925 #
27) trans-Non...	7.521	8.195	2519520	2542319	13.749	8.428
28) 2,4'-DDD	7.676f	8.488	159771	230931	1.400	1.223
29) 2,4'-DDT	7.914f	8.713	44472	89428	0.405	0.501
30) cis-Nonac...	7.986	8.760	344068	593441	1.657	1.769
31) Mirex	0.000	9.687	0	29883	N.D.	0.161 #
32) Chlordane...	7.429	8.130	1978897	3378388	100.505	93.365
33) Chlordane...	7.521	8.238	2519520	2905941	100.522	95.703
34) Chlordane...	8.068	8.898	548196	874465	94.825	97.533
35) Chlordane...	3.446	0.000	4938	0	NoCal	N.D.
36) Toxaphene...	7.521	8.488f	2519520	230931	2813.072	87.999 #
37) Toxaphene...	7.807	8.815	69910	108014	43.289	32.821
38) Toxaphene...	8.118	8.851	39271	84269	11.662	16.627 #
39) Toxaphene...	8.349	8.898	25383	874465	7.834	104.728 #
40) Toxaphene...	8.553f	9.068f	6889	13931	2.874	2.989
41) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.
42) Toxaphene...	3.446	0.000	4938	0	NoCal	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231929.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 19:54
Operator : MJB
Sample : 9H23034-CALI
Misc : A19F233, CHLOR 100 ppb
ALS Vial : 23 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 26 12:04:32 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
 Data File : ECD5-08231930.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 23 Aug 2019 20:11
 Operator : MJB
 Sample : 9H23034-CALJ
 Misc : A19F234, CHLOR 200 ppb
 ALS Vial : 24 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Aug 26 12:04:43 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB
8/26/19

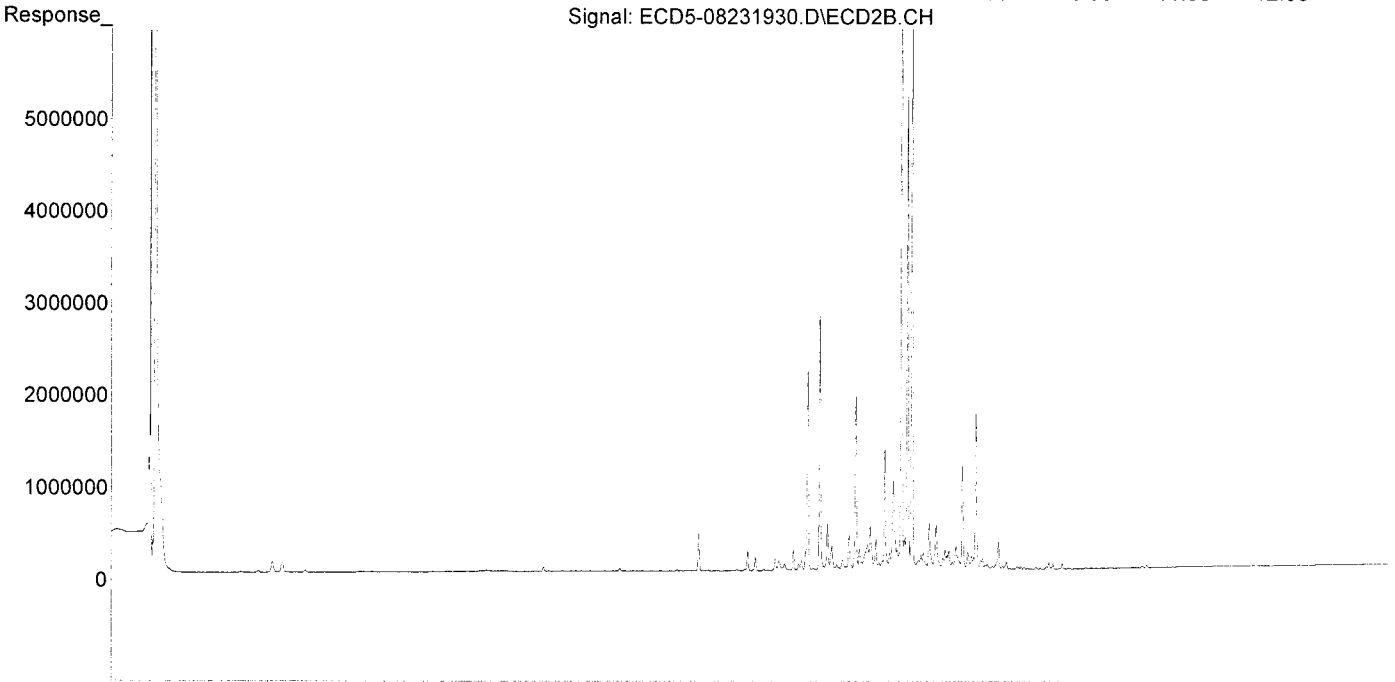
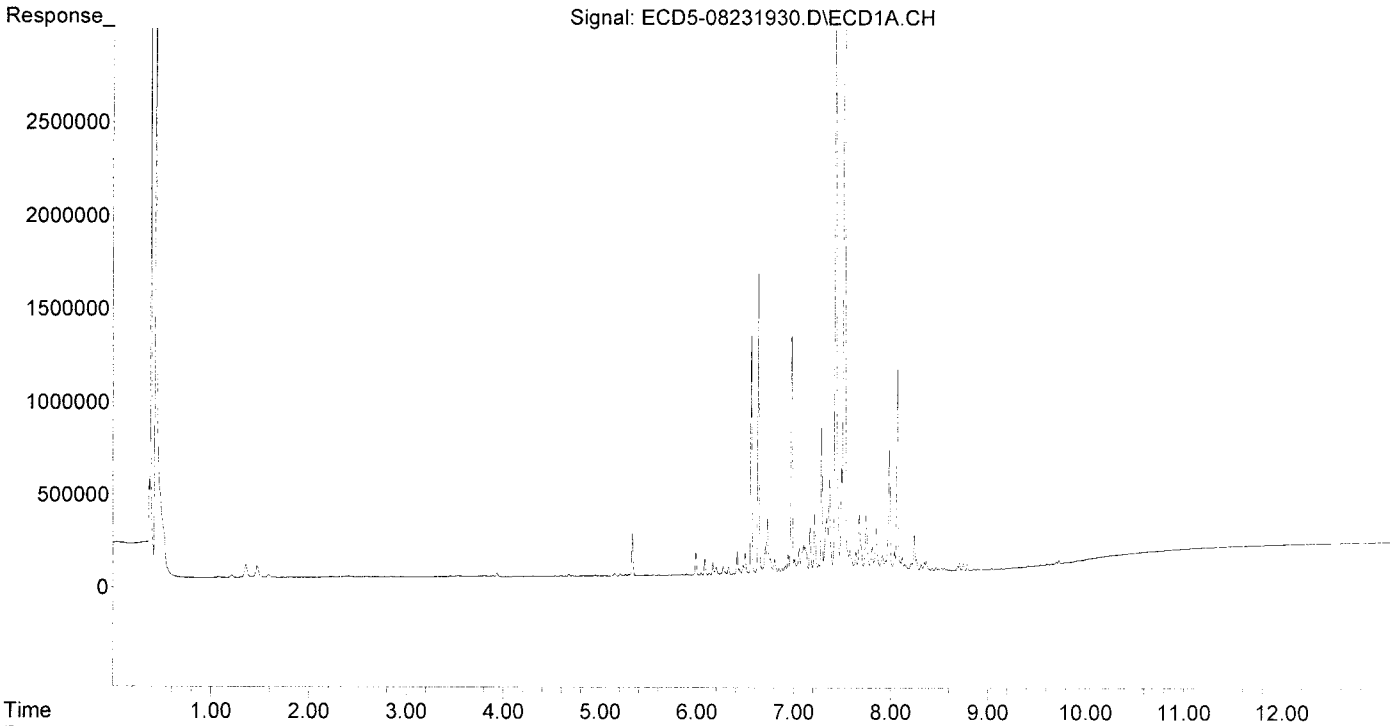
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	0.000	0	0	N.D.	N.D.
22) S DCBP (S)	9.605	0.000	9631	0	0.068	N.D. #
Target Compounds						
2) a-BHC	0.000	6.623f	0	141009	N.D.	0.344 #
3) g-BHC	6.197f	6.925	44236	70355	0.219	0.197
4) b-BHC	6.269f	0.000	45994	0	0.509	N.D. #
5) Heptachlor	6.633	7.290	1604459	2790294	8.850	9.119
6) d-BHC	6.414f	7.222	125171	21783	0.636	0.062 #
7) Aldrin	6.878	7.559	27966	42088	0.142	0.128
8) Heptachlo...	7.339	8.011	296306	184421	1.609	0.613 #
9) trans-Chl...	7.429	8.131	3849299	6751197	20.819	21.547
10) cis-Chlor...	7.522	8.239	4906320	5883615	26.947	20.201
11) Endosulfa...	7.641f	8.311f	111658	101195	0.656	0.368 #
12) 4,4'-DDE	7.579	8.334	119469	162236	0.634	0.522
13) Dieldrin	7.808	8.488	135995	479651	0.708	1.577 #
14) Endrin	7.986f	8.714	662867	142098	4.508	0.629 #
15) 4,4'-DDD	7.986	8.759	662867	1113368	4.218	4.345
16) Endosulfa...	8.119	8.852	78177	142714	0.544	0.619
17) 4,4'-DDT	0.000	8.995	0	47222	N.D.	0.237 #
18) Endrin Al...	8.429f	9.129f	17160	296262	BelowCal	0.772
19) Endosulfa...	8.709	9.317f	39967	28714	0.258	0.115 #
20) Methoxychlor	8.528	9.426f	15895	10981	0.271	BelowCal #
21) Endrin Ke...	8.895	9.688	5405	57534	0.032	0.224 #
23) Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
24) Hexachlor...	5.768	6.432f	3592	14719	0.020	0.047 #
25) Oxychlordane	7.256	7.935	46857	97946	0.285	0.358
26) 2,4'-DDE	7.339	8.131	296306	6751197	2.310	31.825 #
27) trans-Non...	7.522	8.196	4906320	5159253	27.077	17.104
28) 2,4'-DDD	7.676f	8.488	310109	479651	2.717	2.540
29) 2,4'-DDT	7.915f	8.714	90205	142098	0.822	0.797
30) cis-Nonac...	7.986	8.759	662867	1113368	3.193	3.319
31) Mirex	8.690f	9.688	25315	57534	0.202	0.309 #
32) Chlordane...	7.429	8.131	3849299	6751197	195.499	186.577
33) Chlordane...	7.522	8.239	4906320	5883615	195.749	193.769
34) Chlordane...	8.069	8.898	1101677	1731727	190.565	193.146
35) Chlordane...	3.448	0.000	4503	0	NoCal	N.D.
36) Toxaphene...	7.522f	8.488f	4906320	479651	5477.960	182.776 #
37) Toxaphene...	7.808	8.815	135995	186597	84.211	56.699
38) Toxaphene...	8.119	8.852	78177	142714	23.215	28.158
39) Toxaphene...	8.349	8.898	48611	1731727	15.003	207.397 #
40) Toxaphene...	8.553f	9.069f	15795	32796	6.589	7.037
41) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.
42) Toxaphene...	3.448	0.000	4503	0	NoCal	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231930.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 20:11
Operator : MJB
Sample : 9H23034-CALJ
Misc : A19F234, CHLOR 200 ppb
ALS Vial : 24 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 26 12:04:43 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
 Data File : ECD5-08231931.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 23 Aug 2019 20:28
 Operator : MJB
 Sample : 9H23034-CALK
 Misc : A19F235, CHLOR 500 ppb
 ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Aug 26 12:04:52 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB
6/26/19

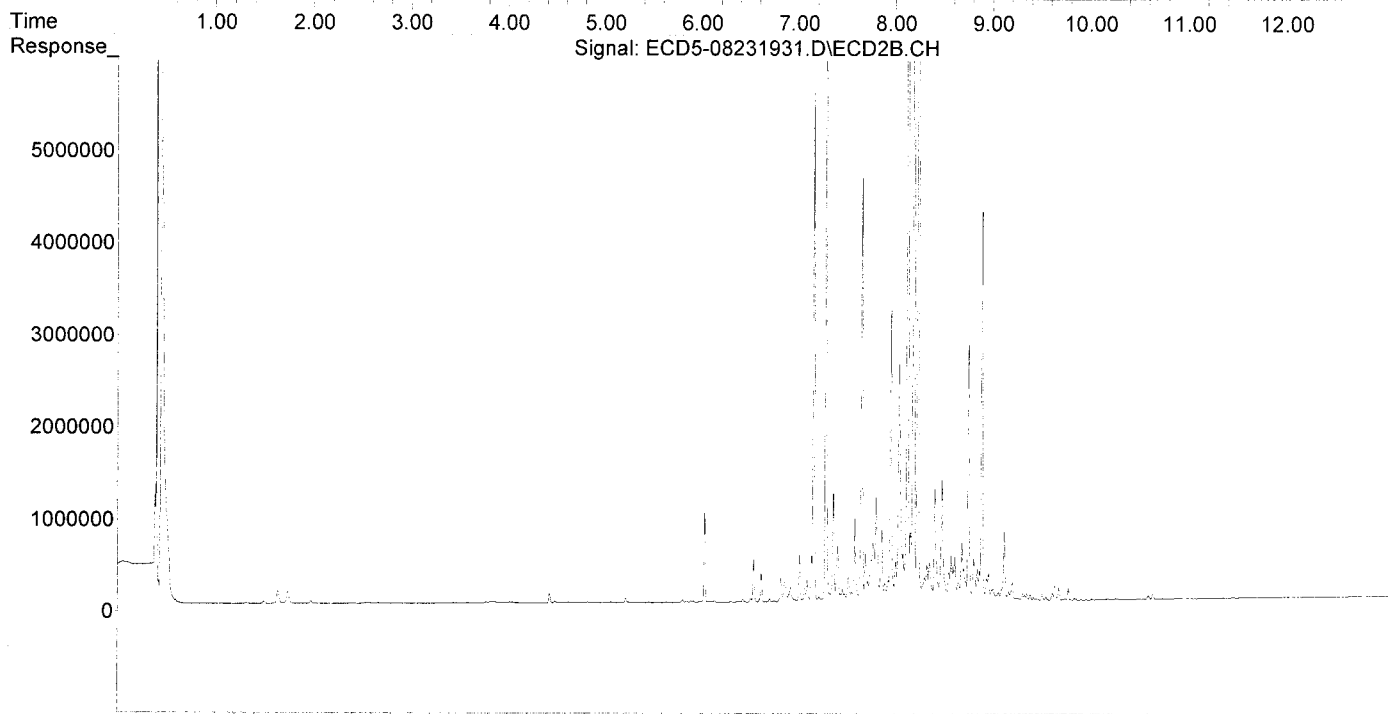
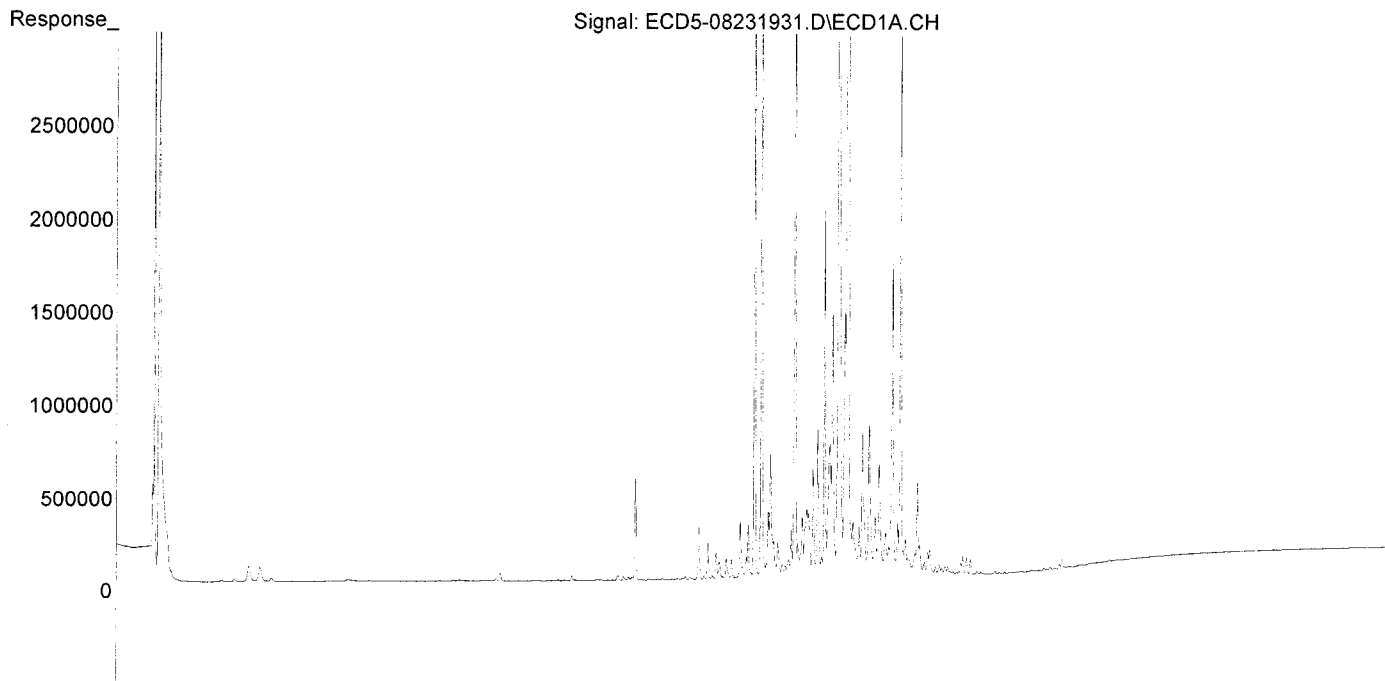
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	5.982	0	9372	N.D.	0.032 #
22) S DCBP (S)	9.605	10.512f	13871	6664	0.098	0.037 #
Target Compounds						
2) a-BHC	0.000	6.621f	0	314411	N.D.	0.766 #
3) g-BHC	6.194f	6.923	92958	161395	0.461	0.452
4) b-BHC	6.322f	7.016f	105835	520011	1.171	3.286 #
5) Heptachlor	6.631	7.288	4107971	7192687	22.659	23.507
6) d-BHC	6.412f	7.219	305503	51612	1.553	0.146 #
7) Aldrin	6.876	7.558	67201	101902	0.340	0.309
8) Heptachlo...	7.336	8.009	709786	434942	3.854	1.446 #
9) trans-Chl...	7.427	8.129	9628671	17830433	52.077	56.907
10) cis-Chlor...	7.520	8.237	12176524	14812273	66.878	50.858
11) Endosulfa...	7.639	8.308	267451	260205	1.572	0.946
12) 4,4'-DDE	7.577	8.332	288716	403680	1.531	1.299
13) Dieldrin	7.806	8.487	320749	1311343	1.671	4.312 #
14) Endrin	7.984f	8.712	1680286	346653	11.428	1.535 #
15) 4,4'-DDD	7.984	8.758	1680286	2798638	10.693	10.923
16) Endosulfa...	8.118	8.872	194466	323054	1.354	1.401
17) 4,4'-DDT	0.000	8.994	0	120742	N.D.	0.665 #
18) Endrin Al...	8.427f	9.127f	45775	749534	BelowCal	3.242
19) Endosulfa...	8.708	9.316f	99125	76741	0.640	0.308 #
20) Methoxychlor	8.552	9.462	44336	19918	0.757	0.061 #
21) Endrin Ke...	8.892	9.686	12903	140715	0.077	0.547 #
23) Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
24) Hexachlor...	5.767	6.430f	6475	34351	0.037	0.109 #
25) Oxychlordane	7.283f	7.933	1963331	230983	11.932	0.843 #
26) 2,4'-DDE	7.336	8.129	709786	17830433	5.534	84.051 #
27) trans-Non...	7.520	8.194	12176524	13173616	67.700	43.674
28) 2,4'-DDD	7.674f	8.487	765105	1311343	6.704	6.943
29) 2,4'-DDT	7.913f	8.712	230360	346653	2.100	1.944
30) cis-Nonac...	7.984	8.758	1680286	2798638	8.093	8.343
31) Mirex	8.645	9.686	12290	140715	0.098	0.756 #
32) Chlordane...	7.427	8.129	9628671	17830433	489.023	492.763
33) Chlordane...	7.520	8.237	12176524	14812273	485.812	487.822
34) Chlordane...	8.067	8.896	2921278	4271709	505.313	476.441
35) Chlordane...	3.447	0.000	4056	0	NoCal	N.D.
36) Toxaphene...	7.520	8.487f	12176524	1311343	13595.220	499.701 #
37) Toxaphene...	7.806	8.813	320749	462807	198.614	140.627
38) Toxaphene...	8.118	8.850	194466	348421	57.748	68.745
39) Toxaphene...	8.348	8.896	120098	4271709	37.065	511.592 #
40) Toxaphene...	8.552f	9.067f	44336	90716	18.495	19.465
41) Toxaphene...	8.645	9.462	12290	19918	3.884	4.193
42) Toxaphene...	3.447	0.000	4056	0	NoCal	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231931.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 20:28
Operator : MJB
Sample : 9H23034-CALK
Misc : A19F235, CHLOR 500 ppb
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 26 12:04:52 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
 Data File : ECD5-08231932.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 23 Aug 2019 20:45
 Operator : MJB
 Sample : 9H23034-CALL
 Misc : A19F236, CHLOR 1000 ppb
 ALS Vial : 26 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Aug 26 12:05:04 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB
8/26/19

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL

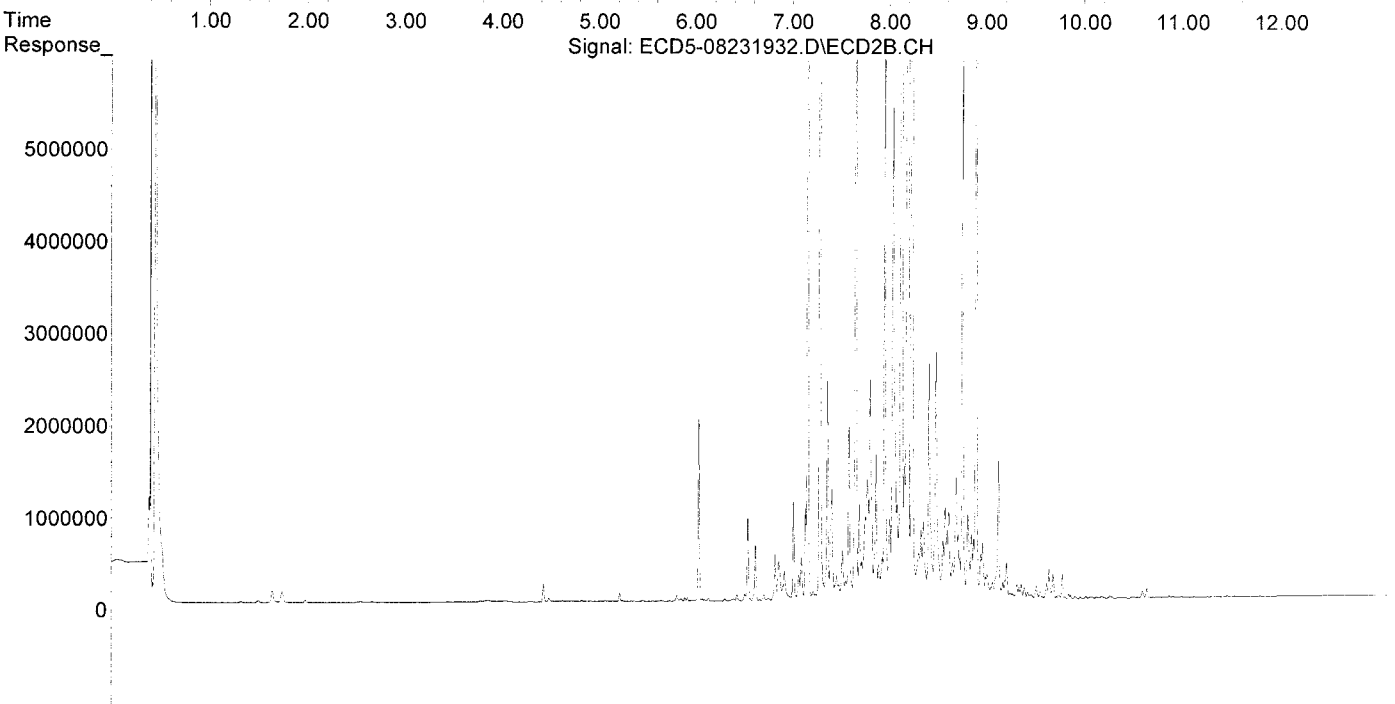
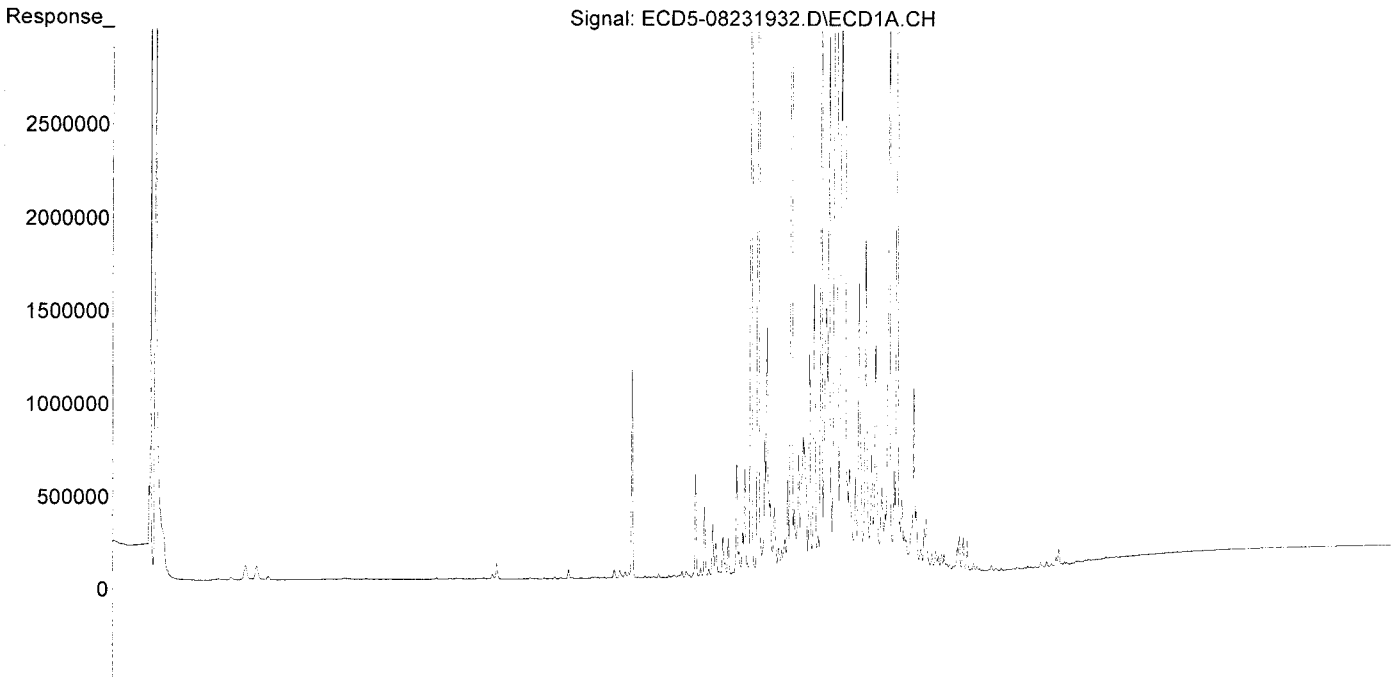
System Monitoring Compounds						
1) S TCMX (S)	5.393	5.980	6433	11040	0.039	0.038
22) S DCBP (S)	9.604	10.553	33011	8716	0.234	0.048 #
Target Compounds						
2) a-BHC	0.000	6.622f	0	610263	N.D.	1.487 #
3) g-BHC	6.194f	6.923	179715	319626	0.891	0.896
4) b-BHC	6.322f	7.016f	206312	1070369	2.283	6.763 #
5) Heptachlor	6.631	7.288	8491782	15019038	46.839	49.085
6) d-BHC	6.411f	7.241	615917	64884	3.131	0.184 #
7) Aldrin	6.875	7.558	134371	205192	0.681	0.623
8) Heptachlo...	7.335	8.009	1431988	873449	7.775	2.903 #
9) trans-Chl...	7.426	8.130	19643766	37966746	106.245	121.173
10) cis-Chlor...	7.519	8.237	25083239	31493677	137.766	108.134
11) Endosulfa...	7.638	8.309f	523226	508009	3.075	1.846
12) 4,4'-DDE	7.576	8.332	564335	775935	2.993	2.498
13) Dieldrin	7.805	8.487	632206	2703774	3.293	8.890 #
14) Endrin	7.985f	8.713	3305895	704023	22.485	3.118 #
15) 4,4'-DDD	7.985	8.758	3305895	5865563	21.038	22.893
16) Endosulfa...	8.118	8.872	392448	653843	2.733	2.835
17) 4,4'-DDT	8.241f	8.994	1019486	242495	8.527	1.373 #
18) Endrin Al...	8.427f	9.128f	96085	1500188	BelowCal	7.301
19) Endosulfa...	8.708	9.269	190049	57556	1.226	0.231 #
20) Methoxychlor	8.552	9.462	93194	45695	1.591	0.381 #
21) Endrin Ke...	8.891	9.687	25043	266287	0.150	1.035 #
23) Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
24) Hexachlor...	5.767	6.430f	12323	65416	0.070	0.208 #
25) Oxychlordane	7.252	7.933	207847	466300	1.263	1.702
26) 2,4'-DDE	7.335	8.130	1431988	37966746	11.165	178.972 #
27) trans-Non...	7.519	8.194	25083239	27721467	139.911	91.904
28) 2,4'-DDD	7.673f	8.487	1536407	2703774	13.462	14.316
29) 2,4'-DDT	7.912f	8.713	462112	704023	4.213	3.948
30) cis-Nonac...	7.985	8.758	3305895	5865563	15.923	17.486
31) Mirex	8.645	9.687	28961	266287	0.231	1.431 #
32) Chlordane...	7.426	8.130	19643766	37966746	997.671	1049.252
33) Chlordane...	7.519	8.237	25083239	31493677	1000.756	1037.202
34) Chlordane...	8.067	8.897	5987927	9358900	1035.773	1043.835
35) Chlordane...	3.447	0.000	4825	0	NoCal	N.D.
36) Toxaphene...	7.519	8.487f	25083239	2703774	28005.706	1030.300 #
37) Toxaphene...	7.805	8.814	632206	927954	391.474	281.965
38) Toxaphene...	8.118	8.850	392448	706508	116.540	139.397
39) Toxaphene...	8.348	8.897	233440	9358900	72.046	1120.849 #
40) Toxaphene...	8.552f	9.067f	93194	183092	38.877	39.287
41) Toxaphene...	8.645	9.462	28961	45695	9.152	9.620
42) Toxaphene...	3.447	0.000	4825	0	NoCal	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231932.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 20:45
Operator : MJB
Sample : 9H23034-CALL
Misc : A19F236, CHLOR 1000 ppb
ALS Vial : 26 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 26 12:05:04 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
 Data File : ECD5-08231933.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 23 Aug 2019 21:02
 Operator : MJB
 Sample : 9H23034-CALM
 Misc : A19F231, CHLOR 2000 ppb
 ALS Vial : 27 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Aug 26 12:05:14 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB
8/26/19

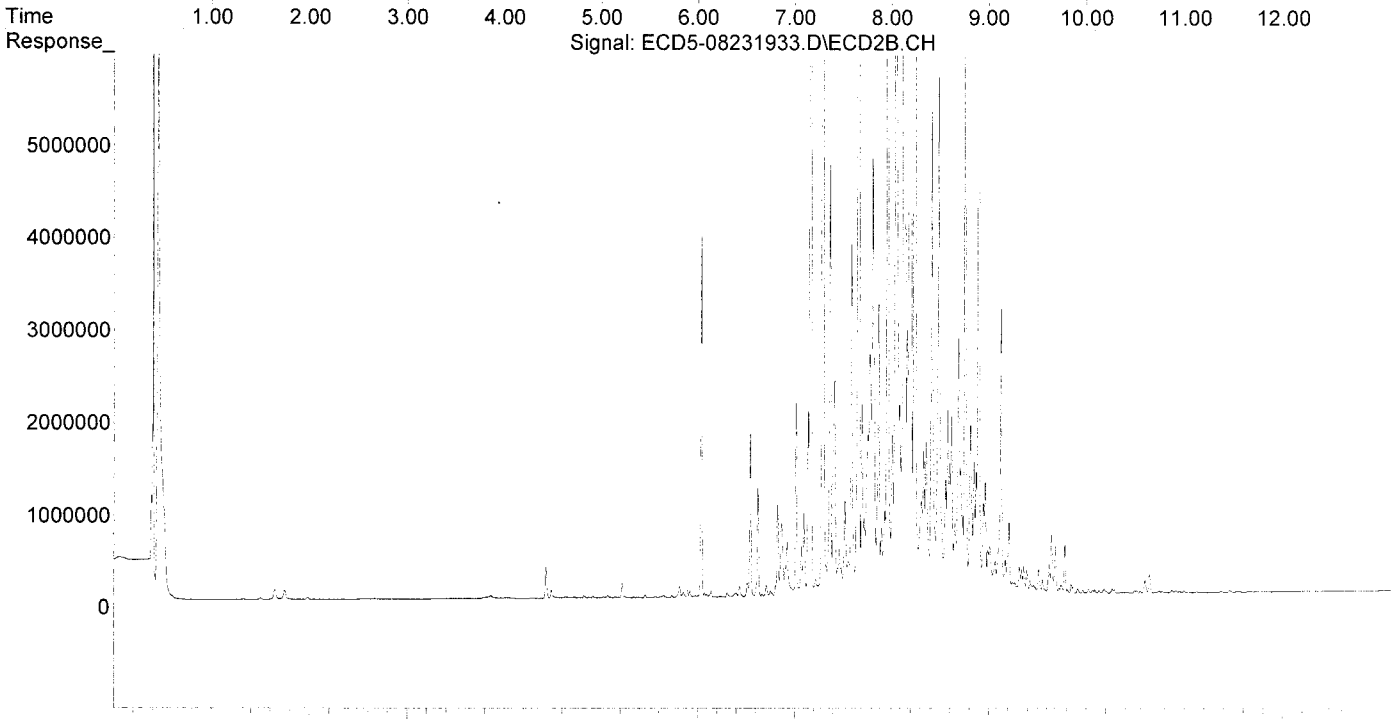
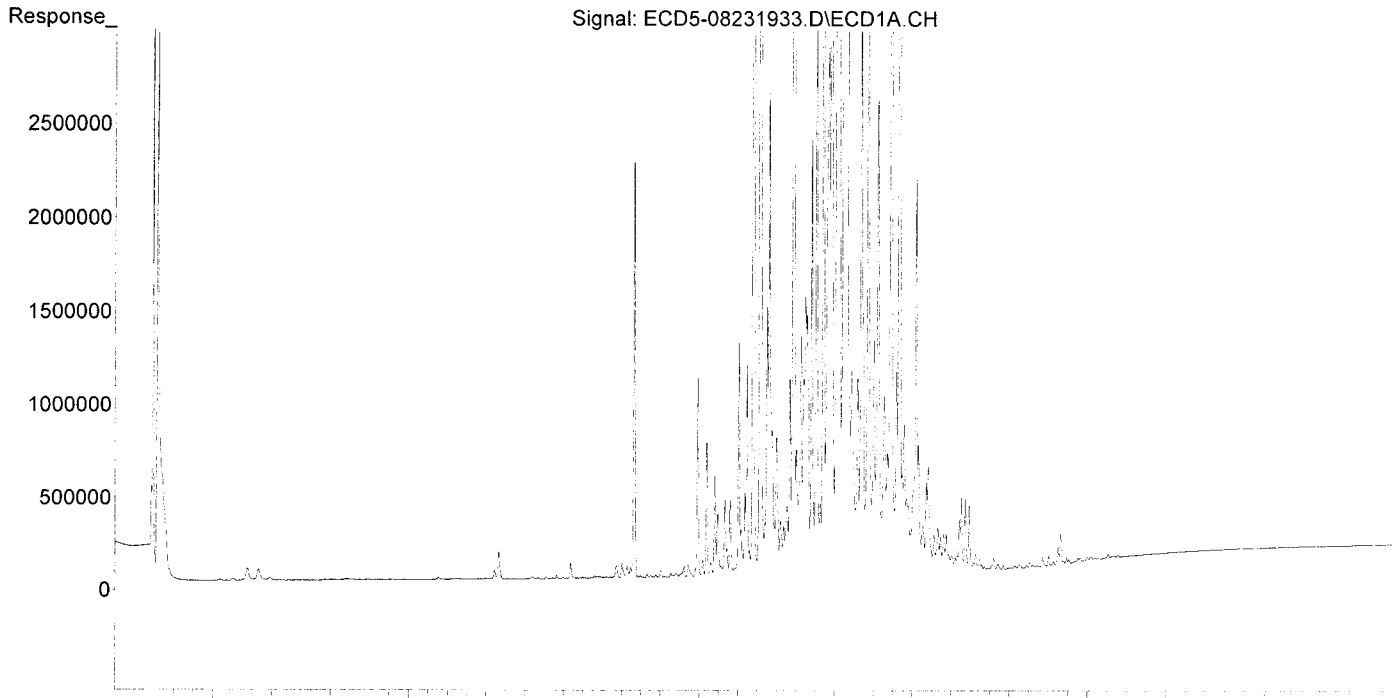
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.393	5.971	11655	15748	0.070	0.054
22) S DCBP (S)	9.604	10.552	57777	17575	0.409	0.098 #
Target Compounds						
2) a-BHC	0.000	6.621f	0	1174704	N.D.	2.863 #
3) g-BHC	6.193f	6.922	334417	594314	1.657	1.666
4) b-BHC	6.321f	7.016f	403109	2092681	4.460	13.223 #
5) Heptachlor	6.630	7.288	16898199	31950039	93.207	104.420
6) d-BHC	6.411f	7.240	1241284	122584	6.311	0.348 #
7) Aldrin	6.874	7.557	258489	381283	1.309	1.158
8) Heptachlo...	7.335	8.008	2829322	1755780	15.362	5.836 #
9) trans-Chl...	7.426	8.130	40036500	81691713	216.541	260.724
10) cis-Chlor...	7.519	8.238	50979142	66281388	279.996	227.578
11) Endosulfa...	7.638	8.308	1047673	1022624	6.156	3.716
12) 4,4'-DDE	7.576	8.332	1098754	1565142	5.828	5.038
13) Dieldrin	7.805	8.486	1246658	5614133	6.494	18.458 #
14) Endrin	7.984f	8.692f	6820662	2823722	46.391	12.504 #
15) 4,4'-DDD	7.984	8.759	6820662	12014776	43.405	46.894
16) Endosulfa...	8.118	8.872	787524	1320218	5.484	5.725
17) 4,4'-DDT	8.242f	8.993	2107649	483614	17.628	2.768 #
18) Endrin Al...	8.427f	9.128f	193793	3090717	0.642	15.775 #
19) Endosulfa...	8.709	9.268f	400484	128754	2.584	0.517 #
20) Methoxychlor	8.552	9.462	195767	96597	3.342	1.012 #
21) Endrin Ke...	8.892	9.686	57711	528113	0.346	2.052 #
23) Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
24) Hexachlor...	5.766	6.430f	22503	117032	0.128	0.373 #
25) Oxychlorane	7.252	7.932	378689	930396	2.302	3.397 #
26) 2,4'-DDE	7.335	8.130	2829322	81691713	22.059	385.087 #
27) trans-Non...	7.519	8.194	50979142	59315099	285.157	196.645
28) 2,4'-DDD	7.673f	8.486	3134690	5614133	27.467	29.726
29) 2,4'-DDT	7.912f	8.692f	956476	2823722	8.720	15.833 #
30) cis-Nonac...	7.984	8.759	6820662	12014776	32.852	35.817
31) Mirex	8.645	9.686	70178	528113	0.560	2.838 #
32) Chlordane...	7.426	8.130	40036500	81691713	2033.382	2257.639
33) Chlordane...	7.519	8.238	50979142	66281388	2033.935	2182.889
34) Chlordane...	8.067	8.897	12208306	19418517	2111.754	2165.824
35) Chlordane...	3.449	0.000	4939	0	NoCal	N.D.
36) Toxaphene...	7.519	8.486f	50979142	5614133	56918.762	2139.322 #
37) Toxaphene...	7.805	8.814	1246658	1872513	771.954	568.976
38) Toxaphene...	8.118	8.850	787524	1450920	233.861	286.273
39) Toxaphene...	8.368f	8.897	565943	19418517	174.666	2325.617 #
40) Toxaphene...	8.552f	9.067f	195767	367185	81.667	78.789
41) Toxaphene...	8.645	9.462	70178	96597	22.176	20.335
42) Toxaphene...	3.449	0.000	4939	0	NoCal	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231933.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 21:02
Operator : MJB
Sample : 9H23034-CALM
Misc : A19F231, CHLOR 2000 ppb
ALS Vial : 27 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 26 12:05:14 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
 Data File : ECD5-08231936.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 23 Aug 2019 21:54
 Operator : MJB
 Sample : 9H23034-CALN
 Misc : A19D122, TOX 50 ppb
 ALS Vial : 29 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Aug 26 12:06:20 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*MJB
8/26/19*

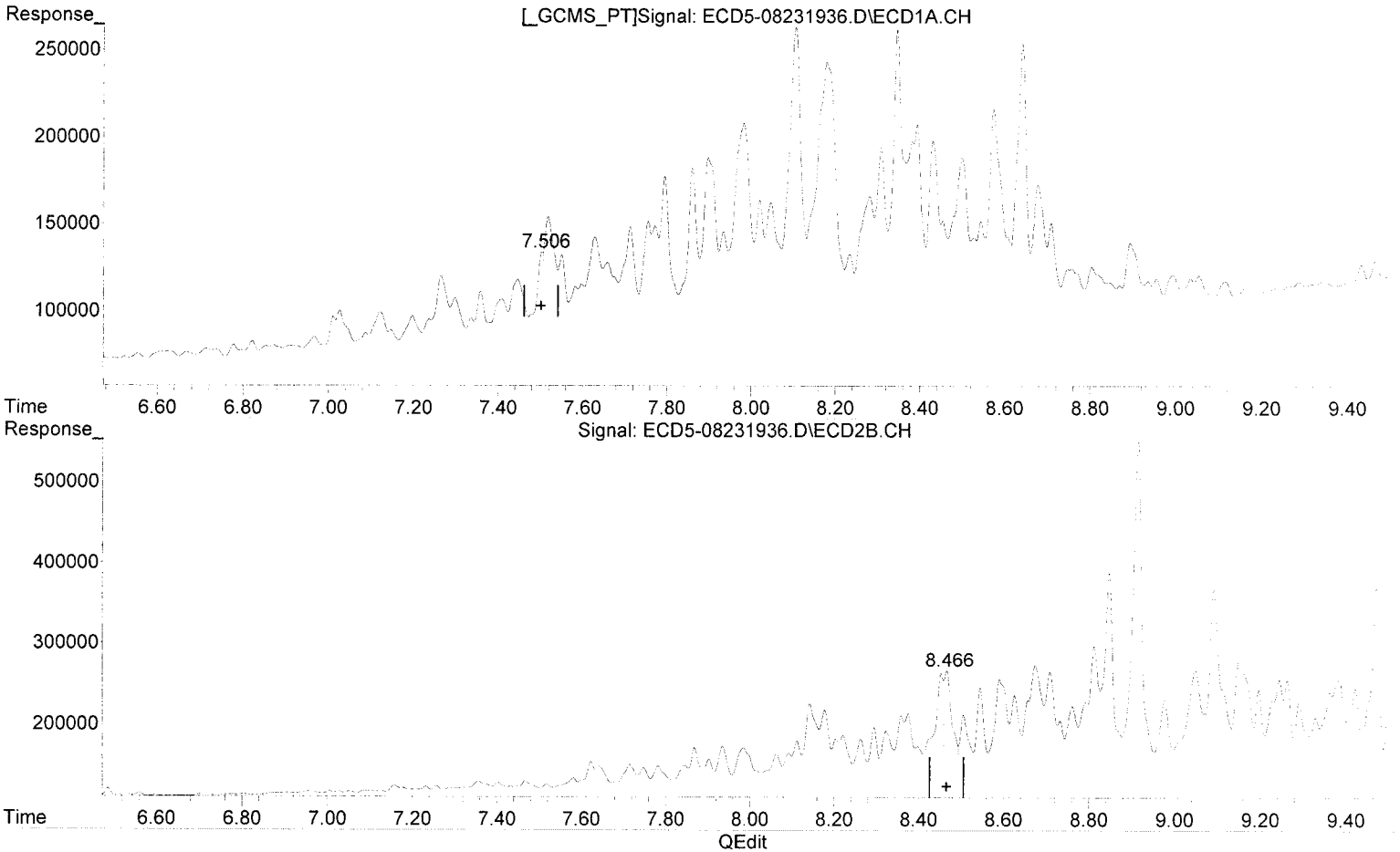
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	5.984	0	6201	N.D.	0.021 #
22) S DCBP (S)	0.000	0.000	0	0	N.D.	N.D.
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D.	N.D.
3) g-BHC	6.249f	0.000	4430	0	0.022	N.D. #
4) b-BHC	6.297	0.000	3017	0	0.033	N.D. #
5) Heptachlor	6.627	0.000	4370	0	0.024	N.D. #
6) d-BHC	6.469f	0.000	2958	0	0.015	N.D. #
7) Aldrin	6.871	7.582f	4859	11806	0.025	0.036 #
8) Heptachlo...	7.336	7.985	13601	46078	0.074	0.153 #
9) trans-Chl...	7.446	8.142	34060	99117	0.184	0.316 #
10) cis-Chlor...	7.518	8.221	69068	59106	0.379	0.203 #
11) Endosulfa...	7.629	8.294	55946	68659	0.329	0.250
12) 4,4'-DDE	7.550f	8.359	47125	82546	0.250	0.266
13) Dieldrin	7.794	8.505	88321	82204	0.460	0.270 #
14) Endrin	7.934f	8.709	54457	133121	0.370	0.589 #
15) 4,4'-DDD	8.020	8.762	70973	90688	0.452	0.354
16) Endosulfa...	8.105	8.847	169381	254833	1.179	1.105
17) 4,4'-DDT	8.180f	8.977	146997	96725	1.229	0.525 #
18) Endrin Al...	8.392	9.091	108459	233185	BelowCal	0.427
19) Endosulfa...	8.708	9.291	48053	90329	0.310	0.363
20) Methoxychlor	8.573f	9.470	114720	230922	1.959	2.668
21) Endrin Ke...	8.894	9.711f	33550	36259	0.201	0.141
23) Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
24) Hexachlor...	0.000	6.487f	0	8846	N.D.	0.028 #
25) Oxychlordane	7.265	7.935	38772	48452	0.236	0.177
26) 2,4'-DDE	7.336	8.112	13601	53529	0.106	0.252 #
27) trans-Non...	7.518	8.204	69068	54722	0.069	0.181 #
28) 2,4'-DDD	7.713	8.505	60294	82204	0.528	0.435
29) 2,4'-DDT	7.899	8.709	96979	133121	0.884	0.746
30) cis-Nonac...	7.981	8.762	116026	90688	0.559	0.270 #
31) Mirex	8.641	9.711f	153138	36259	1.222	0.195 #
32) Chlordane...	7.446	8.142	34060	99117	1.730	2.739 #
33) Chlordane...	7.518	8.221	69068	59106	2.756	1.947
34) Chlordane...	8.047f	8.915	69875	416348	12.087	46.437 #
35) Chlordane...	3.449	0.000	4023	0	NoCal	N.D.
36) Toxaphene...	7.506	8.466	49110	136848	54.832m	52.147
37) Toxaphene...	7.794	8.813	88321	164706	54.690	50.047
38) Toxaphene...	8.105	8.847	169381	254833	50.299	50.280
39) Toxaphene...	8.346	8.915	164317	416348	50.713	49.863
40) Toxaphene...	8.573	9.091	114720	233185	47.857	50.036
41) Toxaphene...	8.641	9.470	153138	230922	48.391	48.613
42) Toxaphene...	3.449	0.000	4023	0	NoCal	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Qedit)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231936.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 21:54
Operator : MJB
Sample : 9H23034-CALN
Misc : A19D122, TOX 50 ppb
ALS Vial : 29 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 26 12:05:49 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(36) Toxaphene (1)
7.506min 54.832 ng/mL
response 49110

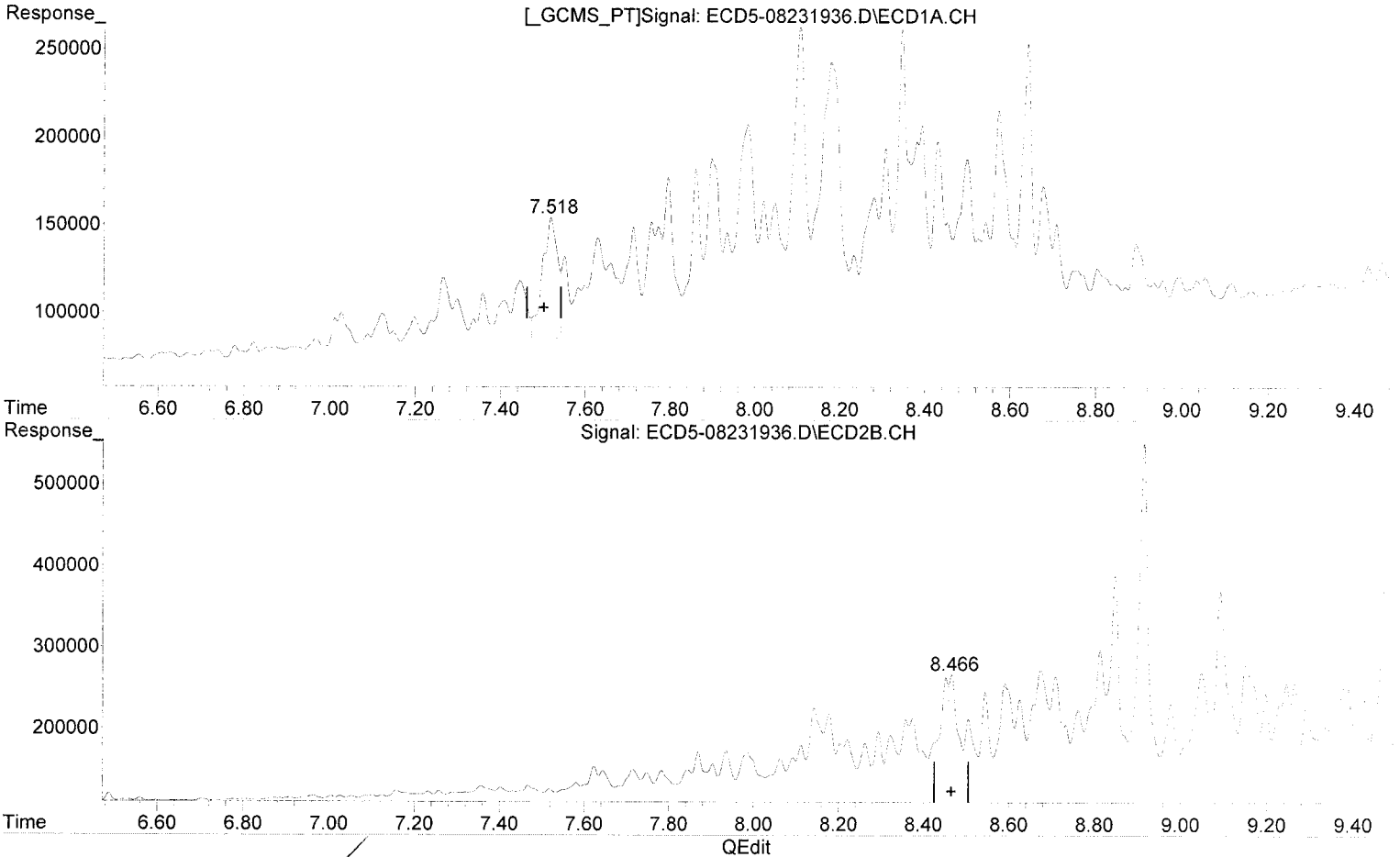
MJB 8/26/19

(36) Toxaphene (1) #2
8.466min 52.147 ng/mL
response 136848

Quantitation Report (Qedit)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231936.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 21:54
Operator : MJB
Sample : 9H23034-CALN
Misc : A19D122, TOX 50 ppb
ALS Vial : 29 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 26 12:05:49 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(36) Toxaphene (1)
7.518min 77.175 ng/mL
response 69068

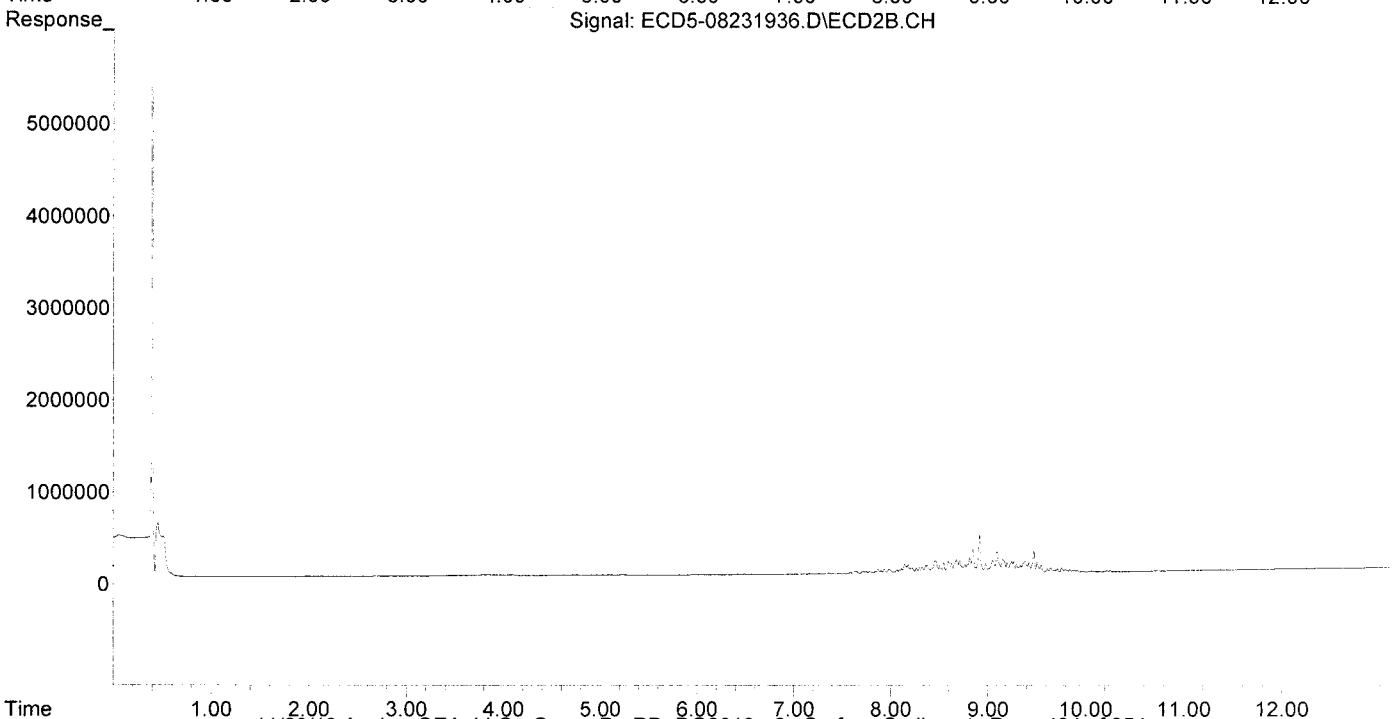
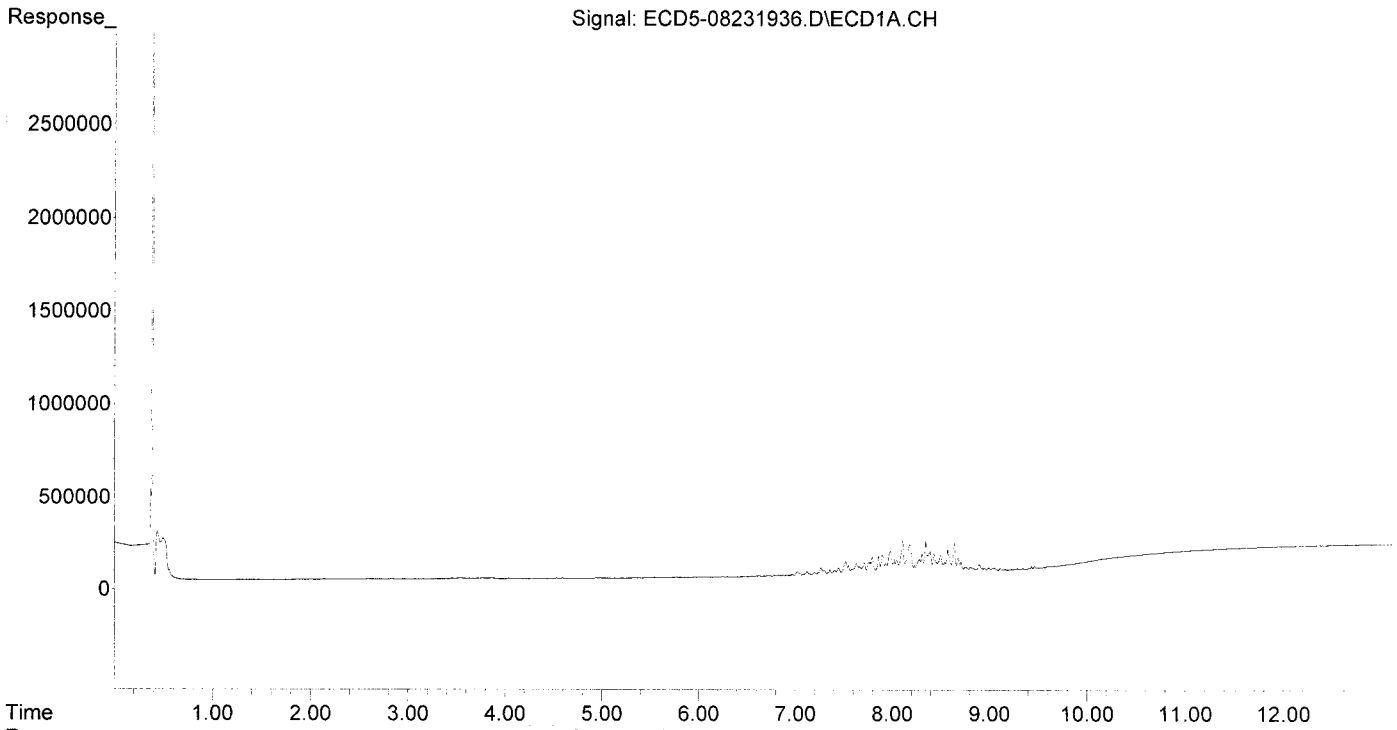
MJB
8/26/19

(36) Toxaphene (1) #2
8.466min 52.147 ng/mL
response 136848

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231936.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 21:54
Operator : MJB
Sample : 9H23034-CALN
Misc : A19D122, TOX 50 ppb
ALS Vial : 29 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 26 12:06:20 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
 Data File : ECD5-08231937.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 23 Aug 2019 22:11
 Operator : MJB
 Sample : 9H23034-CALO
 Misc : A19D123, TOX 100 ppb
 ALS Vial : 30 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Aug 26 12:07:08 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB
8/26/19

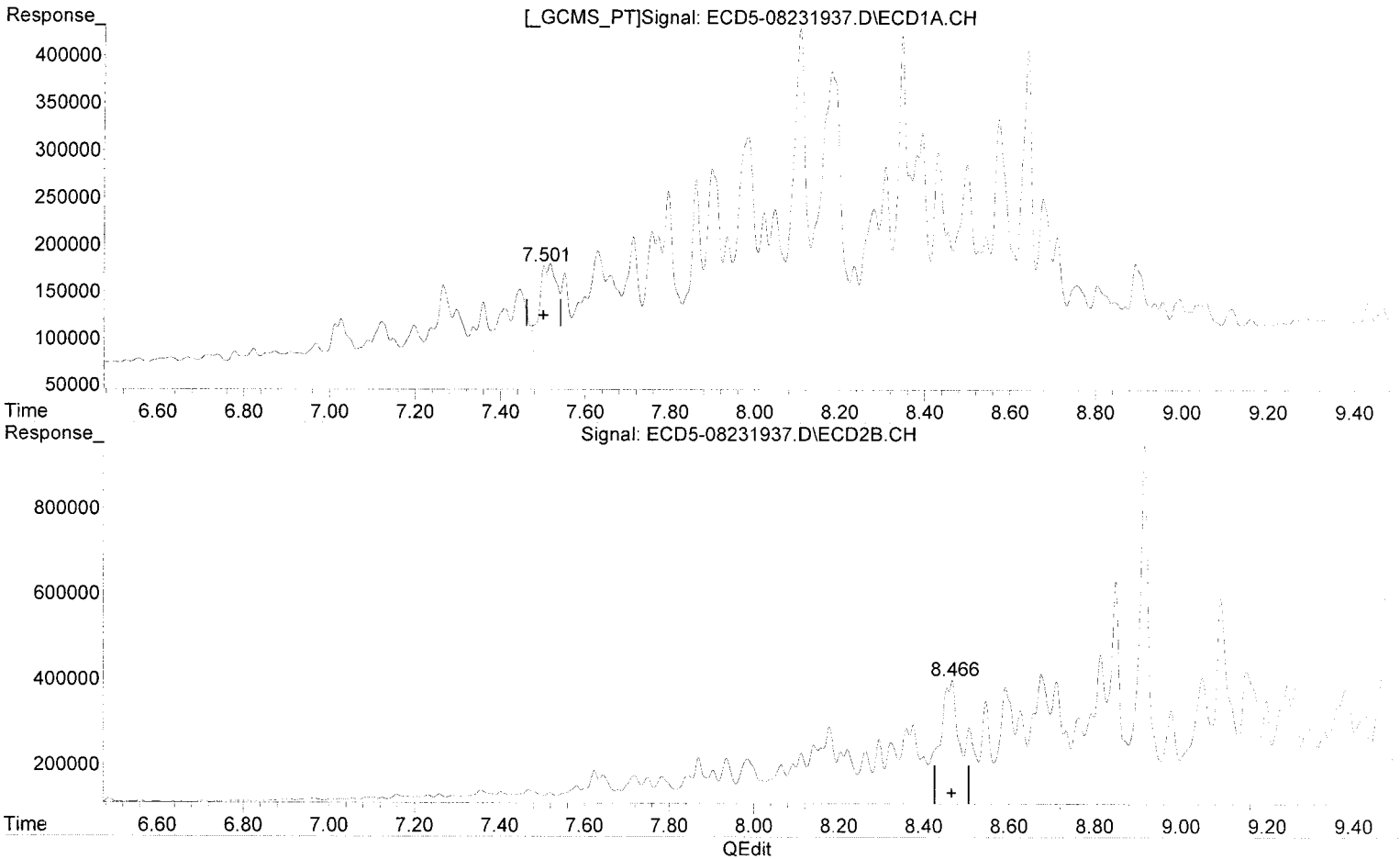
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	5.985	0	6562	N.D.	0.022 #
22) S DCBP (S)	9.592	0.000	4802	0	0.034	N.D. #
Target Compounds						
2) a-BHC	5.952	0.000	2451	0	0.011	N.D. #
3) g-BHC	6.250f	0.000	4208	0	0.021	N.D. #
4) b-BHC	6.297	6.965	3419	5803	0.038	0.037
5) Heptachlor	6.629	7.259f	5698	7338	0.031	0.024
6) d-BHC	6.470f	7.259f	3844	7338	0.020	0.021
7) Aldrin	6.872	7.582f	9196	24729	0.047	0.075 #
8) Heptachlo...	7.359f	7.984	53934	87078	0.293	0.289
9) trans-Chl...	7.445	8.141	66985	117380	0.362	0.375
10) cis-Chlor...	7.517	8.220	93146	107177	0.512	0.368
11) Endosulfa...	7.629	8.295	104883	129689	0.616	0.471
12) 4,4'-DDE	7.551f	8.359	82562	155356	0.438	0.500
13) Dieldrin	7.795	8.506	166085	156611	0.865	0.515 #
14) Endrin	7.934f	8.710	115324	262153	0.784	1.161 #
15) 4,4'-DDD	8.021	8.762	139852	178338	0.890	0.696
16) Endosulfa...	8.106	8.848	332842	494430	2.318	2.144
17) 4,4'-DDT	8.182f	8.977	285351	192921	2.387	1.085 #
18) Endrin Al...	8.393	9.091	215405	452209	0.828	1.624 #
19) Endosulfa...	8.710	9.291	103697	183737	0.669	0.738
20) Methoxychlor	8.543	9.471	105544	452485	1.802	5.374 #
21) Endrin Ke...	8.894	9.712f	71764	83930	0.430	0.326
23) Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
24) Hexachlor...	5.811f	6.488f	2684	8988	0.015	0.029 #
25) Oxychlordane	7.266	7.935	73507	87358	0.447	0.319
26) 2,4'-DDE	7.359f	8.112	53934	99205	0.420	0.468
27) trans-Non...	7.517	8.204	93146	102328	0.204	0.339 #
28) 2,4'-DDD	7.713	8.506	118203	156611	1.036	0.829
29) 2,4'-DDT	7.899	8.710	187872	262153	1.713	1.470
30) cis-Nonac...	7.982	8.762	219963	178338	1.059	0.532 #
31) Mirex	8.641	9.712f	302577	83930	2.414	0.451 #
32) Chlordane...	7.410	8.141	46689	117380	2.371	3.244
33) Chlordane...	7.517	8.220	93146	107177	3.716	3.530
34) Chlordane...	8.047f	8.915	142490	811948	24.647	90.560 #
35) Chlordane...	3.450	0.000	3536	0	NoCal	N.D.
36) Toxaphene...	7.501	8.466	91358	267534	102.002m	101.946
37) Toxaphene...	7.795	8.813	166085	324070	102.843	98.471
38) Toxaphene...	8.106	8.848	332842	494430	98.840	97.553
39) Toxaphene...	8.346	8.915	320313	811948	98.857	97.241
40) Toxaphene...	8.574	9.091	228960	452209	95.514	97.033
41) Toxaphene...	8.641	9.471	302577	452485	95.614	95.256
42) Toxaphene...	3.450	0.000	3536	0	NoCal	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Qedit)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231937.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 22:11
Operator : MJB
Sample : 9H23034-CALO
Misc : A19D123, TOX 100 ppb
ALS Vial : 30 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 26 12:06:39 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(36) Toxaphene (1)
7.501min 102.002 ng/mL (+)
response 91358

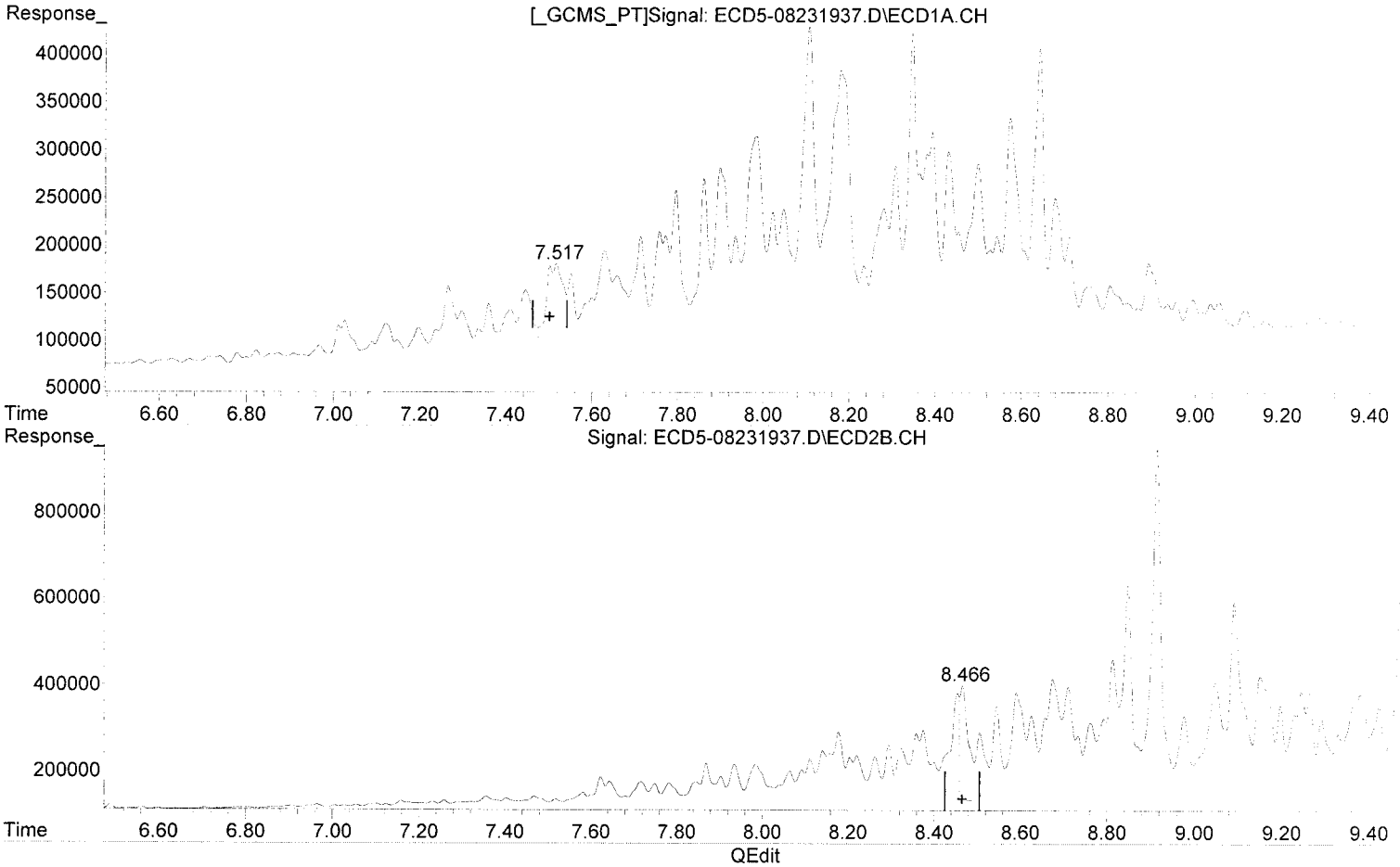
(36) Toxaphene (1) #2
8.466min 101.946 ng/mL
response 267534

~~MJB 8/26/19~~
6/26/19
MJB 8/26/19

Quantitation Report (Qedit)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231937.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 22:11
Operator : MJB
Sample : 9H23034-CALO
Misc : A19D123, TOX 100 ppb
ALS Vial : 30 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 26 12:06:39 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



~~(36) Toxaphene (1)
7.517min 103.998 ng/mL
response 93146~~

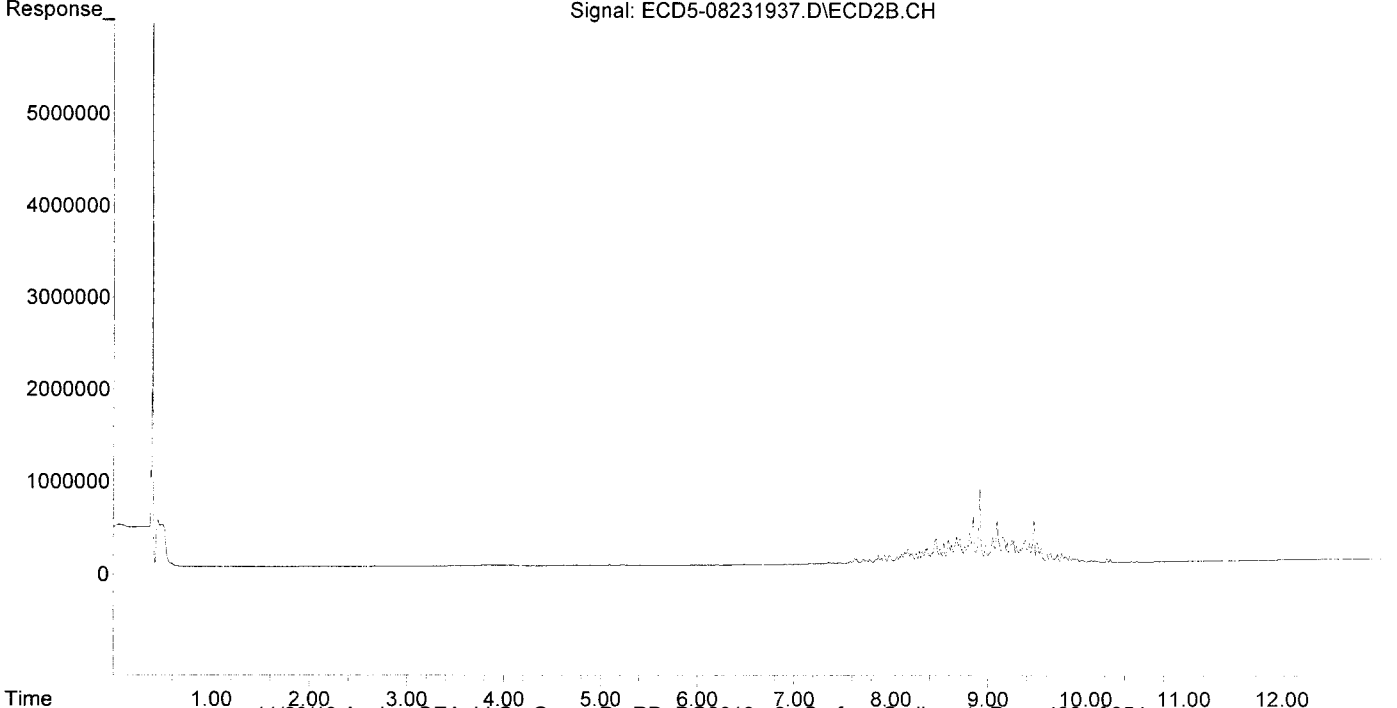
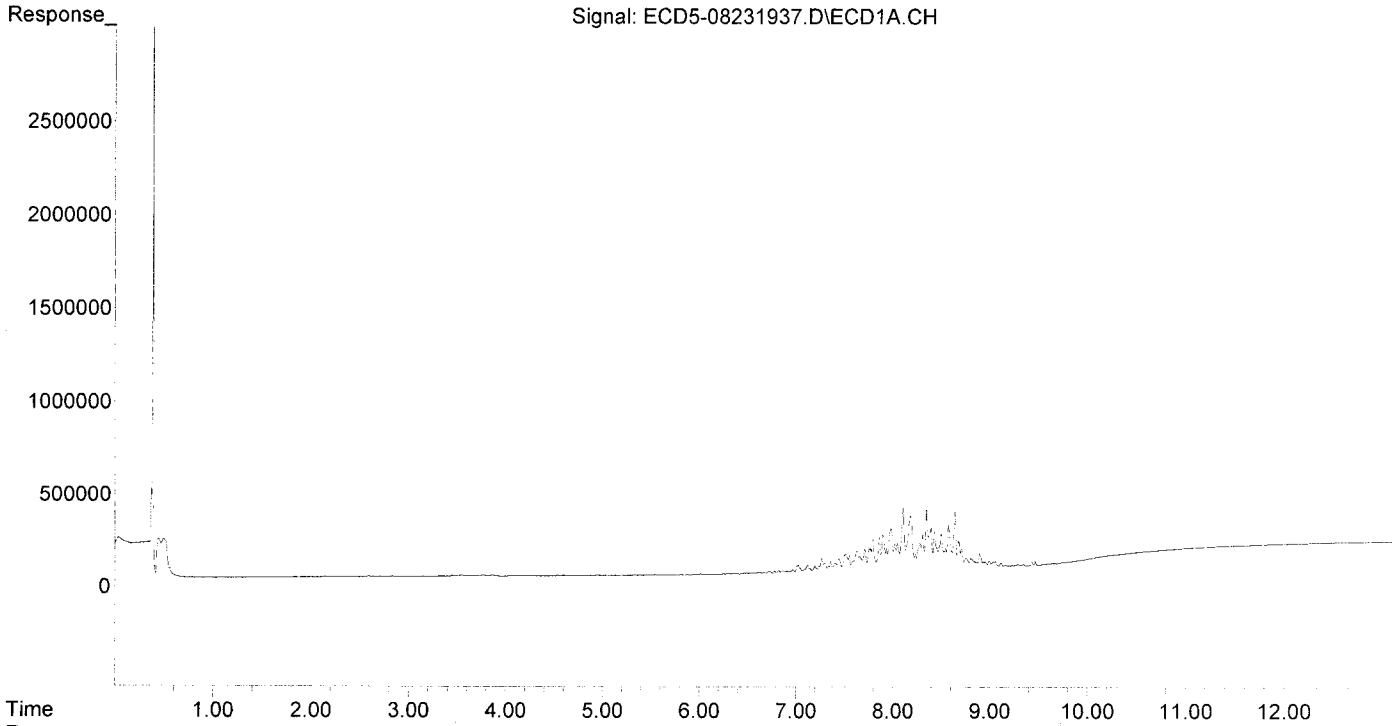
MJB 8/26/19

(36) Toxaphene (1) #2
8.466min 101.946 ng/mL
response 267534

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231937.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 22:11
Operator : MJB
Sample : 9H23034-CALO
Misc : A19D123, TOX 100 ppb
ALS Vial : 30 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 26 12:07:08 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
 Data File : ECD5-08231938.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 23 Aug 2019 22:28
 Operator : MJB
 Sample : 9H23034-CALP
 Misc : A19D124, TOX 200 ppb
 ALS Vial : 31 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Aug 26 12:07:22 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB
8/26/19

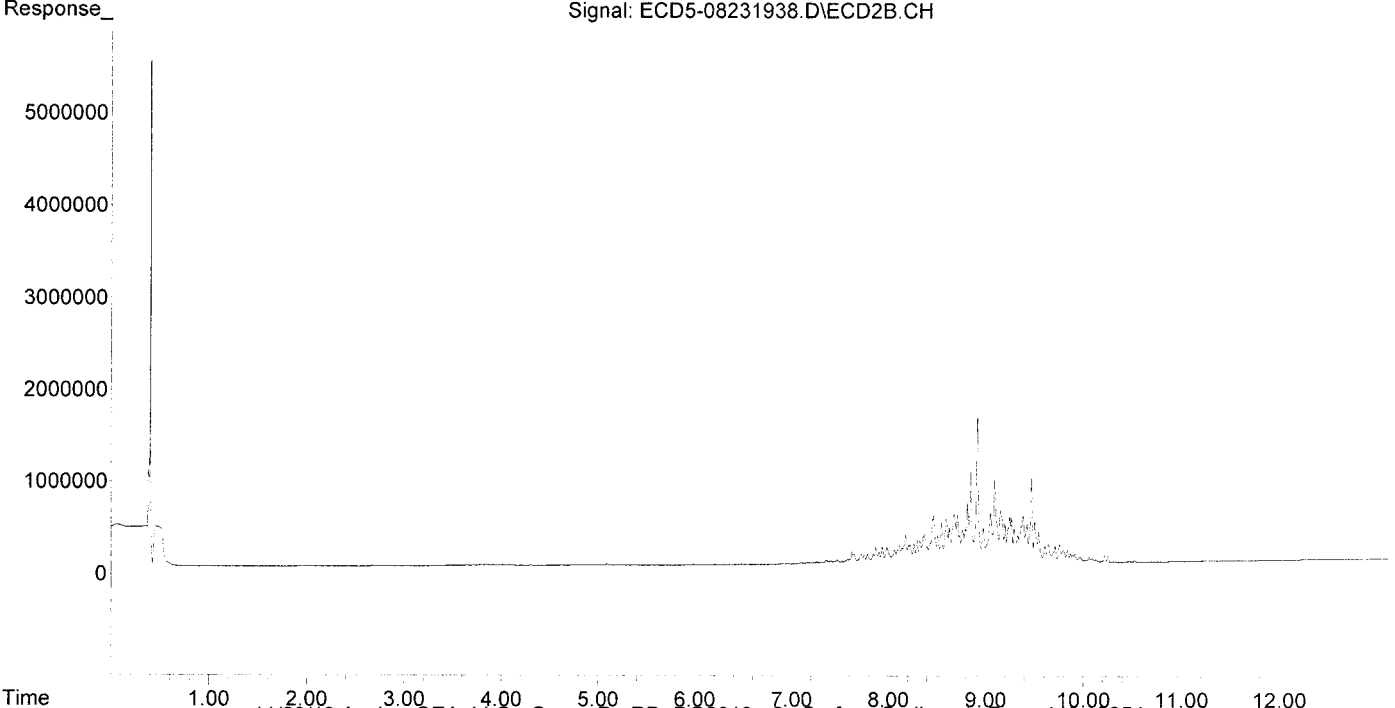
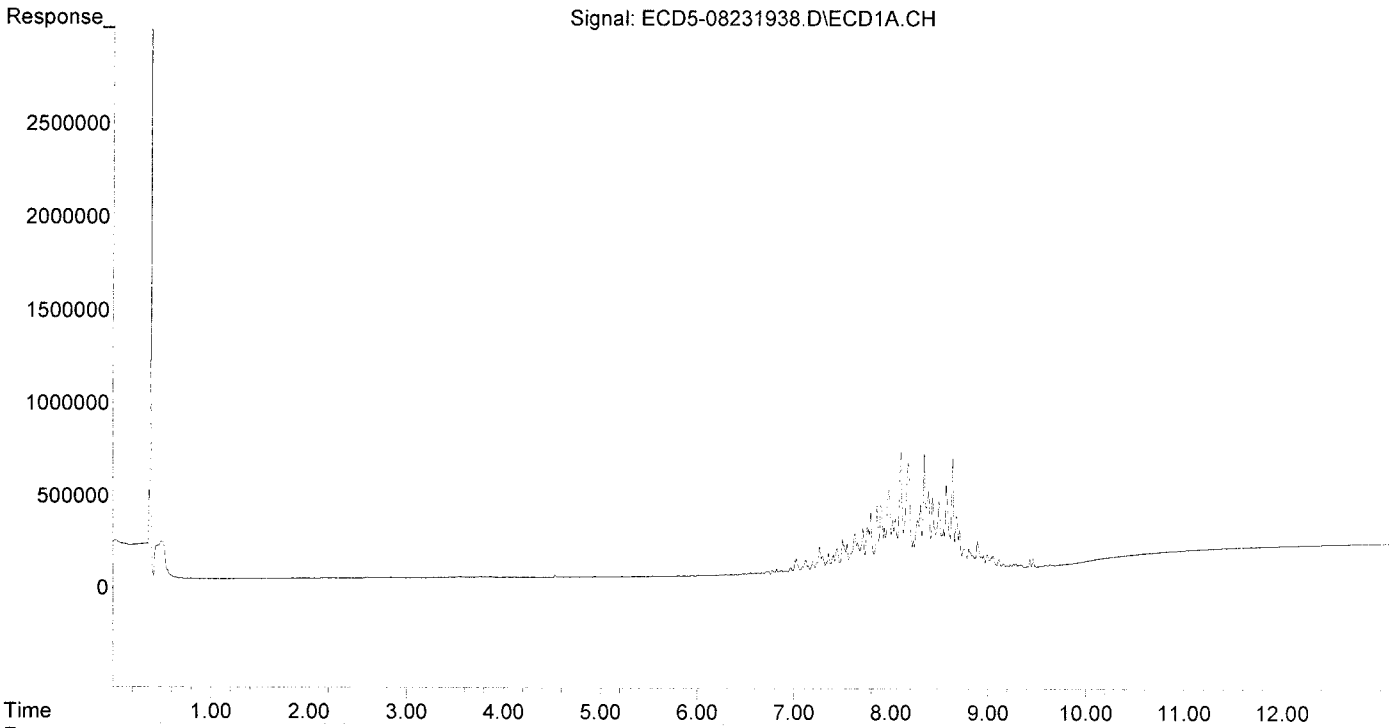
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	5.984	0	6031	N.D.	0.021 #
22) S DCBP (S)	9.591	10.521	8317	11024	0.059	0.061
Target Compounds						
2) a-BHC	5.950	0.000	2445	0	0.011	N.D. #
3) g-BHC	6.249f	6.906	4762	8484	0.024	0.024
4) b-BHC	6.297	6.965	5553	11866	0.061	0.075
5) Heptachlor	6.630	7.292	9834	18991	0.054	0.062
6) d-BHC	6.469f	7.232	7279	22404	0.037	0.064 #
7) Aldrin	6.872	7.582f	20475	52234	0.104	0.159 #
8) Heptachlo...	7.336	7.984	58943	180203	0.320	0.599 #
9) trans-Chl...	7.445	8.139	130754	171469	0.707	0.547
10) cis-Chlor...	7.502f	8.220	176047	207038	0.967	0.711
11) Endosulfa...	7.629	8.294	203563	255143	1.196	0.927
12) 4,4'-DDE	7.551f	8.358	153844	307212	0.816	0.989
13) Dieldrin	7.795	8.506	317587	302159	1.654	0.993
14) Endrin	7.934f	8.709	233827	517355	1.590	2.291 #
15) 4,4'-DDD	8.021	8.761	271844	361076	1.730	1.409
16) Endosulfa...	8.105	8.847	644464	995555	4.488	4.317
17) 4,4'-DDT	8.182f	8.976	572615	378347	4.789	2.160 #
18) Endrin Al...	8.392	9.090	423151	895397	2.609	4.034 #
19) Endosulfa...	8.709	9.290	207483	368442	1.339	1.479
20) Methoxychlor	8.543	9.469	215126	905244	3.673	10.806 #
21) Endrin Ke...	8.893	9.711f	142657	173912	0.855	0.676
23) Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
24) Hexachlor...	5.811f	6.487f	2563	8587	0.015	0.027 #
25) Oxychlorthane	7.266	7.935	140581	179085	0.854	0.654
26) 2,4'-DDE	7.336	8.112	58943	198883	0.460	0.938 #
27) trans-Non...	7.502	8.205	176047	199265	0.666	0.661
28) 2,4'-DDD	7.713	8.506	232393	302159	2.036	1.600
29) 2,4'-DDT	7.899	8.709	356627	517355	3.251	2.901
30) cis-Nonac...	7.982	8.761	437778	361076	2.109	1.076 #
31) Mirex	8.640	9.711f	597991	173912	4.770	0.935 #
32) Chlordane...	7.445	8.139	130754	171469	6.641	4.739
33) Chlordane...	7.502	8.220	176047	207038	7.024	6.819
34) Chlordane...	8.047f	8.914	280898	1580436	48.589	176.272 #
35) Chlordane...	3.451	0.000	3919	0	NoCal	N.D.
36) Toxaphene...	7.502	8.466	176047	508983	196.559	193.953
37) Toxaphene...	7.795	8.812	317587	645322	196.656	196.085
38) Toxaphene...	8.105	8.847	644464	995555	191.378	196.427
39) Toxaphene...	8.346	8.914	632351	1580436	195.161	189.278
40) Toxaphene...	8.574	9.090	454431	895397	189.572	192.130
41) Toxaphene...	8.640	9.469	597991	905244	188.964	190.570
42) Toxaphene...	3.451	0.000	3919	0	NoCal	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231938.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 22:28
Operator : MJB
Sample : 9H23034-CALP
Misc : A19D124, TOX 200 ppb
ALS Vial : 31 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 26 12:07:22 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
 Data File : ECD5-08231939.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 23 Aug 2019 22:45
 Operator : MJB
 Sample : 9H23034-CALQ
 Misc : A19D125, TOX 500 ppb
 ALS Vial : 32 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Aug 26 12:07:35 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB
8/26/19

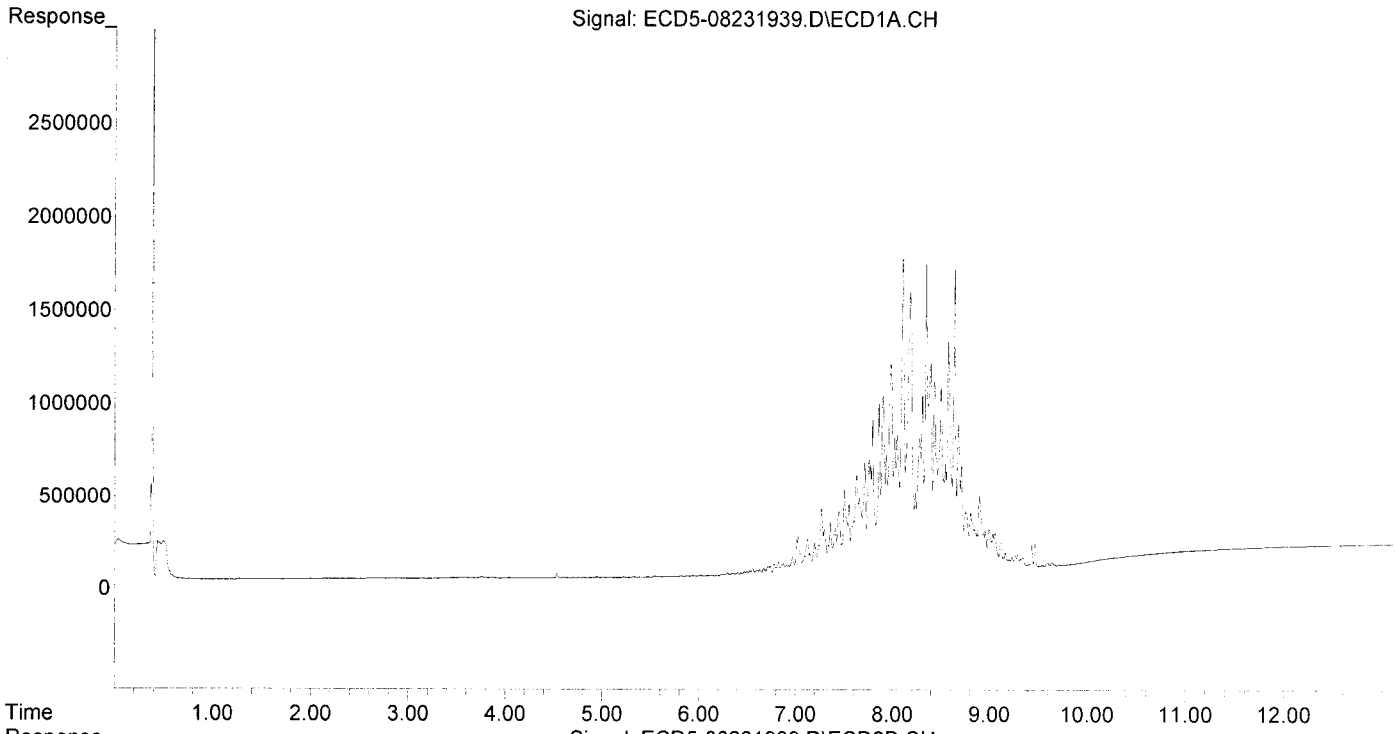
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	5.984	0	5601	N.D.	0.019 #
22) S DCBP (S)	9.591	10.521	21035	39647	0.149	0.221 #
Target Compounds						
2) a-BHC	5.938	6.598	3646	8422	0.016	0.021
3) g-BHC	6.246f	6.908	6276	21315	0.031	0.060 #
4) b-BHC	6.296	6.966	12656	26420	0.140	0.167
5) Heptachlor	6.631	7.291	26275	48687	0.145	0.159
6) d-BHC	6.434	7.233	12949	50866	0.066	0.144 #
7) Aldrin	6.871	7.582f	54986	128738	0.278	0.391 #
8) Heptachlo...	7.337	7.985	148782	431601	0.808	1.435 #
9) trans-Chl...	7.445	8.136	326510	348418	1.766	1.112
10) cis-Chlor...	7.502f	8.220	441826	492762	2.427	1.692
11) Endosulfa...	7.629	8.295	523361	619890	3.075	2.253
12) 4,4'-DDE	7.551f	8.358	370244	790371	1.964	2.544
13) Dieldrin	7.794	8.506	819454	752423	4.268	2.474 #
14) Endrin	7.934f	8.711	624315	1366705	4.246	6.052 #
15) 4,4'-DDD	8.021	8.761	715456	940917	4.553	3.672
16) Endosulfa...	8.105	8.848	1677481	2475022	11.681	10.733
17) 4,4'-DDT	8.182f	8.977	1480674	1000646	12.384	5.736 #
18) Endrin Al...	8.392	9.091	1117641	2340668	8.532	11.800
19) Endosulfa...	8.709	9.290	555797	952729	3.586	3.825
20) Methoxychlor	8.574f	9.470	1221560	2369795	20.855	27.582
21) Endrin Ke...	8.894	9.711f	386326	477017	2.317	1.854
23) Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
24) Hexachlor...	5.814f	6.461	4241	6767	0.024	0.022
25) Oxychlorane	7.265	7.936	350487	422818	2.130	1.544
26) 2,4'-DDE	7.337	8.112	148782	485681	1.160	2.289 #
27) trans-Non...	7.502	8.205	441826	487255	2.150	1.615
28) 2,4'-DDD	7.713	8.506	583556	752423	5.113	3.984
29) 2,4'-DDT	7.899	8.711	935213	1366705	8.526	7.664
30) cis-Nonac...	7.981	8.761	1117997	940917	5.385	2.805 #
31) Mirex	8.640	9.711f	1623402	477017	12.949	2.564 #
32) Chlordane...	7.408	8.136	238293	348418	12.102	9.629
33) Chlordane...	7.502	8.220	441826	492762	17.628	16.228
34) Chlordane...	8.046f	8.915	731630	4252640	126.555	474.314 #
35) Chlordane...	3.450	0.000	4132	0	NoCal	N.D.
36) Toxaphene...	7.502	8.466	441826	1308994	493.303	498.805
37) Toxaphene...	7.794	8.812	819454	1647741	507.421	500.677
38) Toxaphene...	8.105	8.848	1677481	2475022	498.140	488.332
39) Toxaphene...	8.346	8.915	1649569	4252640	509.102	509.308
40) Toxaphene...	8.574	9.091	1221560	2340668	509.590	502.251
41) Toxaphene...	8.640	9.470	1623402	2369795	512.991	498.883
42) Toxaphene...	3.450	0.000	4132	0	NoCal	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231939.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 22:45
Operator : MJB
Sample : 9H23034-CALQ
Misc : A19D125, TOX 500 ppb
ALS Vial : 32 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 26 12:07:35 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : R:\data\2019-08\9H23034\REQUANT\
 Data File : ECD5-08231940.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 23 Aug 2019 23:03
 Operator : MJB
 Sample : 9H23034-CALR
 Misc : A19D126, TOX 1000 ppb
 ALS Vial : 33 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Aug 26 12:07:46 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 8/26/19

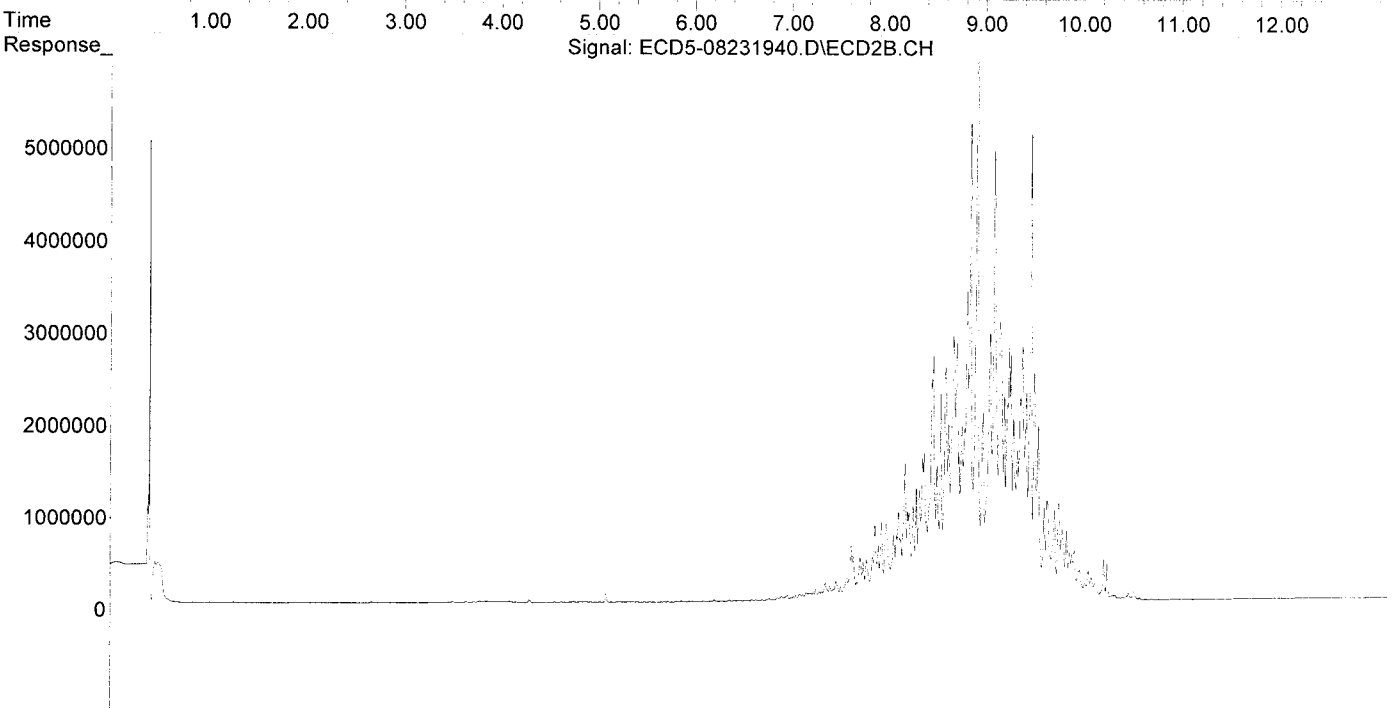
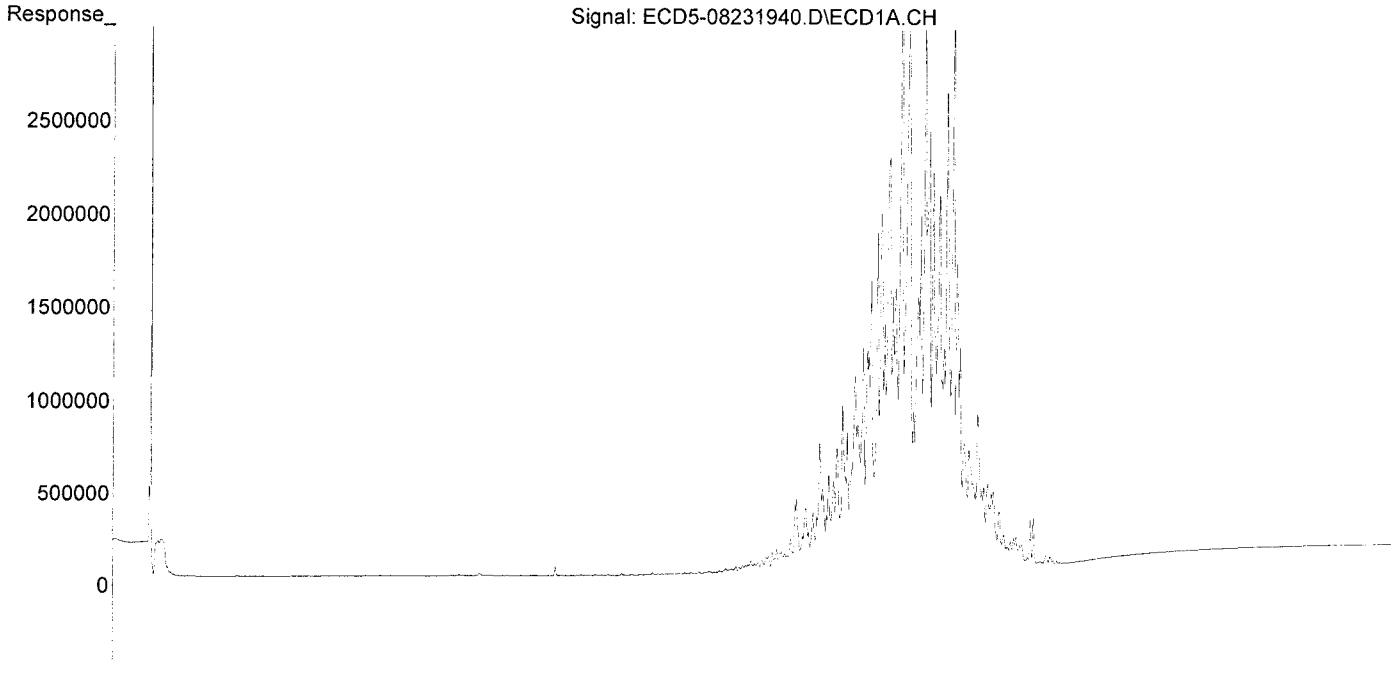
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.415f	5.982	2381	5264	0.014	0.018
22) S DCBP (S)	9.591	10.522	47060	86882	0.334	0.483 #
Target Compounds						
2) a-BHC	5.937	6.597	7133	14957	0.031	0.036
3) g-BHC	6.231	6.907	12268	49388	0.061	0.138 #
4) b-BHC	6.296	6.967	24041	58985	0.266	0.373 #
5) Heptachlor	6.632	7.293	48435	95609	0.267	0.312
6) d-BHC	6.434	7.233	28416	100471	0.144	0.285 #
7) Aldrin	6.871	7.551	108360	147580	0.549	0.448
8) Heptachlo...	7.336	7.985	294905	840940	1.601	2.795 #
9) trans-Chl...	7.445	8.111f	659823	964498	3.569	3.078
10) cis-Chlor...	7.501f	8.220	871889	947518	4.789	3.253
11) Endosulfa...	7.628	8.295	1038833	1226540	6.104	4.457
12) 4,4'-DDE	7.550f	8.358	746675	1543581	3.961	4.968
13) Dieldrin	7.793	8.506	1556013	1462579	8.105	4.809 #
14) Endrin	7.933f	8.711	1312768	2786774	8.929	12.340
15) 4,4'-DDD	8.020	8.762	1452045	1895471	9.240	7.398
16) Endosulfa...	8.105	8.848	3495877	5168269	24.343	22.412
17) 4,4'-DDT	8.183	8.977	2996314	2028436	25.061	11.540 #
18) Endrin Al...	8.391	9.091	2338006	4900430	18.826	25.221
19) Endosulfa...	8.709	9.291	1188299	2002950	7.668	8.041
20) Methoxychlor	8.543	9.470	1177404	5046645	20.101	55.668 #
21) Endrin Ke...	8.893	9.712f	829327	990858	4.973	3.851
23) Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
24) Hexachlor...	5.745f	6.463	2404	9221	0.014	0.029 #
25) Oxychlordane	7.265	7.936	684836	845822	4.162	3.088
26) 2,4'-DDE	7.336	8.111	294905	964498	2.299	4.547 #
27) trans-Non...	7.501	8.204	871889	963521	4.550	3.194
28) 2,4'-DDD	7.712	8.506	1203385	1462579	10.544	7.744
29) 2,4'-DDT	7.898	8.711	1885482	2786774	17.190	15.626
30) cis-Nonac...	7.981	8.762	2207076	1895471	10.631	5.651 #
31) Mirex	8.640	9.712f	3406737	990858	27.174	5.325 #
32) Chlordane...	7.445	8.111	659823	964498	33.511	26.655
33) Chlordane...	7.501	8.220	871889	947518	34.786	31.205
34) Chlordane...	8.045f	8.915	1508434	8650068	260.924	964.776 #
35) Chlordane...	3.451	0.000	2687	0	NoCal	N.D.
36) Toxaphene...	7.501	8.467	871889	2654886	973.473	1011.671
37) Toxaphene...	7.793	8.813	1556013	3384036	963.512	1028.262
38) Toxaphene...	8.105	8.848	3495877	5168269	1038.126	1019.721
39) Toxaphene...	8.345	8.915	3287014	8650068	1014.463	1035.957
40) Toxaphene...	8.573	9.091	2546293	4900430	1062.220	1051.514
41) Toxaphene...	8.640	9.470	3406737	5046645	1076.520	1062.406
42) Toxaphene...	3.451	0.000	2687	0	NoCal	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231940.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 23:03
Operator : MJB
Sample : 9H23034-CALR
Misc : A19D126, TOX 1000 ppb
ALS Vial : 33 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 26 12:07:46 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : R:\data\2019-08\9H23034\REQUANT\
 Data File : ECD5-08231941.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 23 Aug 2019 23:20
 Operator : MJB
 Sample : 9H23034-CALS
 Misc : A19D121, TOX 2000 ppb
 ALS Vial : 34 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Aug 26 12:07:58 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:48:23 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

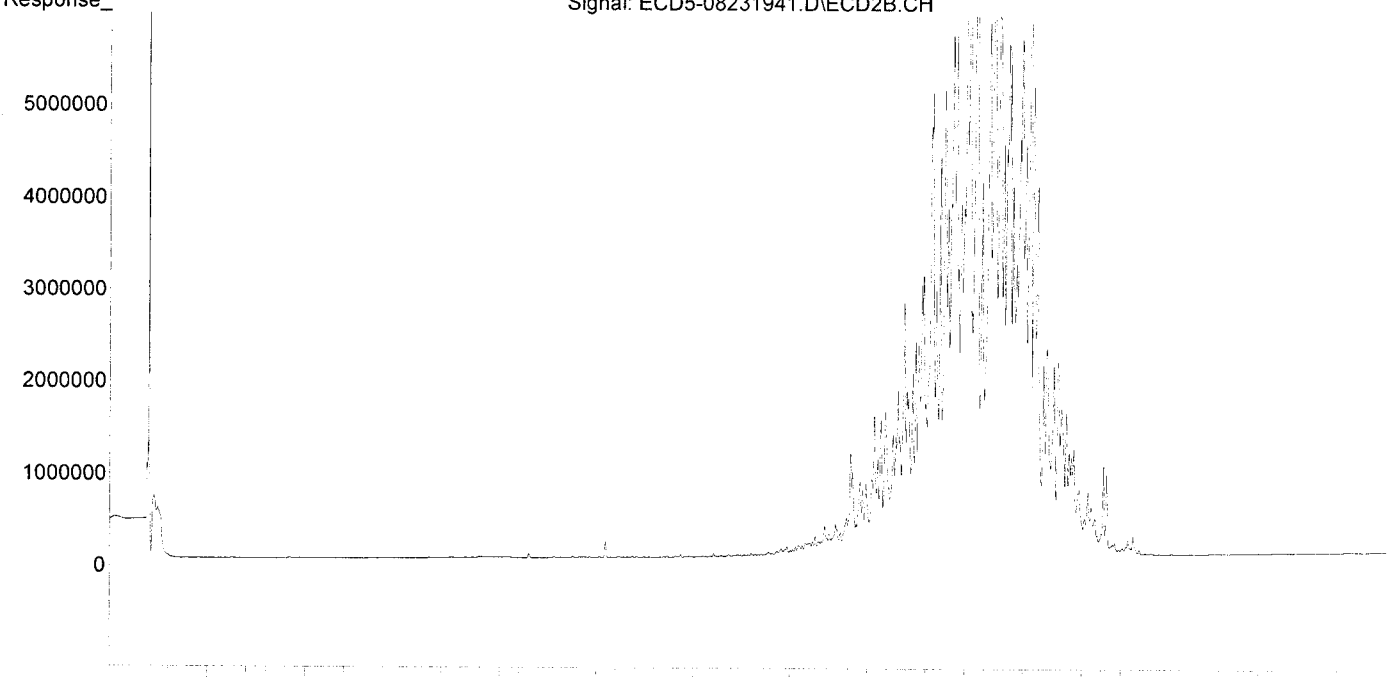
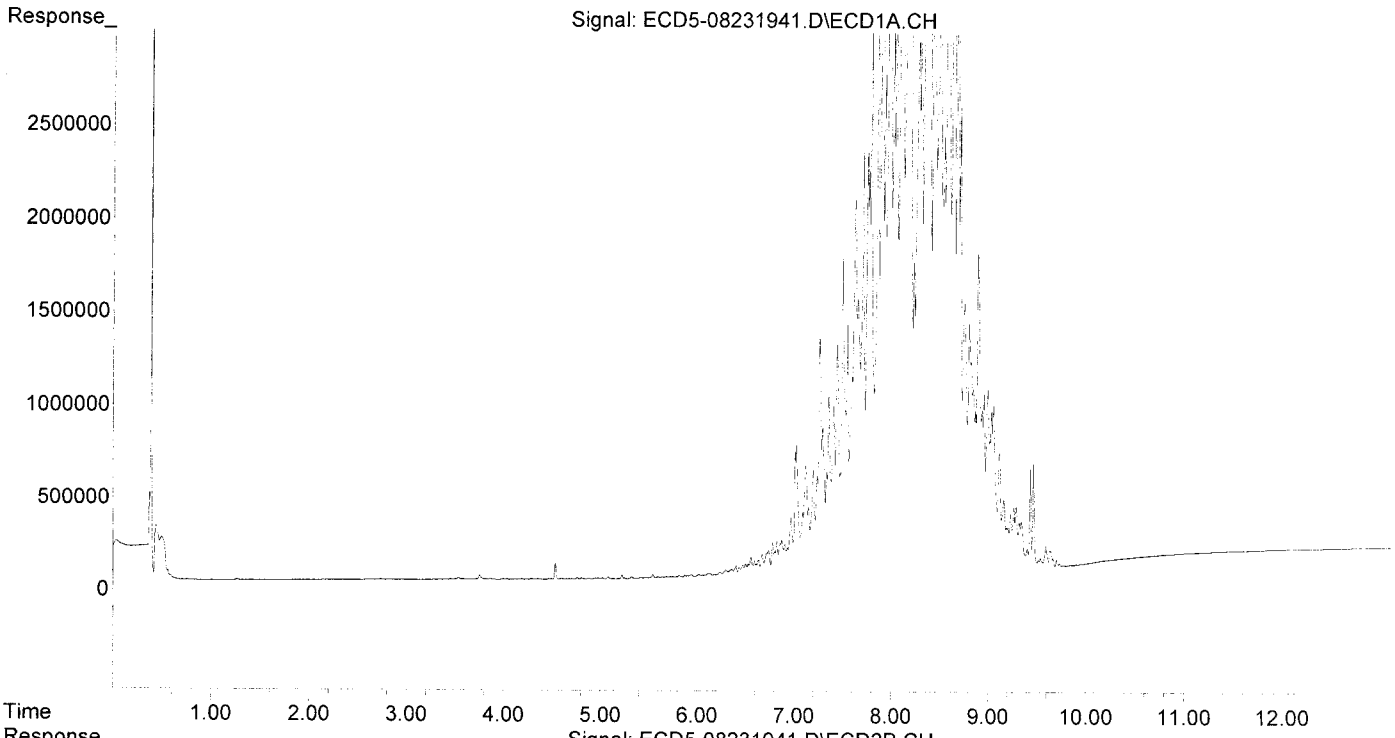
*MB
8/26/19*

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.416f	5.979	3411	9459	0.021	0.032 #
22) S DCBP (S)	9.591	10.521	106938	194794	0.758	1.084 #
Target Compounds						
2) a-BHC	5.935	6.596	13246	39719	0.058	0.097 #
3) g-BHC	6.231	6.908	20790	85564	0.103	0.240 #
4) b-BHC	6.295	6.967	35592	107682	0.394	0.680 #
5) Heptachlor	6.633	7.293	79787	161818	0.440	0.529
6) d-BHC	6.433	7.233	46116	159995	0.234	0.454 #
7) Aldrin	6.871	7.581f	182635	424827	0.925	1.290
8) Heptachlo...	7.357f	7.984	952857	1568607	5.174	5.214
9) trans-Chl...	7.444	8.111f	1223688	1798529	6.618	5.740
10) cis-Chlor...	7.500f	8.218f	1674674	1710240	9.198	5.872
11) Endosulfa...	7.627	8.294	1999949	2341198	11.752	8.508
12) 4,4'-DDE	7.549f	8.357	1335034	2938735	7.081	9.459
13) Dieldrin	7.792	8.505	2958997	2895788	15.413	9.521
14) Endrin	7.981f	8.711	4441487	5651216	30.209	25.025
15) 4,4'-DDD	8.020	8.761	2883315	3832878	18.349	14.960
16) Endosulfa...	8.104	8.848	6831460	10545708	47.569	45.730
17) 4,4'-DDT	8.183	8.977	5897786	4051156	49.329	22.612 #
18) Endrin Al...	8.391	9.091	4718611	9435236	38.506	48.051
19) Endosulfa...	8.708	9.291	2483005	4046643	16.022	16.246
20) Methoxychlor	8.542	9.471	2322878	10090951	39.657	102.111 #
21) Endrin Ke...	8.893	9.712f	1725359	2080010	10.346	8.083
23) Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
24) Hexachlor...	5.744f	6.462	3614	25550	0.021	0.081 #
25) Oxychlorthane	7.264	7.935	1262060	1485955	7.670	5.425
26) 2,4'-DDE	7.357f	8.111	952857	1798529	7.429	8.478
27) trans-Non...	7.500	8.204	1674674	1791431	9.032	5.939
28) 2,4'-DDD	7.712	8.505	2255144	2895788	19.760	15.333
29) 2,4'-DDT	7.898	8.711	3633258	5651216	33.124	31.688
30) cis-Nonac...	7.981	8.761	4441487	3832878	21.393	11.426 #
31) Mirex	8.640	9.712f	6510950	2080010	51.935	11.178 #
32) Chlordane...	7.444	8.111	1223688	1798529	62.149	49.704
33) Chlordane...	7.500	8.218	1674674	1710240	66.815	56.324
34) Chlordane...	8.044f	8.914	2935856	17190037	507.835	1917.273 #
35) Chlordane...	3.452	0.000	4166	0	NoCal	N.D.
36) Toxaphene...	7.500	8.466	1674674	5030917	1869.791	1917.082
37) Toxaphene...	7.792	8.813	2958997	6610397	1832.266	2008.613
38) Toxaphene...	8.104	8.848	6831460	10545708	2028.651	2080.712
39) Toxaphene...	8.345	8.914	6407070	17190037	1977.398	2058.728
40) Toxaphene...	8.572	9.091	5074570	9435236	2116.925	2024.573
41) Toxaphene...	8.640	9.471	6510950	10090951	2057.443	2124.320
42) Toxaphene...	3.452	0.000	4166	0	NoCal	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231941.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 23:20
Operator : MJB
Sample : 9H23034-CALS
Misc : A19D121, TOX 2000 ppb
ALS Vial : 34 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 26 12:07:58 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Sequence Name: C:\msdchem\4\sequence\9H23034.s

Comment: Pesticides

Operator: MJB

Data Path: C:\MSDCHEM\4\DATA\2019-08\9H23034\

Instrument Control Pre-Seq Cmd:

Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:

Data Analysis Post-Seq Cmd:

Method Sections To Run Sequence Barcode Options
(X) Full Method (X) On Mismatch, Inject Anyway
() Reprocessing Only () On Mismatch, Don't Inject
 () Barcode Disabled

Line		Sample Name/Misc Info
1)	Sample	100 CONDITIONING RUN
	Datafile	ECD5-08231901
	Method	ECD5_AQUPEST_160111
2)	Sample	100 CONDITIONING RUN
	Datafile	ECD5-08231902
	Method	ECD5_AQUPEST_160111
3)	Sample	1 Hexane
	Datafile	ECD5-08231903
	Method	ECD5_AQUPEST_160111
4)	Sample	2 9H23034-BKD1
	Datafile	ECD5-08231904
	Method	ECD5_AQUPEST_160111
5)	Sample	1 Hexane
	Datafile	ECD5-08231905
	Method	ECD5_AQUPEST_160111
6)	Sample	2 9H23034-BKD2
	Datafile	ECD5-08231906
	Method	ECD5_AQUPEST_160111
7)	Sample	3 9H23034-ICB1
	Datafile	ECD5-08231907
	Method	ECD5_AQUPEST_160111
8)	Sample	4 9H23034-CAL1
	Datafile	ECD5-08231908
	Method	ECD5_AQUPEST_160111
9)	Sample	5 9H23034-CAL2
	Datafile	ECD5-08231909
	Method	ECD5_AQUPEST_160111
10)	Sample	6 9H23034-CAL3
	Datafile	ECD5-08231910
	Method	ECD5_AQUPEST_160111
11)	Sample	7 9H23034-CAL4
	Datafile	ECD5-08231911
	Method	ECD5_AQUPEST_160111
12)	Sample	8 9H23034-CAL5
	Datafile	ECD5-08231912
	Method	ECD5_AQUPEST_160111
13)	Sample	9 9H23034-CAL6
	Datafile	ECD5-08231913
	Method	ECD5_AQUPEST_160111
14)	Sample	10 9H23034-CAL7
	Datafile	ECD5-08231914
	Method	ECD5_AQUPEST_160111
15)	Sample	11 9H23034-CAL8
	Datafile	ECD5-08231915
	Method	ECD5_AQUPEST_160111
16)	Sample	1 9H23034-IBL1
	Datafile	ECD5-08231916
	Method	ECD5_AQUPEST_160111
17)	Sample	12 9H23034-ICV1
	Datafile	ECD5-08231917
	Method	ECD5_AQUPEST_160111
18)	Sample	13 9H23034-CAL9
	Datafile	ECD5-08231918
	Method	ECD5_AQUPEST_160111
19)	Sample	14 9H23034-CALA
	Datafile	ECD5-08231919
	Method	ECD5_AQUPEST_160111
20)	Sample	15 9H23034-CALB

MJB 8/26/19

	Datafile		ECD5-08231920
	Method		ECD5_AQUPEST_160111
21)	Sample	16	9H23034-CALC
	Datafile		ECD5-08231921
	Method		ECD5_AQUPEST_160111
22)	Sample	17	9H23034-CALD
	Datafile		ECD5-08231922
	Method		ECD5_AQUPEST_160111
23)	Sample	18	9H23034-CALE
	Datafile		ECD5-08231923
	Method		ECD5_AQUPEST_160111
24)	Sample	19	9H23034-CALF
	Datafile		ECD5-08231924
	Method		ECD5_AQUPEST_160111
25)	Sample	20	9H23034-CALG
	Datafile		ECD5-08231925
	Method		ECD5_AQUPEST_160111
26)	Sample	1	9H23034-IBL2
	Datafile		ECD5-08231926
	Method		ECD5_AQUPEST_160111
27)	Sample	21	9H23034-ICV2
	Datafile		ECD5-08231927
	Method		ECD5_AQUPEST_160111
28)	Sample	22	9H23034-CALH
	Datafile		ECD5-08231928
	Method		ECD5_AQUPEST_160111
29)	Sample	23	9H23034-CALI
	Datafile		ECD5-08231929
	Method		ECD5_AQUPEST_160111
30)	Sample	24	9H23034-CALJ
	Datafile		ECD5-08231930
	Method		ECD5_AQUPEST_160111
31)	Sample	25	9H23034-CALK
	Datafile		ECD5-08231931
	Method		ECD5_AQUPEST_160111
32)	Sample	26	9H23034-CALL
	Datafile		ECD5-08231932
	Method		ECD5_AQUPEST_160111
33)	Sample	27	9H23034-CALM
	Datafile		ECD5-08231933
	Method		ECD5_AQUPEST_160111
34)	Sample	1	9H23034-IBL3
	Datafile		ECD5-08231934
	Method		ECD5_AQUPEST_160111
35)	Sample	28	9H23034-ICV3
	Datafile		ECD5-08231935
	Method		ECD5_AQUPEST_160111
36)	Sample	29	9H23034-CALN
	Datafile		ECD5-08231936
	Method		ECD5_AQUPEST_160111
37)	Sample	30	9H23034-CALO
	Datafile		ECD5-08231937
	Method		ECD5_AQUPEST_160111
38)	Sample	31	9H23034-CALP
	Datafile		ECD5-08231938
	Method		ECD5_AQUPEST_160111
39)	Sample	32	9H23034-CALQ
	Datafile		ECD5-08231939
	Method		ECD5_AQUPEST_160111
40)	Sample	33	9H23034-CALR
	Datafile		ECD5-08231940
	Method		ECD5_AQUPEST_160111
41)	Sample	34	9H23034-CALS
	Datafile		ECD5-08231941
	Method		ECD5_AQUPEST_160111
42)	Sample	1	9H23034-IBL4
	Datafile		ECD5-08231942
	Method		ECD5_AQUPEST_160111
43)	Sample	35	9H23034-ICV4
	Datafile		ECD5-08231943
	Method		ECD5_AQUPEST_160111

Data Path : C:\msdchem\4\data\2019-08\9H23034\
 Data File : ECD5-08231904.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 23 Aug 2019 12:24
 Operator : MJB
 Sample : 9H23034-BKD1
 Misc : A19G138
 ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Aug 23 12:40:24 2019
 Quant Method : C:\msdchem\4\methods\PestBreakdownCHK_190823.M
 Quant Title : Pesticides
 QLast Update : Thu Aug 21 11:53:22 2014
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Compound	R.T.	Response	Conc	Units

Target Compounds				
1) 4,4'-DDE	7.587	1120444	NoCal	ng/mL
2) Endrin	7.960	63253664	NoCal	ng/mL
3) 4,4'-DDD	8.007	6621952	NoCal	ng/mL
4) 4,4'-DDT	8.205	107029729	NoCal	ng/mL
5) Endrin Aldehyde	8.407	4202397	NoCal	ng/mL
6) Endrin Ketone	8.901	6297738	NoCal	ng/mL
8) 4,4'-DDE [2C]	8.347	1706439	NoCal	ng/mL
9) Endrin [2C]	8.719	95742281	NoCal	ng/mL
10) 4,4'-DDD [2C]	8.761	11347306	NoCal	ng/mL
11) Endrin Aldehyde [2C]	9.102	6529476	NoCal	ng/mL
12) 4,4'-DDT [2C]	8.988	167003448	NoCal	ng/mL
13) Endrin Ketone [2C]	9.690	10363842	NoCal	ng/mL

(f)=RT Delta > 1/2 Window

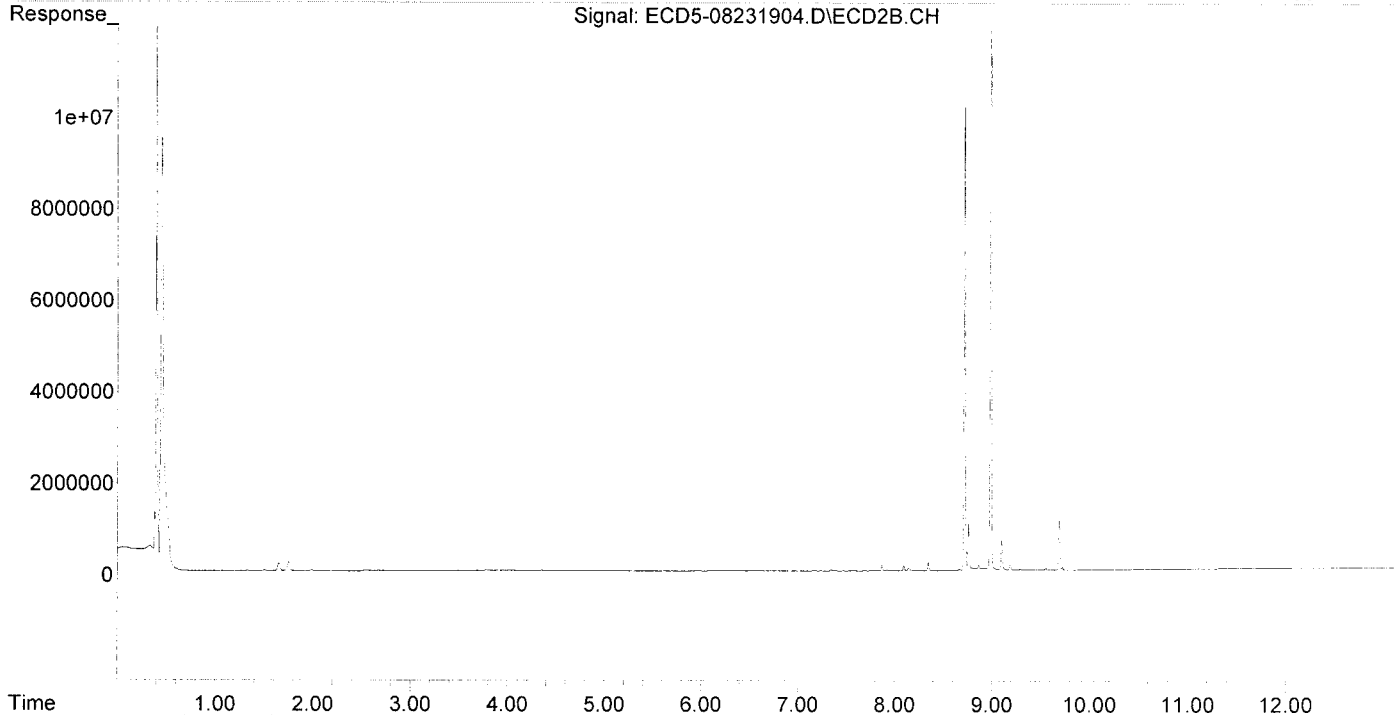
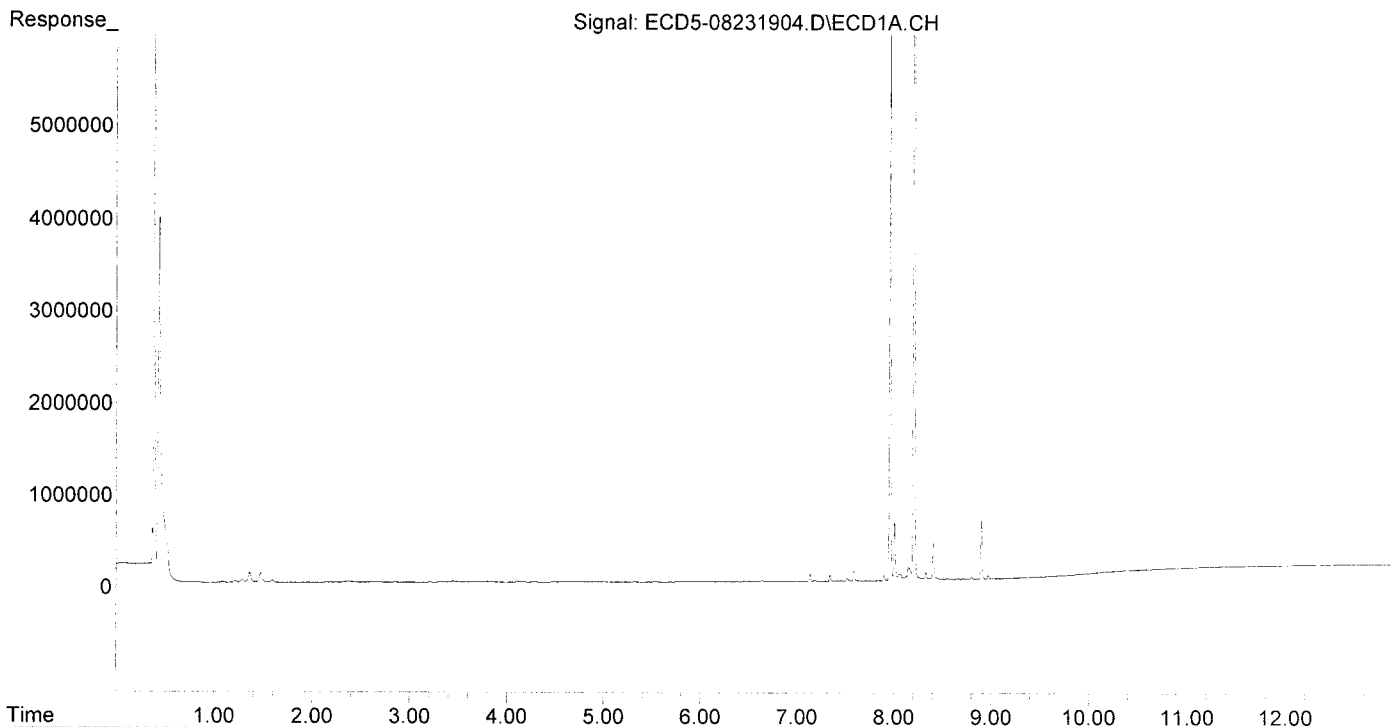
(m)=manual int.

Break down the High MJB 8/26/19
passing, but not maintenance performed
MJB 8/26/19

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\4\data\2019-08\9H23034\
Data File : ECD5-08231904.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 12:24
Operator : MJB
Sample : 9H23034-BKD1
Misc : A19G138
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 23 12:40:24 2019
Quant Method : C:\msdchem\4\methods\PestBreakdownCHK_190823.M
Quant Title : Pesticides
QLast Update : Thu Aug 21 11:53:22 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Pesticide BKD

Pesticide Breakdown Check (Validated 8/8/2013)

Sequence: 9H23034 BKD2
Data File: ECD5-08231906.D

First Column Area Counts		Percent Breakdown	
DDE	734891		
DDD	4530463		
DDT	125149199	4.04	PASS
Endrin	70846235	8.91	PASS
Endrin Aldehyde	2399187		
Endrin Ketone	4532548		

Second Column Area Counts		Percent Breakdown	
DDE	977816		
DDD	7819328		
DDT	188765825	4.45	PASS
Endrin	109289125	8.73	PASS
Endrin Aldehyde	3703608		
Endrin Ketone	6751447		

Breakdown must be less than 15% to accept sample data.

MB 8/26/13

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\4\data\2019-08\9H23034\
 Data File : ECD5-08231906.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 23 Aug 2019 13:16
 Operator : MJB
 Sample : 9H23034-BKD2
 Misc : A19G138
 ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Aug 23 13:30:06 2019
 Quant Method : C:\msdchem\4\methods\PestBreakdownCHK_190823.M
 Quant Title : Pesticides
 QLast Update : Thu Aug 21 11:53:22 2014
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Compound	R.T.	Response	Conc	Units

Target Compounds				
1) 4,4'-DDE	7.586	734891	NoCal	ng/mL
2) Endrin	7.960	70846235	NoCal	ng/mL
3) 4,4'-DDD	8.007	4530463	NoCal	ng/mL
4) 4,4'-DDT	8.205	125149199	NoCal	ng/mL
5) Endrin Aldehyde	8.407	2399187	NoCal	ng/mL
6) Endrin Ketone	8.902	4532548	NoCal	ng/mL
8) 4,4'-DDE [2C]	8.345	977816	NoCal	ng/mL
9) Endrin [2C]	8.718	109289125	NoCal	ng/mL
10) 4,4'-DDD [2C]	8.760	7819328	NoCal	ng/mL
11) Endrin Aldehyde [2C]	9.101	3703608	NoCal	ng/mL
12) 4,4'-DDT [2C]	8.988	188765825	NoCal	ng/mL
13) Endrin Ketone [2C]	9.690	6751447	NoCal	ng/mL

(f)=RT Delta > 1/2 Window

(m)=manual int.

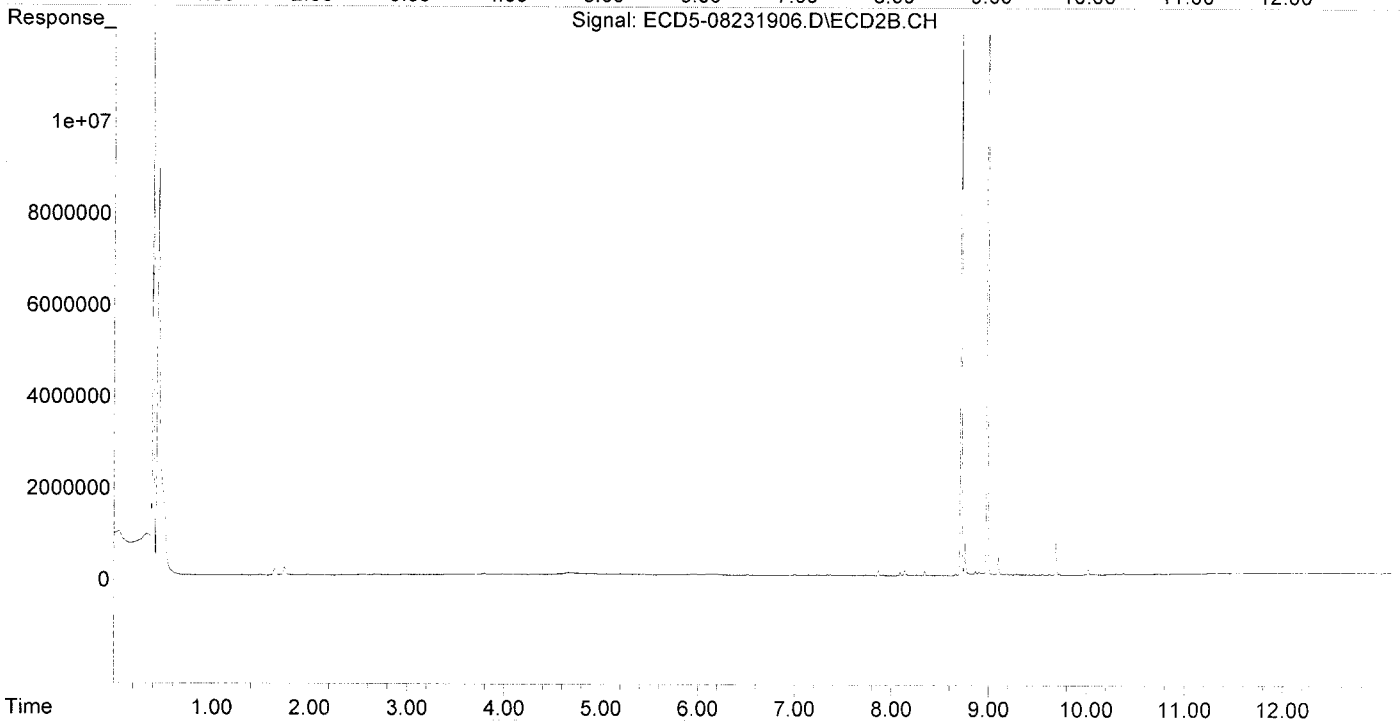
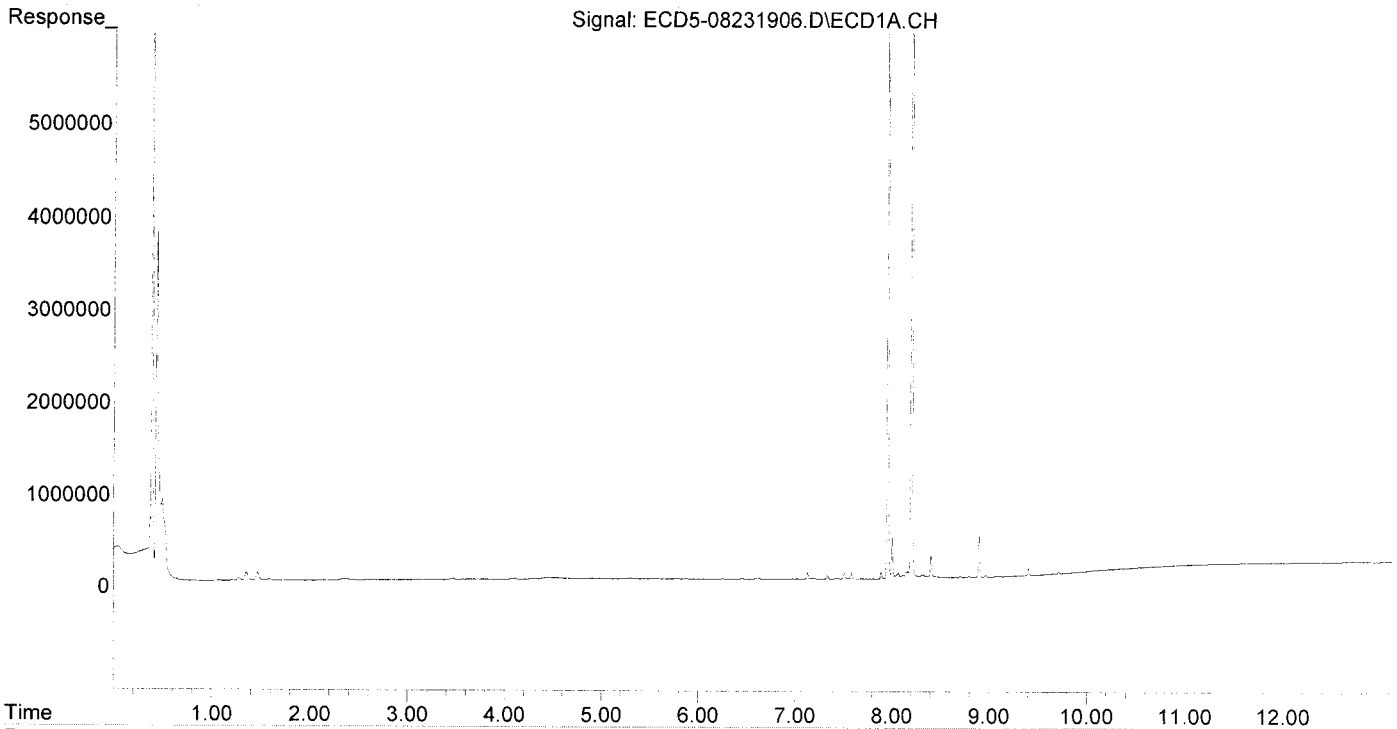
*Swabbed in 1st w/
Hexane.*

MJP 8/26/19

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\4\data\2019-08\9H23034\
Data File : ECD5-08231906.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 13:16
Operator : MJB
Sample : 9H23034-BKD2
Misc : A19G138
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 23 13:30:06 2019
Quant Method : C:\msdchem\4\methods\PestBreakdownCHK_190823.M
Quant Title : Pesticides
QLast Update : Thu Aug 21 11:53:22 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : R:\data\2019-08\9H23034\
 Data File : ECD5-08231908.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 23 Aug 2019 13:51
 Operator : MJB
 Sample : 9H23034-CAL1
 Misc : A19E245, AB 1 ppb
 ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Aug 26 11:15:45 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 10:58:24 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*WR
8/26/19*

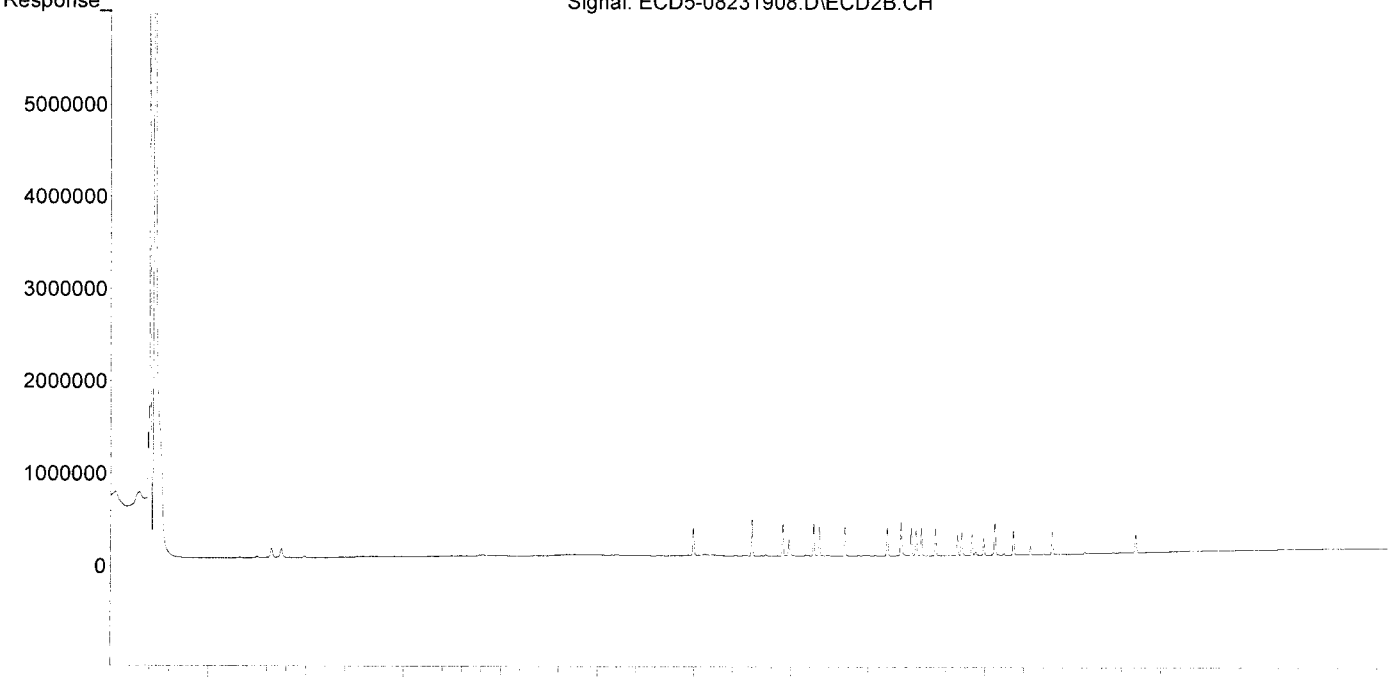
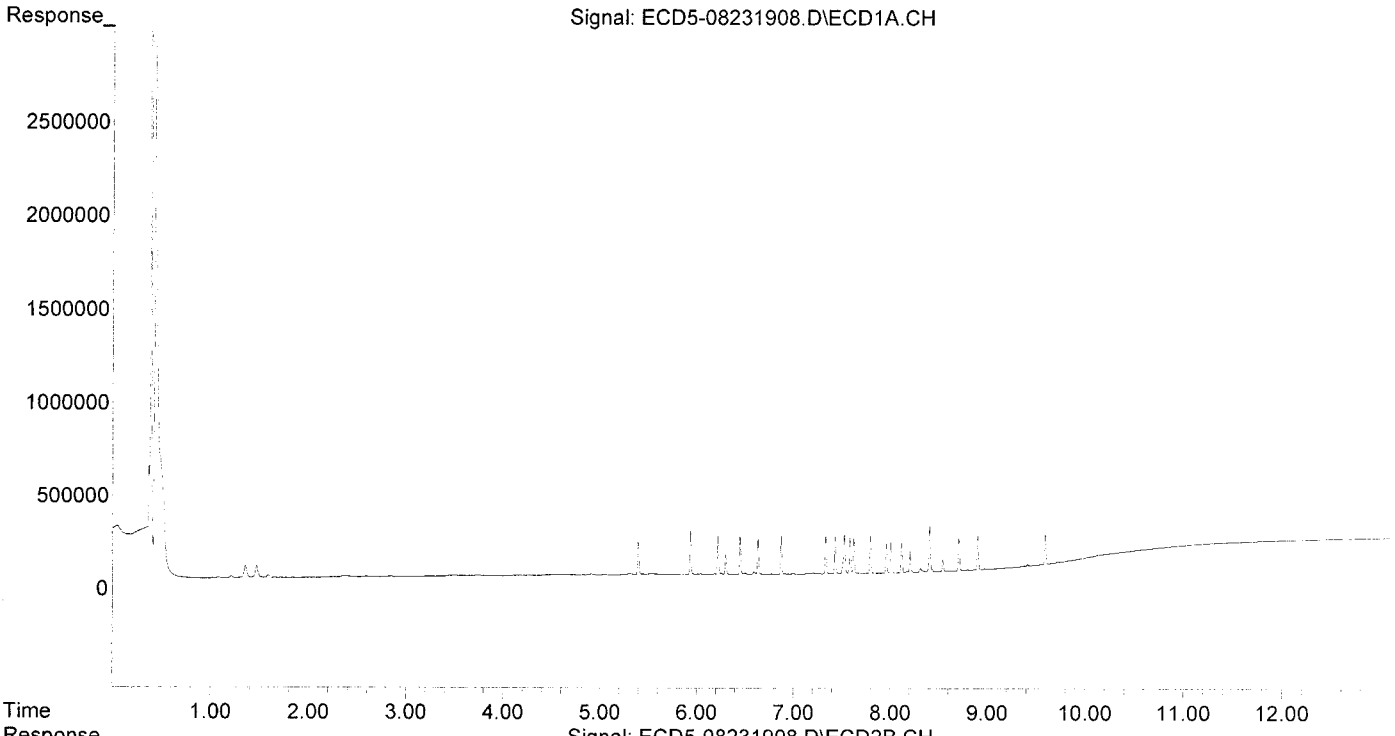
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.397	5.991	176748	300053	1.633	1.607
22) S DCBP (S)	9.593	10.541	163865	191572	1.202	1.206
Target Compounds						
2) a-BHC	5.937	6.597	231994	393119	1.665	1.296
3) g-BHC	6.221	6.915	207427	352286	1.380	1.170
4) b-BHC	6.300	6.980	104326	176262	1.760	1.450
5) Heptachlor	6.635	7.292	192066	309811	1.183	1.054
6) d-BHC	6.450	7.234	199840	349123	1.893	1.474
7) Aldrin	6.875	7.557	205523	317466	1.221	1.096
8) Heptachlo...	7.335	7.994	200503	310098	1.276	1.175
9) trans-Chl...	7.433	8.135	197202	364142	1.276	1.384
10) cis-Chlor...	7.528	8.241	209780	299422	1.367	1.179
11) Endosulfa...	7.625	8.291	185217	278874	1.245	1.173
12) 4,4'-DDE	7.586	8.346	193435	298463	1.647	1.374
13) Dieldrin	7.796	8.491	197721	296684	1.194	1.095
14) Endrin	7.961	8.718	156412	222882	1.190	1.096
15) 4,4'-DDD	8.007	8.760	164956	251549	1.683	1.281
16) Endosulfa...	8.118	8.865	158139	232156	1.378	1.183
17) 4,4'-DDT	8.205	8.986	113897	179700	1.686	1.607
18) Endrin Al...	8.407	9.101	241285	348624	2.337	2.034
19) Endosulfa...	8.708	9.292	176097	265797	1.418	1.337
20) Methoxychlor	8.543	9.466	59659	95155	1.698	1.611
21) Endrin Ke...	8.901	9.690	177552	255763	1.293	1.268
23) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25) Oxychlorane	0.000	0.000	0	0	N.D. d	N.D. d
26) 2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27) trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28) 2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29) 2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30) cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31) Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231908.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 13:51
Operator : MJB
Sample : 9H23034-CAL1
Misc : A19E245, AB 1 ppb
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 26 11:15:45 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 10:58:24 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
 Data File : ECD5-08231909.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 23 Aug 2019 14:08
 Operator : MJB
 Sample : 9H23034-CAL2
 Misc : A19E246, AB 2 ppb
 ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Aug 26 11:16:21 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 10:58:24 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.396	5.990	349972	600766	3.233	3.230
22) S DCBP (S)	9.593	10.542	309904	390006	2.547	2.456
Target Compounds						
2) a-BHC	5.936	6.597	458365	784586	3.177	2.540
3) g-BHC	6.220	6.915	406027	690922	2.702	2.295
4) b-BHC	6.300	6.980	194168	335260	3.275	2.757
5) Heptachlor	6.635	7.291	369615	586765	2.276	1.995
6) d-BHC	6.450	7.233	386980	669122	3.575	2.783
7) Aldrin	6.875	7.556	399550	635458	2.375	2.194
8) Heptachlo...	7.335	7.993	392052	606240	2.495	2.296
9) trans-Chl...	7.432	8.135	382271	644454	2.473	2.449
10) cis-Chlor...	7.527	8.241	389999	579667	2.541	2.282
11) Endosulfa...	7.625	8.291	357368	540442	2.402	2.273
12) 4,4'-DDE	7.586	8.345	388618	598066	3.268	2.709
13) Dieldrin	7.796	8.491	395728	583812	2.390	2.154
14) Endrin	7.960	8.718	298515	424889	2.271	2.149
15) 4,4'-DDD	8.006	8.760	314622	488120	3.236	2.486
16) Endosulfa...	8.118	8.864	299106	462256	2.607	2.355
17) 4,4'-DDT	8.204	8.986	218190	341782	3.052	2.875
18) Endrin Al...	8.407	9.101	328182	477694	3.179	2.786
19) Endosulfa...	8.707	9.291	322163	498767	2.595	2.558
20) Methoxychlor	8.542	9.465	111466	178074	3.136	2.980
21) Endrin Ke...	8.901	9.689	331269	493110	2.413	2.461
23) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25) Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d
26) 2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27) trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28) 2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29) 2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30) cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31) Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

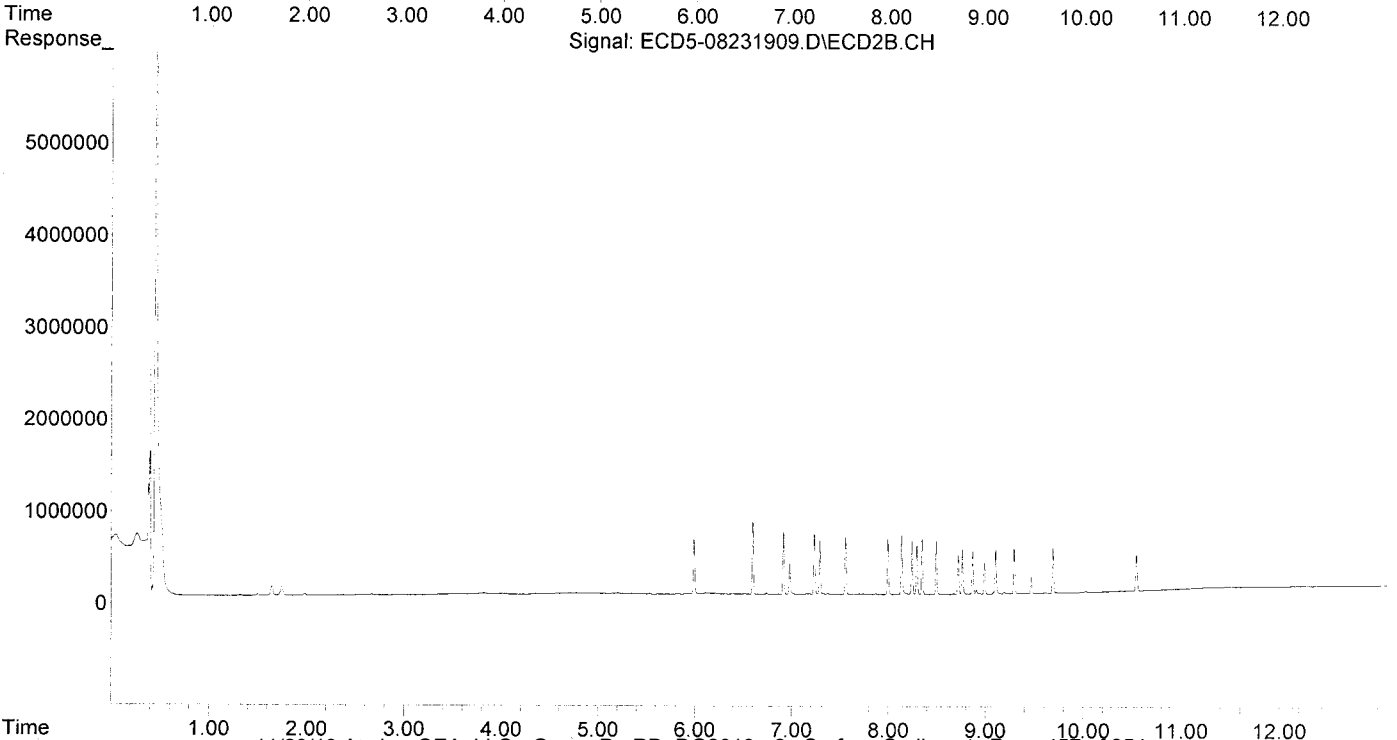
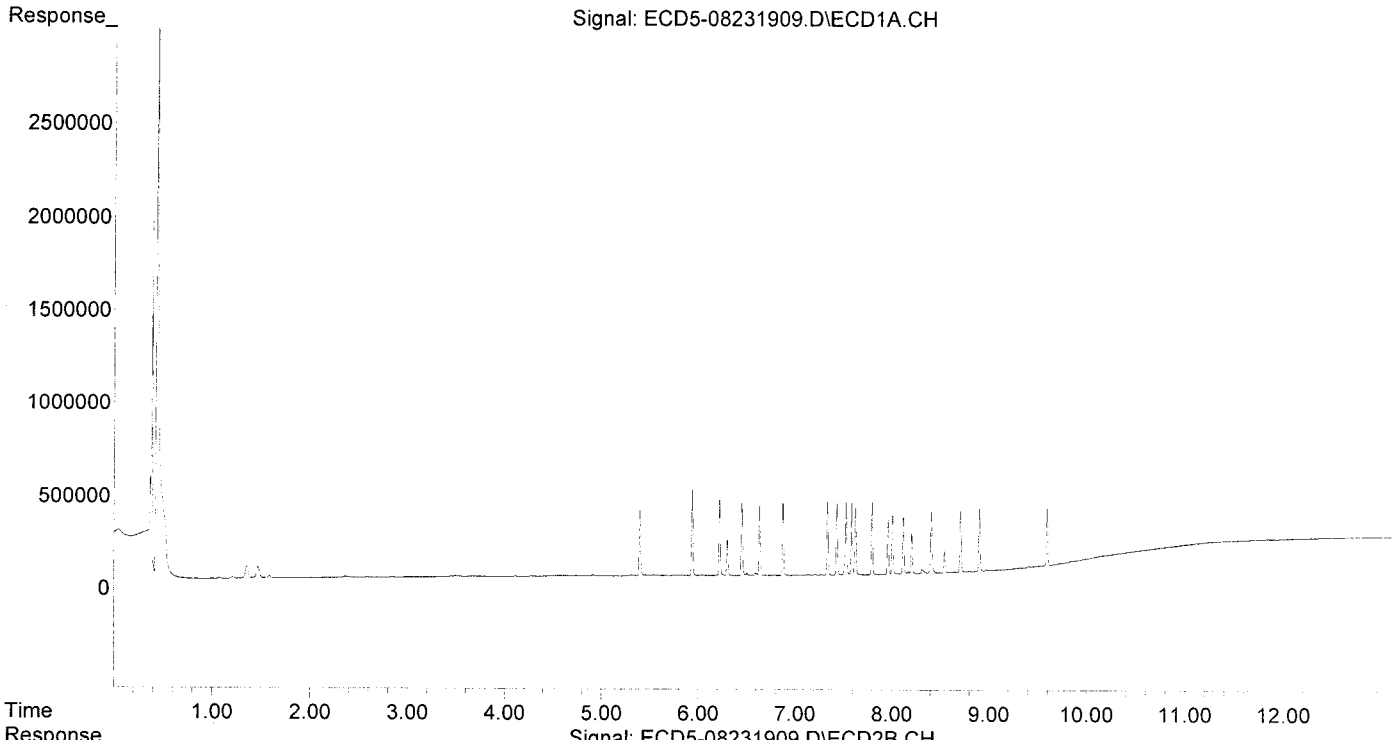
MJB
8/26/19

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231909.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 14:08
Operator : MJB
Sample : 9H23034-CAL2
Misc : A19E246, AB 2 ppb
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 26 11:16:21 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 10:58:24 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
 Data File : ECD5-08231910.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 23 Aug 2019 14:25
 Operator : MJB
 Sample : 9H23034-CAL3
 Misc : A19E247, AB 5 ppb
 ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Aug 26 11:16:57 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
 Quant Title : Instrument: DualeCD5
 QLast Update : Mon Aug 26 10:58:24 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB
8/26/19

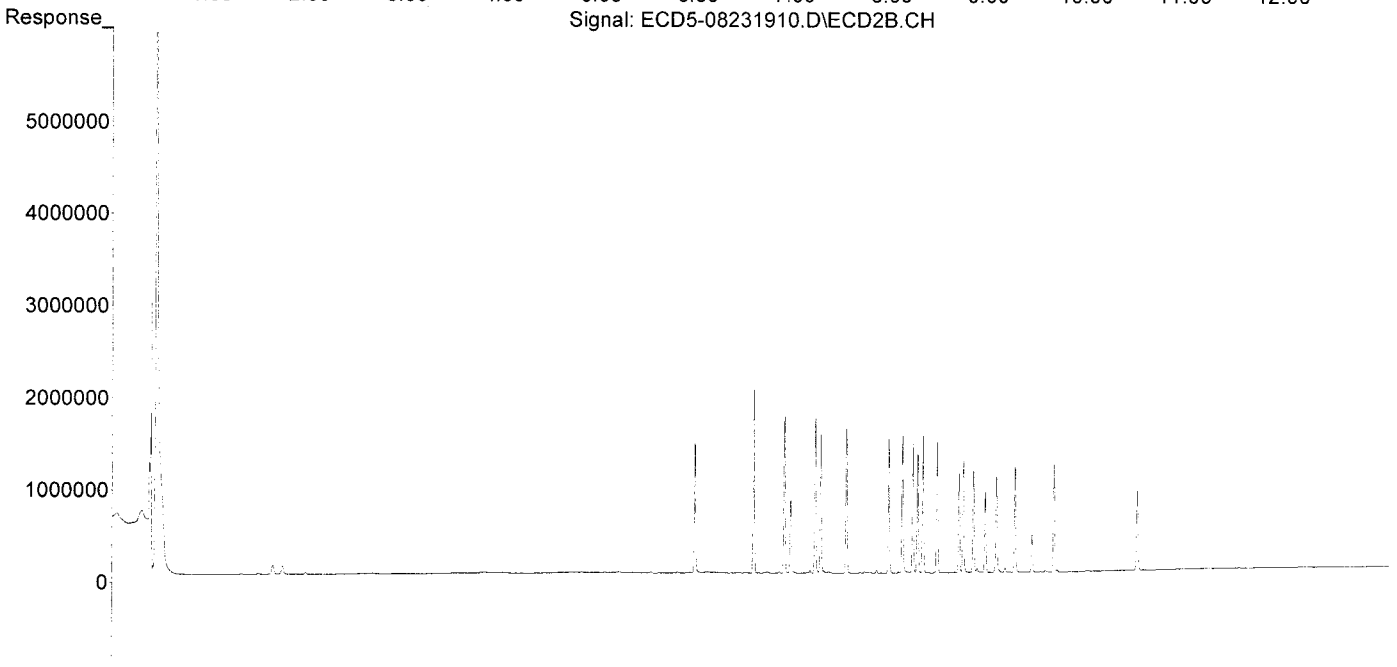
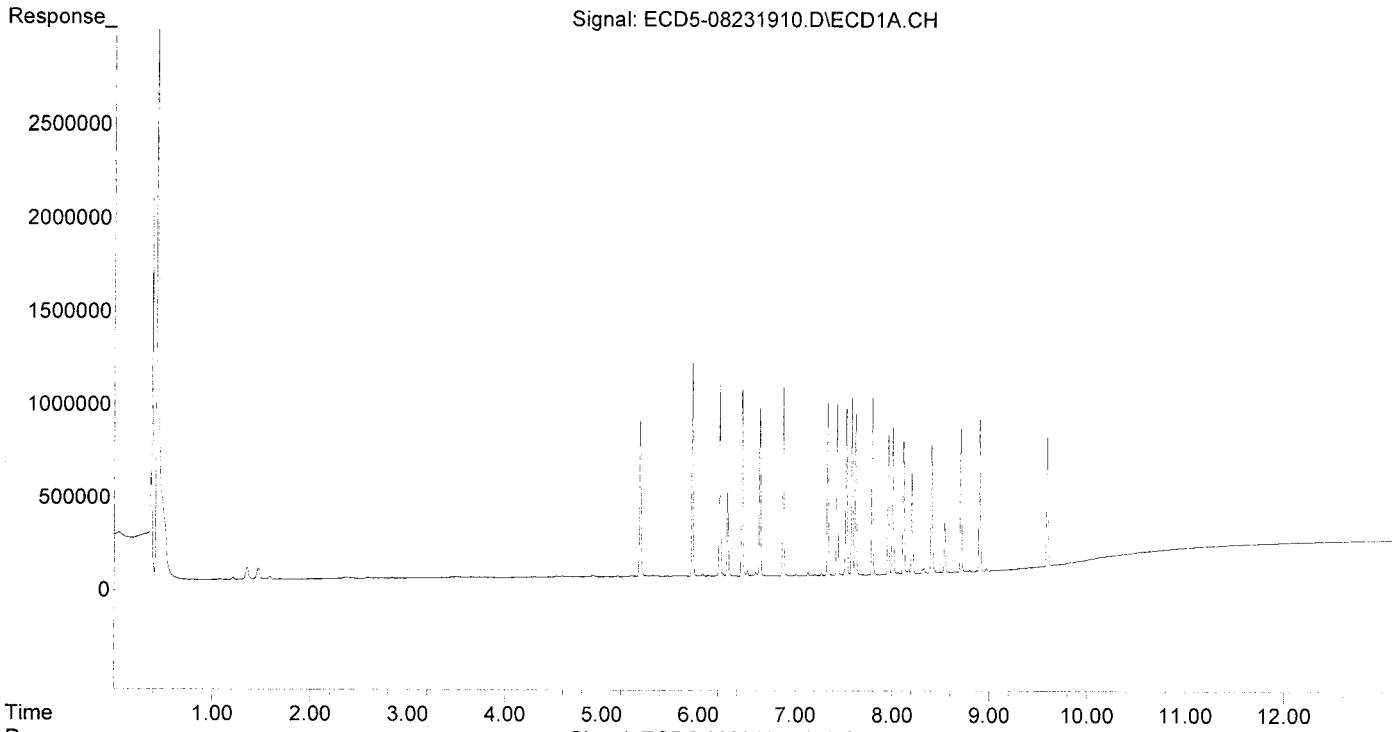
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.396	5.990	834206	1437876	7.707	7.700
22) S DCBP (S)	9.594	10.542	701050	870921	6.146	5.485
Target Compounds						
2) a-BHC	5.937	6.597	1147932	1985438	7.742	6.328
3) g-BHC	6.220	6.915	1020724	1742677	6.792	5.790
4) b-BHC	6.300	6.980	456954	788630	7.708	6.486
5) Heptachlor	6.635	7.291	899091	1508218	5.537	5.129
6) d-BHC	6.449	7.233	1004012	1717450	9.061	7.030
7) Aldrin	6.875	7.556	1012733	1600995	6.019	5.528
8) Heptachlo...	7.335	7.994	923620	1455941	5.877	5.514
9) trans-Chl...	7.432	8.134	926577	1502119	5.993	5.707
10) cis-Chlor...	7.528	8.241	908795	1434855	5.922	5.649
11) Endosulfa...	7.624	8.290	861509	1327191	5.790	5.583
12) 4,4'-DDE	7.586	8.345	953351	1487999	7.901	6.642
13) Dieldrin	7.796	8.491	972009	1462538	5.870	5.397
14) Endrin	7.960	8.718	738953	1092877	5.622	5.608
15) 4,4'-DDD	8.007	8.759	790498	1208642	8.130	6.156
16) Endosulfa...	8.118	8.865	709544	1096359	6.185	5.586
17) 4,4'-DDT	8.205	8.986	553009	873653	7.371	6.957
18) Endrin Al...	8.407	9.101	683393	1045869	6.620	6.101
19) Endosulfa...	8.708	9.291	768798	1175908	6.192	6.083
20) Methoxychlor	8.542	9.466	270388	413802	7.493	6.808
21) Endrin Ke...	8.901	9.689	811384	1205004	5.910	6.014
23) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25) Oxychlorane	0.000	0.000	0	0	N.D. d	N.D. d
26) 2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27) trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28) 2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29) 2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30) cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31) Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231910.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 14:25
Operator : MJB
Sample : 9H23034-CAL3
Misc : A19E247, AB 5 ppb
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 26 11:16:57 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 10:58:24 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : R:\data\2019-08\9H23034\
 Data File : ECD5-08231911.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 23 Aug 2019 14:42
 Operator : MJB
 Sample : 9H23034-CAL4
 Misc : A19E249, AB 10 ppb
 ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Aug 26 11:19:05 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 10:58:24 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB
8/26/19

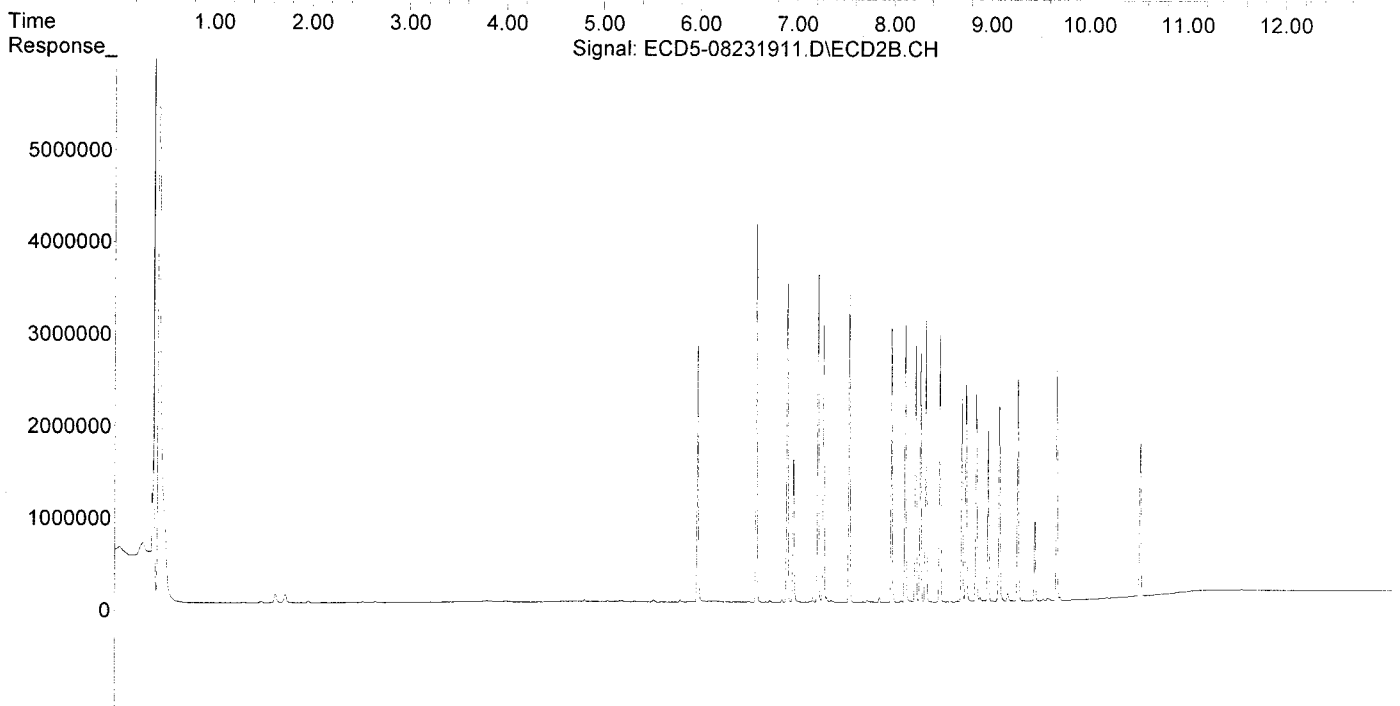
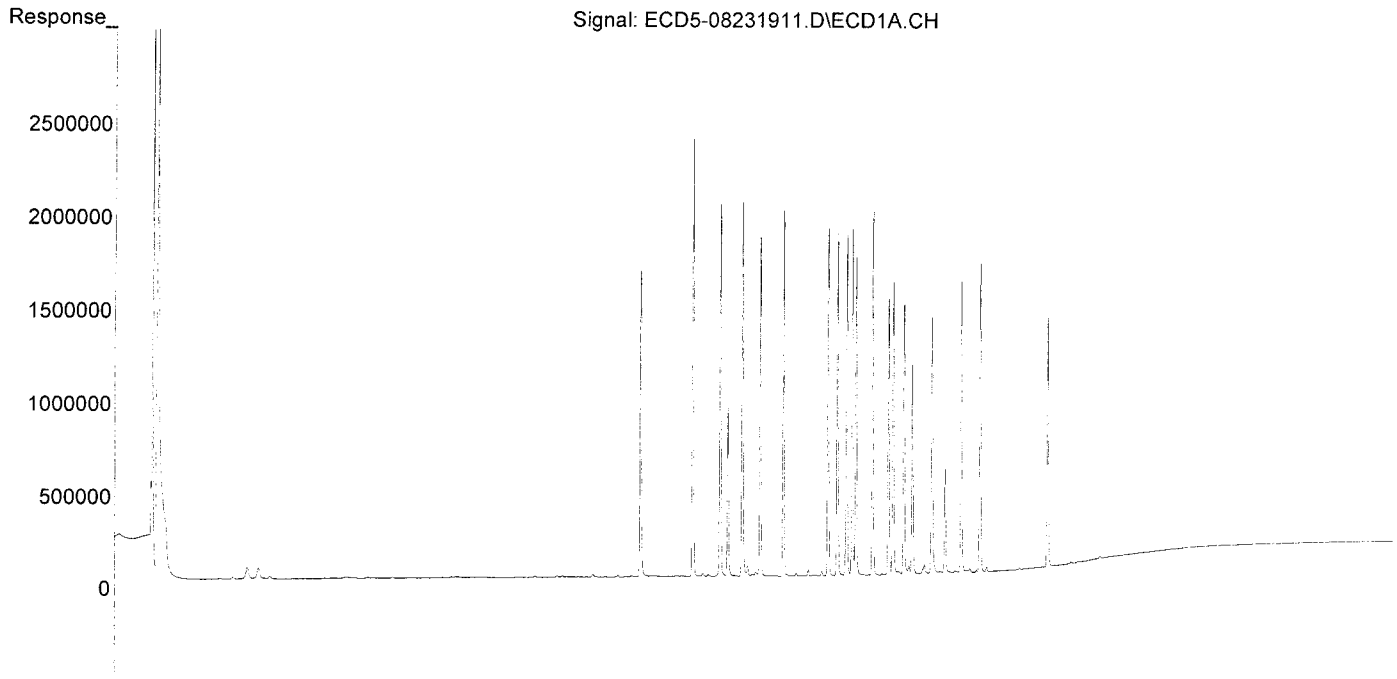
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.396	5.990	1644447	2865854	15.193	15.177
22) S DCBP (S)	9.593	10.541	1335468	1678728	11.976	10.572
Target Compounds						
2) a-BHC	5.936	6.597	2347065	4095890	15.530	12.883
3) g-BHC	6.220	6.915	2034859	3476733	13.541	11.551
4) b-BHC	6.299	6.980	910875	1580847	15.365	13.002
5) Heptachlor	6.634	7.291	1819621	3005915	11.206	10.223
6) d-BHC	6.449	7.234	2006493	3613517	17.784	14.564
7) Aldrin	6.875	7.556	2010802	3341093	11.950	11.536
8) Heptachlo...	7.335	7.994	1865428	2959301	11.869	11.208
9) trans-Chl...	7.431	8.134	1847996	3002782	11.953	11.409
10) cis-Chlor...	7.527	8.241	1843346	2859573	12.012	11.257
11) Endosulfa...	7.623	8.291	1709332	2724272	11.438	11.460
12) 4,4'-DDE	7.585	8.346	1890931	3049792	15.482	13.444
13) Dieldrin	7.795	8.491	1954890	2898866	11.805	10.697
14) Endrin	7.960	8.718	1475508	2244483	11.225	11.476
15) 4,4'-DDD	8.006	8.760	1565974	2425496	15.969	12.353
16) Endosulfa...	8.117	8.864	1448080	2243610	12.623	11.432
17) 4,4'-DDT	8.204	8.987	1146556	1841119	14.788	14.109
18) Endrin Al...	8.406	9.101	1375129	2125028	13.321	12.396
19) Endosulfa...	8.707	9.292	1553540	2424584	12.512	12.489
20) Methoxychlor	8.542	9.465	561706	883069	15.275	14.167
21) Endrin Ke...	8.900	9.689	1664380	2496985	12.124	12.365
23) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25) Oxychlorthane	0.000	0.000	0	0	N.D. d	N.D. d
26) 2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27) trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28) 2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29) 2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30) cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31) Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231911.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 14:42
Operator : MJB
Sample : 9H23034-CAL4
Misc : A19E249, AB 10 ppb
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 26 11:19:05 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 10:58:24 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
 Data File : ECD5-08231912.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 23 Aug 2019 15:00
 Operator : MJB
 Sample : 9H23034-CAL5
 Misc : A19E250, AB 25 ppb
 ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Aug 26 11:19:37 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
 Quant Title : Instrument: DualeCD5
 QLast Update : Mon Aug 26 10:58:24 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MB 8/26/19

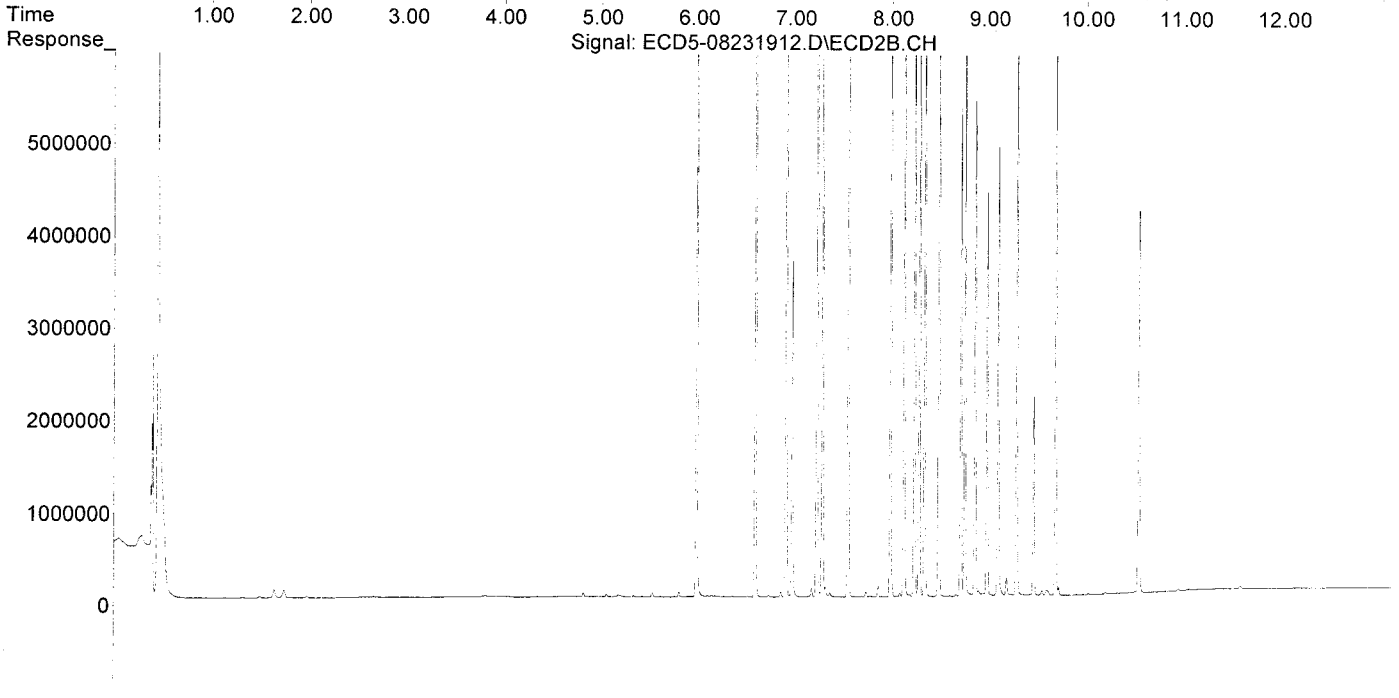
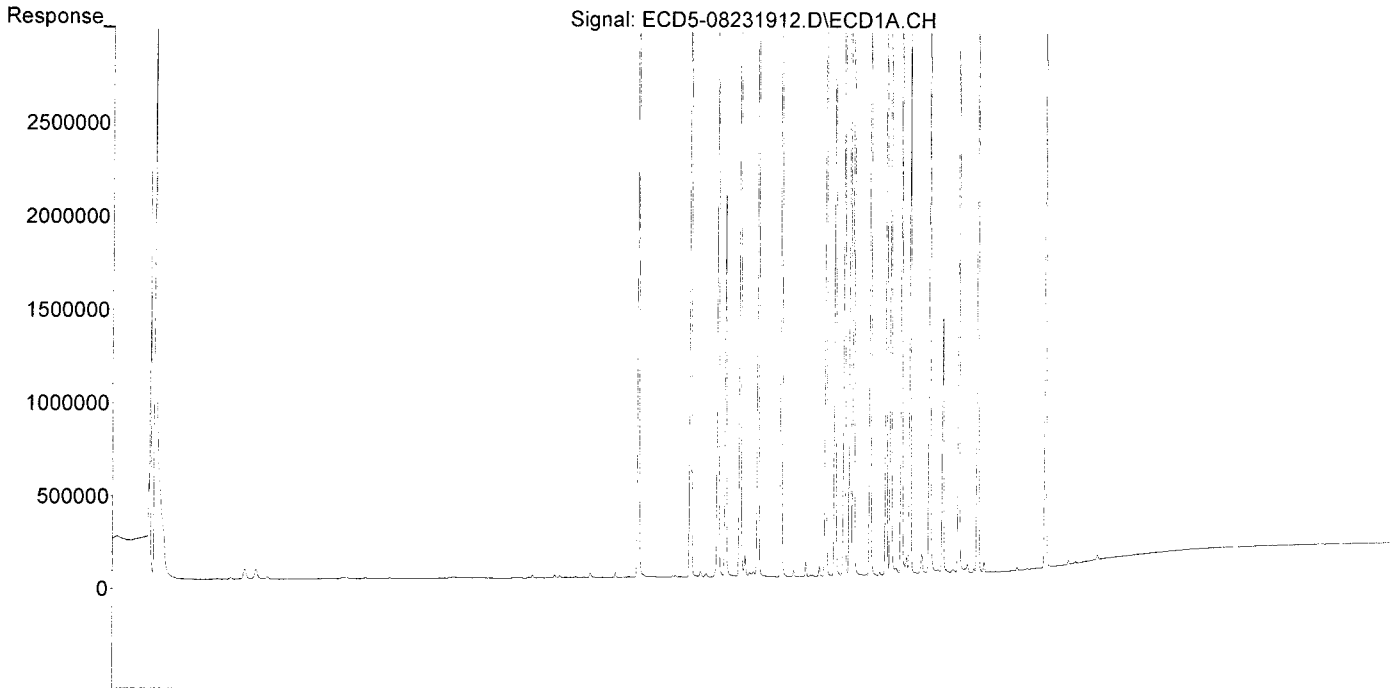
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.394	5.989	4015832	7072923	37.101	36.221
22) S DCBP (S)	9.592	10.539	3342634	4163229	30.365	26.219
Target Compounds						
2) a-BHC	5.935	6.596	5553096	9910863	35.515	30.324
3) g-BHC	6.218	6.913	4875657	8508386	32.445	28.267
4) b-BHC	6.297	6.978	2060378	3677155	34.755	30.244
5) Heptachlor	6.633	7.289	4314306	7282282	26.568	24.766
6) d-BHC	6.447	7.232	4667166	8247775	39.910	32.244
7) Aldrin	6.873	7.555	4845355	7878574	28.797	27.203
8) Heptachlo...	7.332	7.992	4344286	7064729	27.642	26.758
9) trans-Chl...	7.429	8.131	4401456	7157480	28.469	27.194
10) cis-Chlor...	7.525	8.239	4244413	6935857	27.657	27.304
11) Endosulfa...	7.621	8.288	4111285	6571512	27.630	27.643
12) 4,4'-DDE	7.583	8.343	4571066	7501047	36.397	32.167
13) Dieldrin	7.792	8.489	4582306	7333890	27.672	27.063
14) Endrin	7.957	8.716	3508904	5325883	26.694	26.642
15) 4,4'-DDD	8.004	8.758	3727035	6146469	37.001	31.304
16) Endosulfa...	8.115	8.862	3371864	5447602	29.393	27.758
17) 4,4'-DDT	8.202	8.984	2924467	4480388	35.460	32.123
18) Endrin Al...	8.404	9.099	3119767	4848504	30.221	28.282
19) Endosulfa...	8.705	9.289	3645411	5978906	29.360	30.102
20) Methoxychlor	8.540	9.463	1390283	2166659	36.145	32.800
21) Endrin Ke...	8.899	9.688	4008958	5893691	29.202	28.514
23) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25) Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d
26) 2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27) trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28) 2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29) 2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30) cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31) Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231912.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 15:00
Operator : MJB
Sample : 9H23034-CAL5
Misc : A19E250, AB 25 ppb
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 26 11:19:37 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 10:58:24 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
 Data File : ECD5-08231913.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 23 Aug 2019 15:17
 Operator : MJB
 Sample : 9H23034-CAL6
 Misc : A19H383, AB 50 ppb
 ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Aug 26 10:58:12 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
 Quant Title : Instrument: DualECD5
 QLast Update : Wed Aug 07 17:49:44 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 8/26/19

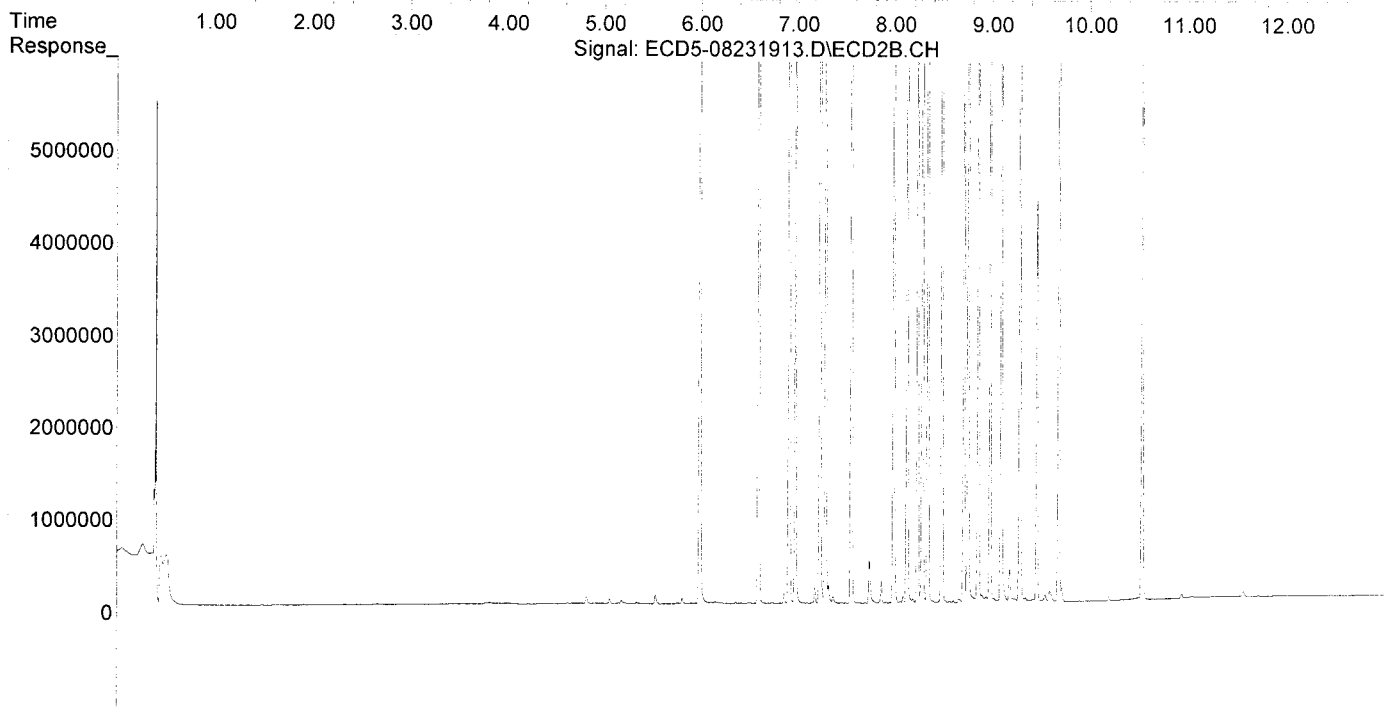
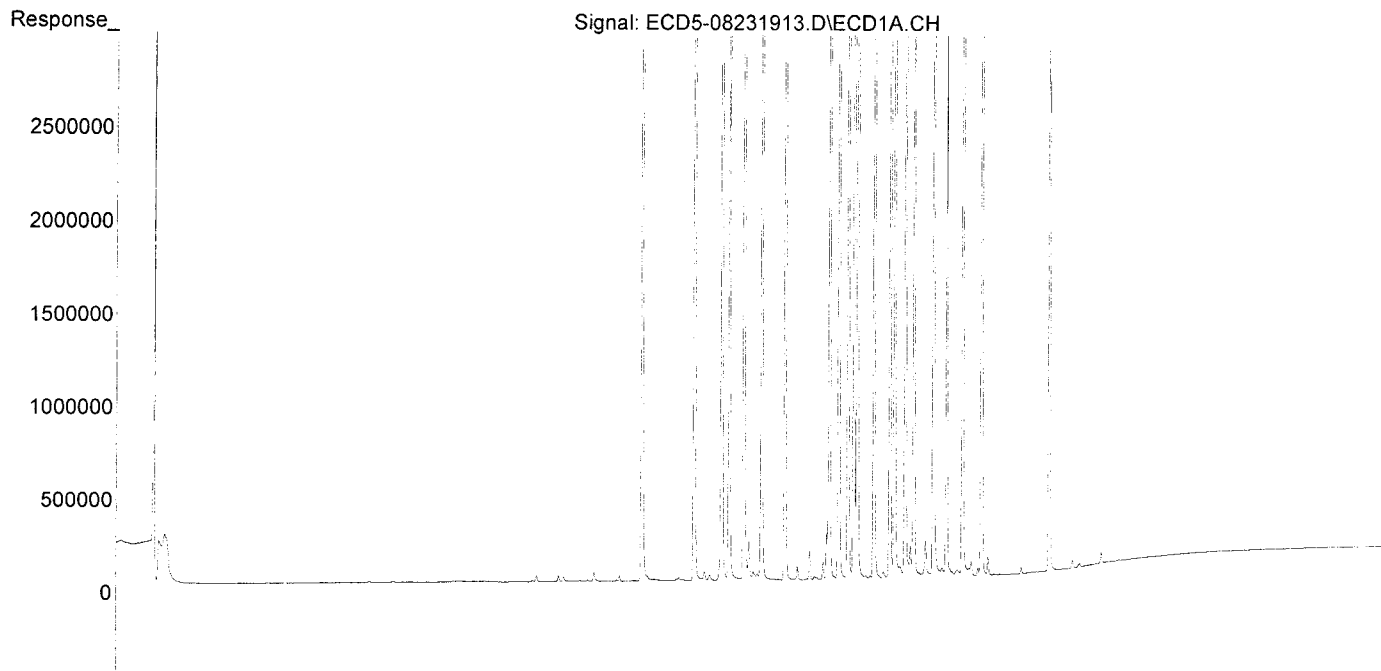
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.394	5.989	8071481	14196745	74.571	69.077
22) S DCBP (S)	9.592	10.541	6678990	8730692	60.740	54.984
Target Compounds						
2) a-BHC	5.935	6.596	11369592	20265817	69.154	59.445
3) g-BHC	6.218	6.914	9785999	17381069	65.120	57.745
4) b-BHC	6.296	6.978	4100858	7516011	69.174	61.818
5) Heptachlor	6.632	7.290	8735158	14595143	53.793	49.636
6) d-BHC	6.447	7.232	9610742	17311258	77.761	64.308
7) Aldrin	6.873	7.555	9327672	16264416	55.436	56.158
8) Heptachlo...	7.332	7.992	8869300	14837794	56.484	56.198
9) trans-Chl...	7.428	8.131	8959305	14678719	57.950	55.771
10) cis-Chlor...	7.524	8.238	8622674	14002116	56.187	55.122
11) Endosulfa...	7.621	8.289	7984410	13712329	53.659	57.680
12) 4,4'-DDE	7.583	8.344	9177389	15554706	70.089	63.904
13) Dieldrin	7.792	8.489	9386664	15434113	56.685	56.955
14) Endrin	7.957	8.716	6979572	11015379	53.097	52.880
15) 4,4'-DDD	8.004	8.758	7726197	13159451	73.239	67.021
16) Endosulfa...	8.114	8.863	6840920	11534525	59.632	58.774
17) 4,4'-DDT	8.202	8.985	6205369	9285492	69.085	60.834
18) Endrin Al...	8.404	9.099	6224451	10209034	60.296	59.551
19) Endosulfa...	8.705	9.289	7420576	12149289	59.766	58.797
20) Methoxychlor	8.540	9.464	2860683	4346199	69.570	60.726
21) Endrin Ke...	8.899	9.687	8190707	12954568	59.663	59.905
23) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25) Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d
26) 2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27) trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28) 2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29) 2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30) cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31) Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231913.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 15:17
Operator : MJB
Sample : 9H23034-CAL6
Misc : A19H383, AB 50 ppb
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 26 10:58:12 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Aug 07 17:49:44 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
 Data File : ECD5-08231914.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 23 Aug 2019 15:34
 Operator : MJB
 Sample : 9H23034-CAL7
 Misc : A19H382, AB 100 ppb
 ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Aug 26 11:20:14 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
 Quant Title : Instrument: DualeCD5
 QLast Update : Mon Aug 26 10:58:24 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 8/26/19

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL

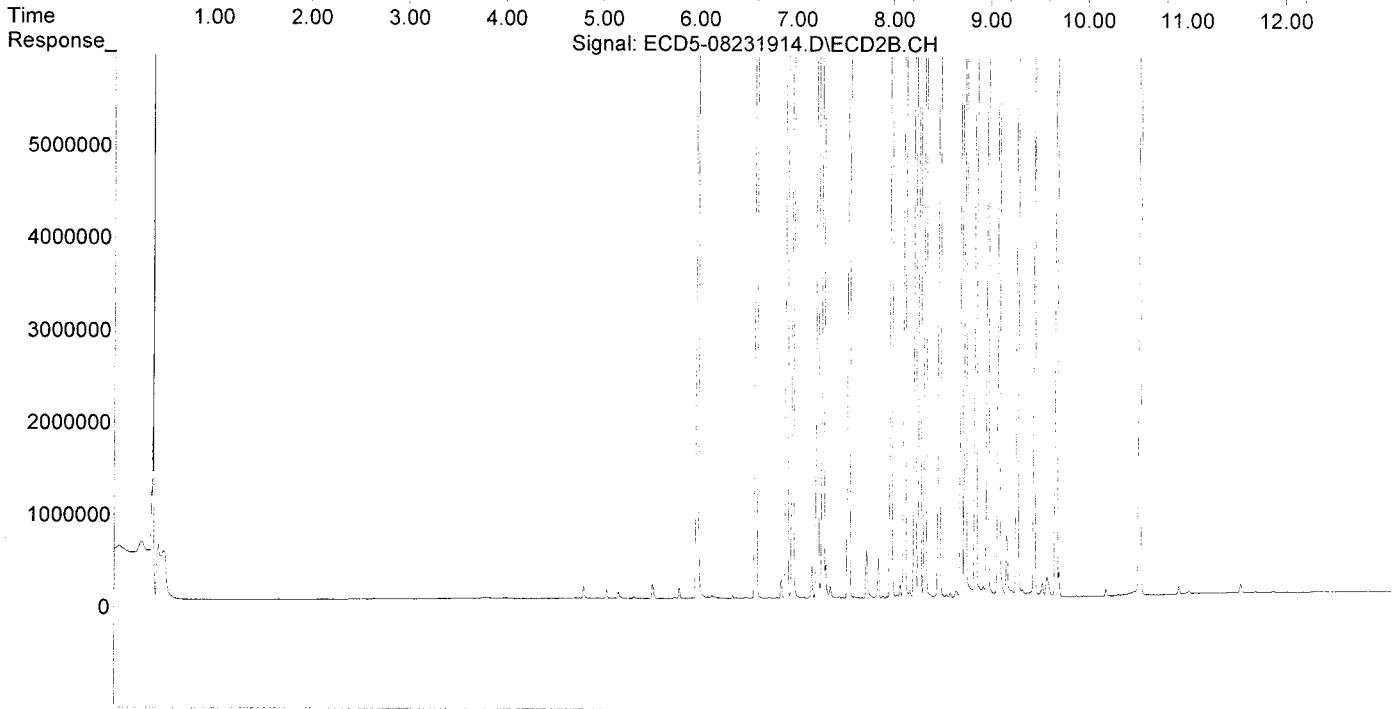
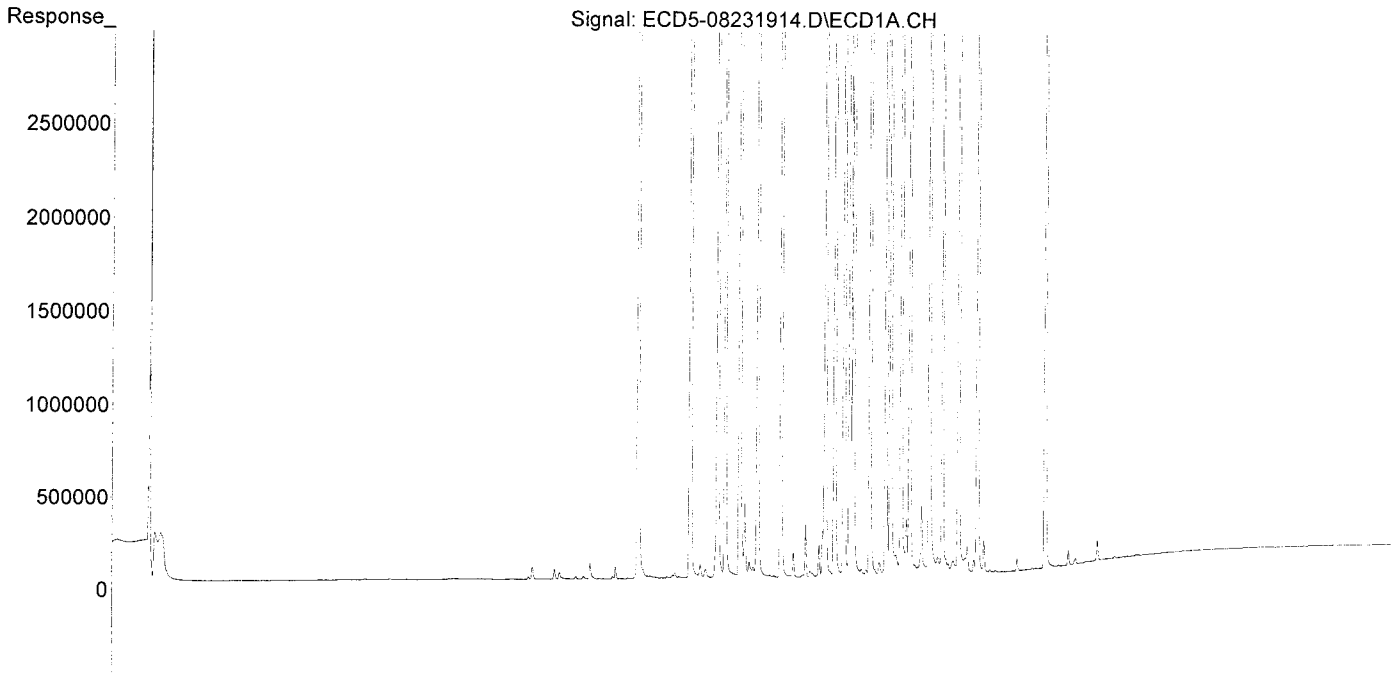
System Monitoring Compounds						
1) S TCMX (S)	5.395	5.989	15850922	29256334	146.444	130.224
22) S DCBP (S)	9.592	10.540	13405396	17784069	121.277	111.999
Target Compounds						
2) a-BHC	5.935	6.596	22363584	41699210	125.842	113.668
3) g-BHC	6.218	6.914	19595093	36788994	130.394	122.224
4) b-BHC	6.296	6.977	8355416	14625175	140.940	120.290
5) Heptachlor	6.632	7.289	17551528	30277818	108.086	102.970
6) d-BHC	6.446	7.232	19475580	35176633	144.149	120.302
7) Aldrin	6.872	7.555	19108074	33906422	113.562	117.072
8) Heptachlo...	7.331	7.991	17318444	30045511	110.195	113.798
9) trans-Chl...	7.427	8.131	17732791	30742272	114.698	116.803
10) cis-Chlor...	7.523	8.238	16742584	29042863	109.098	114.333
11) Endosulfa...	7.619	8.288	16089996	27212707	108.133	114.469
12) 4,4'-DDE	7.582	8.344	18052552	32499603	128.779	123.812
13) Dieldrin	7.791	8.488	18324422	31001958	110.659	114.403
14) Endrin	7.957	8.715	13812708	23102413	105.080	102.828
15) 4,4'-DDD	8.003	8.758	15437146	26297484	135.694	133.933
16) Endosulfa...	8.113	8.861	13543500	23016371	118.059	117.279
17) 4,4'-DDT	8.201	8.984	12176961	19789501	120.685	112.516
18) Endrin Al...	8.403	9.098	12363806	20502737	119.767	119.596
19) Endosulfa...	8.704	9.289	14366789	24477320	115.711	110.592
20) Methoxychlor	8.539	9.463	5877329	9444987	128.396	114.860
21) Endrin Ke...	8.898	9.687	16251943	26636559	118.383	114.357
23) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25) Oxychlorane	0.000	0.000	0	0	N.D. d	N.D. d
26) 2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27) trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28) 2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29) 2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30) cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31) Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231914.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 15:34
Operator : MJB
Sample : 9H23034-CAL7
Misc : A19H382, AB 100 ppb
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 26 11:20:14 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 10:58:24 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : R:\data\2019-08\9H23034\
 Data File : ECD5-08231915.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 23 Aug 2019 15:52
 Operator : MJB
 Sample : 9H23034-CAL8
 Misc : A19E244, AB 200 ppb
 ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Aug 26 11:20:45 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 10:58:24 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB
8/26/19

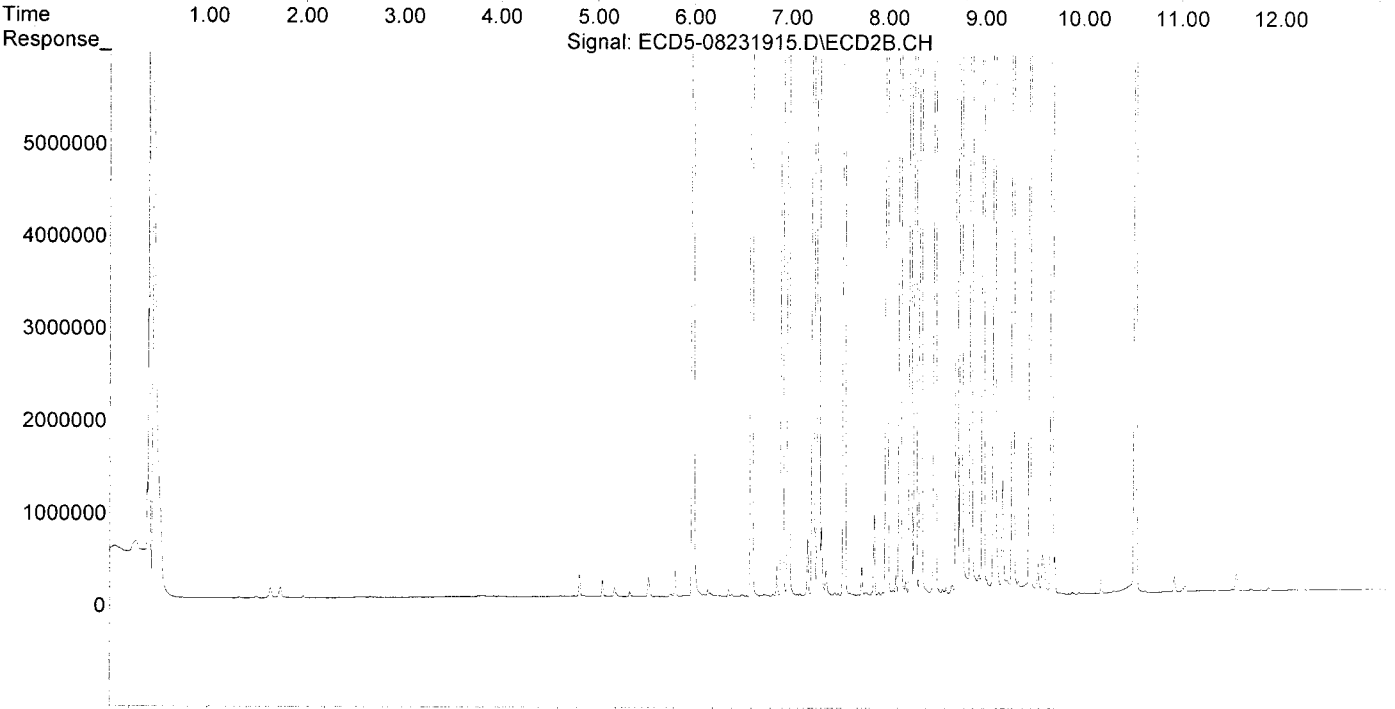
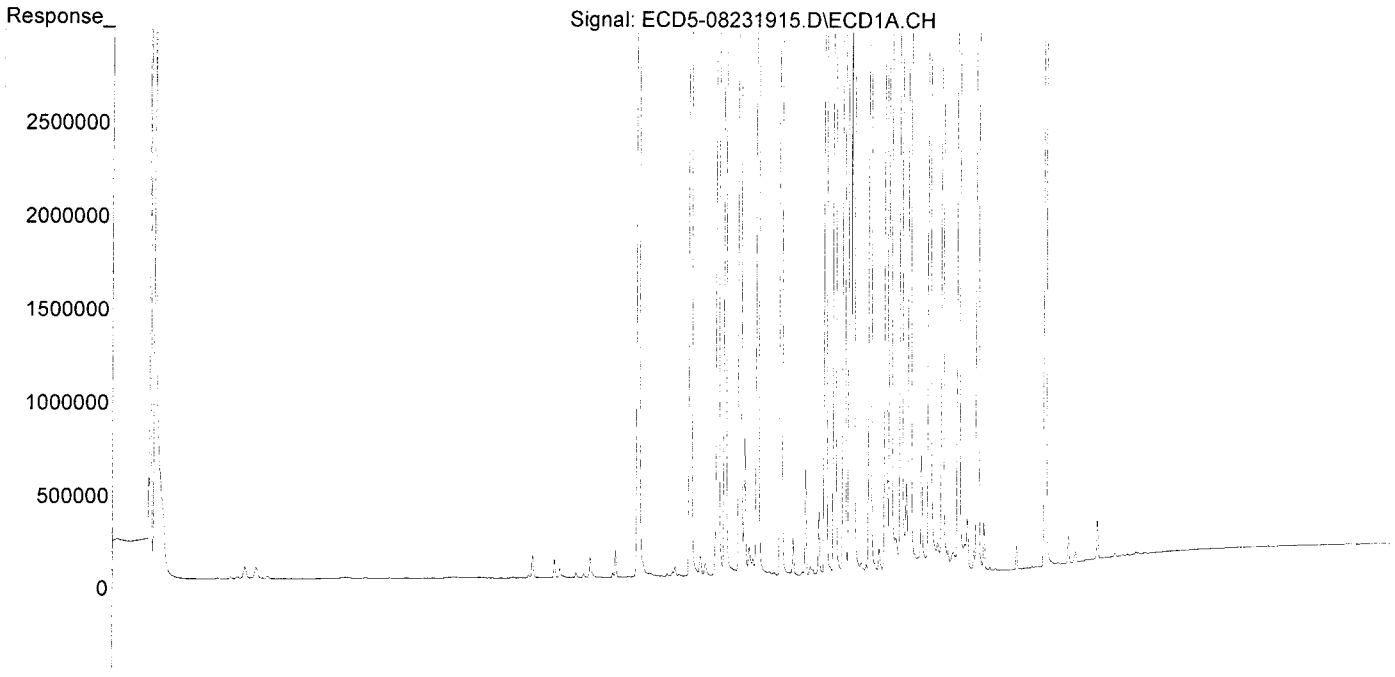
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.394	5.990	32842535	62584449	303.426	241.228
22) S DCBP (S)	9.591	10.539	26975231	38097779	240.687	239.829
Target Compounds						
2) a-BHC	5.935	6.597	47202252	94376748	232.879	224.790
3) g-BHC	6.218	6.914	41889726	80765680	278.753	268.327
4) b-BHC	6.294	6.977	18238696	32553433	307.652	267.747
5) Heptachlor	6.630	7.289	37785699	71283176	232.692	242.422
6) d-BHC	6.445	7.232	41016592	80979751	263.399	237.546
7) Aldrin	6.870	7.554	39838403	73228186	236.765	252.843
8) Heptachlo...	7.330	7.991	36258170	65330070	230.706	247.439
9) trans-Chl...	7.425	8.130	37621413	66447972	243.340	252.464
10) cis-Chlor...	7.521	8.238	35207945	63977063	229.421	251.859
11) Endosulfa...	7.618	8.288	33852593	61043507	227.507	256.777
12) 4,4'-DDE	7.581	8.344	38763081	69842351	244.719	234.608
13) Dieldrin	7.791	8.489	39217772	70031781	236.831	258.430
14) Endrin	7.955	8.715	31426311	52779585	239.075	204.455
15) 4,4'-DDD	8.002	8.758	32436804	59560270	251.258	303.340
16) Endosulfa...	8.112	8.862	29471042	51834888	256.899	264.124
17) 4,4'-DDT	8.200	8.984	29075222	48203441	232.877	216.675
18) Endrin Al...	8.402	9.098	26627672	45084544	257.940	262.986
19) Endosulfa...	8.704	9.289	31126520	54592794	250.696	216.937
20) Methoxychlor	8.537	9.463	14271143	23714100	255.612	227.264
21) Endrin Ke...	8.898	9.688	35094718	60861376	255.639	227.431
23) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25) Oxychlorane	0.000	0.000	0	0	N.D. d	N.D. d
26) 2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27) trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28) 2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29) 2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30) cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31) Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231915.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 15:52
Operator : MJB
Sample : 9H23034-CAL8
Misc : A19E244, AB 200 ppb
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 26 11:20:45 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 10:58:24 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
 Data File : ECD5-08231918.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 23 Aug 2019 16:44
 Operator : MJB
 Sample : 9H23034-CAL9
 Misc : A19E272, 9-42 1 ppb
 ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Aug 26 11:23:34 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
 Quant Title : Instrument: DualeCD5
 QLast Update : Mon Aug 26 11:22:42 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 8/26/19

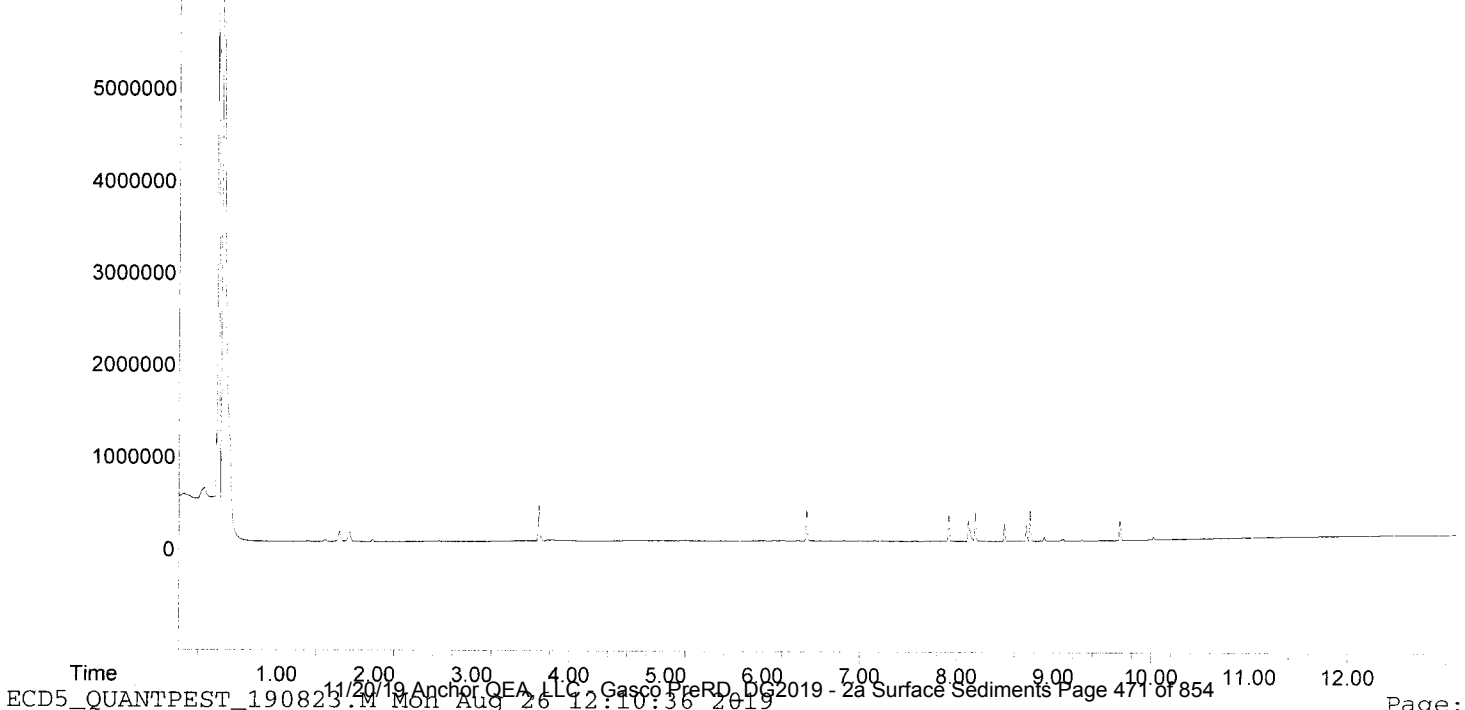
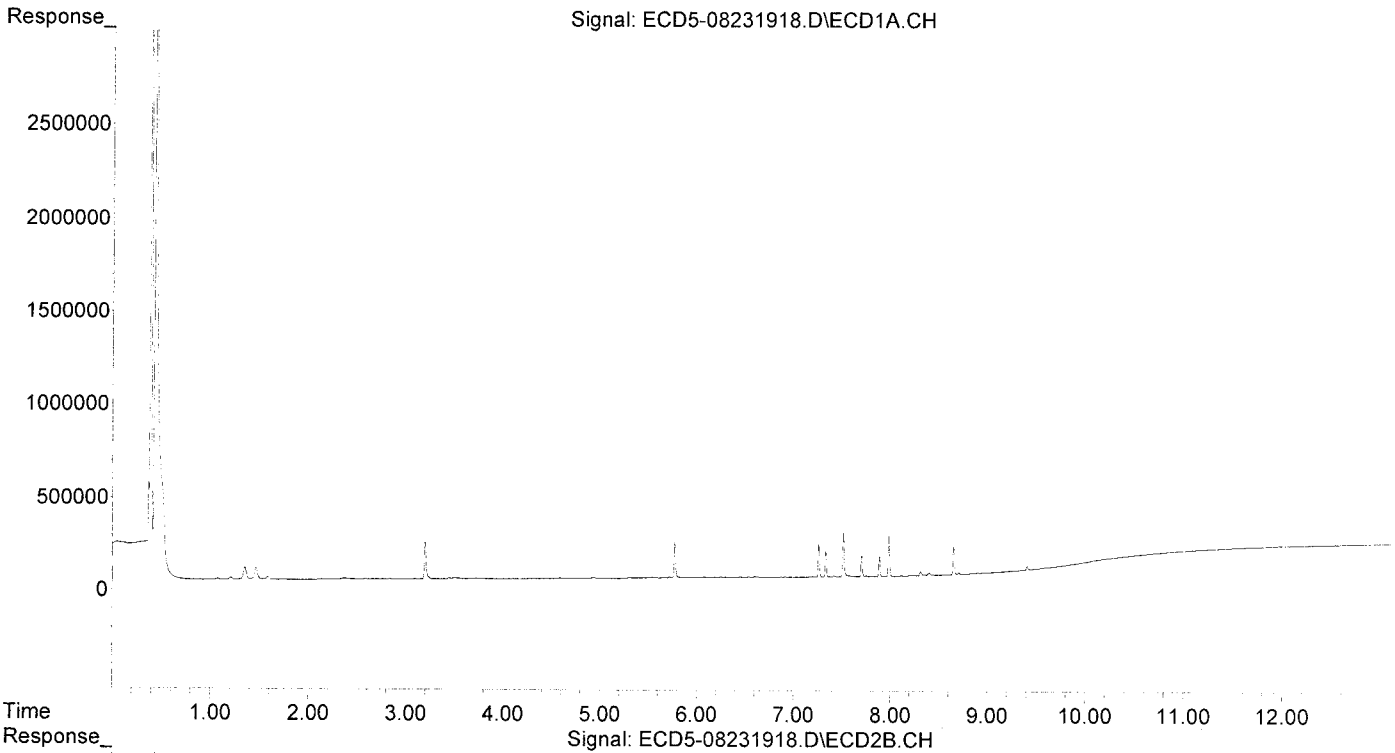
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3) g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4) b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6) d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8) Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9) trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10) cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12) 4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13) Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14) Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15) 4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17) 4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18) Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20) Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21) Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23) Hexachlor...	3.198	3.687	198207	383198	1.330	1.219
24) Hexachlor...	5.775	6.453	194679	328025	1.585	1.463
25) Oxychlordane	7.263	7.922	176844	279143	1.364	1.326
26) 2,4'-DDE	7.335	8.123	137947	219164	1.468	1.405
27) trans-Non...	7.518	8.195	236836	306202	1.652	1.333
28) 2,4'-DDD	7.707	8.495	120240	192040	1.439	1.409
29) 2,4'-DDT	7.890	8.719	107110	173338	1.500	1.372
30) cis-Nonac...	7.987	8.759	219220	332745	1.362	1.310
31) Mirex	8.655	9.680	147356	209783	1.505	1.458
32) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231918.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 16:44
Operator : MJB
Sample : 9H23034-CAL9
Misc : A19E272, 9-42 1 ppb
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 26 11:23:34 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:22:42 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
 Data File : ECD5-08231919.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 23 Aug 2019 17:01
 Operator : MJB
 Sample : 9H23034-CALA
 Misc : A19E273, 9-42 2 ppb
 ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Aug 26 11:24:10 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:22:42 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 8/26/19

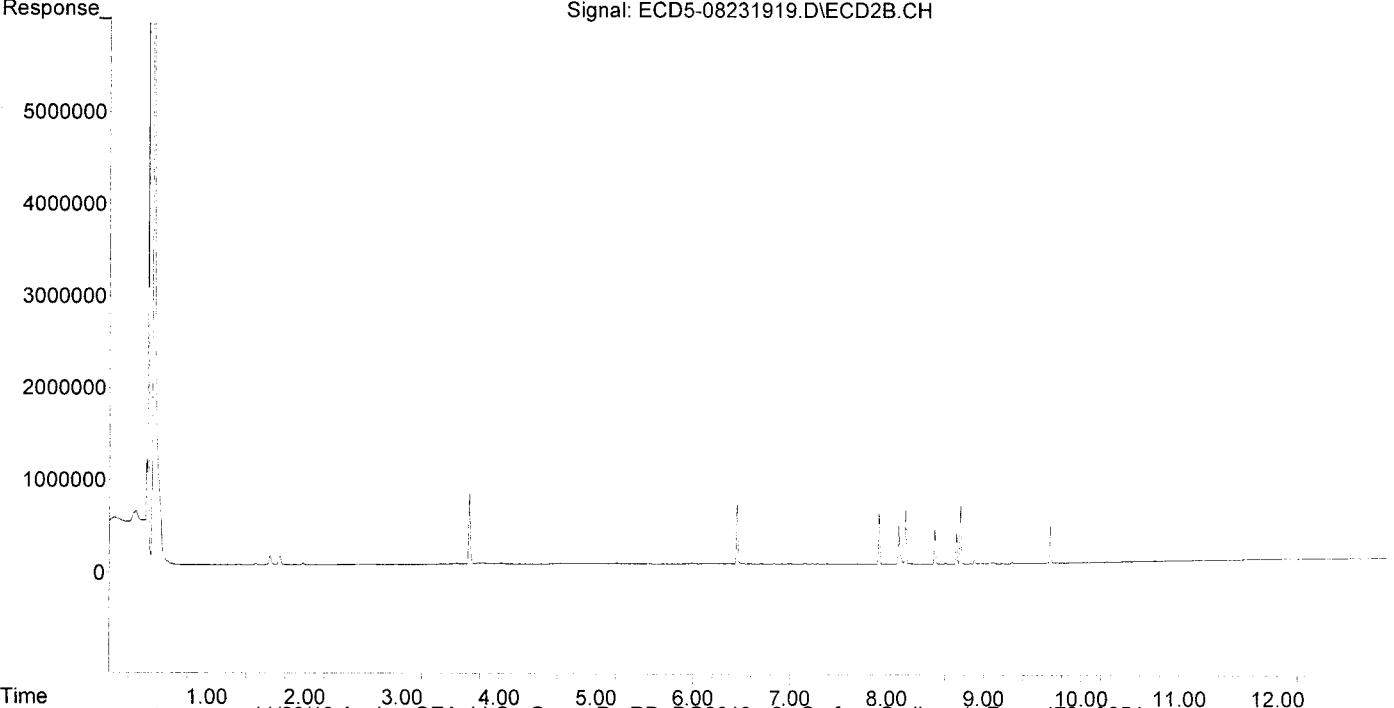
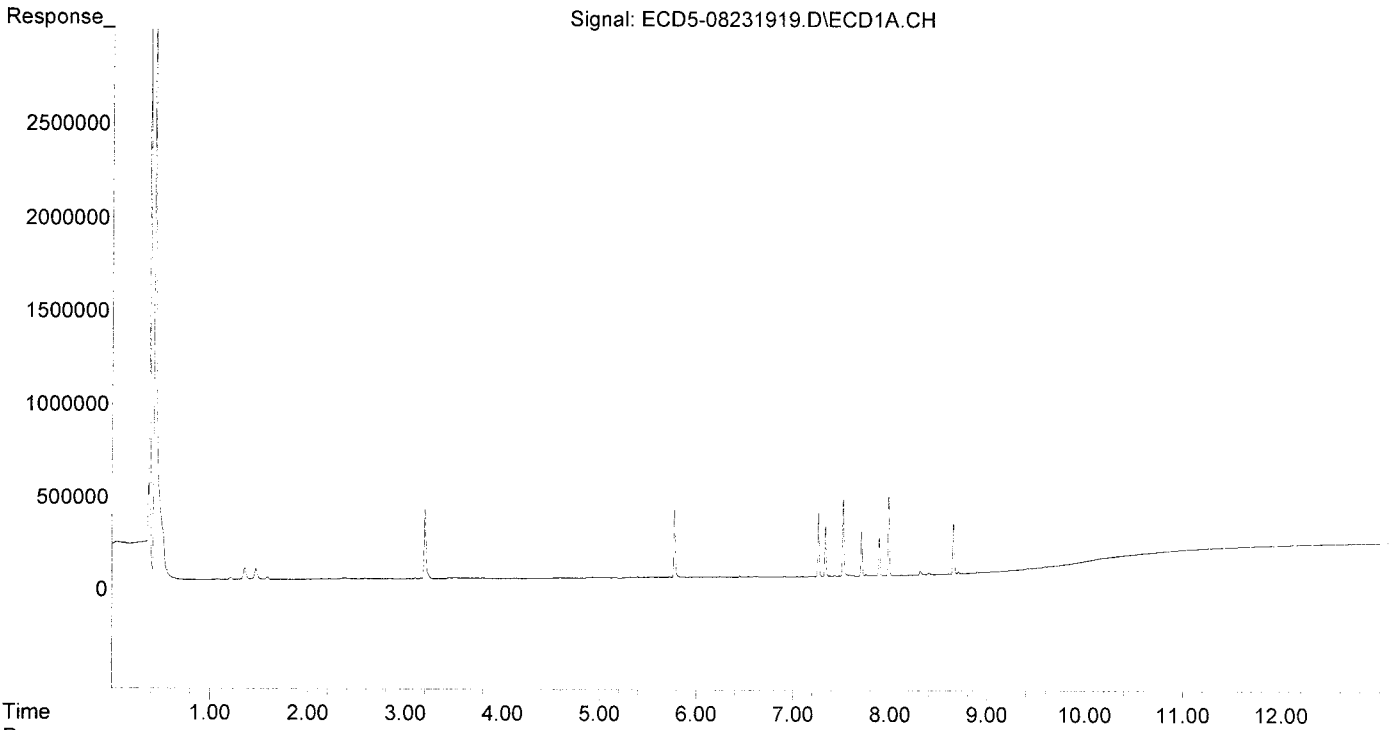
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3) g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4) b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6) d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8) Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9) trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10) cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12) 4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13) Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14) Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15) 4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17) 4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18) Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20) Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21) Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23) Hexachlor...	3.198	3.687	375794	754548	2.521	2.400
24) Hexachlor...	5.775	6.453	362082	632830	2.948	2.823
25) Oxychlordane	7.262	7.921	339370	541023	2.617	2.571
26) 2,4'-DDE	7.334	8.123	265212	411812	2.822	2.639
27) trans-Non...	7.518	8.194	415126	587765	2.896	2.559
28) 2,4'-DDD	7.707	8.495	233089	373596	2.789	2.741
29) 2,4'-DDT	7.889	8.718	204209	332170	2.725	2.614
30) cis-Nonac...	7.986	8.758	423442	624783	2.632	2.460
31) Mirex	8.655	9.680	266770	388199	2.725	2.697
32) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231919.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 17:01
Operator : MJB
Sample : 9H23034-CALA
Misc : A19E273, 9-42 2 ppb
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 26 11:24:10 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:22:42 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
 Data File : ECD5-08231920.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 23 Aug 2019 17:18
 Operator : MJB
 Sample : 9H23034-CALB
 Misc : A19E274, 9-42 5 ppb
 ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Aug 26 11:24:43 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:22:42 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 8/26/19

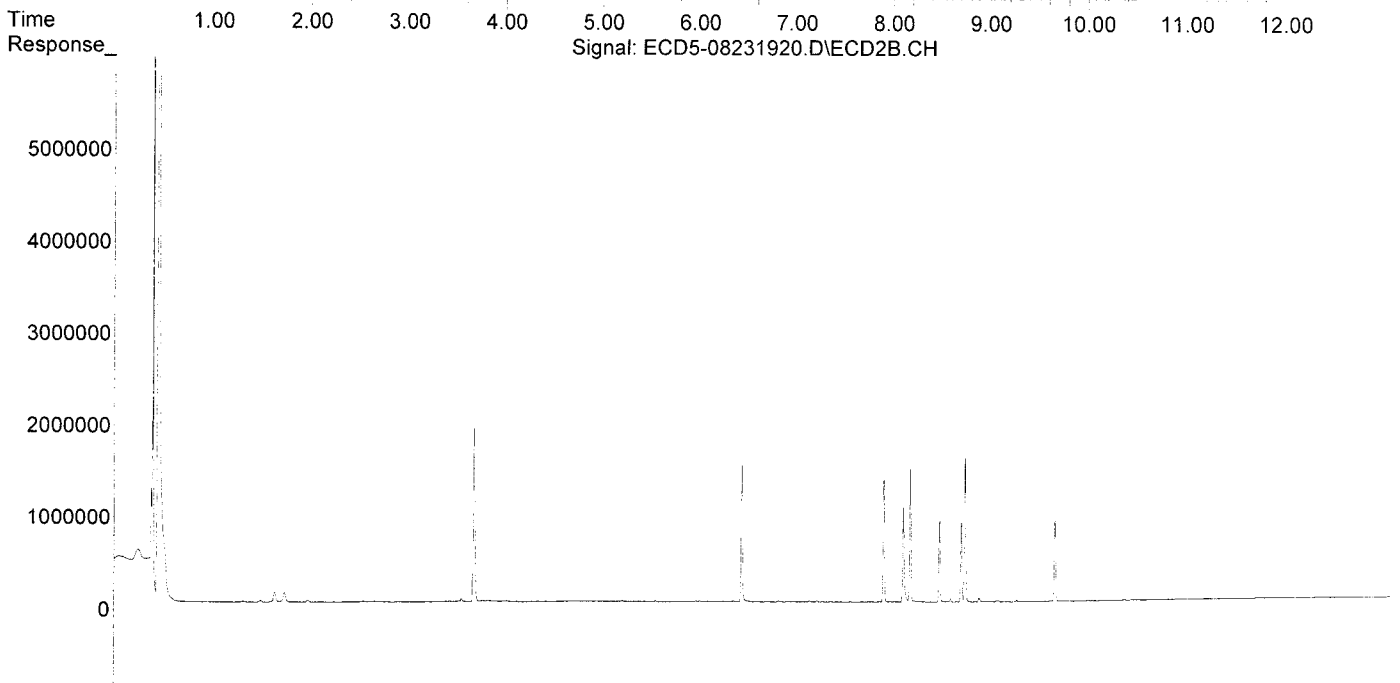
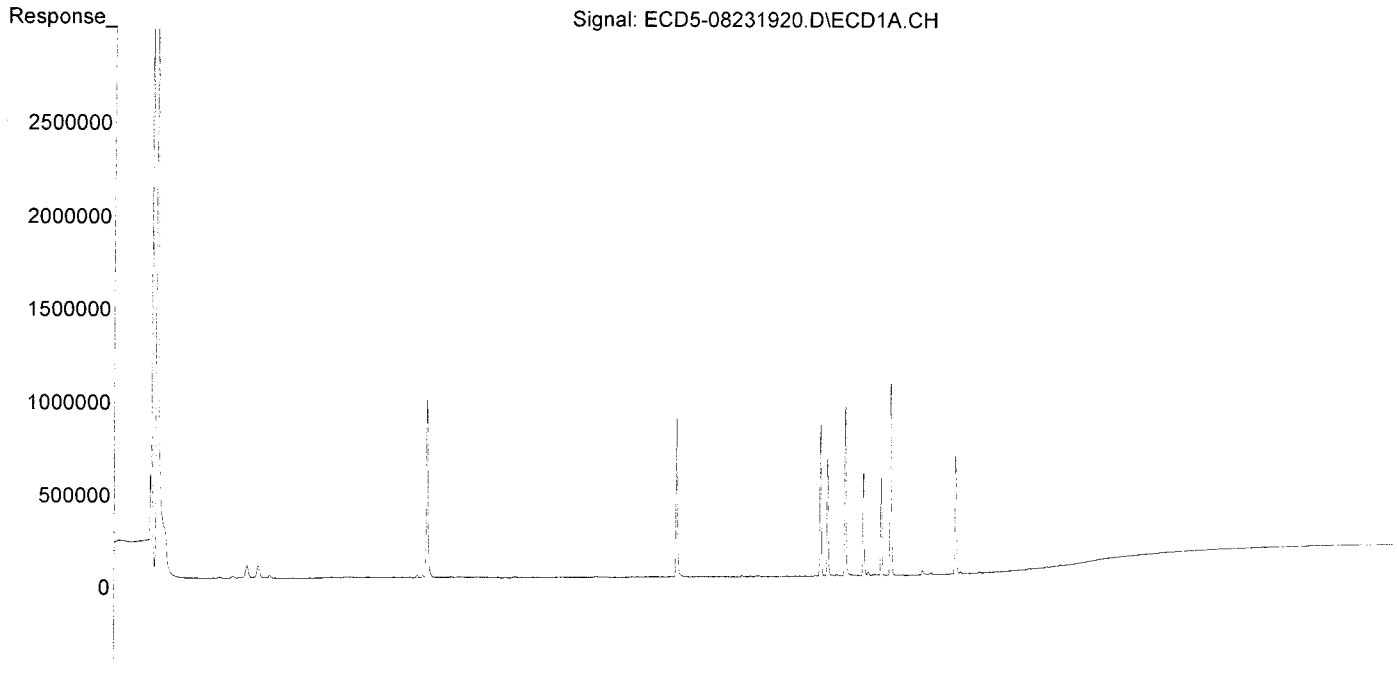
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3) g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4) b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6) d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8) Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9) trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10) cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12) 4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13) Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14) Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15) 4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17) 4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18) Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20) Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21) Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23) Hexachlor...	3.198	3.687	959211	1877484	6.435	5.971
24) Hexachlor...	5.775	6.453	853793	1485583	6.951	6.626
25) Oxychlordane	7.262	7.921	819748	1325543	6.321	6.298
26) 2,4'-DDE	7.334	8.123	633168	1029687	6.738	6.600
27) trans-Non...	7.518	8.194	933222	1467723	6.510	6.390
28) 2,4'-DDD	7.705	8.495	560942	898697	6.711	6.593
29) 2,4'-DDT	7.889	8.719	536967	873074	6.892	6.802
30) cis-Nonac...	7.986	8.759	1025899	1587243	6.376	6.249
31) Mirex	8.654	9.679	628618	895523	6.422	6.222
32) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231920.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 17:18
Operator : MJB
Sample : 9H23034-CALB
Misc : A19E274, 9-42 5 ppb
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 26 11:24:43 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:22:42 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
 Data File : ECD5-08231921.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 23 Aug 2019 17:35
 Operator : MJB
 Sample : 9H23034-CALC
 Misc : A19E275, 9-42 10 ppb
 ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Aug 26 11:25:17 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:22:42 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 8/26/19

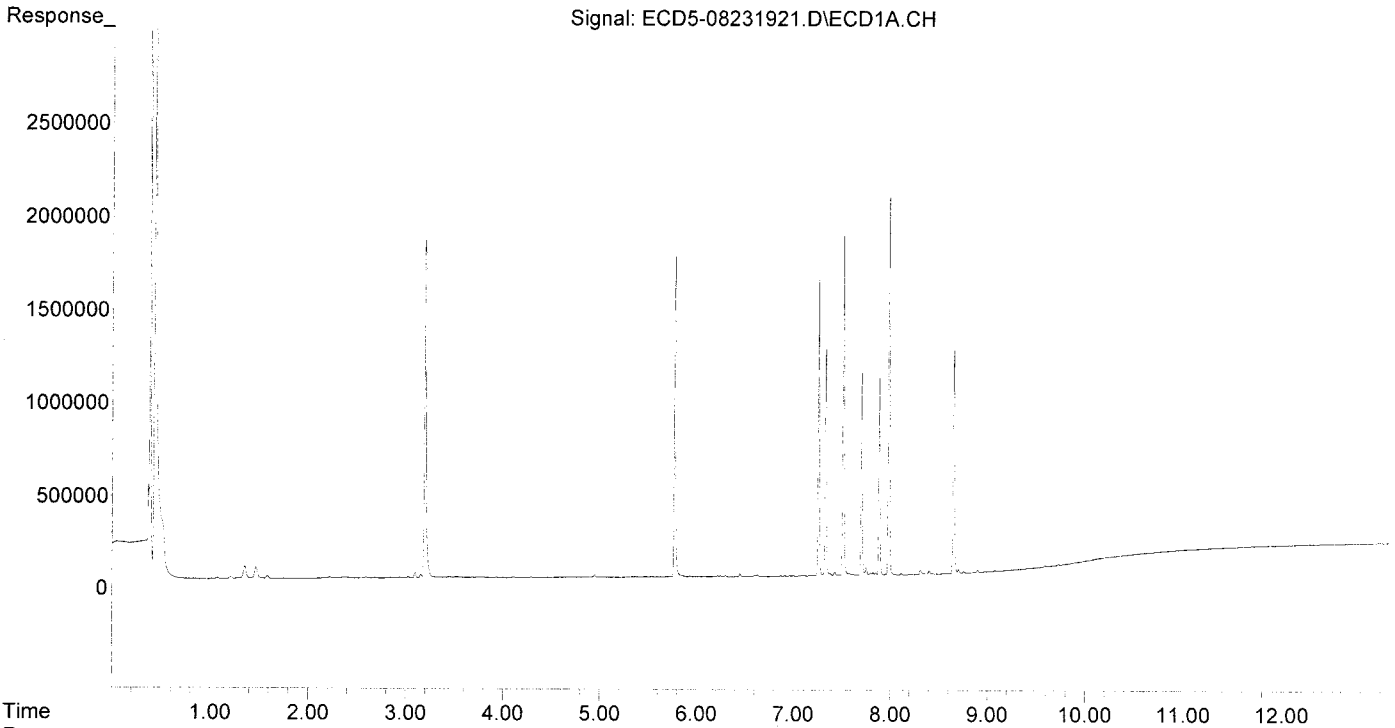
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3) g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4) b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6) d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8) Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9) trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10) cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12) 4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13) Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14) Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15) 4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17) 4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18) Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20) Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21) Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23) Hexachlor...	3.198	3.687	1838187	3701532	12.333	11.773
24) Hexachlor...	5.774	6.453	1711884	2936294	13.936	13.097
25) Oxychlordane	7.261	7.921	1591613	2538903	12.272	12.063
26) 2,4'-DDE	7.333	8.122	1245265	2018331	13.252	12.936
27) trans-Non...	7.516	8.194	1817552	2844404	12.679	12.384
28) 2,4'-DDD	7.705	8.495	1103587	1778790	13.203	13.050
29) 2,4'-DDT	7.888	8.719	1051565	1702568	13.249	13.099
30) cis-Nonac...	7.986	8.759	2032010	3148054	12.629	12.394
31) Mirex	8.654	9.679	1196365	1722960	12.222	11.971
32) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231921.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 17:35
Operator : MJB
Sample : 9H23034-CALC
Misc : A19E275, 9-42 10 ppb
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 26 11:25:17 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:22:42 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
 Data File : ECD5-08231922.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 23 Aug 2019 17:53
 Operator : MJB
 Sample : 9H23034-CALD
 Misc : A19E276, 9-42 25 ppb
 ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Aug 26 11:25:49 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:22:42 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB
8/26/19

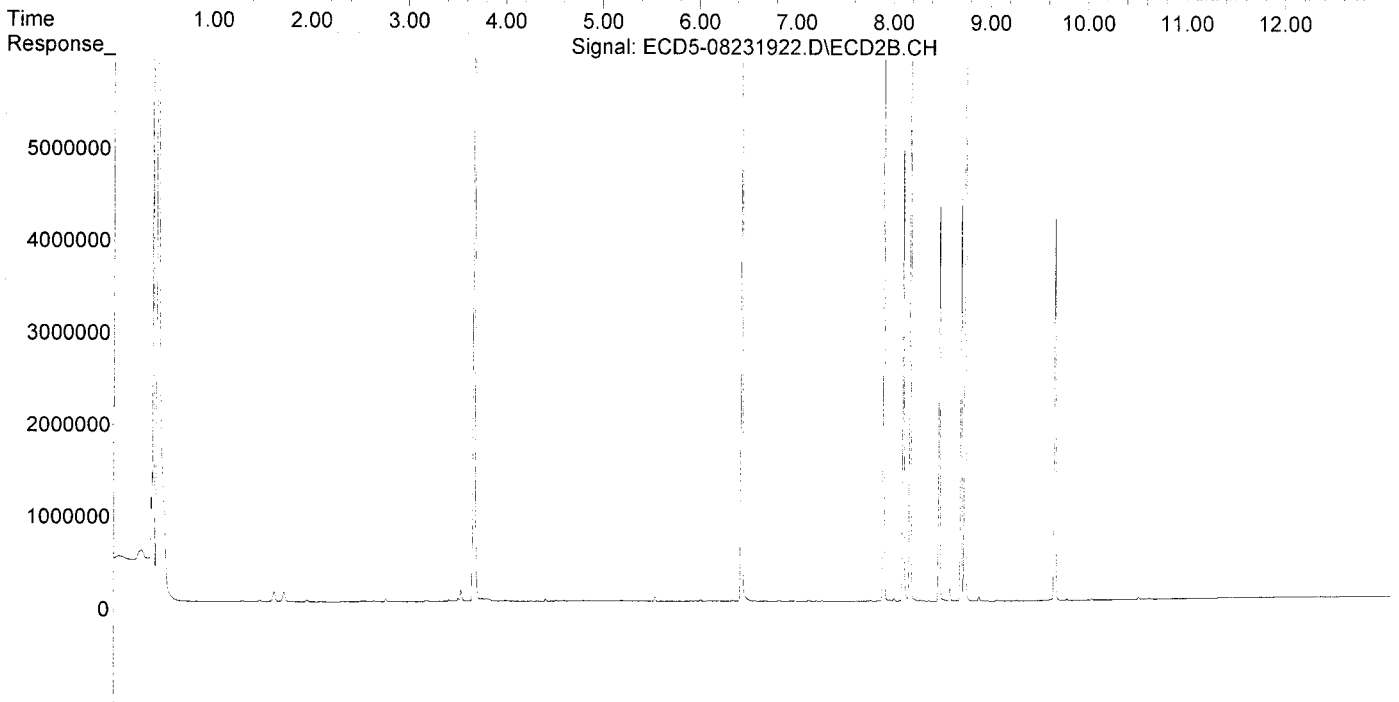
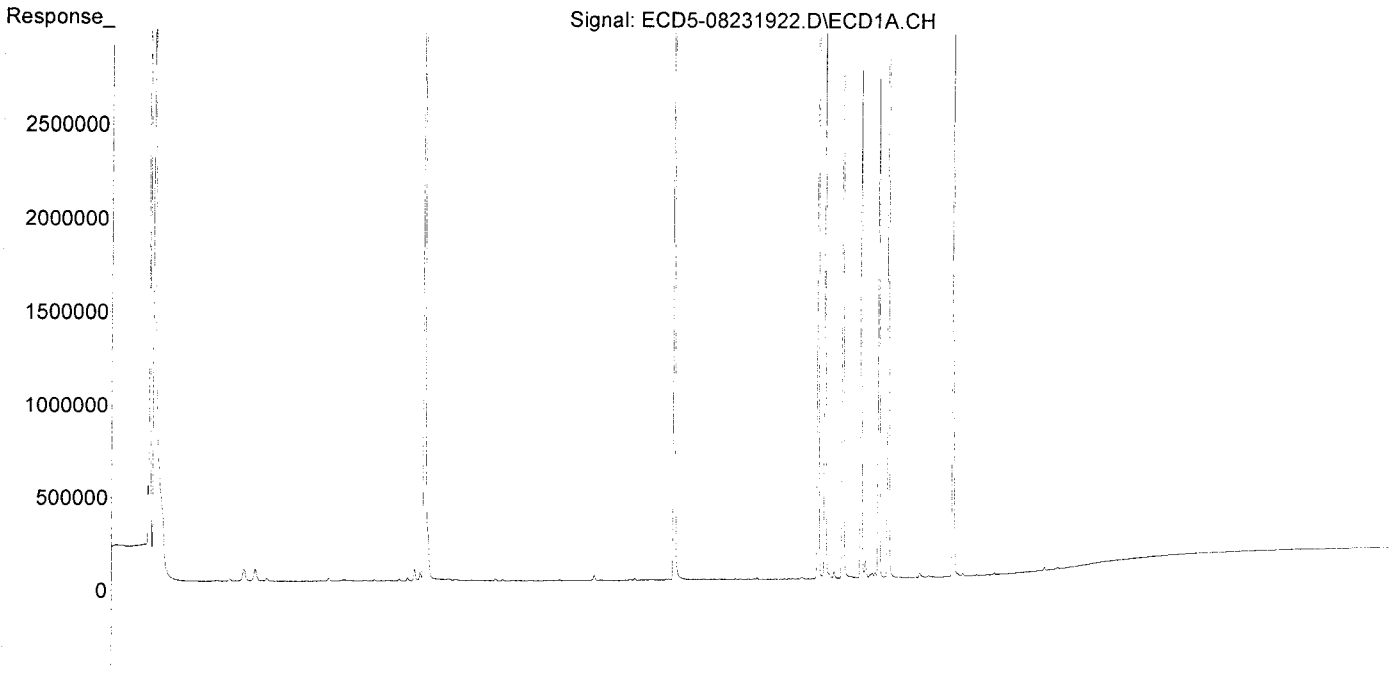
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3) g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4) b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6) d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8) Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9) trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10) cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12) 4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13) Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14) Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15) 4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17) 4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18) Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20) Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21) Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23) Hexachlor...	3.198	3.687	4363988	8892238	29.278	28.282
24) Hexachlor...	5.774	6.453	4184551	7416324	34.066	33.080
25) Oxychlordane	7.261	7.920	3881255	6202791	29.926	29.471
26) 2,4'-DDE	7.333	8.122	3059421	4999232	32.558	32.042
27) trans-Non...	7.516	8.194	4391046	7092288	30.631	30.877
28) 2,4'-DDD	7.705	8.495	2745178	4389185	32.844	32.200
29) 2,4'-DDT	7.888	8.719	2728794	4405554	33.278	32.676
30) cis-Nonac...	7.986	8.759	4993110	8219393	31.032	32.361
31) Mirex	8.654	9.679	2910818	4138115	29.738	28.753
32) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231922.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 17:53
Operator : MJB
Sample : 9H23034-CALD
Misc : A19E276, 9-42 25 ppb
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 26 11:25:49 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:22:42 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
 Data File : ECD5-08231923.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 23 Aug 2019 18:10
 Operator : MJB
 Sample : 9H23034-CALE
 Misc : A19E154, 9-42 50 ppb
 ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Aug 26 11:22:32 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 10:58:24 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 8/26/19

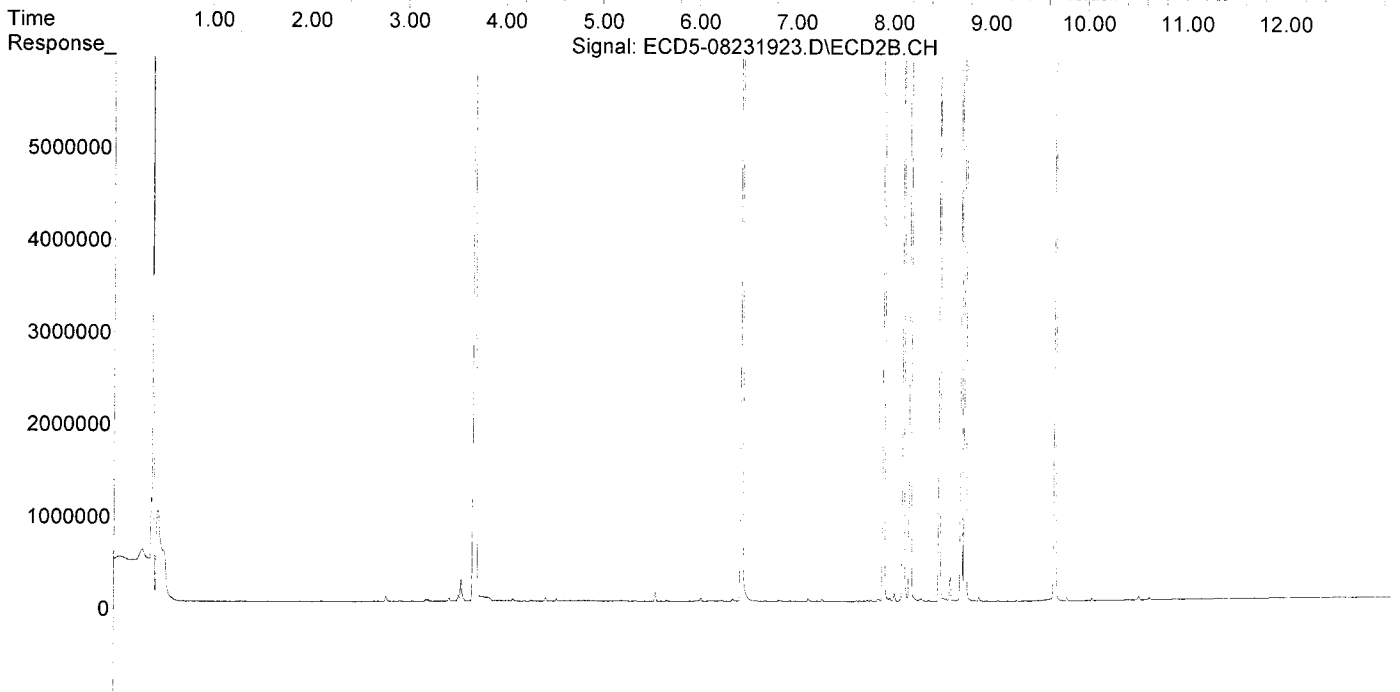
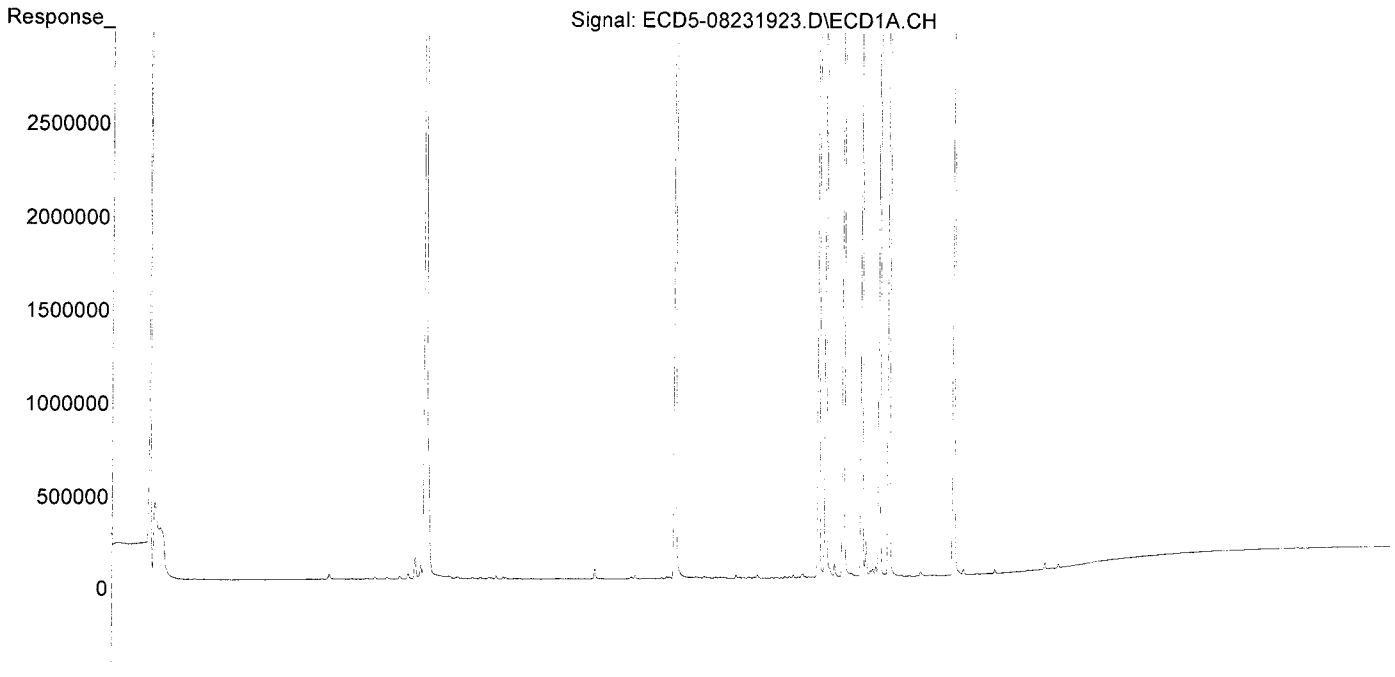
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3) g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4) b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6) d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8) Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9) trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10) cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12) 4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13) Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14) Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15) 4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17) 4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18) Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20) Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21) Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23) Hexachlor...	3.198	3.688	8761747	18635615	58.783	59.271
24) Hexachlor...	5.774	6.454	8911624	16094159	72.549	71.786
25) Oxychlordane	7.261	7.920	8382873	14172543	64.636	67.337
26) 2,4'-DDE	7.333	8.122	6510588	11006400	69.284	70.544
27) trans-Non...	7.516	8.194	9581794	15807712	66.841	68.821
28) 2,4'-DDD	7.705	8.495	5920095	9924934	70.829	72.811
29) 2,4'-DDT	7.888	8.718	5687323	8810591	66.398	62.033
30) cis-Nonac...	7.985	8.758	10616019	17721229	65.978	69.771
31) Mirex	8.652	9.679	6218341	9100959	67.528	63.235
32) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231923.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 18:10
Operator : MJB
Sample : 9H23034-CALE
Misc : A19E154, 9-42 50 ppb
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 26 11:22:32 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 10:58:24 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
 Data File : ECD5-08231924.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 23 Aug 2019 18:27
 Operator : MJB
 Sample : 9H23034-CALF
 Misc : A19E155, 9-42 100 ppb
 ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Aug 26 11:26:27 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:22:42 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 8/26/19

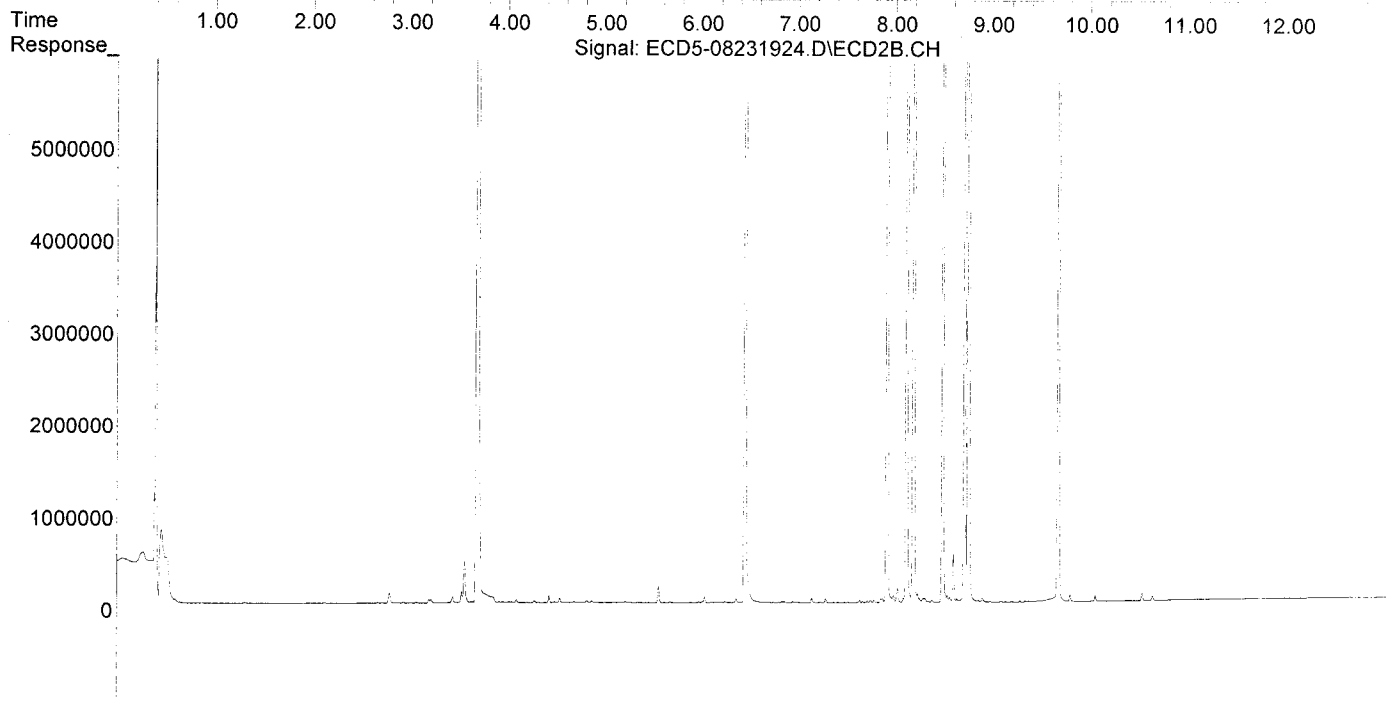
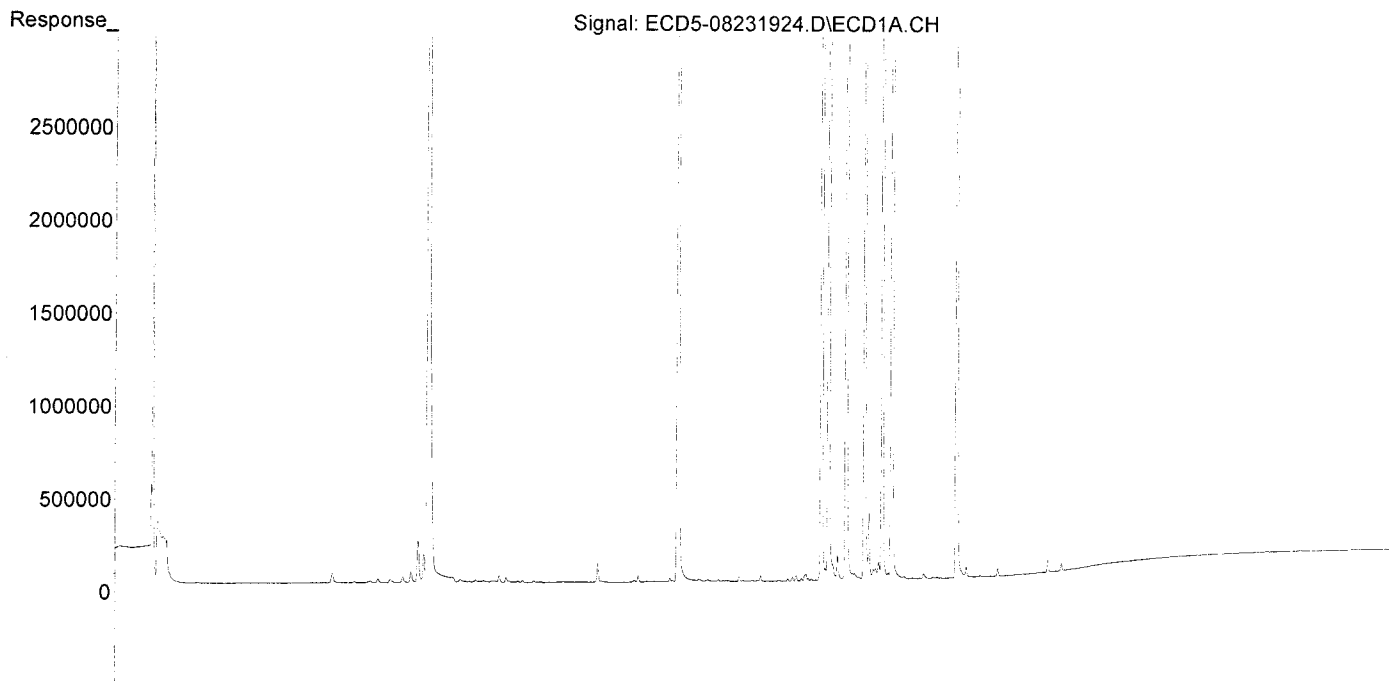
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3) g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4) b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6) d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8) Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9) trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10) cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12) 4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13) Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14) Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15) 4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17) 4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18) Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20) Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21) Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23) Hexachlor...	3.199	3.690	17952134	39298885	120.443	124.991
24) Hexachlor...	5.776	6.455	17670025	32766708	143.851	146.152
25) Oxychlordane	7.261	7.922	16359215	29732149	126.137	141.263
26) 2,4'-DDE	7.334	8.123	12769067	22164400	135.886	142.059
27) trans-Non...	7.516	8.195	18351251	31975271	128.015	139.210
28) 2,4'-DDD	7.705	8.496	11587554	20118925	138.635	147.597
29) 2,4'-DDT	7.888	8.721	11771354	18998968	127.689	121.350
30) cis-Nonac...	7.986	8.760	20932641	36072644	130.096	142.024
31) Mirex	8.653	9.680	11960753	19363200	122.194	134.540
32) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231924.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 18:27
Operator : MJB
Sample : 9H23034-CALF
Misc : A19E155, 9-42 100 ppb
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 26 11:26:27 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:22:42 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
 Data File : ECD5-08231925.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 23 Aug 2019 18:45
 Operator : MJB
 Sample : 9H23034-CALG
 Misc : A19E271, 9-42 200 ppb
 ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Aug 26 11:27:05 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:22:42 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB
8/26/19

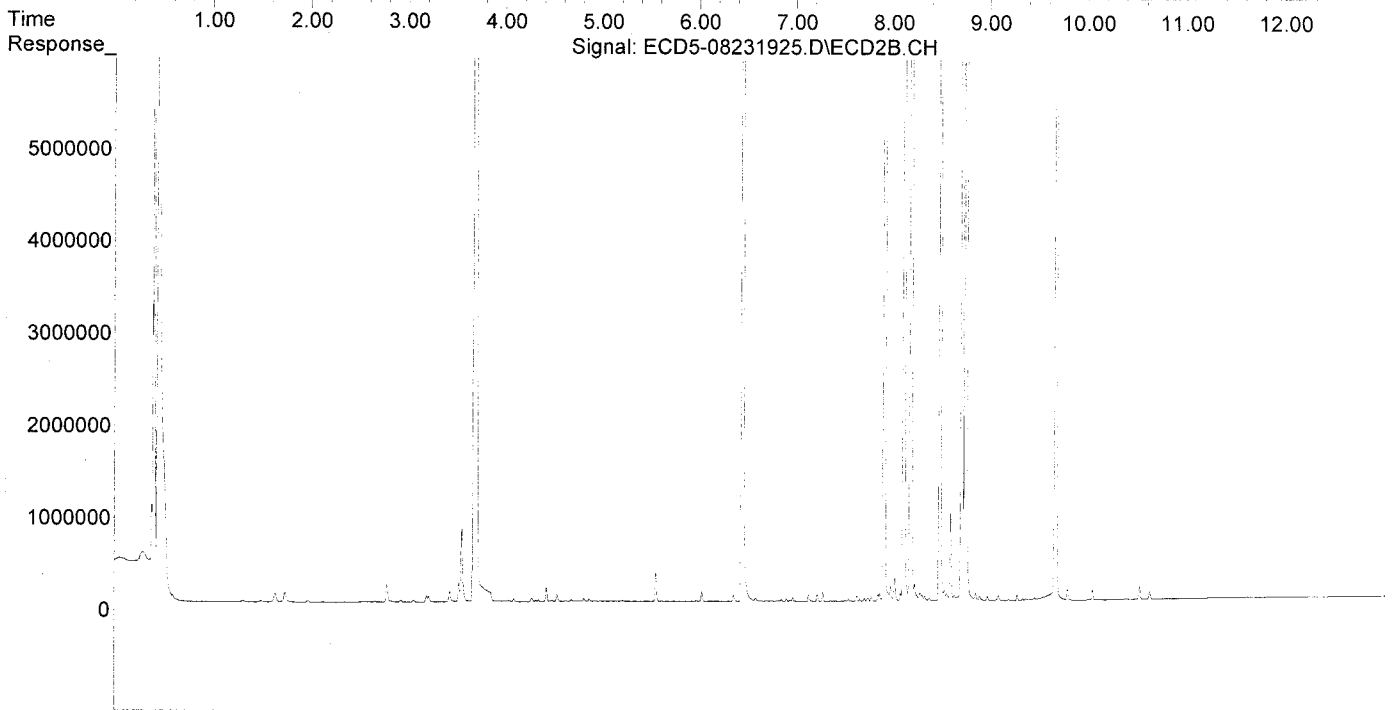
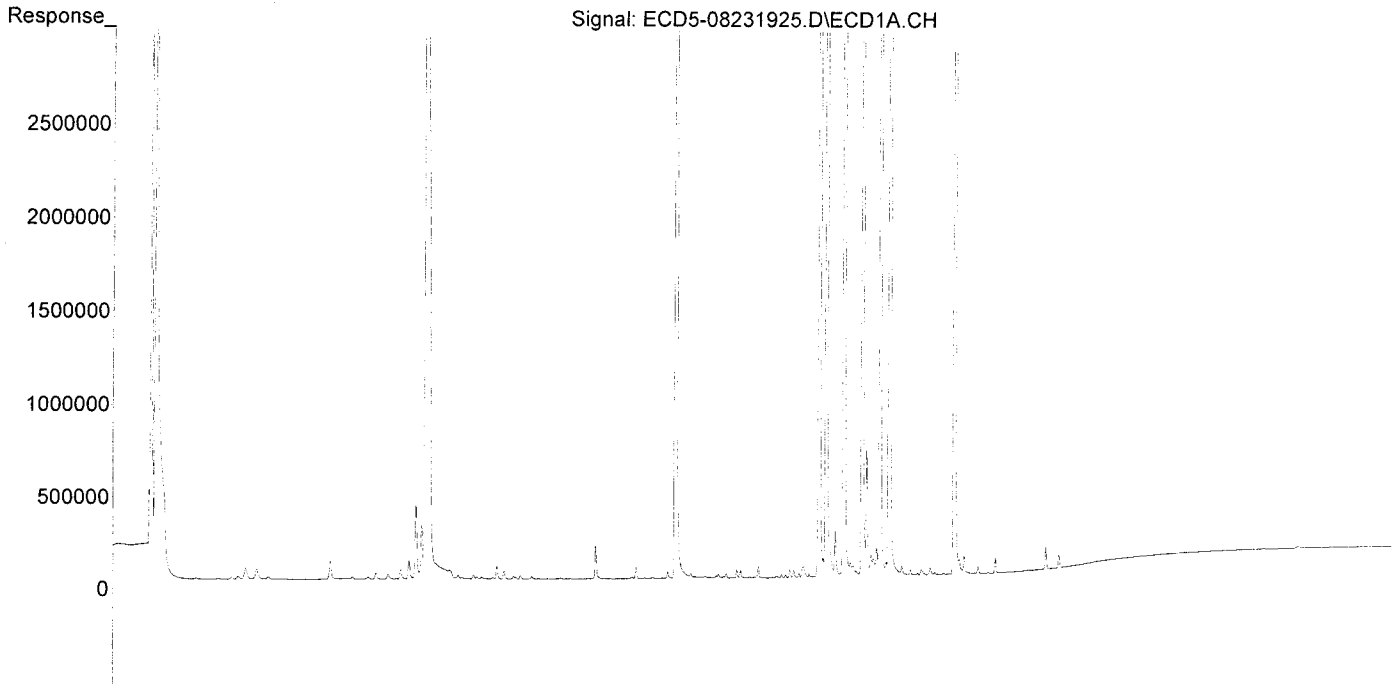
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3) g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4) b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6) d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8) Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9) trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10) cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12) 4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13) Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14) Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15) 4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17) 4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18) Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20) Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21) Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23) Hexachlor...	3.199	3.689	34166533	75988565	229.227	241.683
24) Hexachlor...	5.774	6.454	34073459	66261966	277.392	295.553
25) Oxychlordane	7.258	7.920	32032634	58736982	246.986	279.071
26) 2,4'-DDE	7.331	8.122	24819199	44504592	264.121	285.245
27) trans-Non...	7.514	8.194	35027918	63083636	244.348	274.645
28) 2,4'-DDD	7.703	8.494	21916962	39839303	262.217	292.269
29) 2,4'-DDT	7.887	8.719	23024956	39999231	224.761	221.024
30) cis-Nonac...	7.984	8.759	40046185	72455823	248.887	285.271
31) Mirex	8.652	9.679	23284997	38425530	237.885	266.989
32) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231925.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 18:45
Operator : MJB
Sample : 9H23034-CALG
Misc : A19E271, 9-42 200 ppb
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 26 11:27:05 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:22:42 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : R:\data\2019-08\9H23034\
 Data File : ECD5-08231928.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 23 Aug 2019 19:36
 Operator : MJB
 Sample : 9H23034-CALH
 Misc : A19F232, CHLOR 50 ppb
 ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Aug 26 11:31:56 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:29:20 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJP 8/26/19

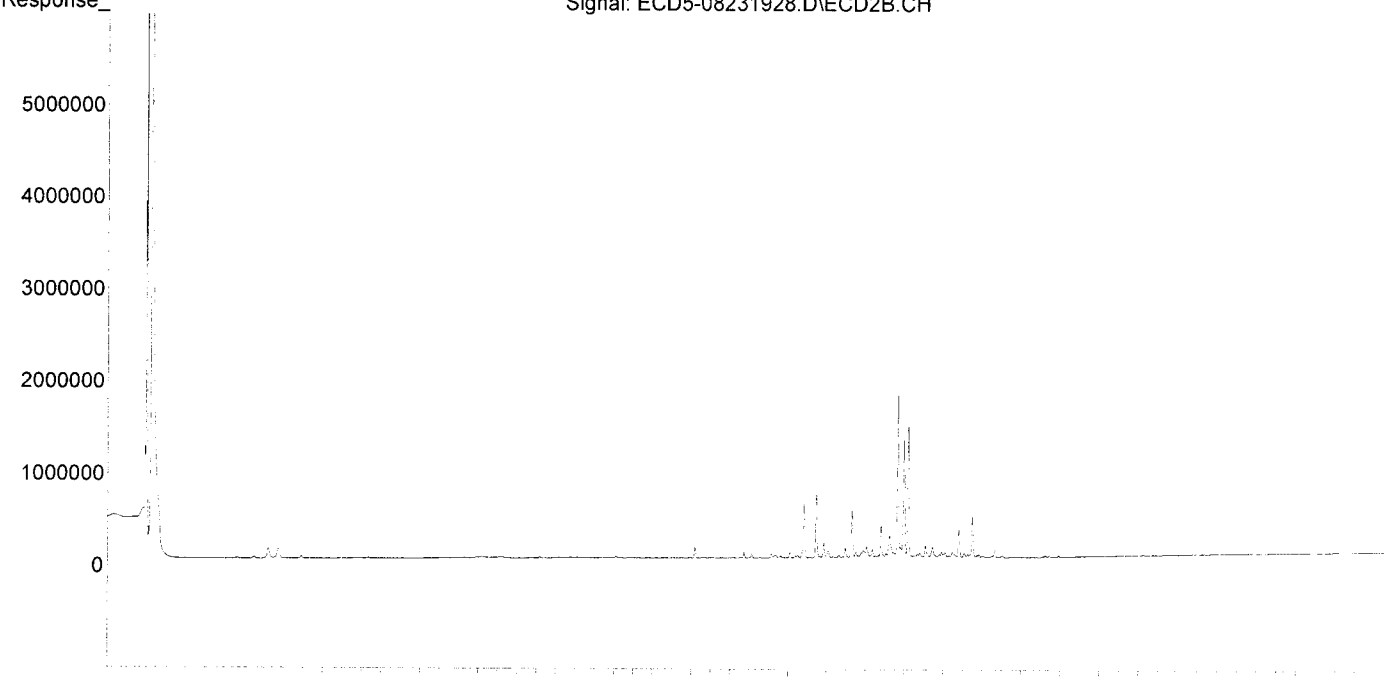
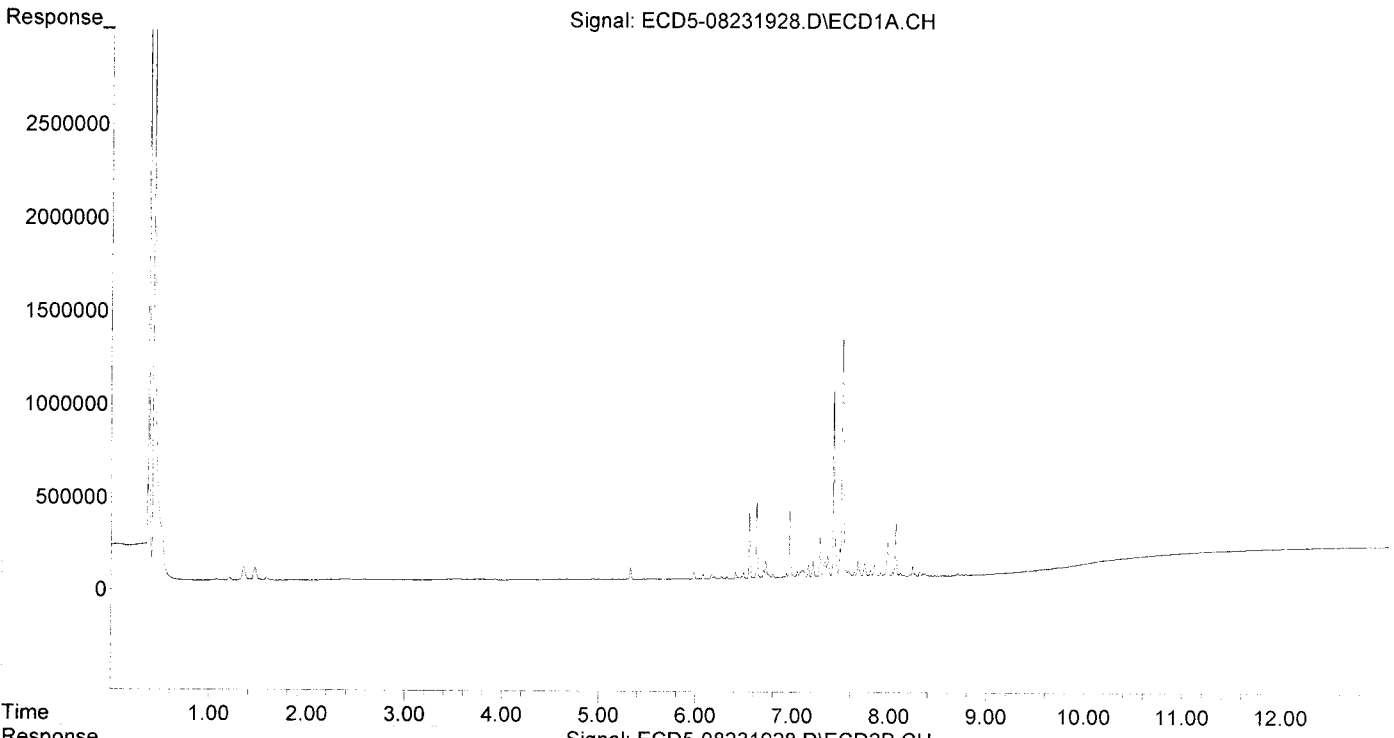
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3) g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4) b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6) d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8) Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9) trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10) cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12) 4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13) Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14) Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15) 4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17) 4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18) Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20) Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21) Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25) Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d
26) 2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27) trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28) 2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29) 2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30) cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31) Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32) Chlordane...	7.429	8.131	1009143	1754707	65.443	66.784
33) Chlordane...	7.521	8.237	1286655	1472400	62.192	67.669
34) Chlordane...	8.068	8.897	288087	439020	60.282	67.059
35) Chlordane...	3.446	0.000	5365	0	NoCal	N.D.
36) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231928.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 19:36
Operator : MJB
Sample : 9H23034-CALH
Misc : A19F232, CHLOR 50 ppb
ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 26 11:31:56 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:29:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
 Data File : ECD5-08231929.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 23 Aug 2019 19:54
 Operator : MJB
 Sample : 9H23034-CALI
 Misc : A19F233, CHLOR 100 ppb
 ALS Vial : 23 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Aug 26 11:32:31 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:29:20 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 8/26/19

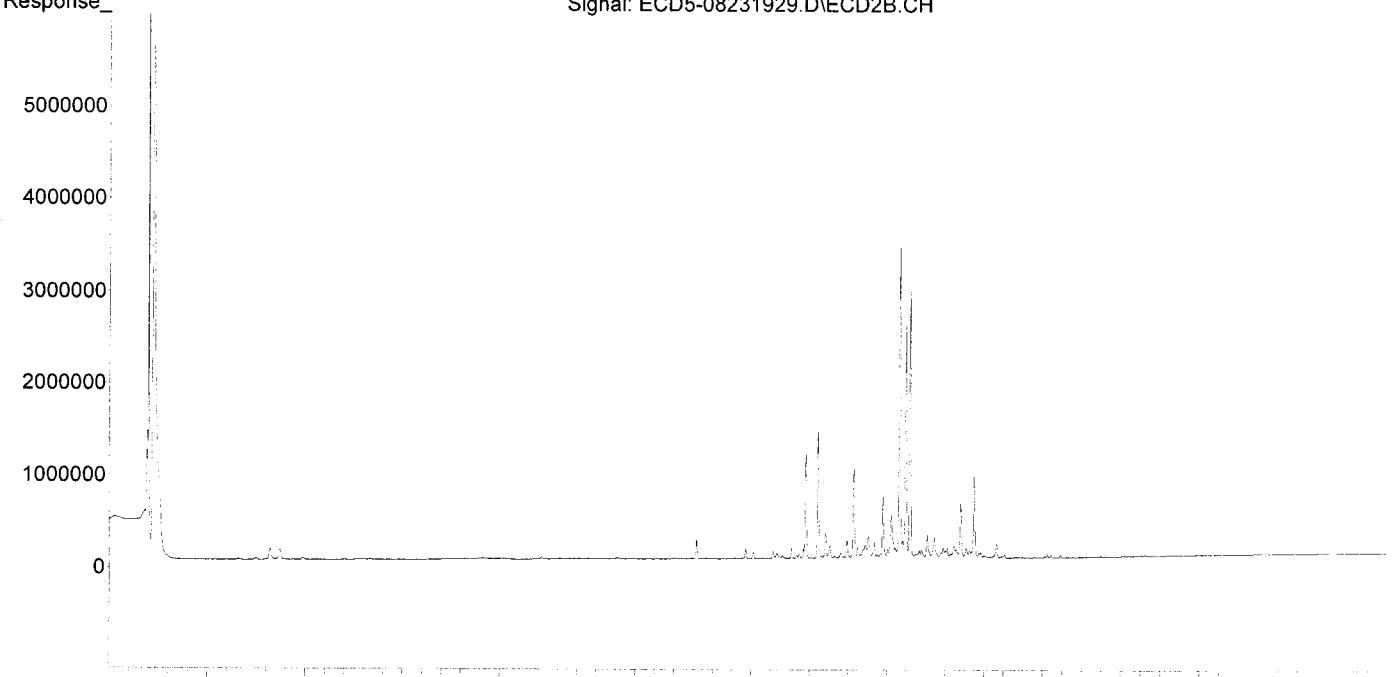
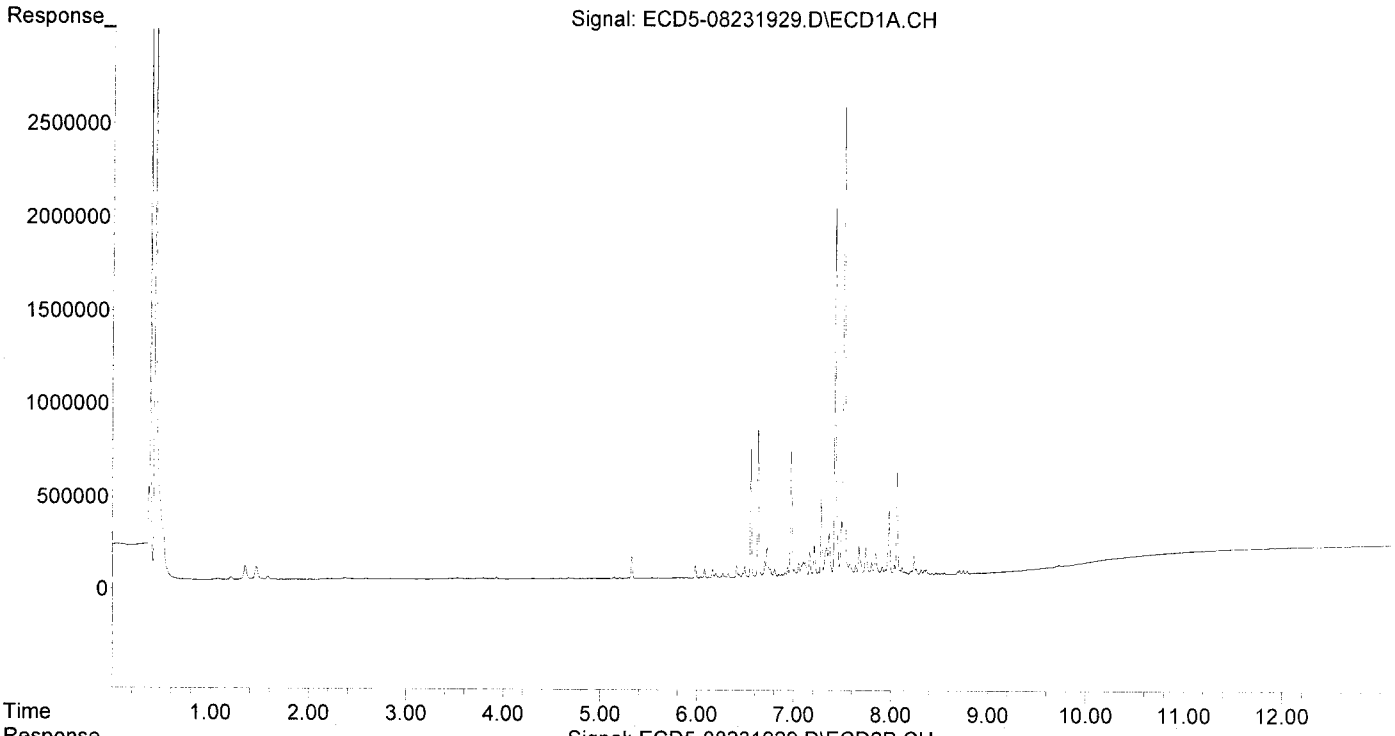
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3) g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4) b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6) d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8) Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9) trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10) cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12) 4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13) Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14) Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15) 4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17) 4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18) Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20) Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21) Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25) Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d
26) 2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27) trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28) 2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29) 2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30) cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31) Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32) Chlordane...	7.429	8.130	1978897	3378388	128.331	127.866
33) Chlordane...	7.521	8.238	2519520	2905941	121.784	133.934
34) Chlordane...	8.068	8.898	548196	874465	114.710	133.920
35) Chlordane...	3.446	0.000	4938	0	NoCal	N.D.
36) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231929.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 19:54
Operator : MJB
Sample : 9H23034-CALI
Misc : A19F233, CHLOR 100 ppb
ALS Vial : 23 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 26 11:32:31 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:29:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
 Data File : ECD5-08231930.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 23 Aug 2019 20:11
 Operator : MJB
 Sample : 9H23034-CALJ
 Misc : A19F234, CHLOR 200 ppb
 ALS Vial : 24 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Aug 26 11:33:08 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:29:20 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 8/26/19

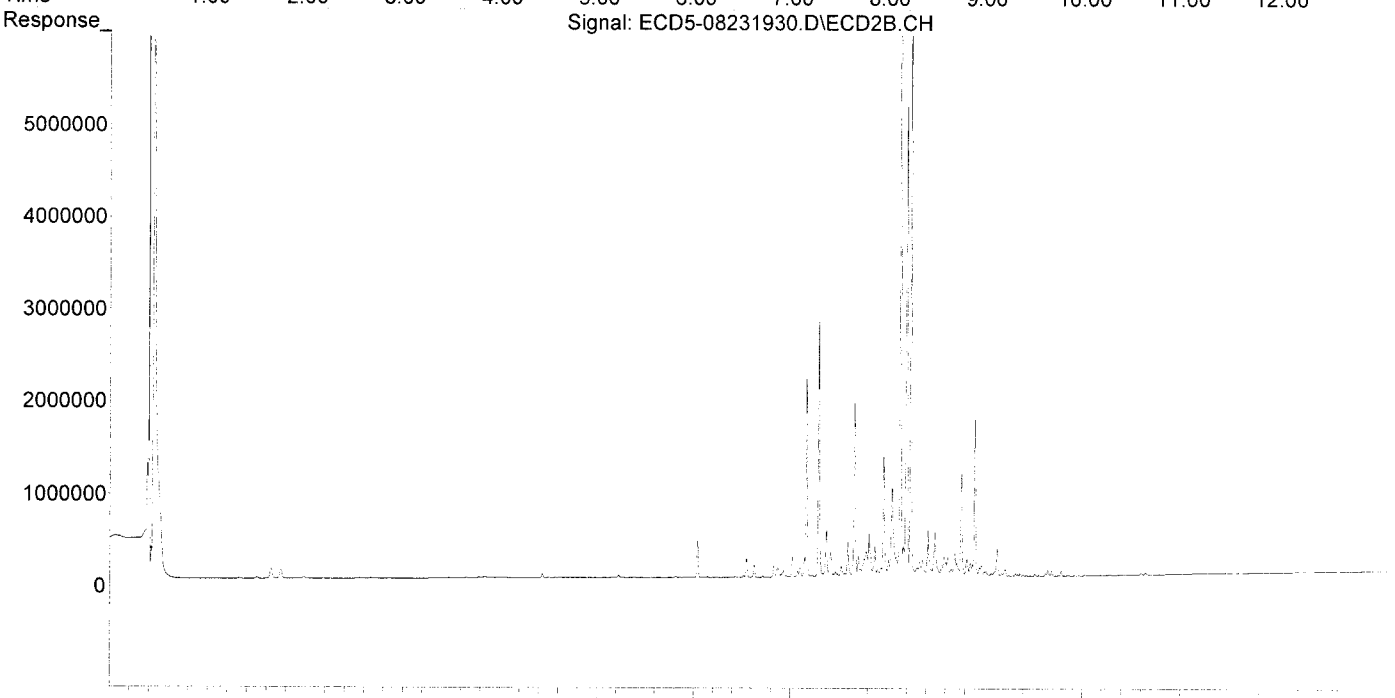
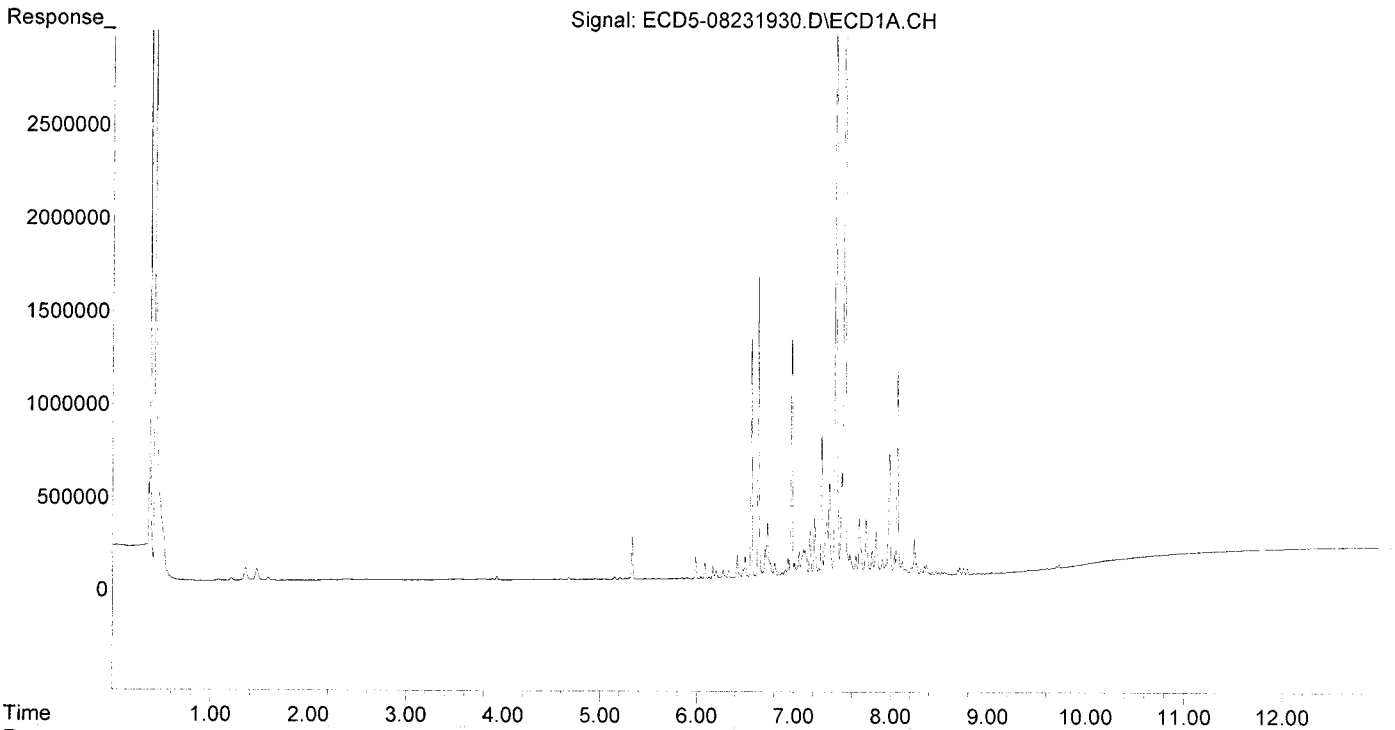
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3) g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4) b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6) d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8) Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9) trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10) cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12) 4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13) Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14) Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15) 4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17) 4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18) Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20) Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21) Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25) Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d
26) 2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27) trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28) 2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29) 2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30) cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31) Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32) Chlordane...	7.429	8.131	3849299	6751197	249.627	251.318
33) Chlordane...	7.522	8.239	4906320	5883615	237.153	267.927
34) Chlordane...	8.069	8.898	1101677	1731727	230.526	261.800
35) Chlordane...	3.448	0.000	4503	0	NoCal	N.D.
36) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231930.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 20:11
Operator : MJB
Sample : 9H23034-CALJ
Misc : A19F234, CHLOR 200 ppb
ALS Vial : 24 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 26 11:33:08 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:29:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
 Data File : ECD5-08231931.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 23 Aug 2019 20:28
 Operator : MJB
 Sample : 9H23034-CALK
 Misc : A19F235, CHLOR 500 ppb
 ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Aug 26 11:28:33 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:22:42 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB
 8/26/19

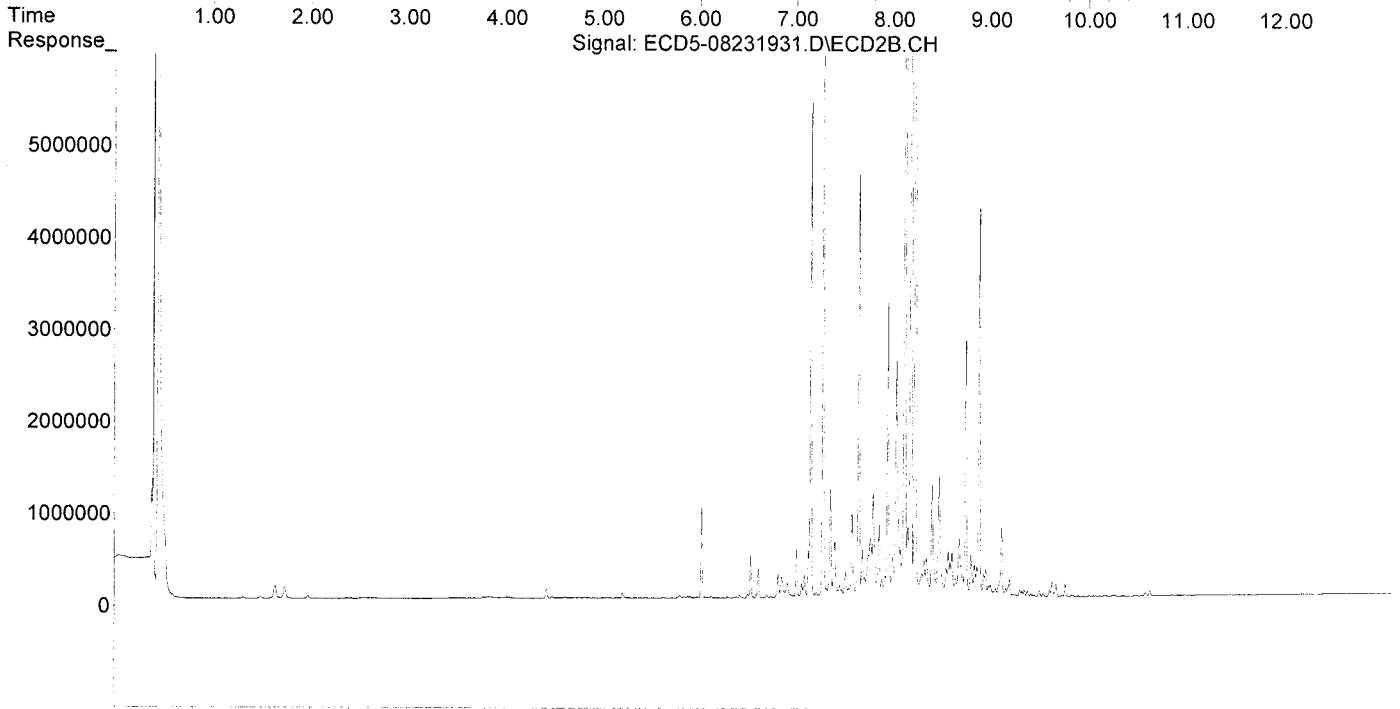
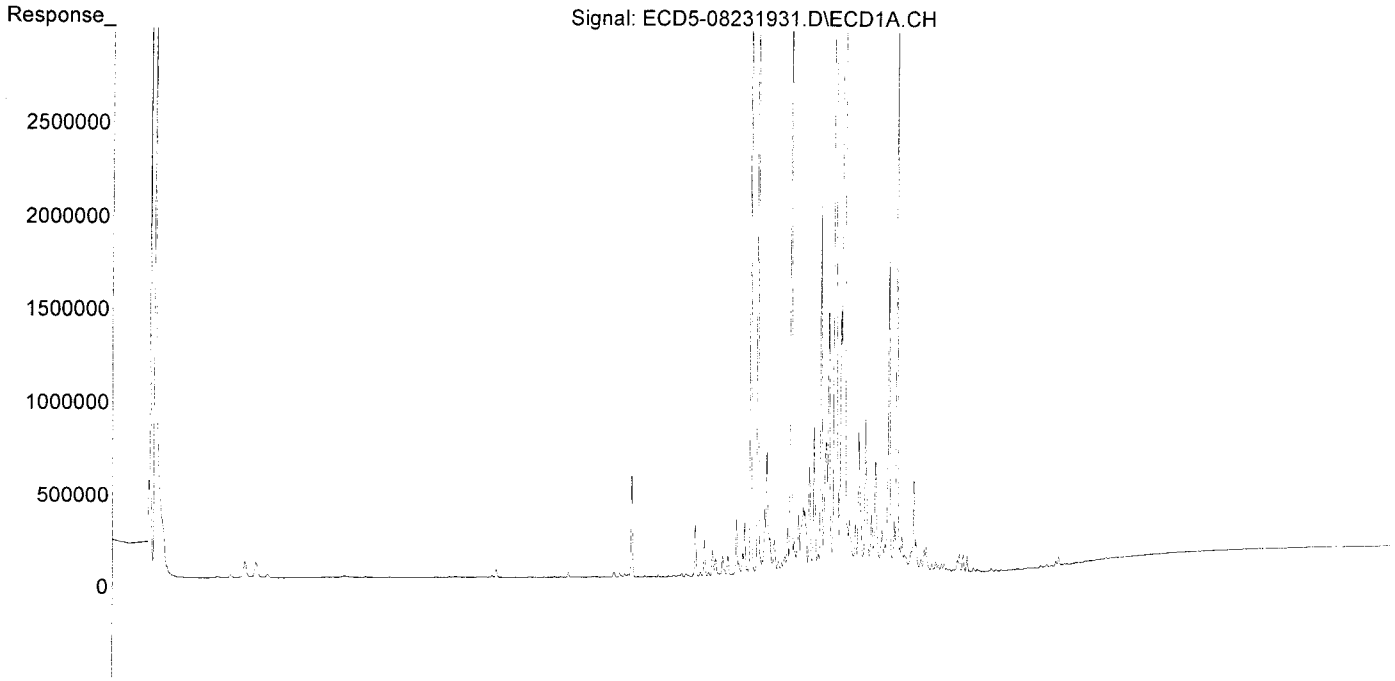
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3) g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4) b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6) d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8) Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9) trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10) cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12) 4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13) Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14) Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15) 4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17) 4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18) Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20) Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21) Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25) Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d
26) 2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27) trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28) 2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29) 2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30) cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31) Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32) Chlordane...	7.427	8.129	9628671	17830433	624.419	629.093
33) Chlordane...	7.520	8.237	12176524	14812273	588.567	644.287
34) Chlordane...	8.067	8.896	2921278	4271709	611.277	615.748
35) Chlordane...	3.447	0.000	4056	0	NoCal	N.D.
36) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231931.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 20:28
Operator : MJB
Sample : 9H23034-CALK
Misc : A19F235, CHLOR 500 ppb
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 26 11:28:33 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:22:42 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : R:\data\2019-08\9H23034\
 Data File : ECD5-08231932.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 23 Aug 2019 20:45
 Operator : MJB
 Sample : 9H23034-CALL
 Misc : A19F236, CHLOR 1000 ppb
 ALS Vial : 26 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Aug 26 11:33:36 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:22:42 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 8/26/19

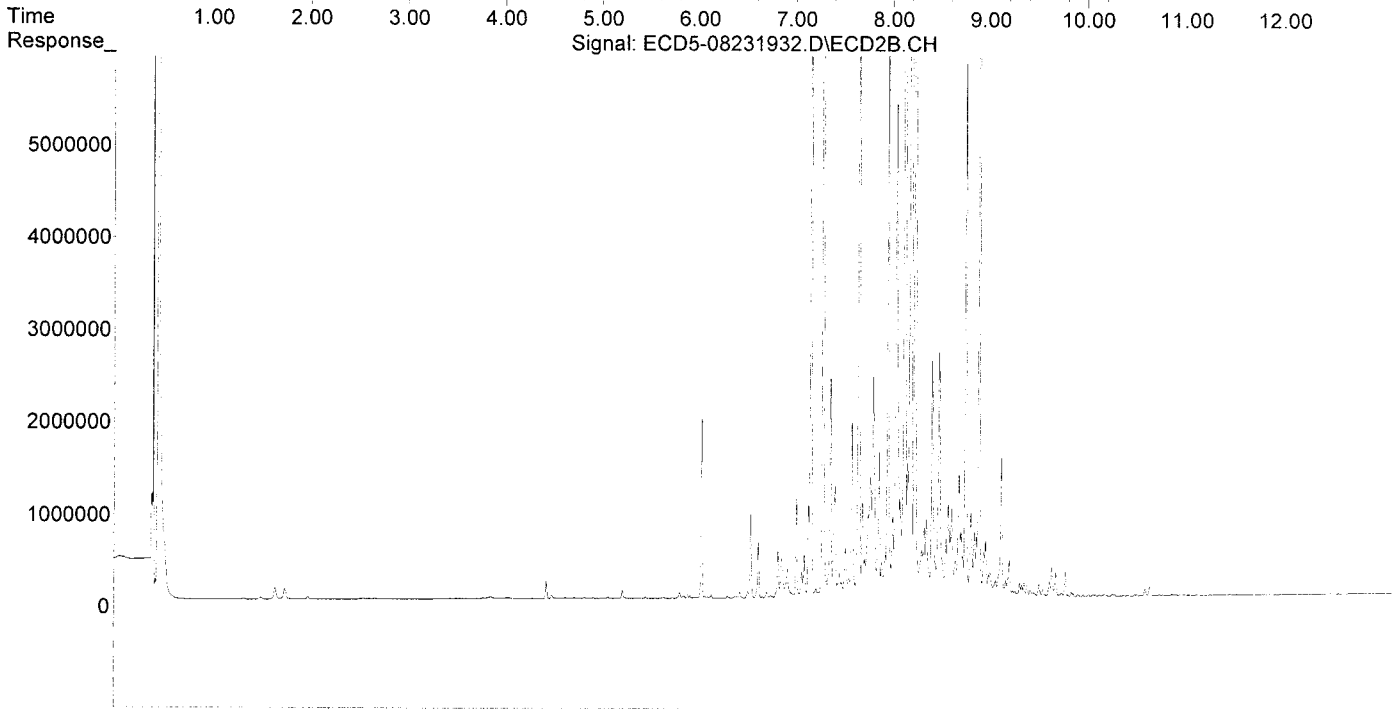
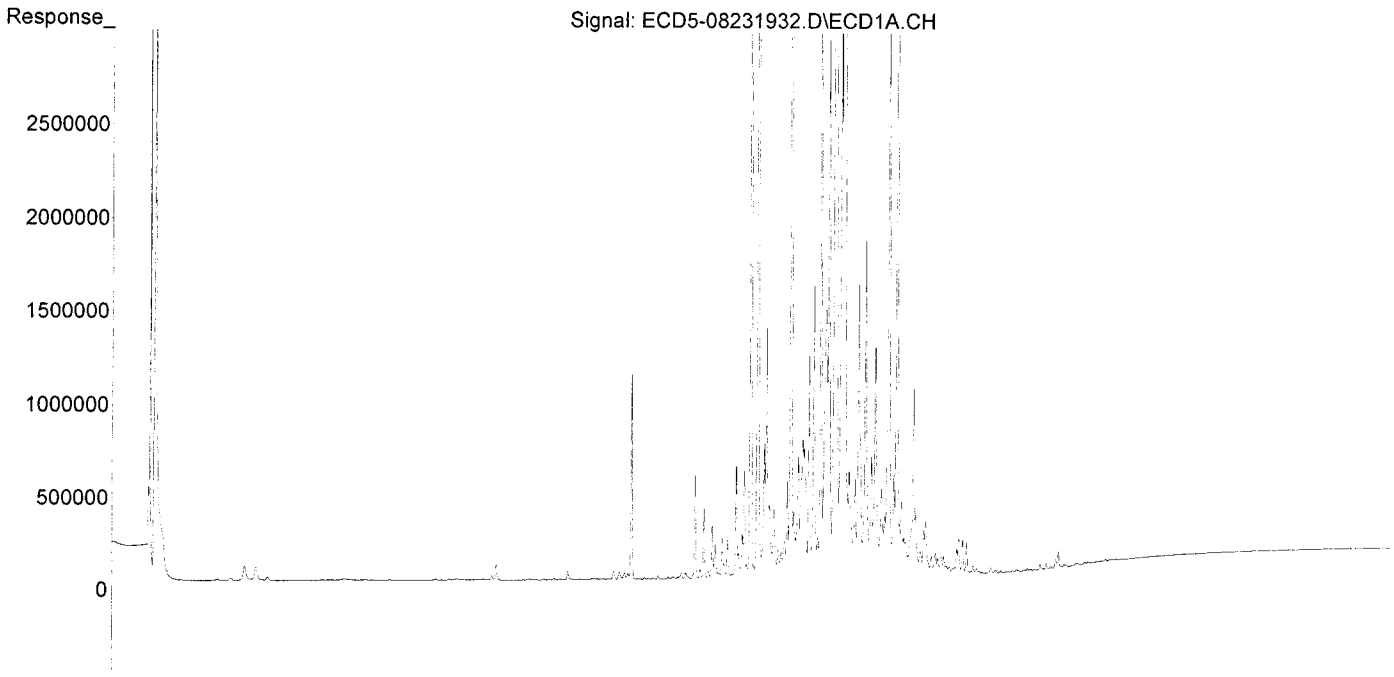
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3) g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4) b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6) d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8) Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9) trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10) cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12) 4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13) Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14) Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15) 4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17) 4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18) Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20) Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21) Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25) Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d
26) 2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27) trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28) 2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29) 2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30) cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31) Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32) Chlordane...	7.426	8.130	19643766	37966746	1273.898	1234.450
33) Chlordane...	7.519	8.237	25083239	31493677	1212.428	1269.749
34) Chlordane...	8.067	8.897	5987927	9358900	1252.974	1240.988
35) Chlordane...	3.447	0.000	4825	0	NoCal	N.D.
36) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231932.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 20:45
Operator : MJB
Sample : 9H23034-CALL
Misc : A19F236, CHLOR 1000 ppb
ALS Vial : 26 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 26 11:33:36 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:22:42 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
 Data File : ECD5-08231933.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 23 Aug 2019 21:02
 Operator : MJB
 Sample : 9H23034-CALM
 Misc : A19F231, CHLOR 2000 ppb
 ALS Vial : 27 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Aug 26 11:34:12 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:29:20 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 8/26/19

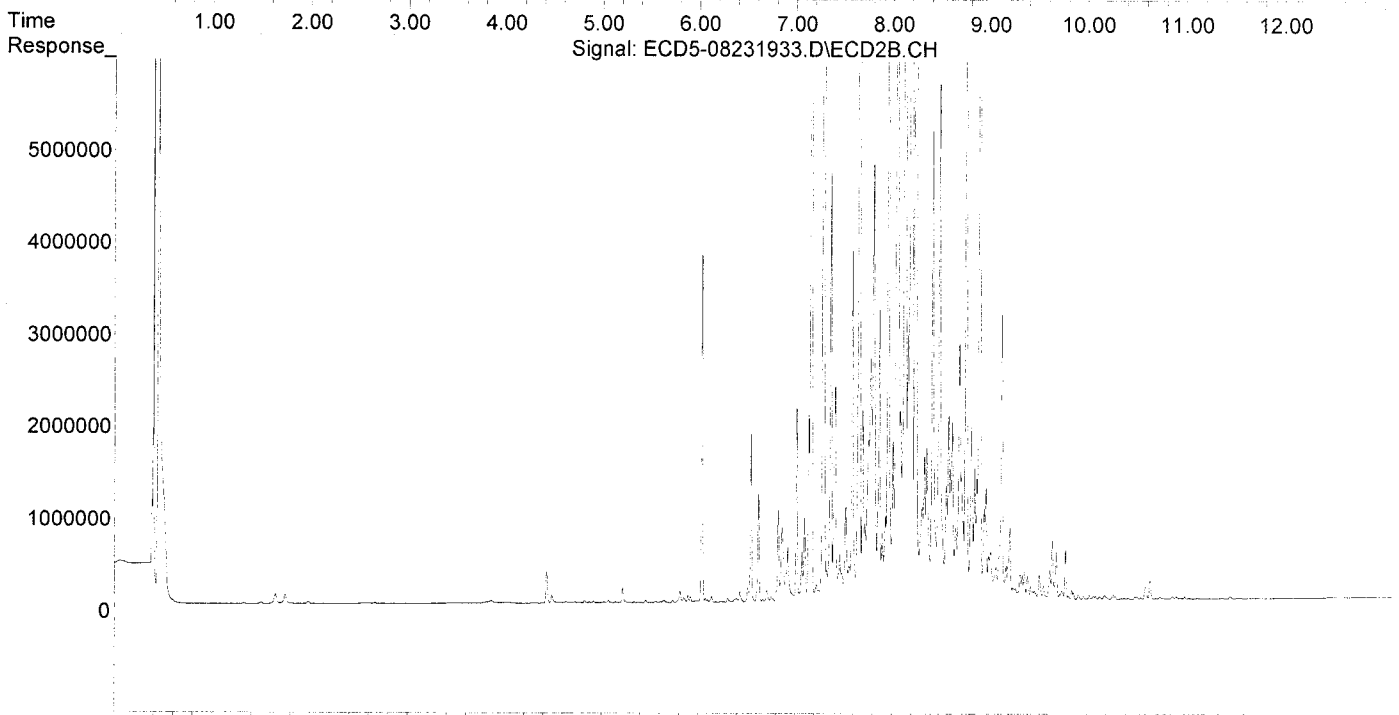
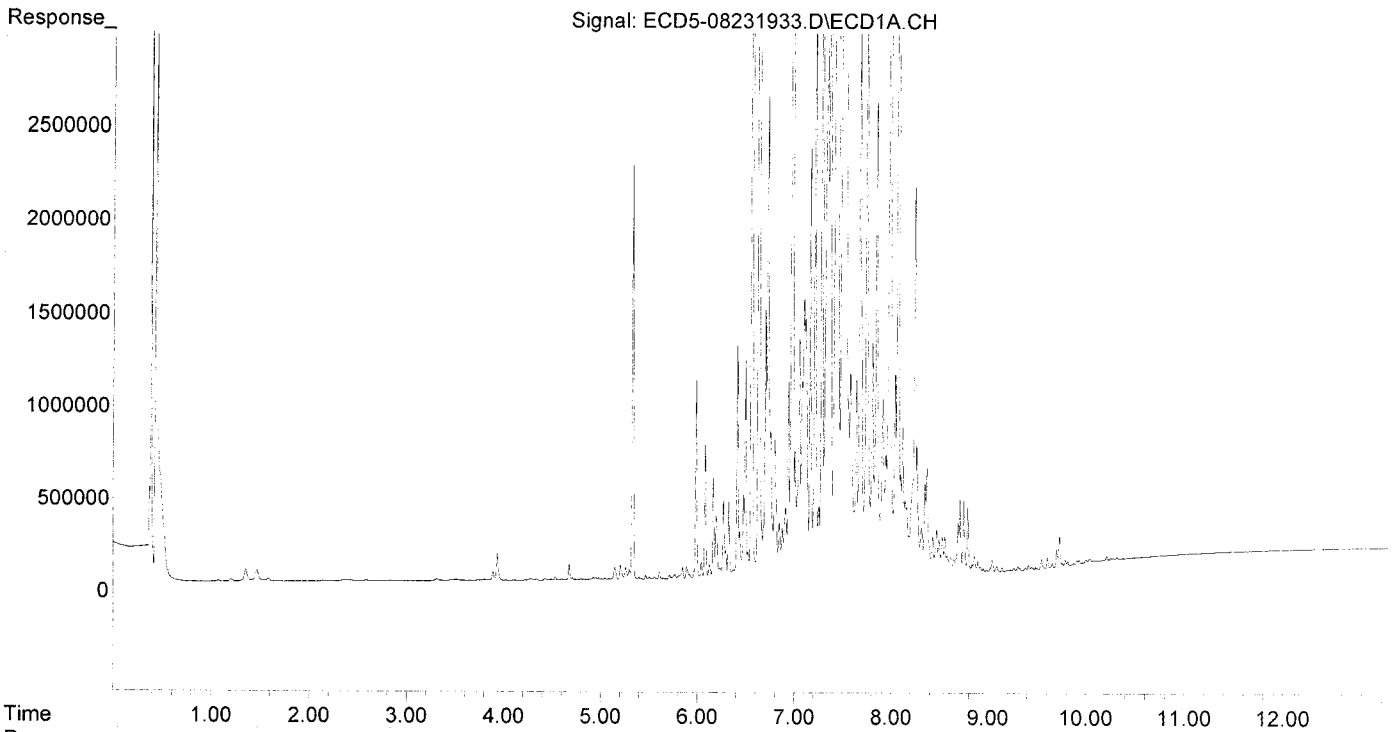
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3) g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4) b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6) d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8) Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9) trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10) cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12) 4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13) Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14) Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15) 4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17) 4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18) Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20) Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21) Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25) Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d
26) 2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27) trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28) 2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29) 2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30) cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31) Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32) Chlordane...	7.426	8.130	40036500	81691713	2596.366	2326.014
33) Chlordane...	7.519	8.238	50979142	66281388	2464.138	2365.956
34) Chlordane...	8.067	8.897	12208306	19418517	2554.588	2271.661
35) Chlordane...	3.449	0.000	4939	0	NoCal	N.D.
36) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231933.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 21:02
Operator : MJB
Sample : 9H23034-CALM
Misc : A19F231, CHLOR 2000 ppb
ALS Vial : 27 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 26 11:34:12 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:29:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
 Data File : ECD5-08231936.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 23 Aug 2019 21:54
 Operator : MJB
 Sample : 9H23034-CALN
 Misc : A19D122, TOX 50 ppb
 ALS Vial : 29 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Aug 26 11:37:48 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:36:51 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 8/26/19

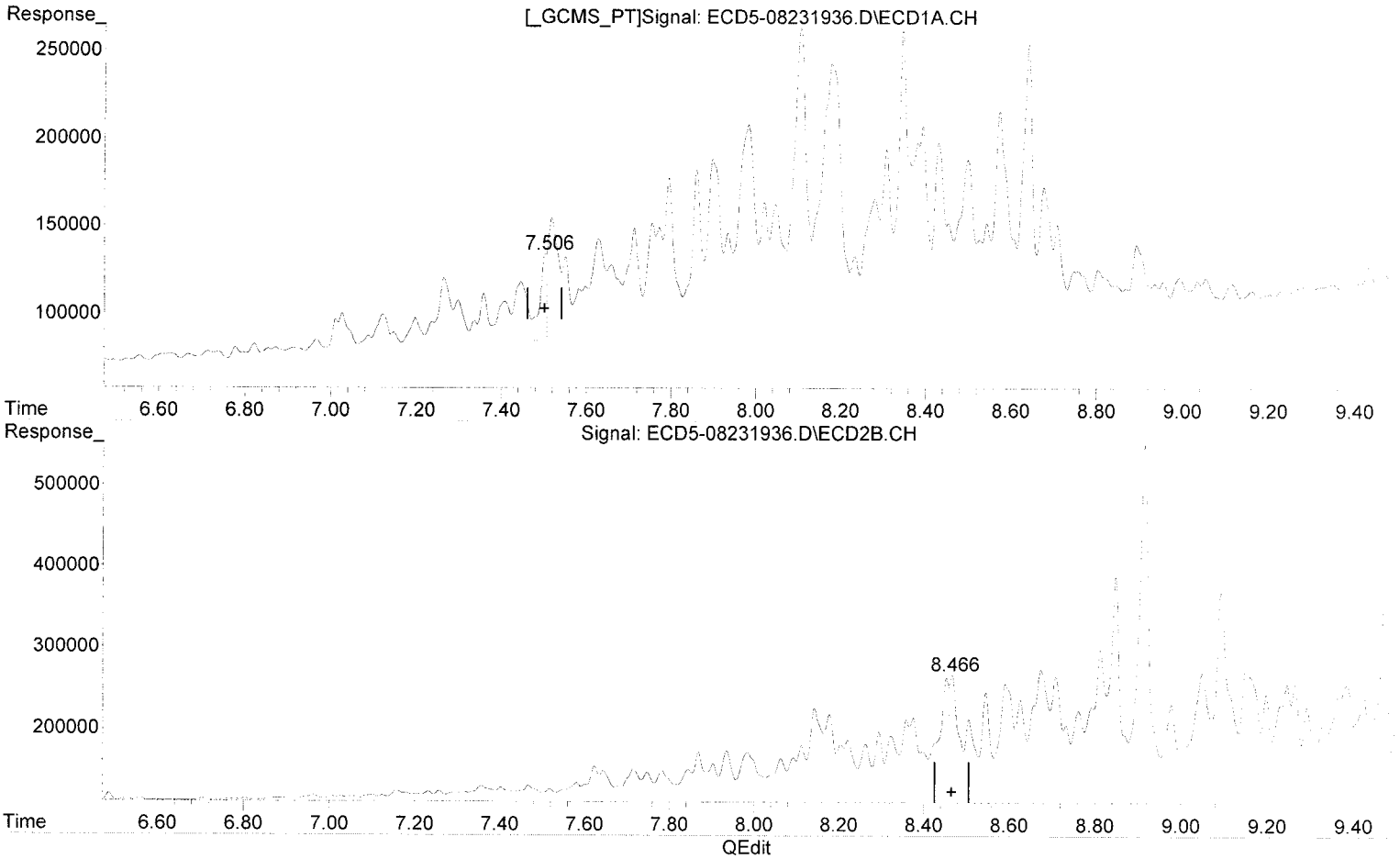
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3) g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4) b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6) d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8) Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9) trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10) cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12) 4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13) Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14) Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15) 4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17) 4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18) Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20) Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21) Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25) Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d
26) 2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27) trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28) 2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29) 2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30) cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31) Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36) Toxaphene...	7.506	8.466	49250	136848	69.167m	65.864
37) Toxaphene...	7.794	8.813	88321	164706	67.251	67.260
38) Toxaphene...	8.105	8.847	169381	254833	62.397	67.028
39) Toxaphene...	8.346	8.915	164317	416348	64.716	65.275
40) Toxaphene...	8.573	9.091	114720	233185	60.554	65.984
41) Toxaphene...	8.641	9.470	153138	230922	57.297	70.513
42) Toxaphene...	3.449	0.000	4023	0	NoCal	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Qedit)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231936.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 21:54
Operator : MJB
Sample : 9H23034-CALN
Misc : A19D122, TOX 50 ppb
ALS Vial : 29 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 26 11:37:09 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:36:51 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(36) Toxaphene (1)
7.506min 69.167 ng/mL(m)
response 49250

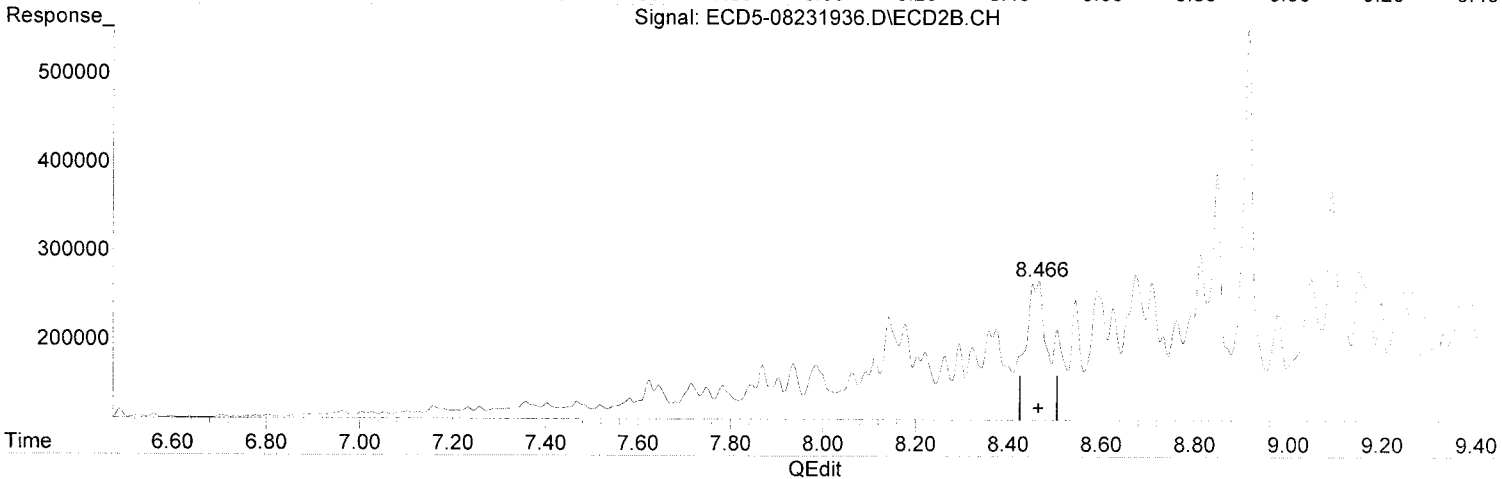
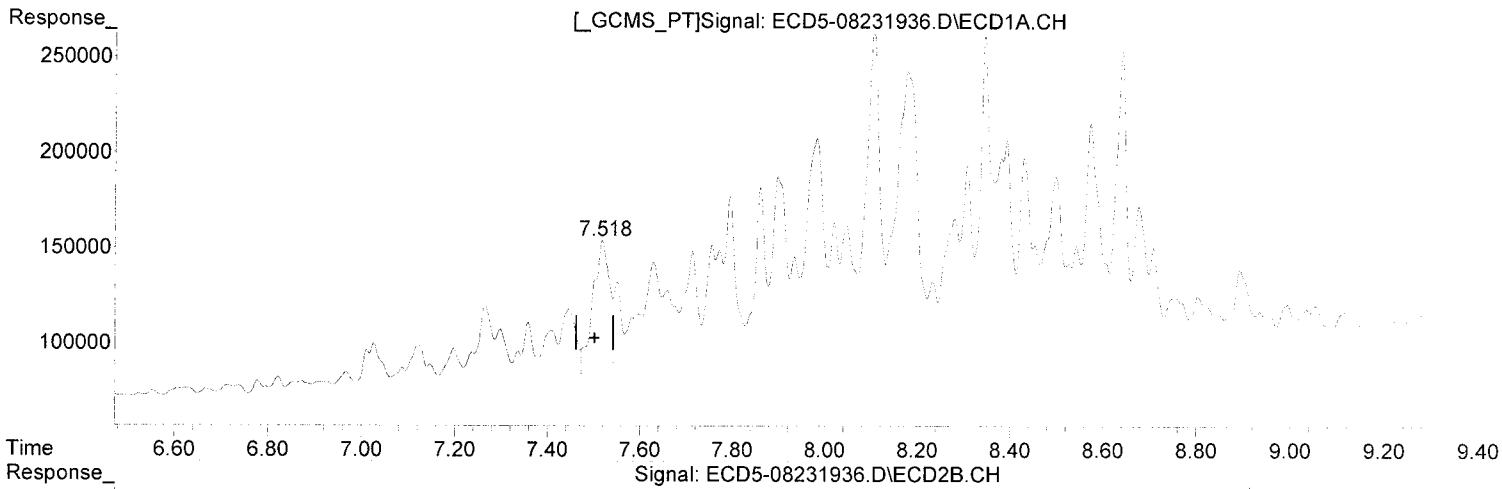
MJB 8/26/19

(36) Toxaphene (1) #2
8.466min 65.864 ng/mL
response 136848

Quantitation Report (Qedit)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231936.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 21:54
Operator : MJB
Sample : 9H23034-CALN
Misc : A19D122, TOX 50 ppb
ALS Vial : 29 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 26 11:37:09 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:36:51 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



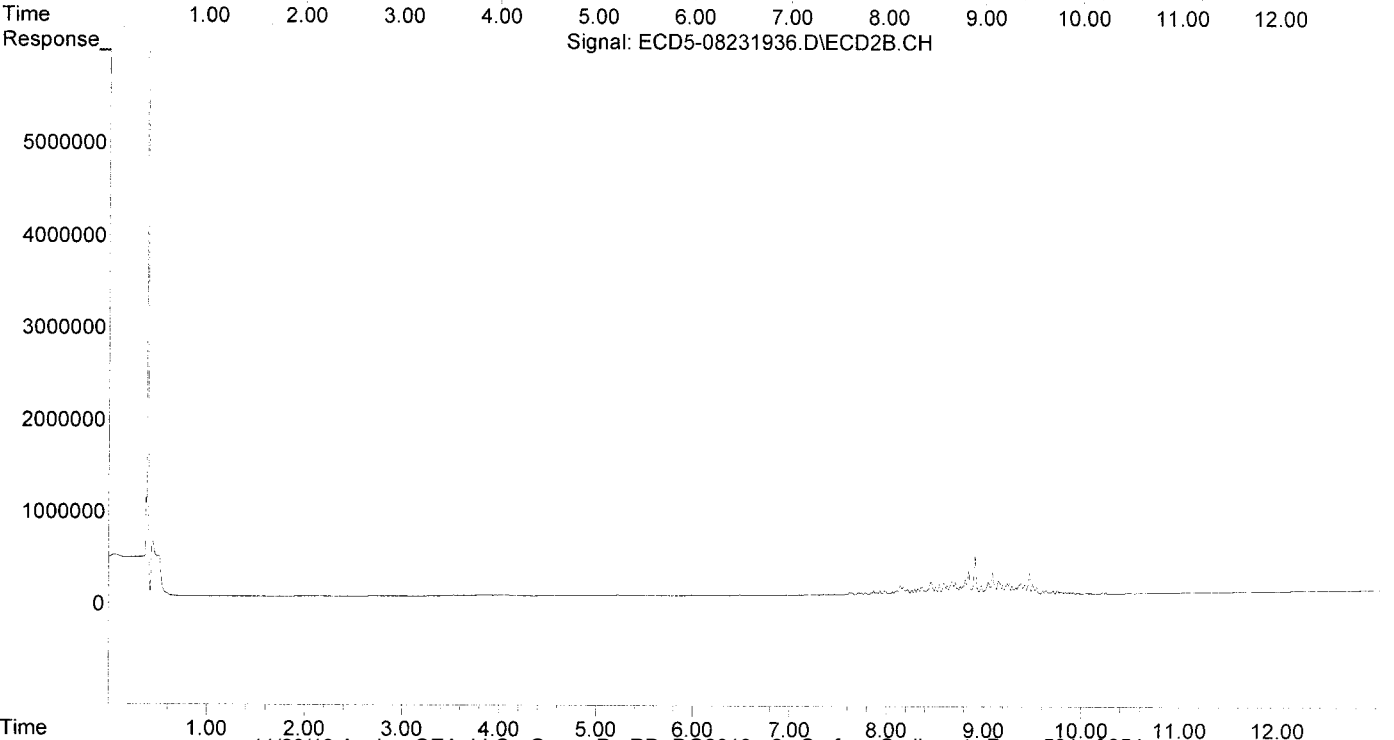
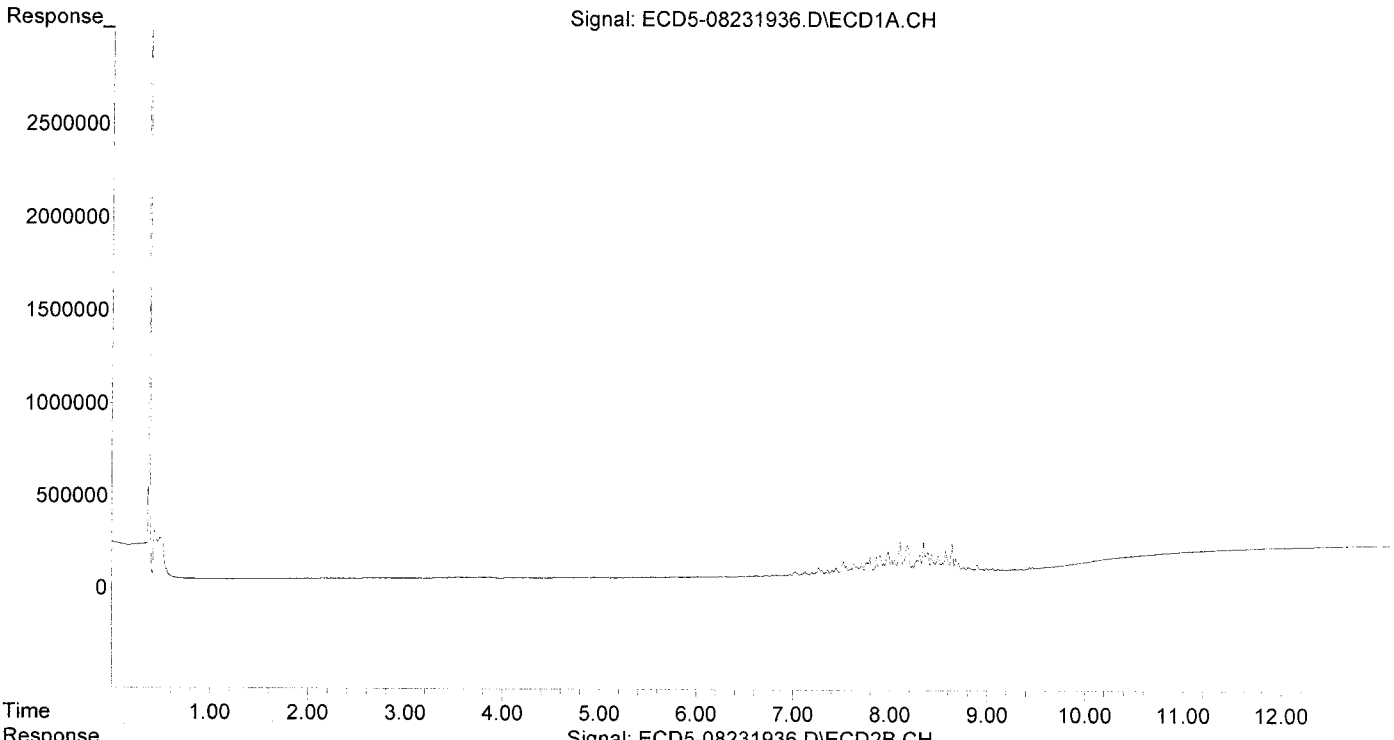
~~(36) Toxaphene (1)
7.518min 96.999 ng/mL
response 69068~~

MJB 6/26/19

(36) Toxaphene (1) #2
8.466min 65.864 ng/mL
response 136848

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231936.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 21:54
Operator : MJB
Sample : 9H23034-CALN
Misc : A19D122, TOX 50 ppb
ALS Vial : 29 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 26 11:37:48 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:36:51 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : R:\data\2019-08\9H23034\
 Data File : ECD5-08231937.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 23 Aug 2019 22:11
 Operator : MJB
 Sample : 9H23034-CALO
 Misc : A19D123, TOX 100 ppb
 ALS Vial : 30 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Aug 26 11:38:53 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:36:51 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB
8/26/19

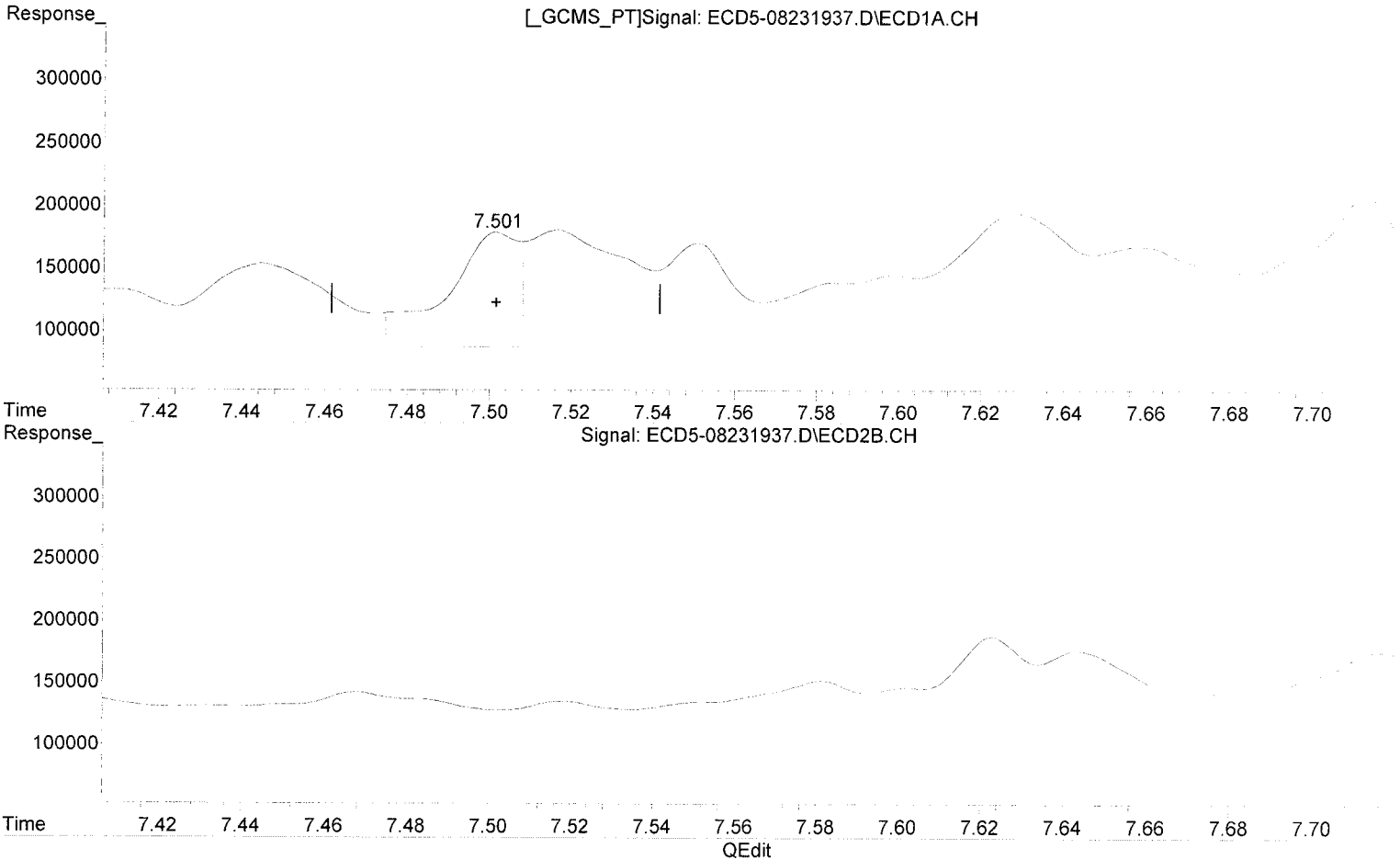
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3) g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4) b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6) d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8) Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9) trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10) cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12) 4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13) Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14) Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15) 4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17) 4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18) Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20) Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21) Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25) Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d
26) 2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27) trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28) 2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29) 2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30) cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31) Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36) Toxaphene...	7.501	8.466	91576	267534	128.609m	128.761
37) Toxaphene...	7.795	8.813	166085	324070	126.462	132.338
38) Toxaphene...	8.106	8.848	332842	494430	122.613	130.048
39) Toxaphene...	8.346	8.915	320313	811948	126.154	127.297
40) Toxaphene...	8.574	9.091	228960	452209	120.854	127.962
41) Toxaphene...	8.641	9.471	302577	452485	113.210	135.226
42) Toxaphene...	3.450	0.000	3536	0	NoCal	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Qedit)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231937.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 22:11
Operator : MJB
Sample : 9H23034-CALO
Misc : A19D123, TOX 100 ppb
ALS Vial : 30 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 26 11:38:11 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:36:51 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(36) Toxaphene (1)

7.501min 128.609 ng/mL m
response 91576

MJB 8/26/19

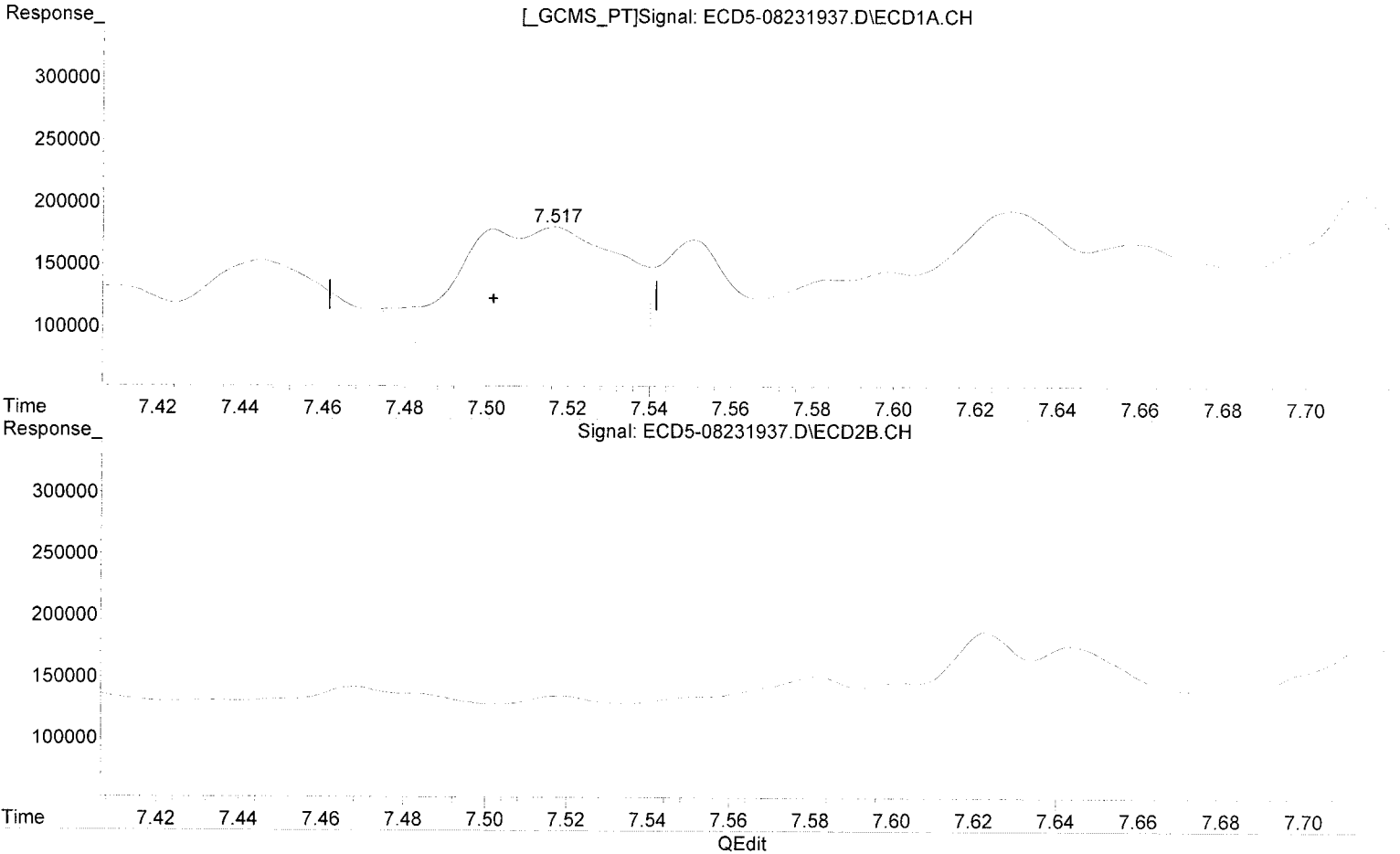
(36) Toxaphene (1) #2

8.466min 128.761 ng/mL
response 267534

Quantitation Report (Qedit)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231937.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 22:11
Operator : MJB
Sample : 9H23034-CALO
Misc : A19D123, TOX 100 ppb
ALS Vial : 30 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 26 11:38:11 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:36:51 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(36) Toxaphene (1)
7.517min 130.814 ng/mL
response 93146

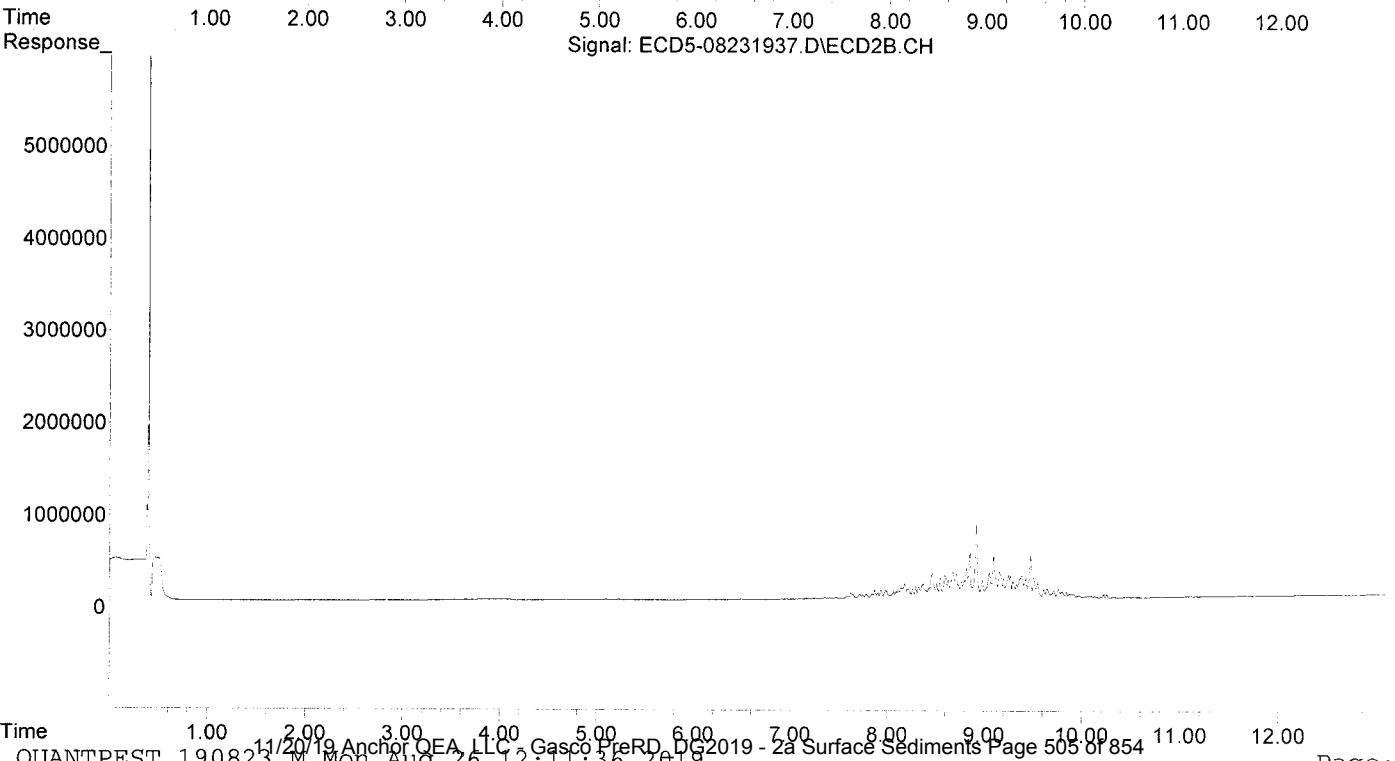
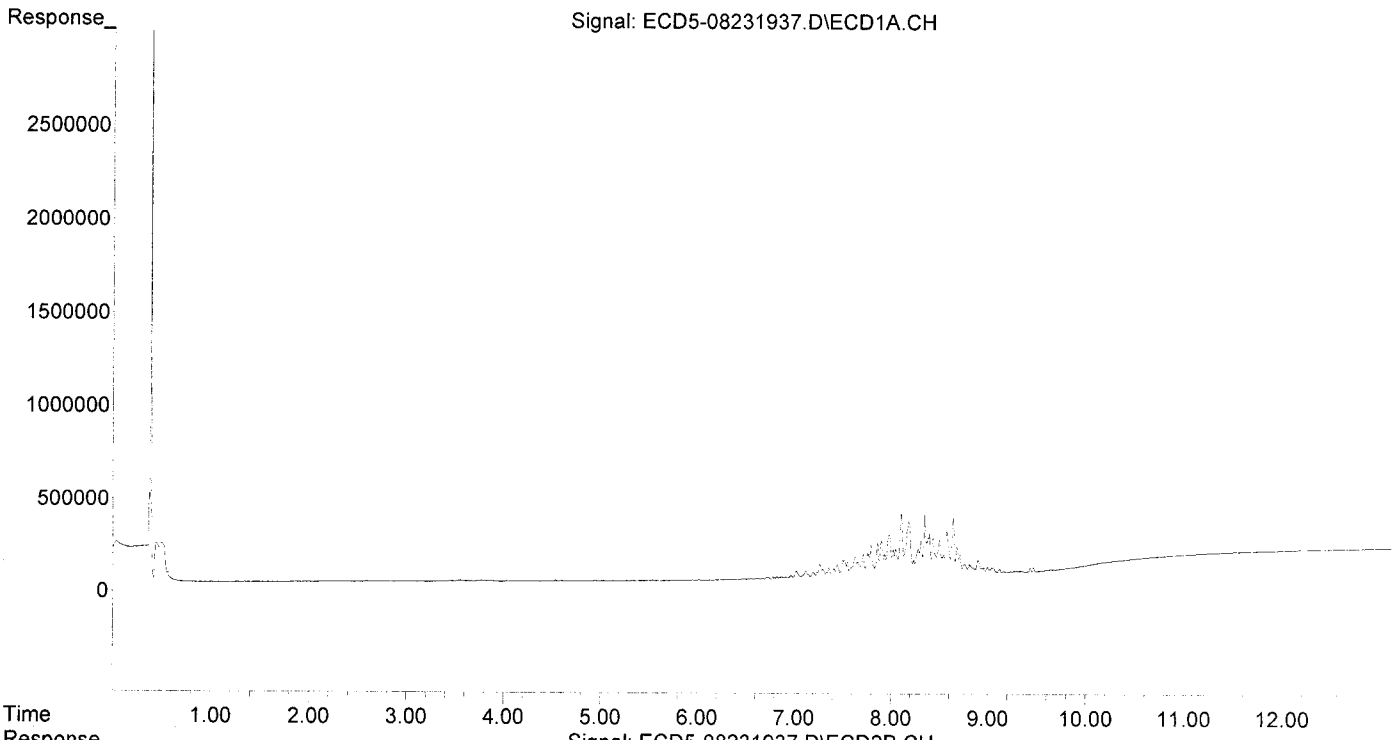
MJB 8/26/19

(36) Toxaphene (1) #2
8.466min 128.761 ng/mL
response 267534

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231937.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 22:11
Operator : MJB
Sample : 9H23034-CALO
Misc : A19D123, TOX 100 ppb
ALS Vial : 30 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 26 11:38:53 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:36:51 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : R:\data\2019-08\9H23034\
 Data File : ECD5-08231938.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 23 Aug 2019 22:28
 Operator : MJB
 Sample : 9H23034-CALP
 Misc : A19D124, TOX 200 ppb
 ALS Vial : 31 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Aug 26 11:39:29 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:36:51 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 8/26/19

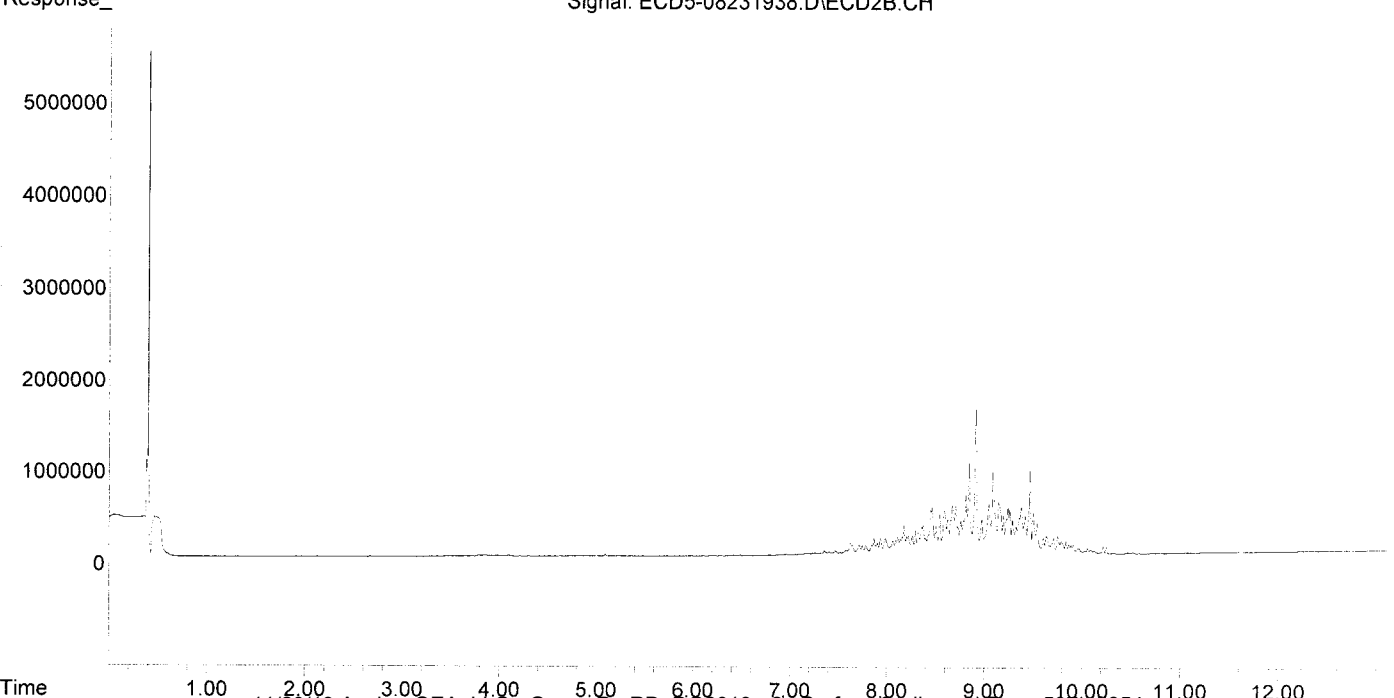
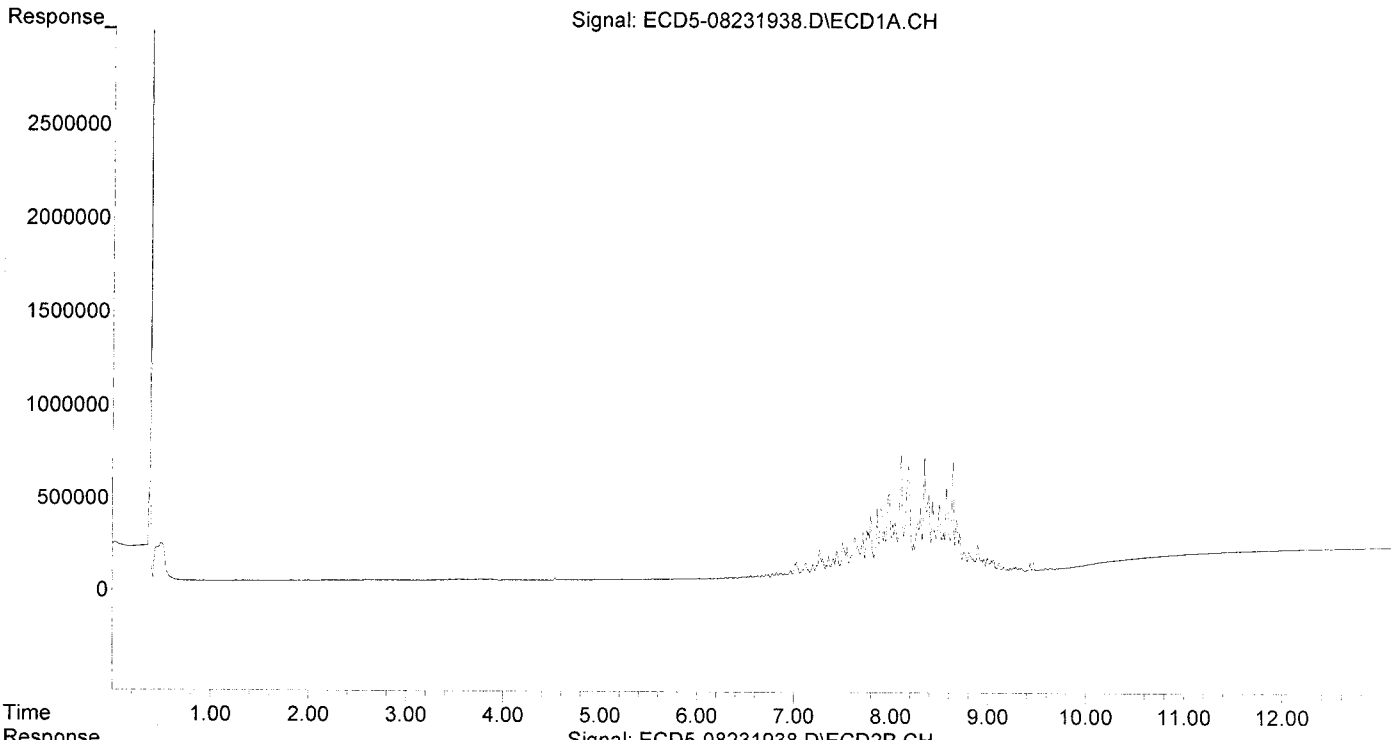
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3) g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4) b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6) d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8) Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9) trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10) cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12) 4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13) Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14) Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15) 4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17) 4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18) Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20) Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21) Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25) Oxychlorthane	0.000	0.000	0	0	N.D. d	N.D. d
26) 2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27) trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28) 2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29) 2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30) cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31) Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36) Toxaphene...	7.502	8.466	176047	508983	247.240	244.968
37) Toxaphene...	7.795	8.812	317587	645322	241.821	263.525
38) Toxaphene...	8.105	8.847	644464	995555	237.409	261.857
39) Toxaphene...	8.346	8.914	632351	1580436	249.049	247.779
40) Toxaphene...	8.574	9.090	454431	895397	239.867	253.371
41) Toxaphene...	8.640	9.469	597991	905244	223.740	263.952
42) Toxaphene...	3.451	0.000	3919	0	NoCal	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231938.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 22:28
Operator : MJB
Sample : 9H23034-CALP
Misc : A19D124, TOX 200 ppb
ALS Vial : 31 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 26 11:39:29 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:36:51 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
 Data File : ECD5-08231939.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 23 Aug 2019 22:45
 Operator : MJB
 Sample : 9H23034-CALQ
 Misc : A19D125, TOX 500 ppb
 ALS Vial : 32 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Aug 26 11:36:29 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
 Quant Title : Instrument: DualeCD5
 QLast Update : Mon Aug 26 11:29:20 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB
8/26/19

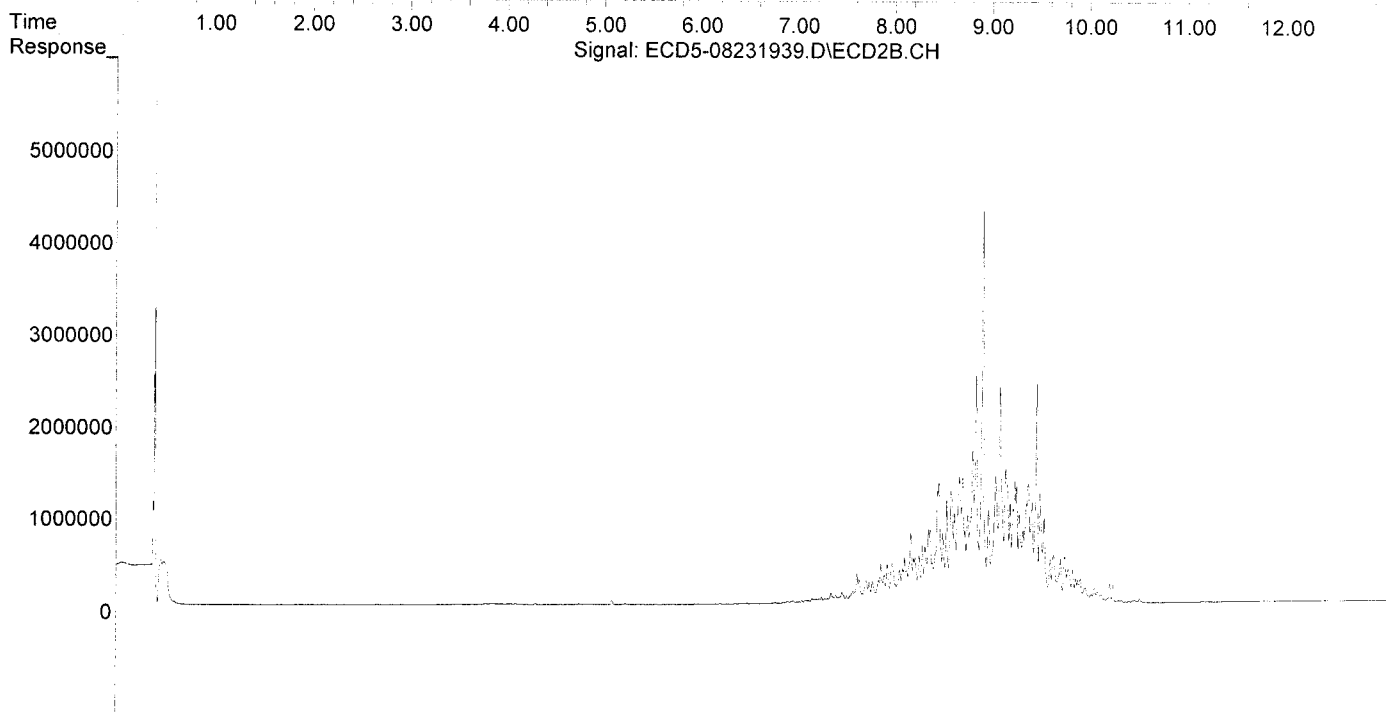
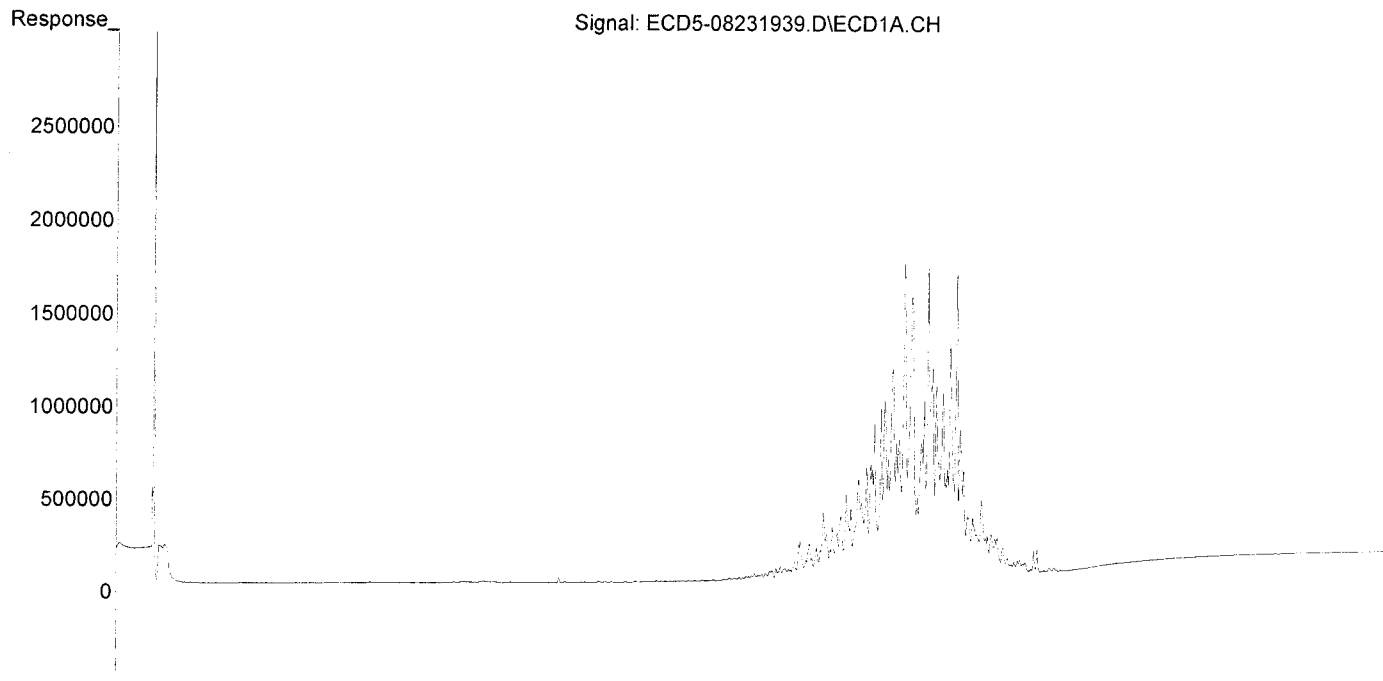
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3) g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4) b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6) d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8) Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9) trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10) cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12) 4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13) Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14) Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15) 4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17) 4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18) Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20) Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21) Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25) Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d
26) 2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27) trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28) 2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29) 2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30) cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31) Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36) Toxaphene...	7.502	8.466	441826	1308994	620.497	630.004
37) Toxaphene...	7.794	8.812	819454	1647741	623.958	672.874
38) Toxaphene...	8.105	8.848	1677481	2475022	617.954	650.997
39) Toxaphene...	8.346	8.915	1649569	4252640	649.677	666.725
40) Toxaphene...	8.574	9.091	1221560	2340668	644.788	662.340
41) Toxaphene...	8.640	9.470	1623402	2369795	607.400	652.719
42) Toxaphene...	3.450	0.000	4132	0	NoCal	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231939.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 22:45
Operator : MJB
Sample : 9H23034-CALQ
Misc : A19D125, TOX 500 ppb
ALS Vial : 32 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 26 11:36:29 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:29:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : R:\data\2019-08\9H23034\
 Data File : ECD5-08231940.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 23 Aug 2019 23:03
 Operator : MJB
 Sample : 9H23034-CALR
 Misc : A19D126, TOX 1000 ppb
 ALS Vial : 33 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Aug 26 11:40:10 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:36:51 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB
4/26/19

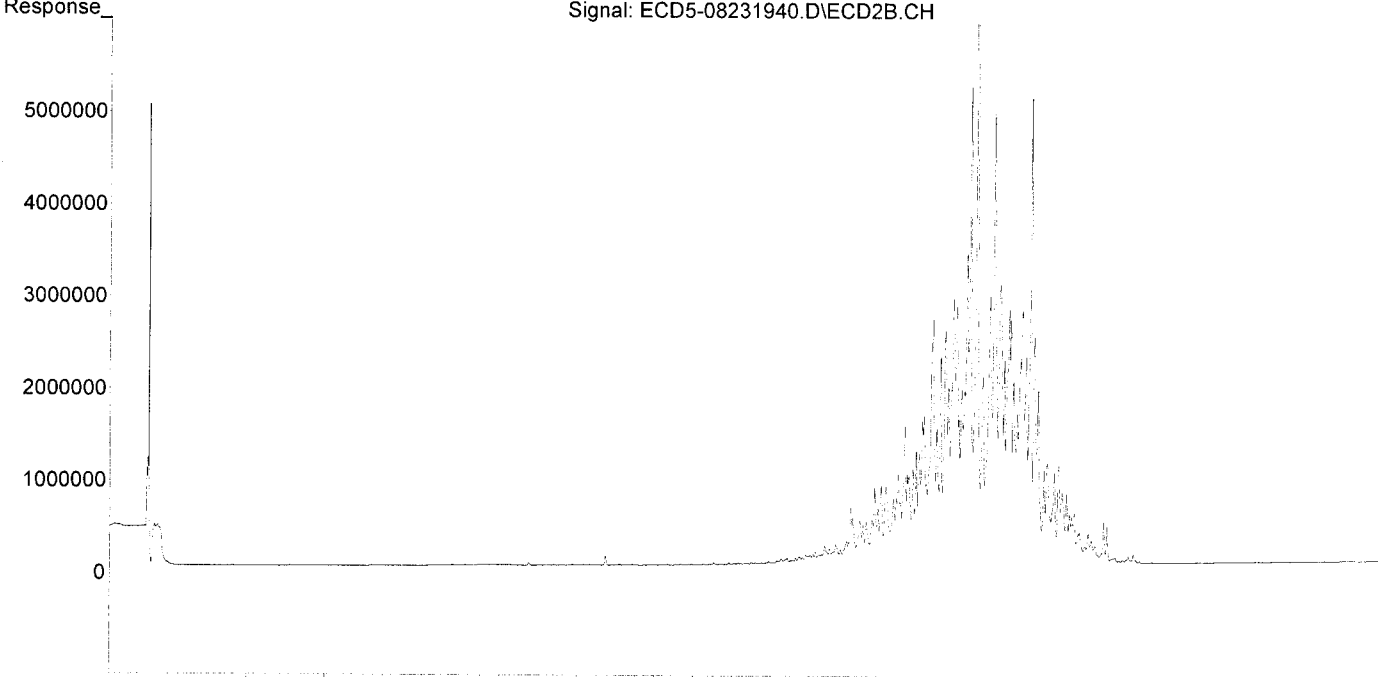
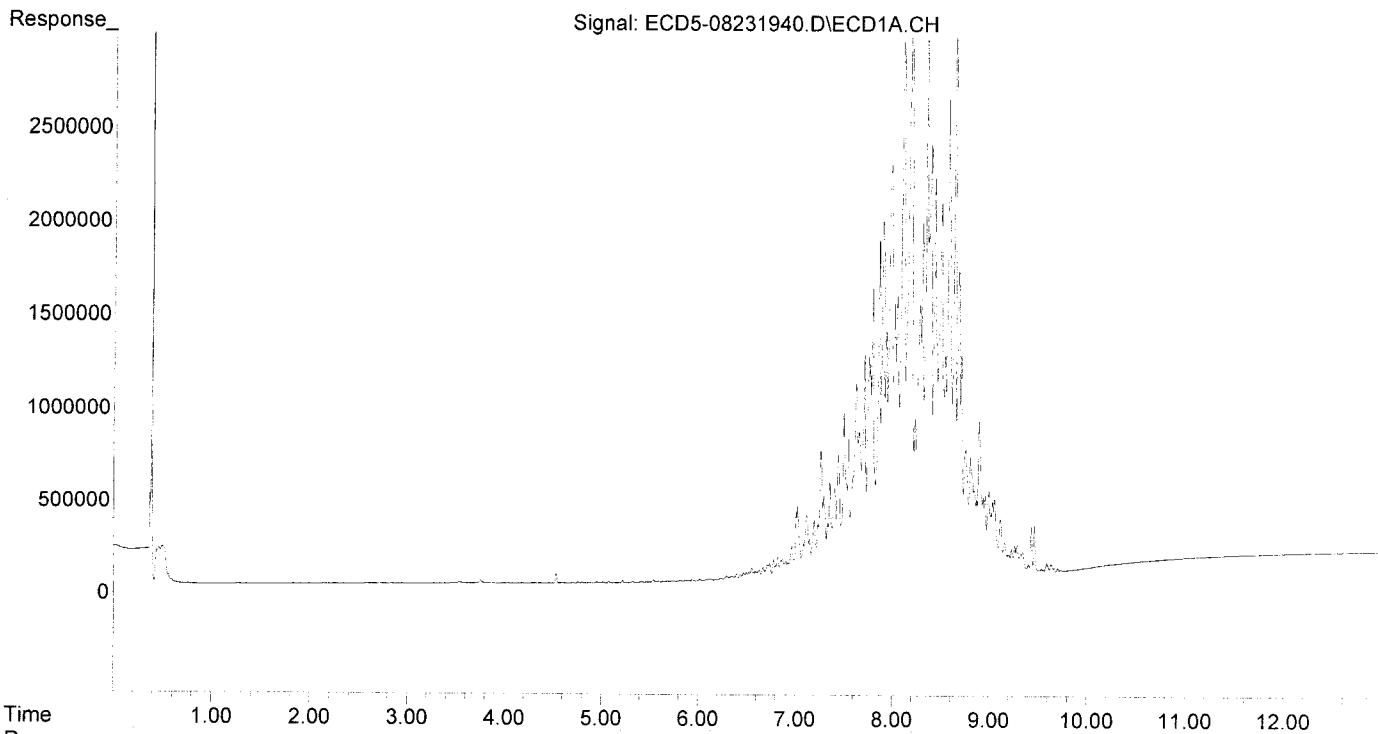
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3) g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4) b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6) d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8) Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9) trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10) cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12) 4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13) Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14) Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15) 4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17) 4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18) Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20) Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21) Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25) Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d
26) 2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27) trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28) 2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29) 2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30) cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31) Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36) Toxaphene...	7.501	8.467	871889	2654886	1224.474	1277.768
37) Toxaphene...	7.793	8.813	1556013	3384036	1184.797	1381.910
38) Toxaphene...	8.105	8.848	3495877	5168269	1287.817	1359.392
39) Toxaphene...	8.345	8.915	3287014	8650068	1294.579	1356.150
40) Toxaphene...	8.573	9.091	2546293	4900430	1344.035	1386.677
41) Toxaphene...	8.640	9.470	3406737	5046645	1274.639	1281.306
42) Toxaphene...	3.451	0.000	2687	0	NoCal	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231940.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 23:03
Operator : MJB
Sample : 9H23034-CALR
Misc : A19D126, TOX 1000 ppb
ALS Vial : 33 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 26 11:40:10 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:36:51 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : R:\data\2019-08\9H23034\
 Data File : ECD5-08231941.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 23 Aug 2019 23:20
 Operator : MJB
 Sample : 9H23034-CALS
 Misc : A19D121, TOX 2000 ppb
 ALS Vial : 34 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Aug 26 11:40:44 2019
 Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
 Quant Title : Instrument: DualECD5
 QLast Update : Mon Aug 26 11:36:51 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 8/26/19

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL

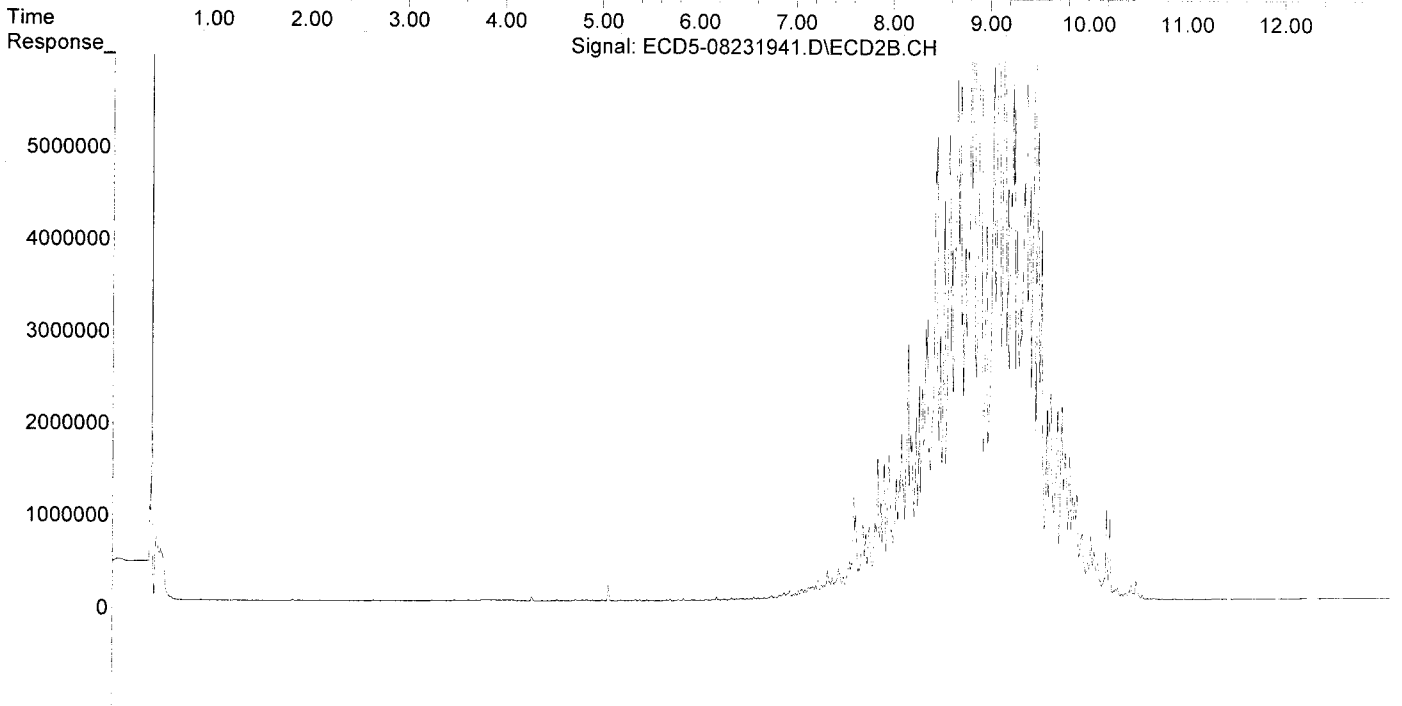
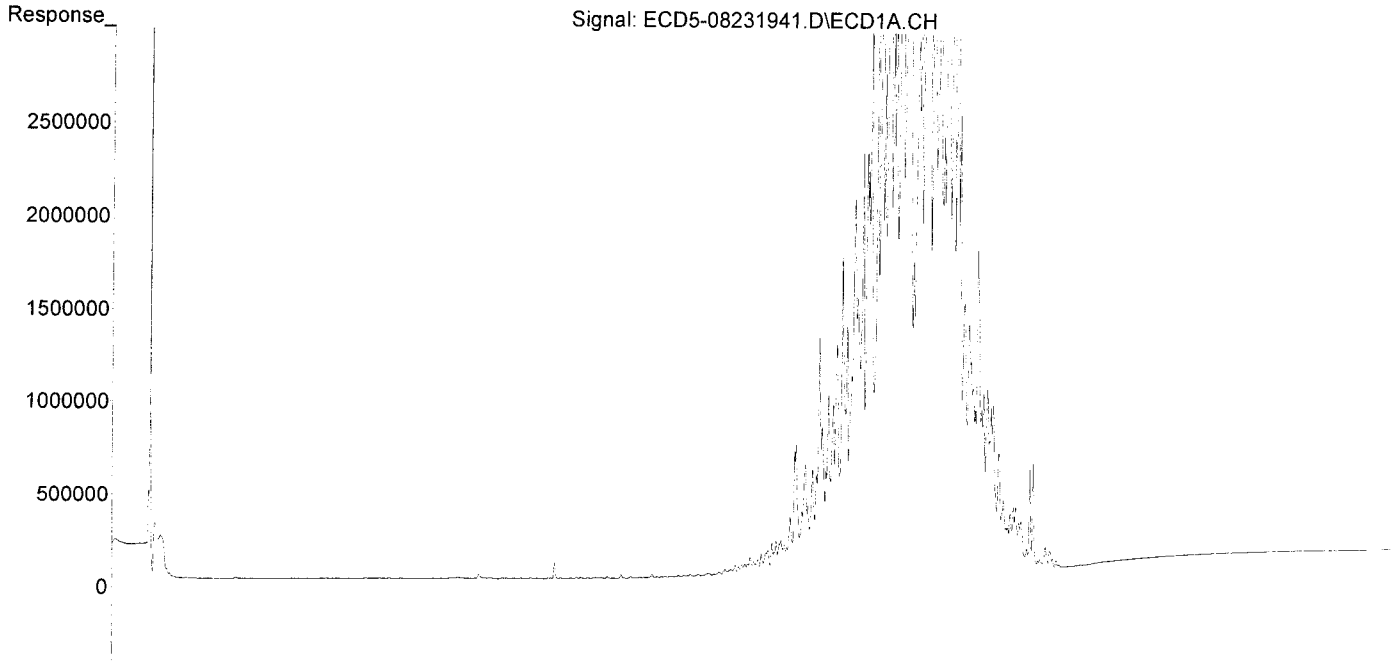
System Monitoring Compounds						
1) S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3) g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4) b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6) d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8) Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9) trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10) cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12) 4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13) Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14) Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15) 4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17) 4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18) Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20) Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21) Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25) Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d
26) 2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27) trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28) 2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29) 2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30) cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31) Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36) Toxaphene...	7.500	8.466	1674674	5030917	2351.899	2421.326
37) Toxaphene...	7.792	8.813	2958997	6610397	2253.073	2699.433
38) Toxaphene...	8.104	8.848	6831460	10545708	2516.585	2773.802
39) Toxaphene...	8.345	8.914	6407070	17190037	2523.403	2695.039
40) Toxaphene...	8.572	9.091	5074570	9435236	2678.561	2669.893
41) Toxaphene...	8.640	9.471	6510950	10090951	2436.088	2281.169
42) Toxaphene...	3.452	0.000	4166	0	NoCal	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231941.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 23:20
Operator : MJB
Sample : 9H23034-CALS
Misc : A19D121, TOX 2000 ppb
ALS Vial : 34 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Aug 26 11:40:44 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:36:51 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



**Semivolatile Organic Compounds (PAHs) by EPA 8270D
Benchsheet & Analysis Sequence Data**

Batch 9091304
Sequence 9I26035 (A9I0771-01,02,03)



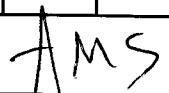
Apex Laboratories
PREPARATION BENCH SHEET

SEP 02 2019

BATCH #: 9091304 (Sediment)

Prep Method: EPA 3546

#	Lab Number	Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH			
												<2	One	>11	
	9091304-BLK1	QC	09/26/19 07:03	11	5				100						
	9091304-BLK2	QC	09/26/19 07:03	11	5				100						
	9091304-BS1	QC	09/26/19 07:03	10	5	A19H078		100	100			Added 9/27/2019 by hml			
	A9I0771-01	C 8270D LL PAH Only (Scan)	09/26/19 07:03	10.57	5				100	PDI-014SG-00-0.78-190923					
	9091304-DUP1	QC	09/26/19 07:03	10.6	5		A9I0771-01		100						
	A9I0771-01RE1	C 8270D LL PAH Only (Scan)	09/26/19 07:03	10.57	5				100	PDI-014SG-00-0.78-190923	Added 9/27/2019 By hml				
	9091304-DUP2	QC	09/26/19 07:03	10.6	5		A9I0771-01RE1		100			Added 9/30/2019 by hml			
	A9I0771-02	C 8270D LL PAH Only (Scan)	09/26/19 07:03	10.33	5				100	PDI-1014SG-00-0.78-190923					
	A9I0771-02RE1	C 8270D LL PAH Only (Scan)	09/26/19 07:03	10.33	5				100	PDI-1014SG-00-0.78-190923	Added 9/27/2019 By hml				
	A9I0771-03	C 8270D LL PAH Only (Scan)	09/26/19 07:03	10.07	5				100	PDI-015SG-00-0.87-190924					
	A9I0771-03RE1	C 8270D LL PAH Only (Scan)	09/26/19 07:03	10.07	5				100	PDI-015SG-00-0.87-190924	Added 9/27/2019 By hml				
	A9I0771-04	C 8270D LL PAH Only (Scan)	09/26/19 07:03	10.7	5				100	PDI-022SG-00-01-190924					
	A9I0771-04RE1	C 8270D LL PAH Only (Scan)	09/26/19 07:03	10.7	5				100	PDI-022SG-00-01-190924	Added 9/27/2019 By hml				
	A9I0771-04RE2	C 8270D LL PAH Only (Scan)	09/26/19 07:03	10.7	5				100	PDI-022SG-00-01-190924	Added 9/30/2019 by hml				
	A9I0771-05	C 8270D LL PAH Only (Scan)	09/26/19 07:03	10.25	5				100	PDI-101SG-00-01-190923					
	A9I0771-05RE1	C 8270D LL PAH Only (Scan)	09/26/19 07:03	10.25	5				100	PDI-101SG-00-01-190923	Added 9/27/2019 By hml				
	A9I0771-05RE2	C 8270D LL PAH Only (Scan)	09/26/19 07:03	10.25	5				100	PDI-101SG-00-01-190923	Added 9/30/2019 by hml				
	A9I0771-06	F 8270D LL PAH Only (Scan)	09/26/19 07:03	10.1	5				100	PDI-102SG-00-01-190923	MS/MSD this sample				
	9091304-MS1	QC	09/26/19 07:03	10.08	5	A19H078	A9I0771-06	100	100						
	9091304-MSD1	QC	09/26/19 07:03	10.13	5	A19H078	A9I0771-06	100	100						
	A9I0771-06RE1	F 8270D LL PAH Only (Scan)	09/26/19 07:03	10.1	5				100	PDI-102SG-00-01-190923	Added 9/30/2019 by hml				


 Reviewed By: _____ Date: 10/1/19

Prepared By: _____ Date: _____

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 9091304 (Sediment)

Prep Method: EPA 3546

#	Lab Number	Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH	
												<2	>11
	A9I0771-06RE2	F 8270D LL PAH Only (Scan)	09/26/19 07:03	10.1	5				100	PDI-102SG-00-01-190923	Added 9/30/2019 by hml		

Standards/Reagents

Reagent(s)			Analyte Spike(s)			Surrogate(s)		
Std ID	Exp. Date	Description	Std ID	Exp. Date	Description	Std ID	Exp. Date	Description
A13L219	11/30/23	Extractions Balance	A19H078	02/02/20	LVI PAH Spike @2000ng/ml	A19I094	03/03/20	8270D LL PAH Only Surr. (5ppm)
A18K311	12/31/20	Glass Wool						
A19H436	07/31/21	Sodium Sulfate Lot # 190116						
A19I262	08/30/22	DCM CHEM PROD. 186806						

Method 3546 digestion time and temperature achieved.

Initial: _____

Witness: _____

Prepared By: _____ Date _____

Reviewed By: _____ Date _____



Apex Laboratories
PREPARATION BENCH SHEET

BATCH #: **9091304 (Sediment)**

Prep Method: EPA 3546

#	Lab Number	Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH	
												<2	>11
1	9091304-BLK1	QC	09/26/19 07:03	10.11	5				100				
2	9091304-BS1	QC	09/26/19 07:03	10	5	A19H078		100	100				
3	A910771-01	C 8270D LL PAH Only (Scan)	09/26/19 07:03	10.57	5				100	PDI-014SG-00-0.78-190923	mud, odor		
4	9091304-DUP1	QC	09/26/19 07:03	10.60	5		A910771-01		100		mud, odor		
5	A910771-02	C 8270D LL PAH Only (Scan)	09/26/19 07:03	10.33	5				100	PDI-1014SG-00-0.78-190923	mud, odor		
6	A910771-03	C 8270D LL PAH Only (Scan)	09/26/19 07:03	10.67	5				100	PDI-015SG-00-0.87-190924	mud, odor		
7	A910771-04	C 8270D LL PAH Only (Scan)	09/26/19 07:03	10.70	5				100	PDI-022SG-00-0.1-190924	mud, odor		
8	A910771-05	C 8270D LL PAH Only (Scan)	09/26/19 07:03	10.25	5				100	PDI-101SG-00-0.1-190923	mud, odor		
9	A910771-06	F 8270D LL PAH Only (Scan)	09/26/19 07:03	10.10	5				100	PDI-102SG-00-0.1-190923	MS/MSD this sample		
10	9091304-MS1	QC	09/26/19 07:03	10.08	5	A19H078	A910771-06	100	100		mud, odor		
11	9091304-MSD1	QC	09/26/19 07:03	10.13	5	A19H078	A910771-06	100	100		mud, odor		

Standards/Reagents

Reagent(s)			Analyte Spike(s)			Surrogate(s)		
Std ID	Exp. Date	Description	Std ID	Exp. Date	Description	Std ID	Exp. Date	Description
A13L219	11/30/23	Extractions Balance	A19H078	02/02/20	LVI PAH Spike @2000ng/ml	A19I094	03/03/20	8270D LL PAH Only Surr. (5ppm)
A18K311	12/31/20	Glass Wool						
A19H436	07/31/21	Sodium Sulfate Lot # 190116						
A19I262	08/30/22	DCM CHEM PROD. 186806						

Method 3546 digestion time and temperture achieved.

Initial: JAG

Witness: AST 9-26-19

JAG 9/26/19
Prepared By: _____ Date

SCG 9/26/2019
Reviewed By: _____ Date



ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence: **9126035**

Instrument: **SV-GCMS14**

Date: **09/26/19 13:51**

Calibration: **A9I1001**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	9126035-TUN1	Soil	QC	QC			A19I102	A19I165
2	9126035-CCV1	Soil	QC	QC			A19I102	A19I020
3	9126035-CCB1	Soil	QC	QC			A19I102	
4	9091304-BLK1	Sediment	QC	QC		9091304	A19I102	
5	9091304-BS1	Sediment	QC	QC		9091304	A19I102	
6	9091323-BLK2	Sediment	QC	QC		9091323	A19I102	
7	A9I0771-01	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	10/08/19	9091304	A19I102	
8	9091304-DUP1	Sediment	QC	QC		9091304		
9	9091304-BLK2	Sediment	QC	QC		9091304	A19I102	
10	A9I0771-02	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	10/08/19	9091304	A19I102	
11	A9I0771-03	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	10/08/19	9091304	A19I102	
12	A9I0771-04	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	10/08/19	9091304	A19I102	
13	A9I0771-05	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	10/08/19	9091304	A19I102	

Data Entered By: HW 9/27/19
 Data Reviewed By: HW 9/30/19

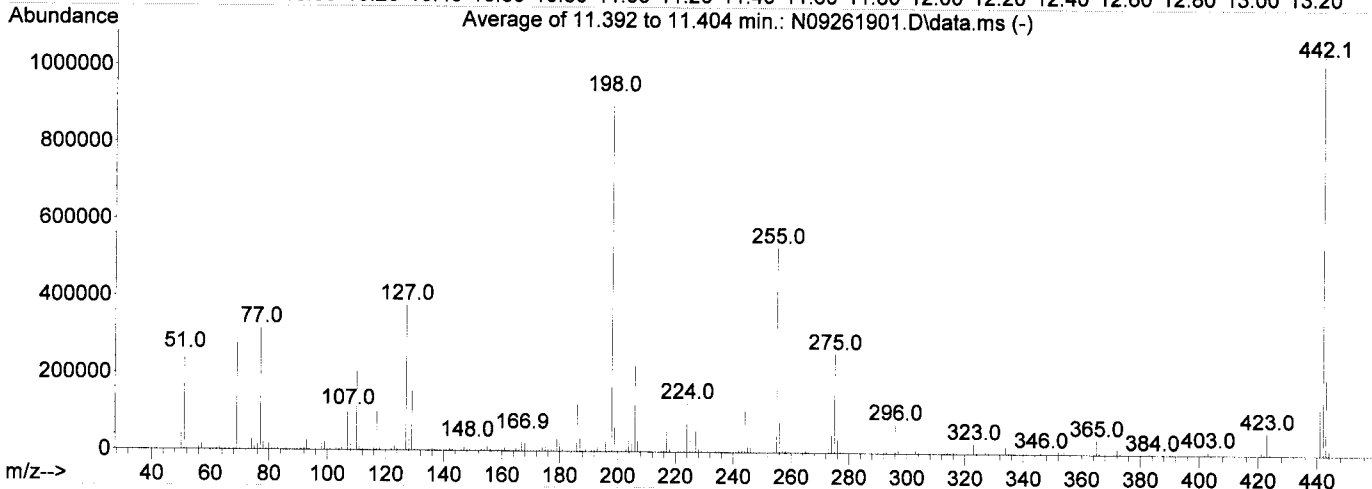
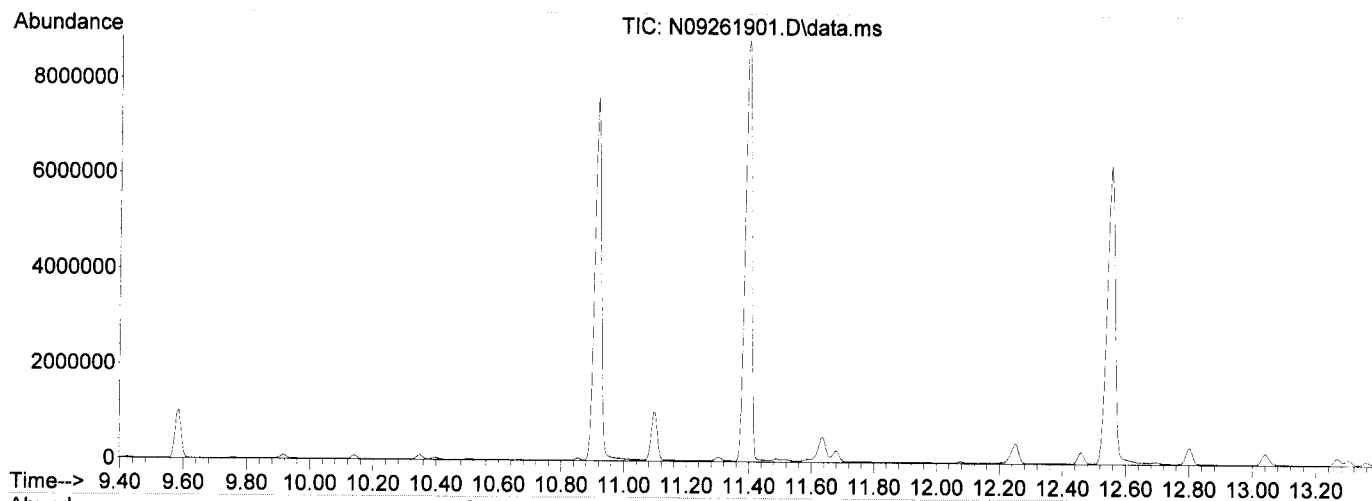
Comments:

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261901.D
 Acq On : 26 Sep 2019 02:01 pm
 Operator :
 Sample : 9I26035-TUN1
 Misc : 1x, A19I165 DFTPP045
 ALS Vial : 1 Sample Multiplier: 1

Handwritten: fmc 9/27/19

Integration File: rteint.p

Method : U:\methods\DFTPP.M
 Title : 8270 DFTPP Tune Method
 Last Update : Thu Sep 05 08:50:46 2019



AutoFind: Scans 1218, 1219, 1220; Background Corrected with Scan 1211

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	1.6	4300	PASS
69	69	100	100	100.0	276810	PASS
70	69	0.00	2	0.5	1309	PASS
197	198	0.00	2	0.5	4359	PASS
198	198	100	100	100.0	924096	PASS
199	198	5	9	6.7	62361	PASS
365	198	1	100	4.0	36875	PASS
441	443	0.01	150	77.6	154389	PASS
442	198	0.10	200	112.2	1037163	PASS
443	442	15	24	19.2	199019	PASS

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261901.D
 Acq On : 26 Sep 2019 02:01 pm
 Operator :
 Sample : 9I26035-TUN1
 Misc : 1x, A19I165 DFTPP045
 ALS Vial : 1 Sample Multiplier: 1
 DataAcq Meth:DFTPP.M

Quant Time: Sep 27 11:24:41 2019
 Quant Method : U:\methods\DFTPP.M
 Quant Title : 8270 DFTPP Tune Method
 QLast Update : Thu Sep 05 08:50:46 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.607	150	183975	2.00	ug/mL	0.00
2) Naphthalene-d8	7.819	136	543101	2.00	ug/mL	0.00
3) Acenaphthene-d10	9.585	162	293917	2.00	ug/mL	0.00
5) Phenanthrene-d10	11.100	188	526696	2.00	ug/mL	0.00
11) Chrysene-d12	14.772	240	450201	2.00	ug/mL	#-0.01
12) Perylene-d12	16.818	264	393339	2.00	ug/mL	#-0.02
13) Dibenz(a,h)anthracene-...	18.042	292	317152	2.00	ug/mL	-0.02
Target Compounds						
4) Pentachlorophenol	10.914	266	1333611	48.05	ug/mL	93
6) DFTPP	11.398	442	1589874	37.39	ug/mL	88
7) Benzidine	12.552	184	4606141	24.58	ug/mL	97
8) 4,4-DDE	12.802	TIC	496693	No Calib		
9) 4,4-DDD	13.304	TIC	154842	No Calib		
10) 4,4-DDT	13.863	TIC	18366796	34.01	ug/mL	97

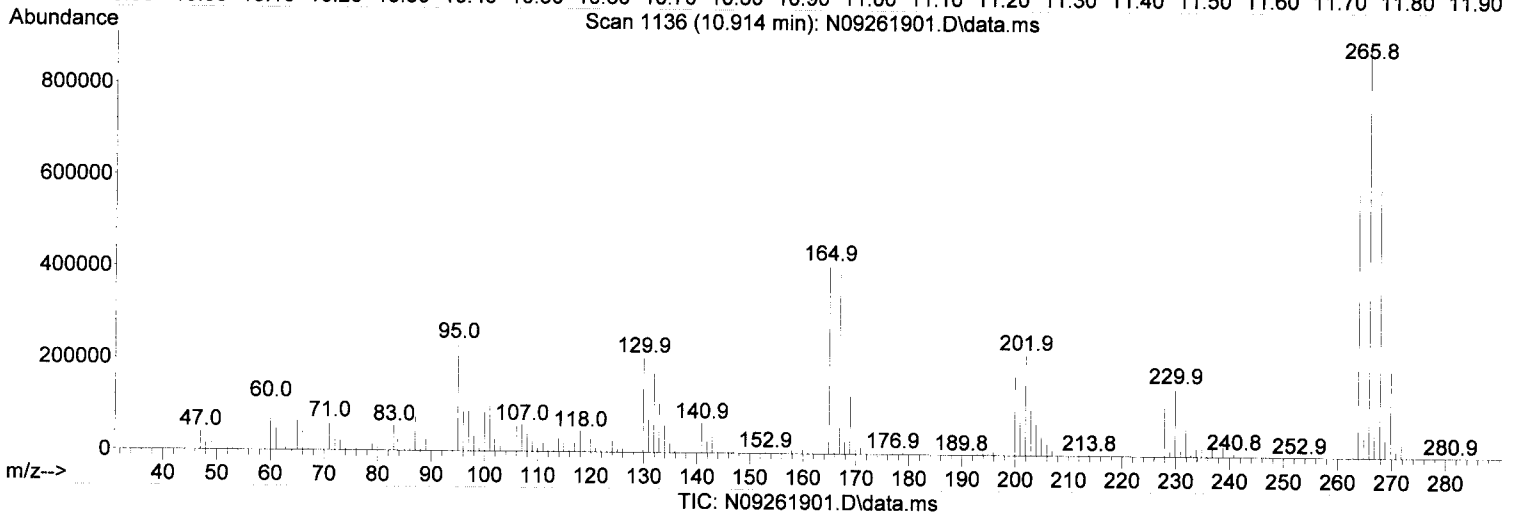
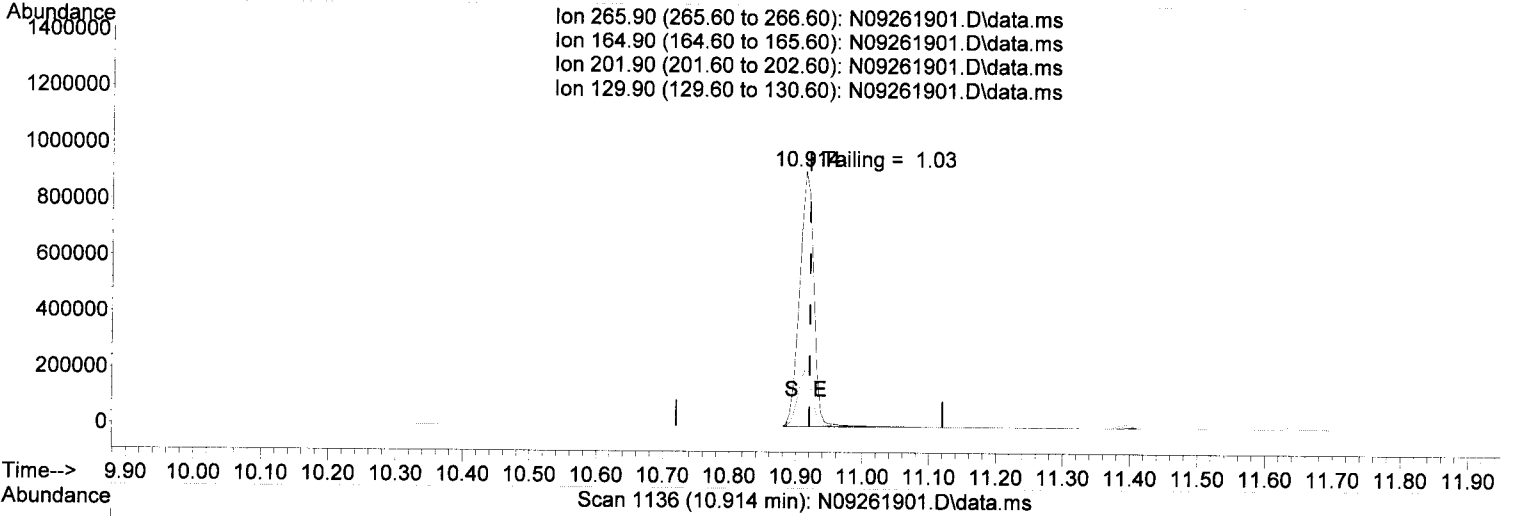
(#) = qualifier out of range (m) = manual integration (+) = signals summed

✓

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261901.D
 Acq On : 26 Sep 2019 02:01 pm
 Operator :
 Sample : 9I26035-TUN1
 Misc : 1x, A19I165 DFTPP@45
 ALS Vial : 1 Sample Multiplier: 1
 DataAcq Meth:DFTPP.M

Quant Time: Sep 27 11:24:41 2019
 Quant Method : U:\methods\DFTPP.M
 Quant Title : 8270 DFTPP Tune Method
 QLast Update : Thu Sep 05 08:50:46 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(4) Pentachlorophenol

10.914min (-0.006) 48.05 ug/mL

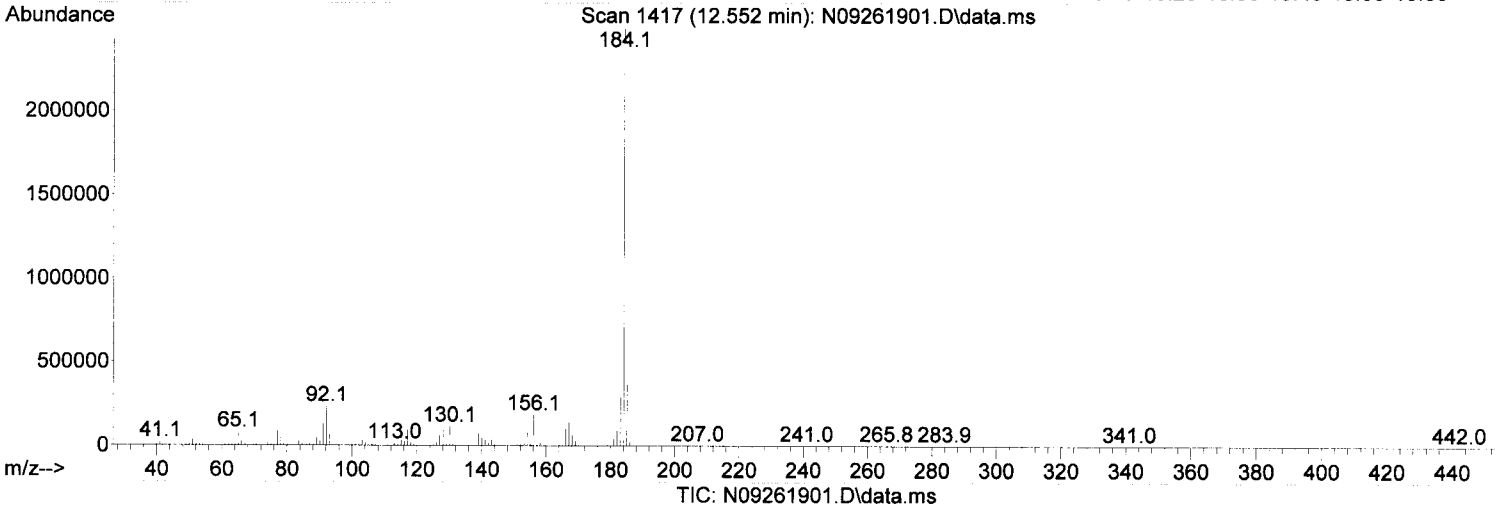
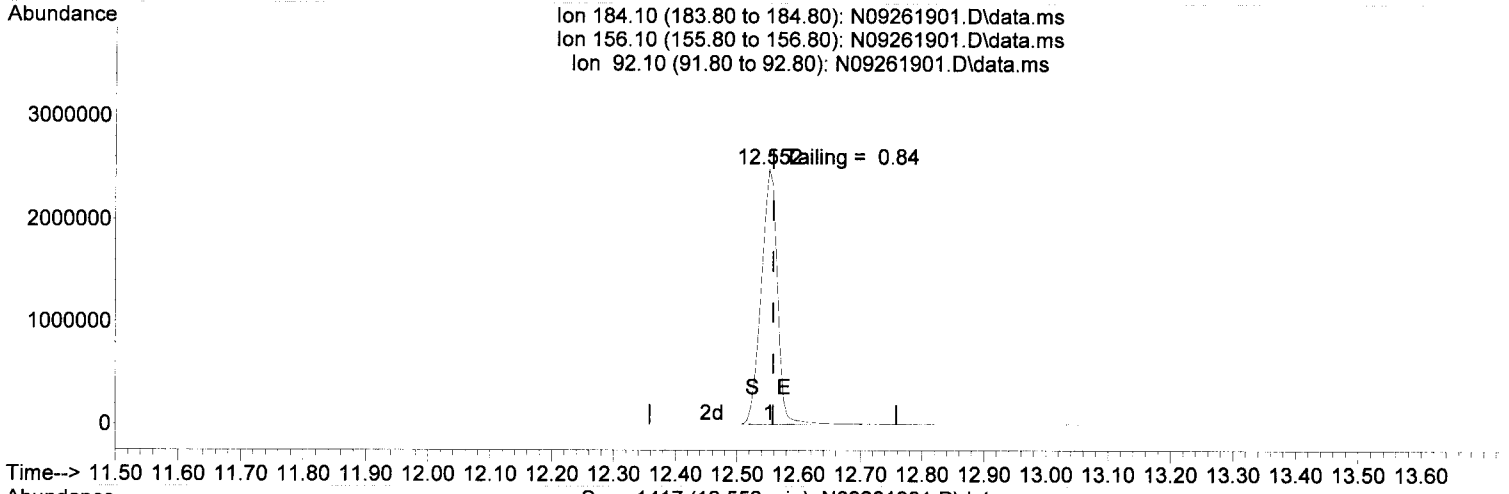
response 1333611

Ion	Exp%	Act%
265.90	100.00	100.00
164.90	50.60	45.06
201.90	25.80	24.03
129.90	27.30	22.69

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261901.D
 Acq On : 26 Sep 2019 02:01 pm
 Operator :
 Sample : 9I26035-TUN1
 Misc : 1x, A19I165 DFTPP@45
 ALS Vial : 1 Sample Multiplier: 1
 DataAcq Meth:DFTPP.M

Quant Time: Sep 27 11:24:41 2019
 Quant Method : U:\methods\DFTPP.M
 Quant Title : 8270 DFTPP Tune Method
 QLast Update : Thu Sep 05 08:50:46 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(7) Benzidine

12.552min (-0.006) 24.58 ug/mL

response 4606141

Ion	Exp%	Act%
184.10	100.00	100.00
156.10	8.50	7.36
92.10	8.20	9.31
0.00	0.00	0.00

DDT Breakdown Check (Validated 5/1/2013)

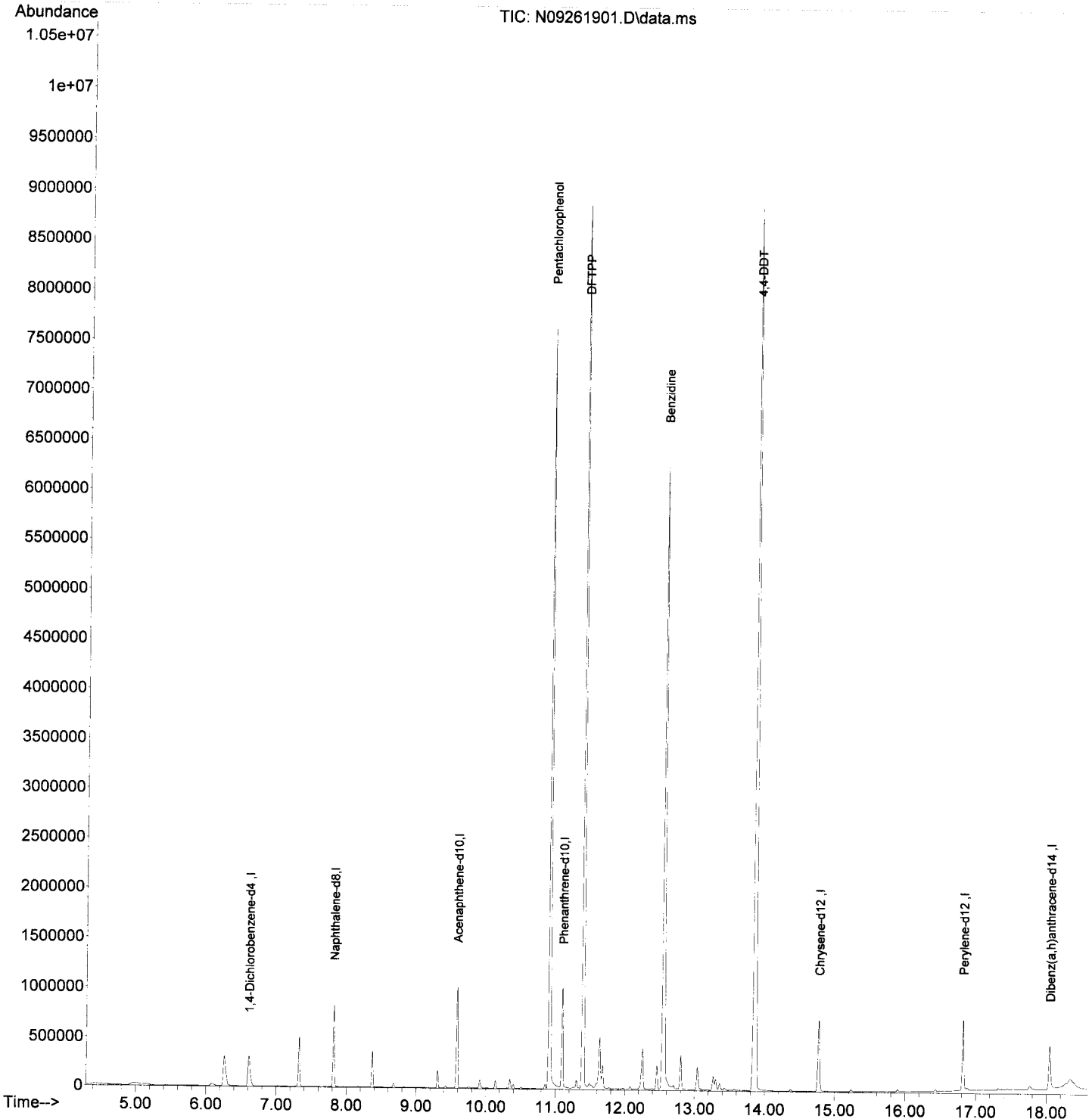
From:
9I26035-TUN1
SV-GCMS10

First Column Area Counts	Percent Breakdown	
DDE	496693	✓
DDD	154842	
DDT	18366796	3.43 PASS

Breakdown must be less than 20% to accept sample data.

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261901.D
 Acq On : 26 Sep 2019 02:01 pm
 Operator :
 Sample : 9I26035-TUN1
 Misc : 1x, A19I165 DFTPP@45
 ALS Vial : 1 Sample Multiplier: 1
 DataAcq Meth:DFTPP.M

Quant Time: Sep 27 11:24:41 2019
 Quant Method : U:\methods\DFTPP.M
 Quant Title : 8270 DFTPP Tune Method
 QLast Update : Thu Sep 05 08:50:46 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



Evaluate Continuing Calibration Report

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261902.D
 Acq On : 26 Sep 2019 02:29 pm
 Operator :
 Sample : 9I26035-CCV1
 Misc : 1x, A19I020@50
 ALS Vial : 2 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Handwritten: HMM 9/27/19

Quant Time: Sep 26 14:55:17 2019
 Quant Method : N:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound		Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Naphthalene-d8 (ISTD)	100.000	100.000	0.0	124	0.00
2 S	Nitrobenzene-d5 (Surr)	50.000	52.135	-4.3	132	0.00
3 T	Decalin	50.000	51.367	-2.7	126	0.00
4 T	Naphthalene	50.000	49.028	1.9	123	0.00
5 T	2-Methylnaphthalene	50.000	45.596	8.8	112	0.00
6 T	1-Methylnaphthalene	50.000	46.359	7.3	111	0.00
7 T	1,1'-Biphenyl	50.000	46.094	7.8	114	0.00
8 T	2,6-Dimethylnaphthalene	50.000	46.578	6.8	112	0.00
9 I	Acenaphthene-d10 (ISTD)	100.000	100.000	0.0	113	0.00
10 S	2-Fluorobiphenyl (Surr)	50.000	49.577	0.8	113	0.00
11 S	Acenaphthylene d-8 (Surr)	50.000	48.101	3.8	111	0.00
12 T	Acenaphthylene	50.000	49.755	0.5	113	0.00
13 T	Acenaphthene	50.000	49.773	0.5	115	0.00
14 T	Dibenzofuran	50.000	51.098	-2.2	116	0.00
15 T	1,6,7-Trimethylnaphthalene	50.000	49.761	0.5	115	0.00
16 T	Fluorene	50.000	51.420	-2.8	117	0.00
17 I	Phenanthrene-d10 (ISTD)	100.000	100.000	0.0	121	0.00
18 T	Dibenzothiopene	50.000	49.705	0.6	122	0.00
19 T	Phenanthrene	50.000	48.451	3.1	119	0.00
20 T	Anthracene	50.000	48.664	2.7	119	0.00
21 T	Carbazole	50.000	50.489	-1.0	123	-0.02
22 T	1-Methylphenanthrene	50.000	49.687	0.6	121	0.00
23 T	Fluoranthene	50.000	49.730	0.5	121	0.00
24 I	Chrysene-d12 (ISTD)	100.000	100.000	0.0	138	0.00
25 T	Pyrene	50.000	44.225	11.5	121	0.00
26 S	Terphenyl-d14 (Surr)	50.000	47.512	5.0	132	0.00
27 T	Benz(a)anthracene	50.000	47.201	5.6	138	0.00
28 T	Chrysene	50.000	49.096	1.8	137	0.00
29 I	Perylene-d12 (ISTD)	100.000	100.000	0.0	148	0.00
30 T	Benzo(b)fluoranthene	50.000	49.310	1.4	145	0.00
31 T	Benzo(k)fluoranthene	50.000	50.106	-0.2	151	0.00
32 T	Benzo(b+k)fluoranthene	100.000	100.009	-0.0	148	0.00
33 S	Benzo(a)pyrene d-12 (Surr)	50.000	52.004	-4.0	153	0.00
34 T	Benzo(e)pyrene	50.000	46.965	6.1	141	0.00
35 T	Benzo(a)pyrene	50.000	50.511	-1.0	147	0.00
36 T	Perylene	50.000	50.324	-0.6	149	0.00
37 I	Dibenz(a,h)Anthracene-d14 (IS	100.000	100.000	0.0	178	0.00
38 T	Indeno(1,2,3-cd)Pyrene	50.000	45.757	8.5	164	0.00
39 T	Dibenz(a,h)anthracene	50.000	48.453	3.1	175	0.00
40 T	Benzo(g,h,i)perylene	50.000	46.693	6.6	164	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261902.D
 Acq On : 26 Sep 2019 02:29 pm
 Operator :
 Sample : 9I26035-CCV1
 Misc : 1x, A19I020@50
 ALS Vial : 2 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

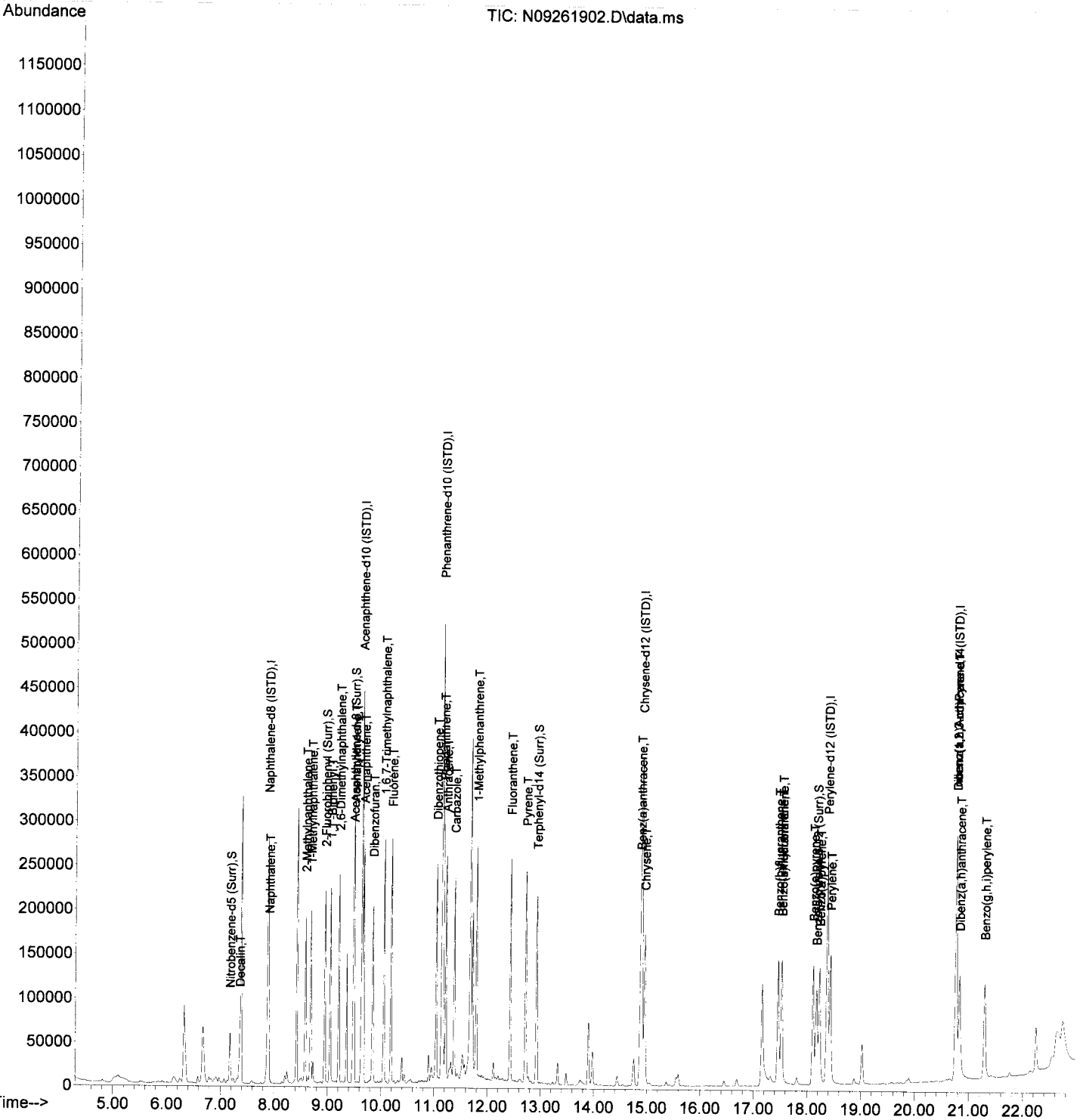
Quant Time: Sep 27 11:28:12 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Naphthalene-d8 (ISTD)	7.877	136	183404	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.632	162	133678	100.00	ng/ml	0.00	
17) Phenanthrene-d10 (ISTD)	11.141	188	265548	100.00	ng/ml	0.00	
24) Chrysene-d12 (ISTD)	14.901	240	234147	100.00	ng/ml	0.00	
29) Perylene-d12 (ISTD)	18.375	264	211145	100.00	ng/ml	0.00	
37) Dibenz(a,h)Anthrcene-d...	20.759	292	166237	100.00	ng/ml	0.00	
System Monitoring Compounds							
2) Nitrobenzene-d5 (Surr)	7.178	82	31773	52.13	ng/ml	0.00	
10) 2-Fluorobiphenyl (Surr)	8.944	172	98869	49.58	ng/ml	0.00	
11) Acenaphthylene d-8 (Surr)	9.474	160	132190	48.10	ng/ml	0.00	
26) Terphenyl-d14 (Surr)	12.925	244	117002	47.51	ng/ml	0.00	
33) Benzo(a)pyrene d-12 (S...	18.177	264	87811	52.00	ng/ml	0.00	
Target Compounds							
							Qvalue
3) Decalin	7.359	138	7014	51.37	ng/ml		95
4) Naphthalene	7.901	128	99174	49.03	ng/ml		100
5) 2-Methylnaphthalene	8.583	142	78157	45.60	ng/ml		97
6) 1-Methylnaphthalene	8.682	142	79451	46.36	ng/ml		98
7) 1,1'-Biphenyl	9.049	154	106266	46.09	ng/ml		98
8) 2,6-Dimethylnaphthalene	9.206	156	78422	46.58	ng/ml		98
12) Acenaphthylene	9.492	152	144396	49.76	ng/ml		99
13) Acenaphthene	9.667	153	94610	49.77	ng/ml		99
14) Dibenzofuran	9.842	168	121659	51.10	ng/ml		98
15) 1,6,7-Trimethylnaphtha...	10.051	170	79327	49.76	ng/ml		100
16) Fluorene	10.191	166	100019	51.42	ng/ml		99
18) Dibenzothiopene	11.036	184	138046	49.71	ng/ml		97
19) Phenanthrene	11.165	178	150554	48.45	ng/ml		99
20) Anthracene	11.217	178	140656	48.66	ng/ml		99
21) Carbazole	11.374	167	118083	50.49	ng/ml		99
22) 1-Methylphenanthrene	11.794	192	107255	49.69	ng/ml		99
23) Fluoranthene	12.429	202	155692	49.73	ng/ml		99
25) Pyrene	12.721	202	161784	44.23	ng/ml		99
27) Benz(a)anthracene	14.878	228	128317	47.20	ng/ml		99
28) Chrysene	14.959	228	126303	49.10	ng/ml		100
30) Benzo(b)fluoranthene	17.460	252	120138	49.31	ng/ml		97
31) Benzo(k)fluoranthene	17.530	252	120195	50.11	ng/ml		95
32) Benzo(b+k)fluoranthene	17.530	252	249229	100.01	ng/ml		95
34) Benzo(e)pyrene	18.112	252	115702	46.97	ng/ml		99
35) Benzo(a)pyrene	18.235	252	105334	50.51	ng/ml		98
36) Perylene	18.433	252	129255	50.32	ng/ml		99
38) Indeno(1,2,3-cd)Pyrene	20.759	276	93812	45.76	ng/ml		87
39) Dibenz(a,h)anthracene	20.829	278	93342	48.45	ng/ml		88
40) Benzo(g,h,i)perylene	21.295	276	101552	46.69	ng/ml		87

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261902.D
 Acq On : 26 Sep 2019 02:29 pm
 Operator :
 Sample : 9I26035-CCV1
 Misc : 1x, A19I020@50
 ALS Vial : 2 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 11:28:12 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



Data Path : U:\data\2019-09\9I26035\
 Data File : N09261903.D
 Acq On : 26 Sep 2019 03:02 pm
 Operator :
 Sample : 9I26035-CCB1
 Misc : 1x, DCM + ISTD
 ALS Vial : 3 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

JML 9/27/19

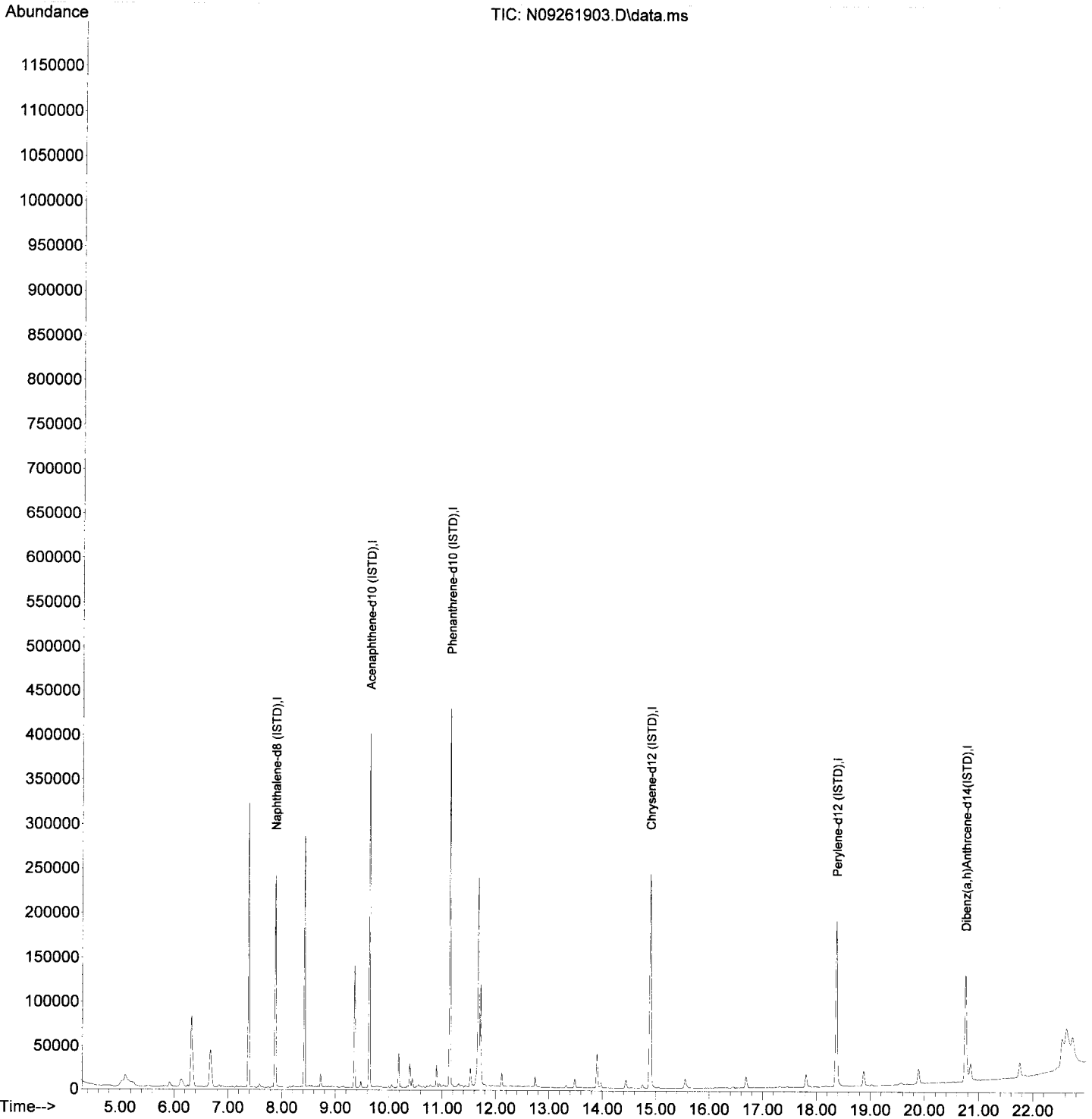
Quant Time: Sep 27 11:28:58 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Naphthalene-d8 (ISTD)	7.877	136	161011	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.632	162	118187	100.00	ng/ml	0.00	
17) Phenanthrene-d10 (ISTD)	11.141	188	224683	100.00	ng/ml	0.00	
24) Chrysene-d12 (ISTD)	14.895	240	176936	100.00	ng/ml	-0.01	
29) Perylene-d12 (ISTD)	18.369	264	148515	100.00	ng/ml	0.00	
37) Dibenz(a,h)Anthracene-d...	20.753	292	114192	100.00	ng/ml	-0.01	
System Monitoring Compounds							
2) Nitrobenzene-d5 (Surr)	7.073	82	73	0.14	ng/ml	-0.11	
10) 2-Fluorobiphenyl (Surr)	0.000	172	0	0.00	ng/ml		
11) Acenaphthylene d-8 (Surr)	9.474	160	4318	0.37	ng/ml	0.00	
26) Terphenyl-d14 (Surr)	12.925	244	73	0.04	ng/ml	0.00	
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml		
Target Compounds							
3) Decalin	0.000		0	N.D.			Qvalue
4) Naphthalene	7.901	128	109	N.D.			
5) 2-Methylnaphthalene	0.000		0	N.D.			
6) 1-Methylnaphthalene	0.000		0	N.D.			
7) 1,1'-Biphenyl	0.000		0	N.D.			
8) 2,6-Dimethylnaphthalene	0.000		0	N.D.			
12) Acenaphthylene	0.000		0	N.D.			
13) Acenaphthene	0.000		0	N.D.			
14) Dibenzofuran	0.000		0	N.D.			
15) 1,6,7-Trimethylnaphtha...	0.000		0	N.D.			
16) Fluorene	0.000		0	N.D.			
18) Dibenzothiopene	0.000		0	N.D.			
19) Phenanthrene	11.165	178	221	N.D.			
20) Anthracene	11.165	178	212	N.D.			
21) Carbazole	11.380	167	80	N.D.			
22) 1-Methylphenanthrene	0.000		0	N.D.			
23) Fluoranthene	12.424	202	82	N.D.			
25) Pyrene	12.721	202	115	N.D.			
27) Benz(a)anthracene	14.901	228	592	N.D.			
28) Chrysene	14.953	228	116	N.D.			
30) Benzo(b)fluoranthene	0.000		0	N.D.			
31) Benzo(k)fluoranthene	0.000		0	N.D.			
32) Benzo(b+k)fluoranthene	0.000		0	N.D.			
34) Benzo(e)pyrene	18.369	252	461	N.D.			
35) Benzo(a)pyrene	0.000		0	N.D.			
36) Perylene	18.369	252	471	N.D.			
38) Indeno(1,2,3-cd)Pyrene	0.000		0	N.D.			
39) Dibenz(a,h)anthracene	0.000		0	N.D.			
40) Benzo(g,h,i)perylene	0.000		0	N.D.			

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : U:\data\2019-09\9I26035\
Data File : N09261903.D
Acq On : 26 Sep 2019 03:02 pm
Operator :
Sample : 9I26035-CCB1
Misc : 1x, DCM + ISTD
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 11:28:58 2019
Quant Method : U:\methods\SV14_090619_PAH.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Sep 09 14:58:53 2019
Response via : Initial Calibration
InstName : SV-GCMS14



Data Path : U:\data\2019-09\9I26035\
 Data File : N09261904.D
 Acq On : 26 Sep 2019 03:34 pm
 Operator :
 Sample : 9091304-BLK1
 Misc : 1x, 8270D LL PAH ONLY
 ALS Vial : 4 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Handwritten: JEM 9127119
 B, B02, RR2

Quant Time: Sep 27 11:29:02 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

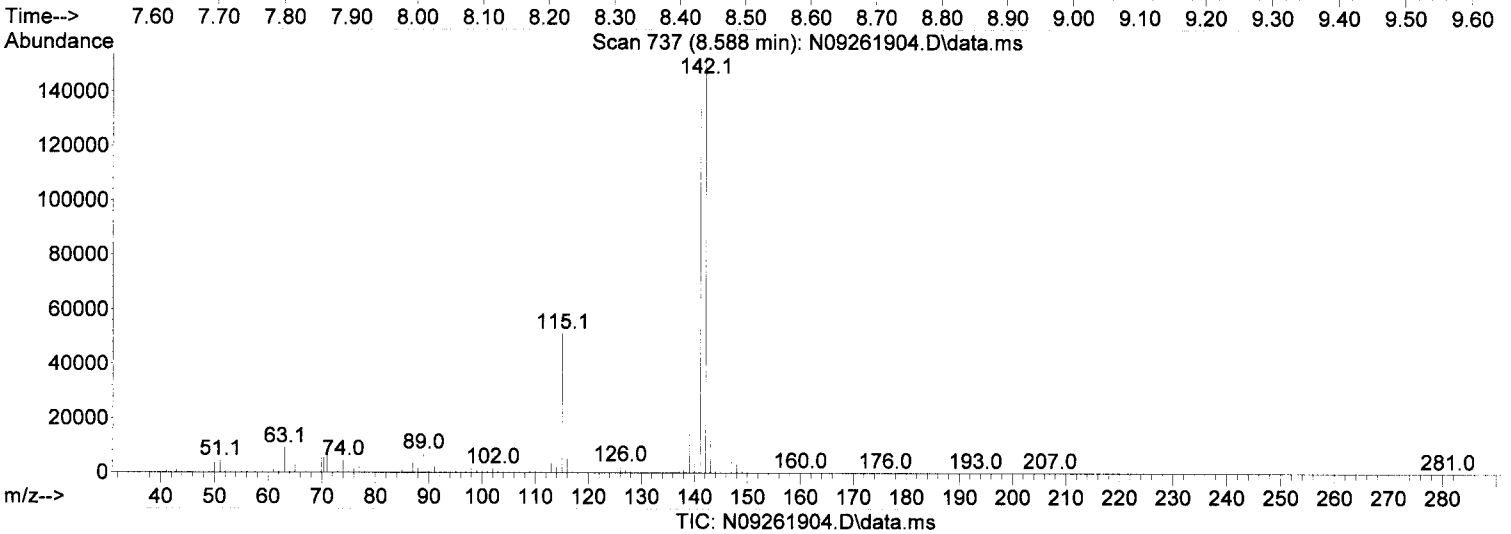
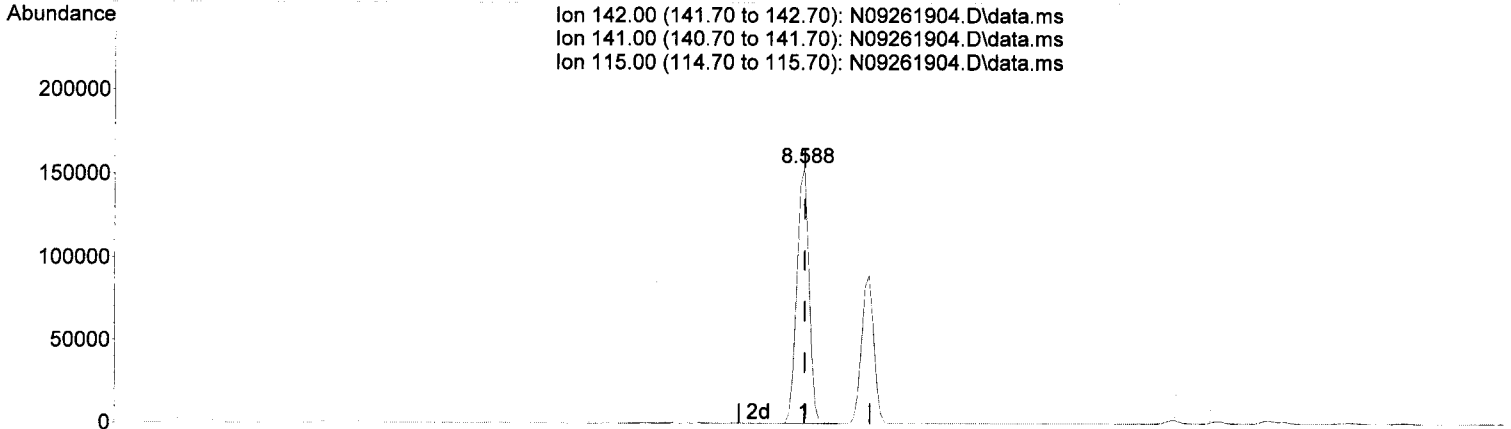
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	Qvalue
Internal Standards							
1) Naphthalene-d8 (ISTD)	7.883	136	145324	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.638	162	123956	100.00	ng/ml	0.00	
17) Phenanthrene-d10 (ISTD)	11.141	188	241466	100.00	ng/ml	0.00	
24) Chrysene-d12 (ISTD)	14.907	240	203752	100.00	ng/ml	0.00	
29) Perylene-d12 (ISTD)	18.375	264	176592	100.00	ng/ml	0.00	
37) Dibenz(a,h)Anthracene-d...	20.764	292	142990	100.00	ng/ml	0.00	
System Monitoring Compounds							
2) Nitrobenzene-d5 (Surr)	7.178	82	44082	91.29	ng/ml	0.00	
10) 2-Fluorobiphenyl (Surr)	8.950	172	167377	90.51	ng/ml	0.00	
11) Acenaphthylene d-8 (Surr)	9.480	160	3383	-1.00	ng/ml	0.00	
26) Terphenyl-d14 (Surr)	12.931	244	209622	97.82	ng/ml	0.00	
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml		
Target Compounds							
3) Decalin	7.522	138	58	0.54	ng/ml#		1
4) Naphthalene	7.901	128	1583549	987.98	ng/ml		99 - RR2 - B
5) 2-Methylnaphthalene	8.588	142	201773	148.56	ng/ml		98 B
6) 1-Methylnaphthalene	8.687	142	117371	86.43	ng/ml		98 B
7) 1,1'-Biphenyl	9.049	154	53831	29.47	ng/ml		97
8) 2,6-Dimethylnaphthalene	9.218	156	28417	21.30	ng/ml		97
12) Acenaphthylene	9.492	152	7078	2.63	ng/ml		85 j B02
13) Acenaphthene	9.673	153	100138	56.81	ng/ml		99 - B02
14) Dibenzofuran	9.842	168	7913	3.58	ng/ml		93 j
15) 1,6,7-Trimethylnaphtha...	10.051	170	3791	2.56	ng/ml		79 j
16) Fluorene	10.191	166	25718	14.26	ng/ml		98 B
18) Dibenzothiophene	11.036	184	9173	3.63	ng/ml		98 j B02
19) Phenanthrene	11.165	178	68996	24.42	ng/ml		100 j B
20) Anthracene	11.217	178	9875	3.76	ng/ml		97 j B02
21) Carbazole	11.380	167	997	0.47	ng/ml		87
22) 1-Methylphenanthrene	11.794	192	2151	1.10	ng/ml		94
23) Fluoranthene	12.429	202	9382	3.30	ng/ml		98 j B02
25) Pyrene	12.721	202	9887	3.11	ng/ml		97 j B02
27) Benz(a)anthracene	14.895	228	1144	0.48	ng/ml		84
28) Chrysene	14.965	228	813	N.D.			
30) Benzo(b)fluoranthene	17.471	252	637	N.D.			
31) Benzo(k)fluoranthene	17.535	252	173	N.D.			
32) Benzo(b+k)fluoranthene	17.471	252	810	N.D.			
34) Benzo(e)pyrene	18.112	252	327	N.D.			
35) Benzo(a)pyrene	18.229	252	388	N.D.			
36) Perylene	18.421	252	127	N.D.			
38) Indeno(1,2,3-cd)Pyrene	20.759	276	358	N.D.			
39) Dibenz(a,h)anthracene	0.000		0	N.D.			
40) Benzo(g,h,i)perylene	21.295	276	256	N.D.			

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261904.D
 Acq On : 26 Sep 2019 03:34 pm
 Operator :
 Sample : 9091304-BLK1
 Misc : 1x, 8270D LL PAH ONLY
 ALS Vial : 4 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 11:29:02 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(5) 2-Methylnaphthalene (T)

8.588min (-0.000) 148.56 ng/ml

B

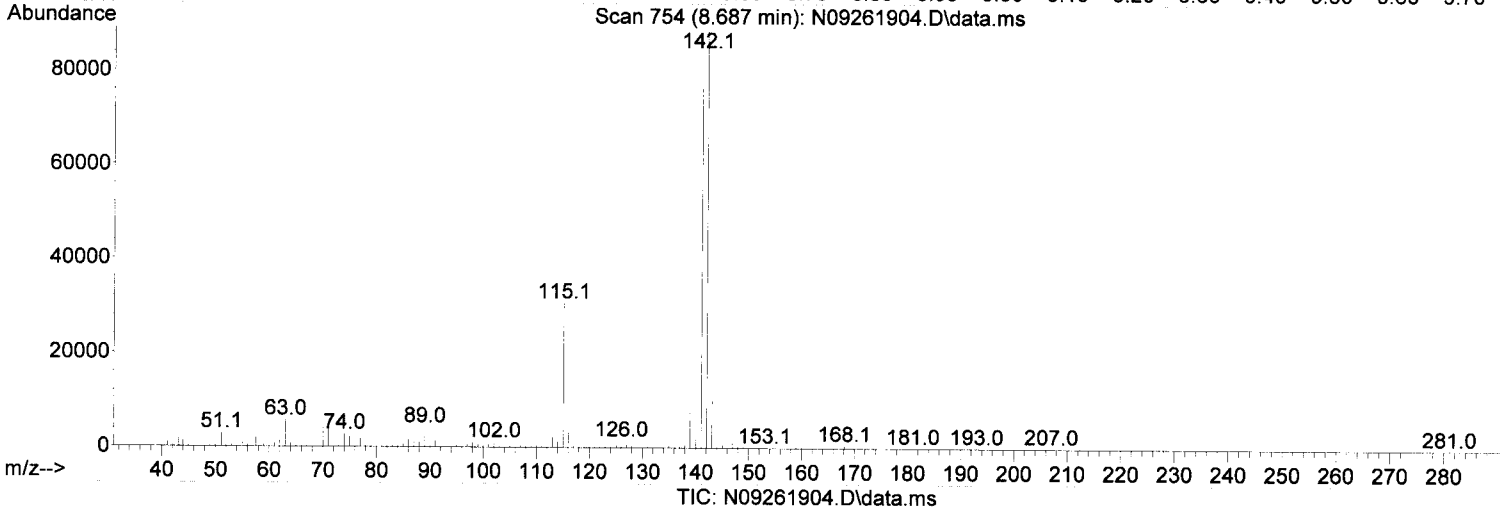
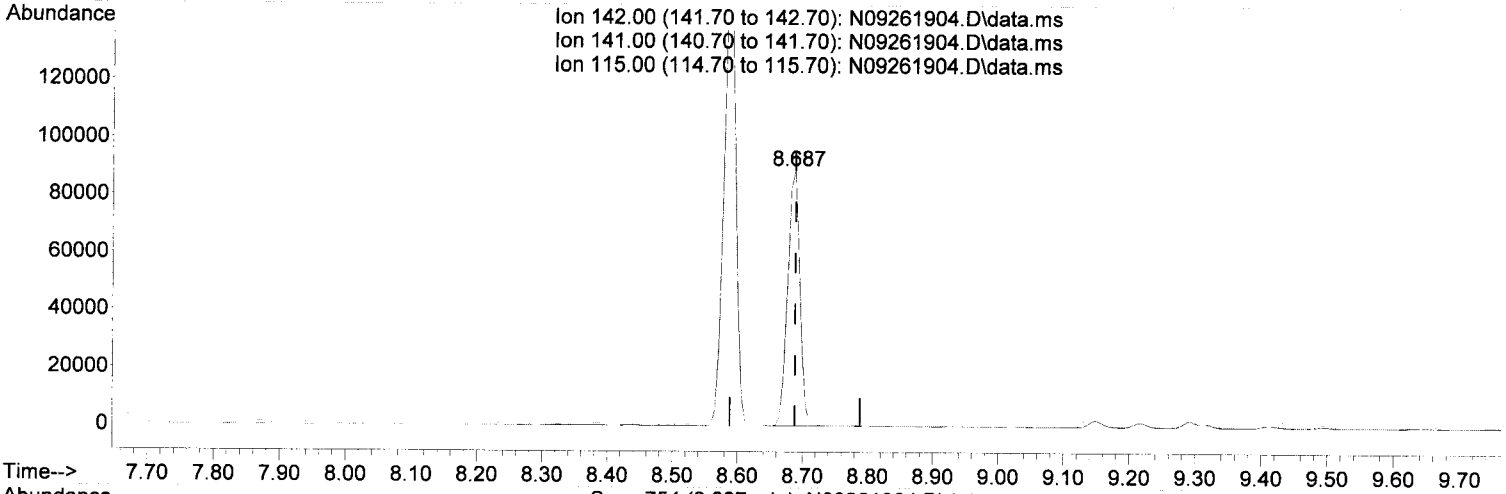
response 201773

Ion	Exp%	Act%
142.00	100.00	100.00
141.00	86.60	87.07
115.00	35.70	33.37
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261904.D
 Acq On : 26 Sep 2019 03:34 pm
 Operator :
 Sample : 9091304-BLK1
 Misc : 1x, 8270D LL PAH ONLY
 ALS Vial : 4 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 11:29:02 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(6) 1-Methylnaphthalene (T)

8.687min (-0.000) 86.43 ng/ml

B

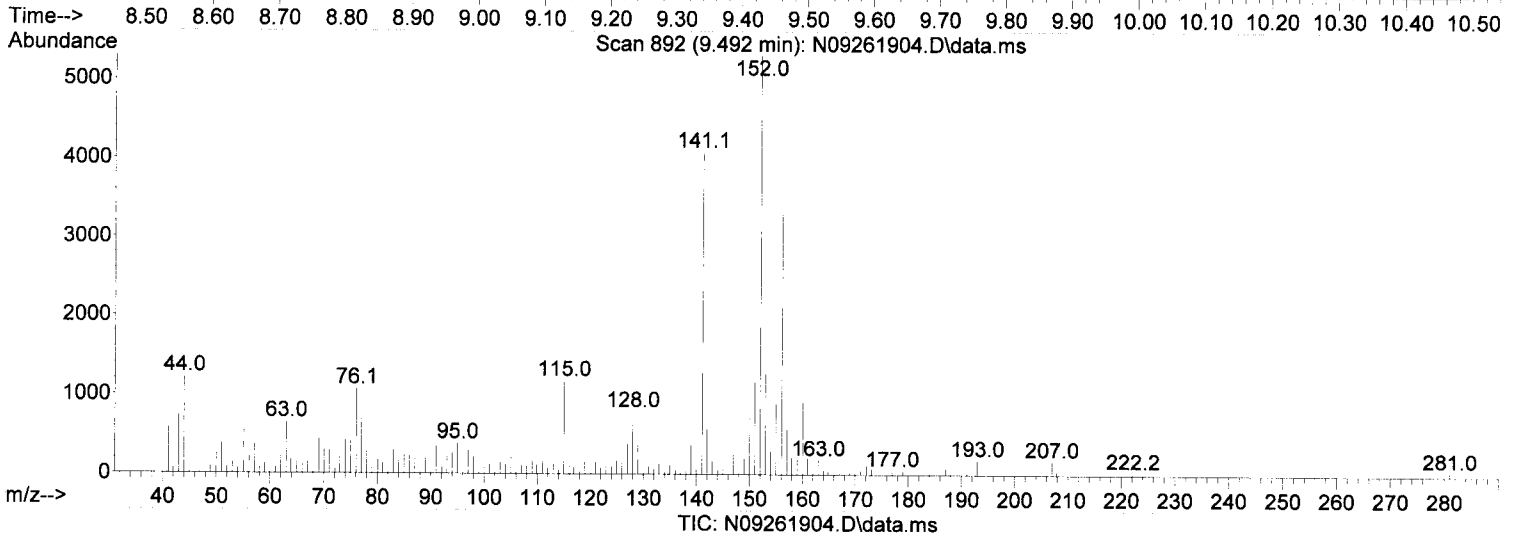
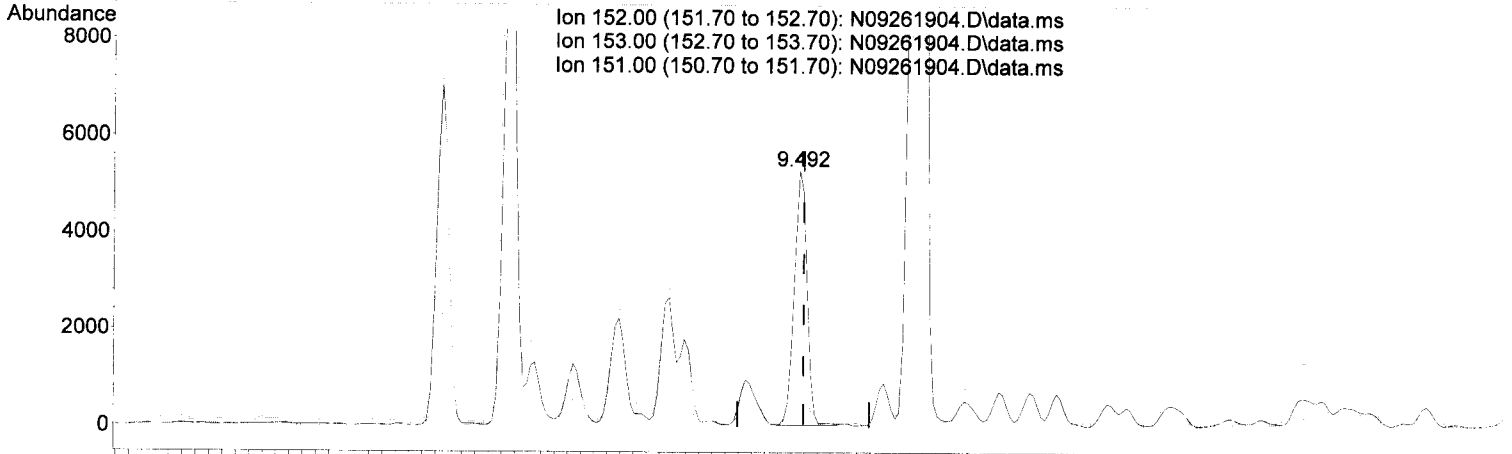
response 117371

Ion	Exp%	Act%
142.00	100.00	100.00
141.00	90.70	90.27
115.00	37.80	34.44
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261904.D
 Acq On : 26 Sep 2019 03:34 pm
 Operator :
 Sample : 9091304-BLK1
 Misc : 1x, 8270D LL PAH ONLY
 ALS Vial : 4 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 11:29:02 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(12) Acenaphthylene (T)

9.492min (-0.006) 2.63 ng/ml

B02

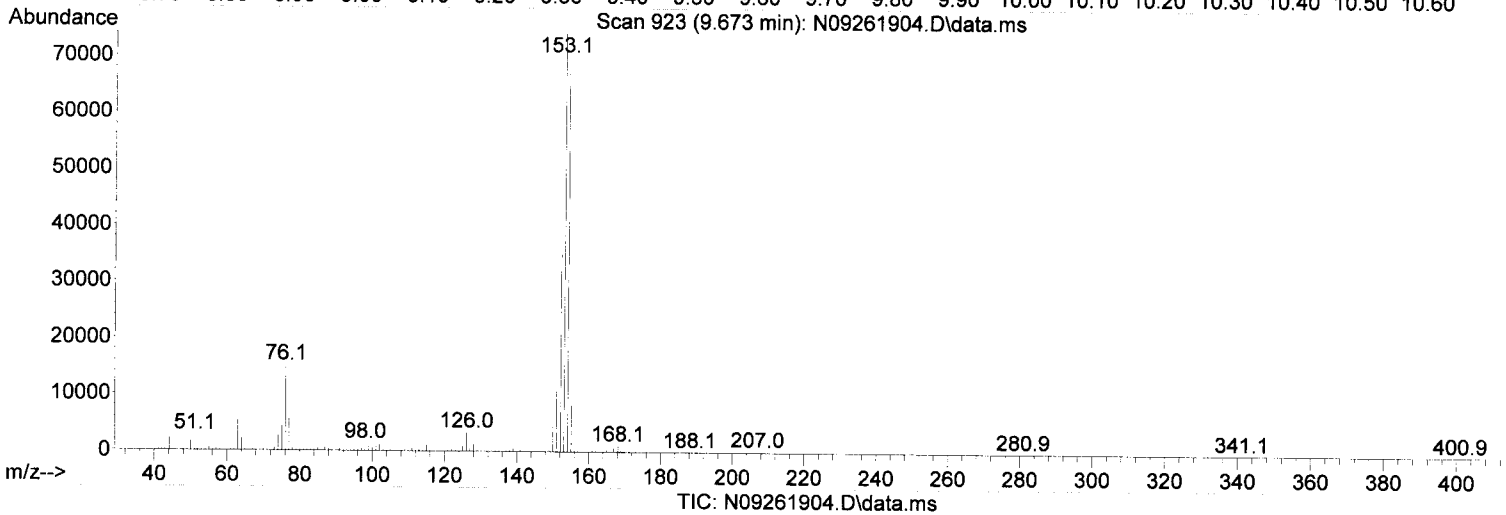
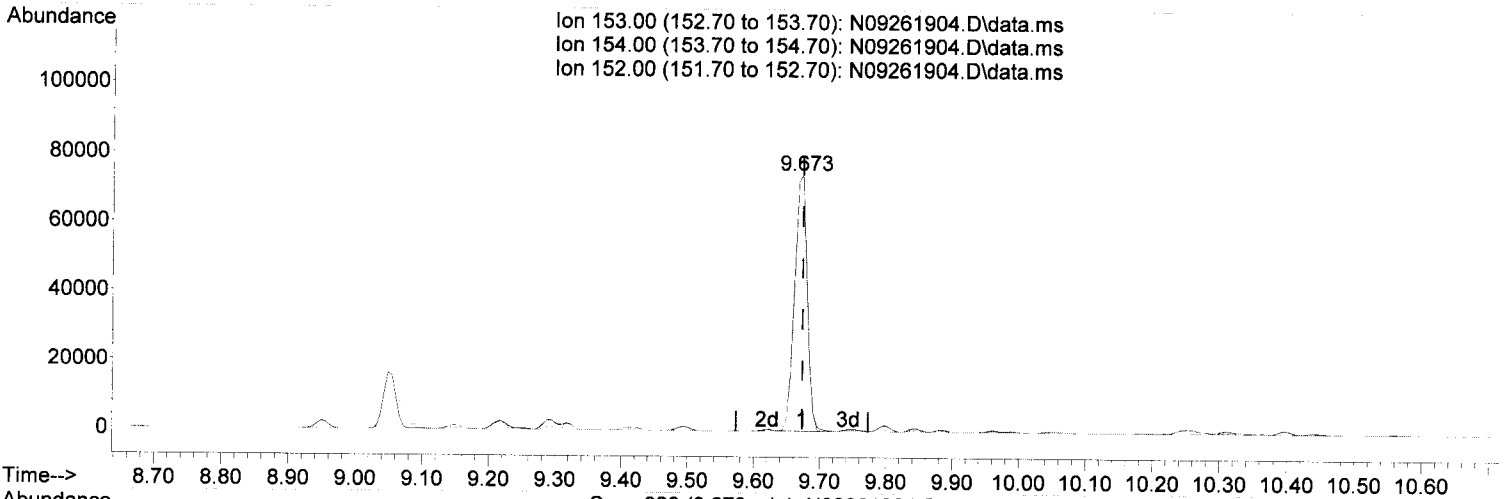
response 7078

Ion	Exp%	Act%
152.00	100.00	100.00
153.00	12.70	24.08
151.00	19.30	22.29
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261904.D
 Acq On : 26 Sep 2019 03:34 pm
 Operator :
 Sample : 9091304-BLK1
 Misc : 1x, 8270D LL PAH ONLY
 ALS Vial : 4 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 11:29:02 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(13) Acenaphthene (T)

9.673min (-0.000) 56.81 ng/ml

B

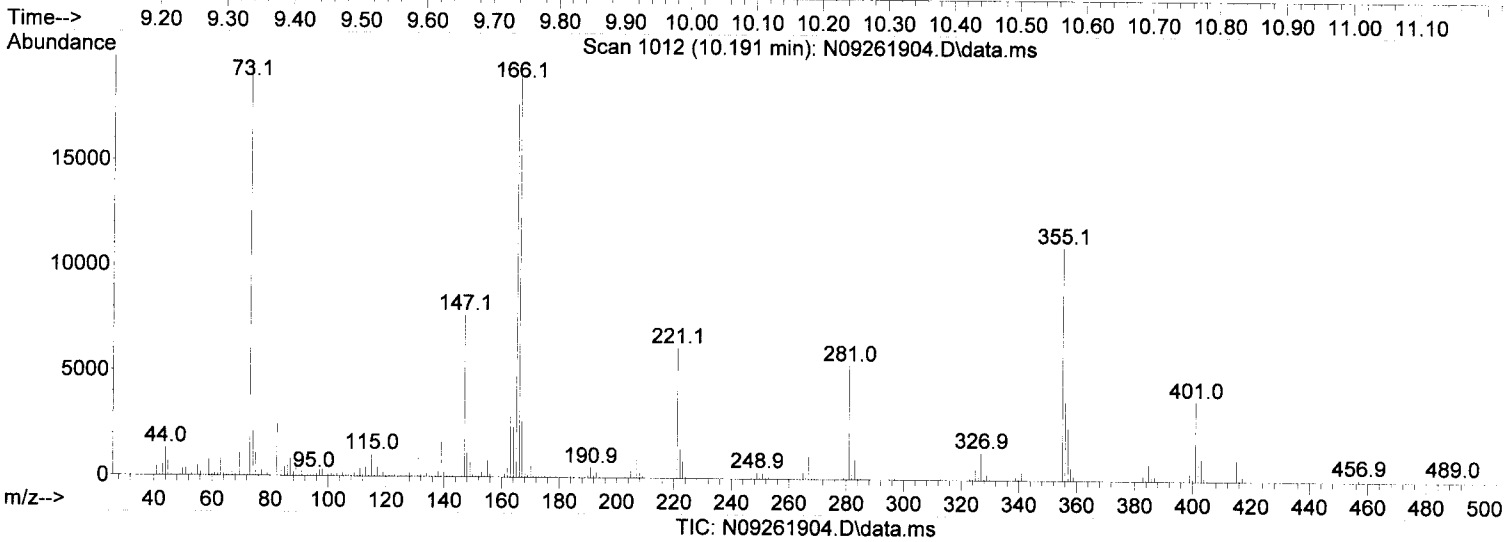
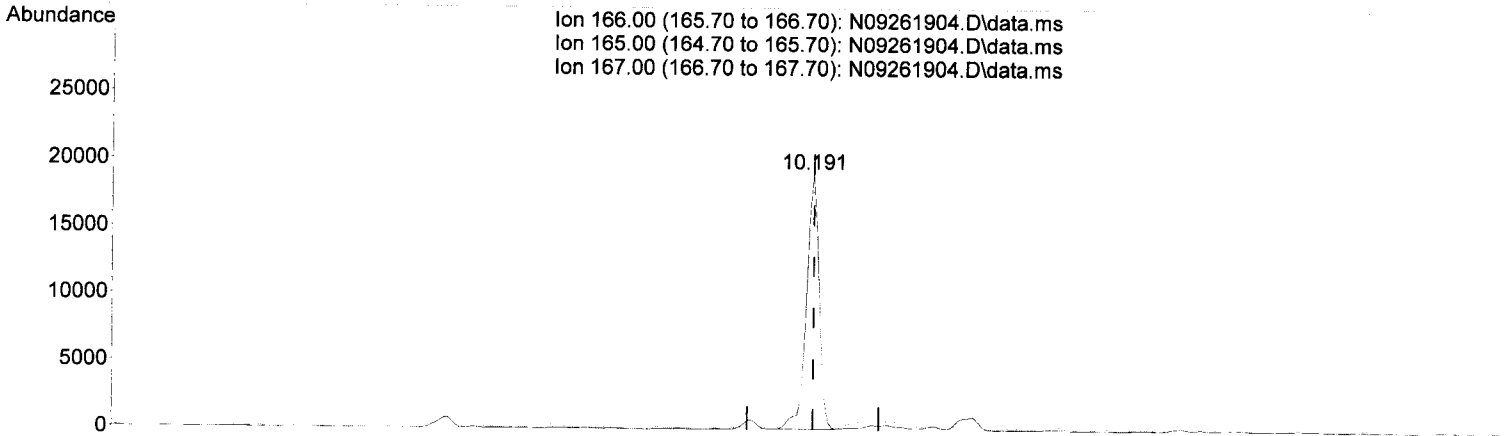
response 100138

Ion	Exp%	Act%
153.00	100.00	100.00
154.00	90.70	91.23
152.00	46.80	47.16
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261904.D
 Acq On : 26 Sep 2019 03:34 pm
 Operator :
 Sample : 9091304-BLK1
 Misc : 1x, 8270D LL PAH ONLY
 ALS Vial : 4 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 11:29:02 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(16) Fluorene (T)

10.191min (-0.000) 14.26 ng/ml

B

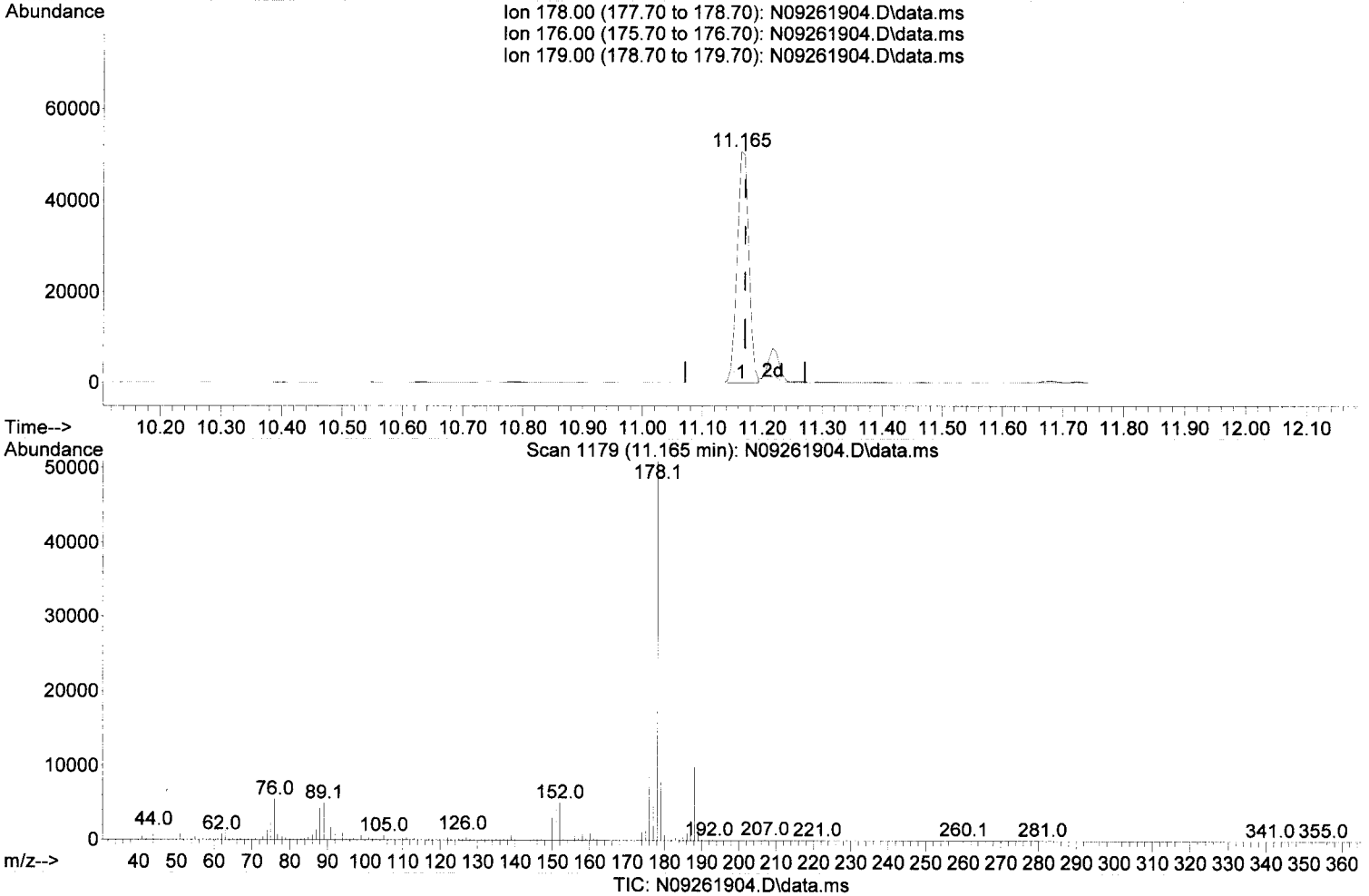
response 25718

Ion	Exp%	Act%
166.00	100.00	100.00
165.00	95.70	93.42
167.00	13.60	13.96
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261904.D
 Acq On : 26 Sep 2019 03:34 pm
 Operator :
 Sample : 9091304-BLK1
 Misc : 1x, 8270D LL PAH ONLY
 ALS Vial : 4 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 11:29:02 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(19) Phenanthrene (T)

11.165min (-0.006) 24.42 ng/ml

B

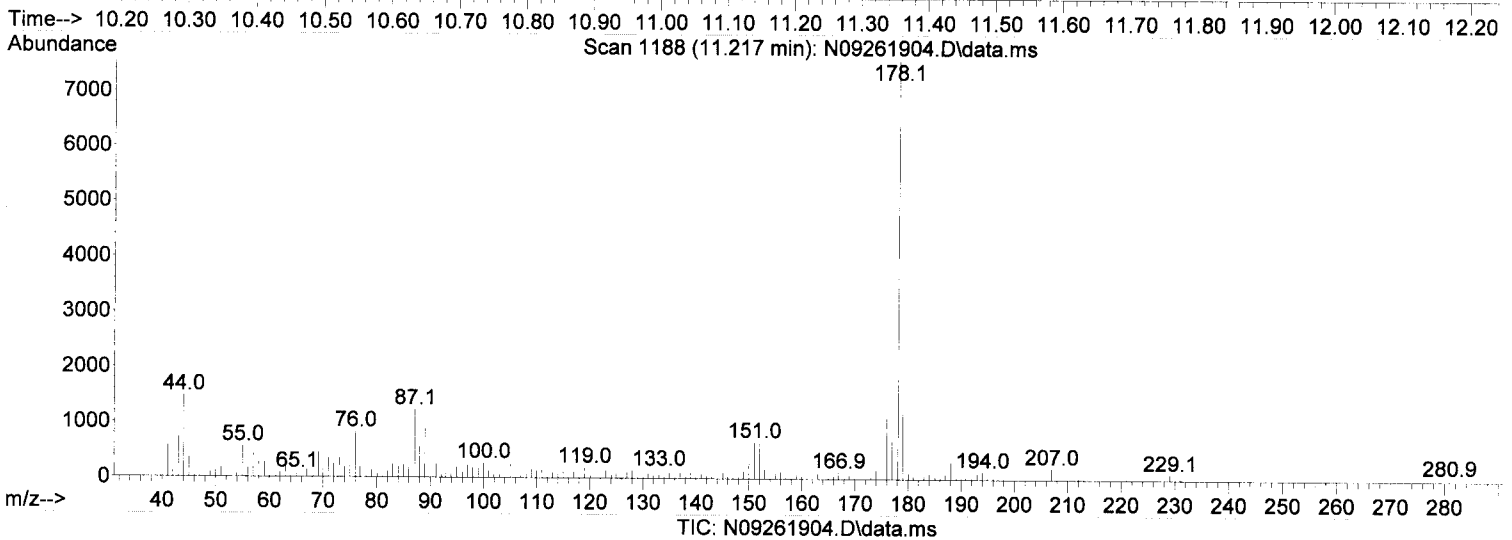
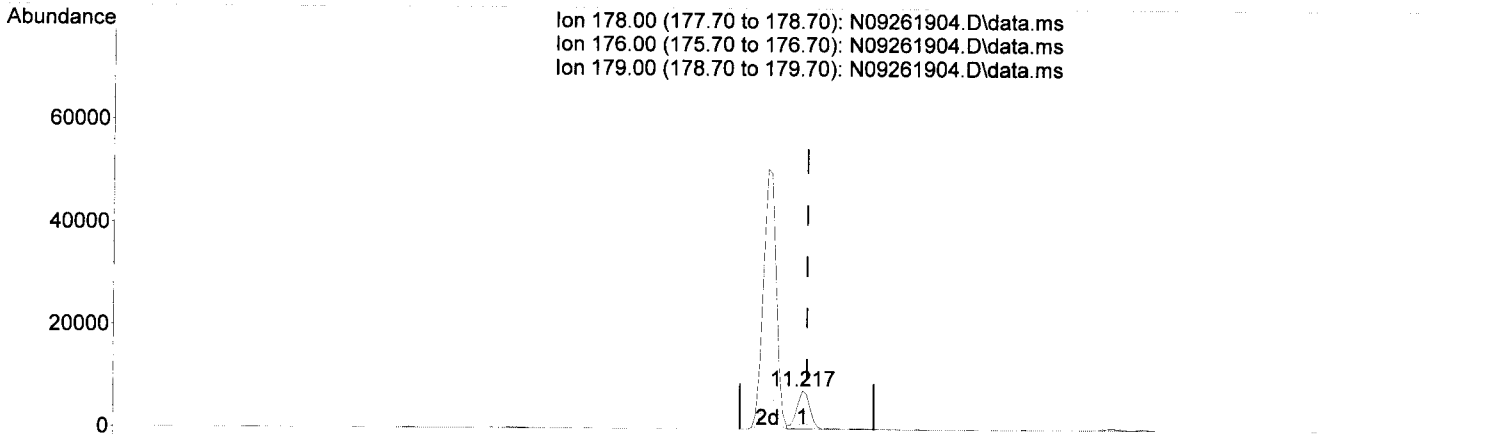
response 68996

Ion	Exp%	Act%
178.00	100.00	100.00
176.00	19.00	19.02
179.00	15.10	15.49
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261904.D
 Acq On : 26 Sep 2019 03:34 pm
 Operator :
 Sample : 9091304-BLK1
 Misc : 1x, 8270D LL PAH ONLY
 ALS Vial : 4 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 11:29:02 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(20) Anthracene (T)

11.217min (-0.006) 3.76 ng/ml

B02

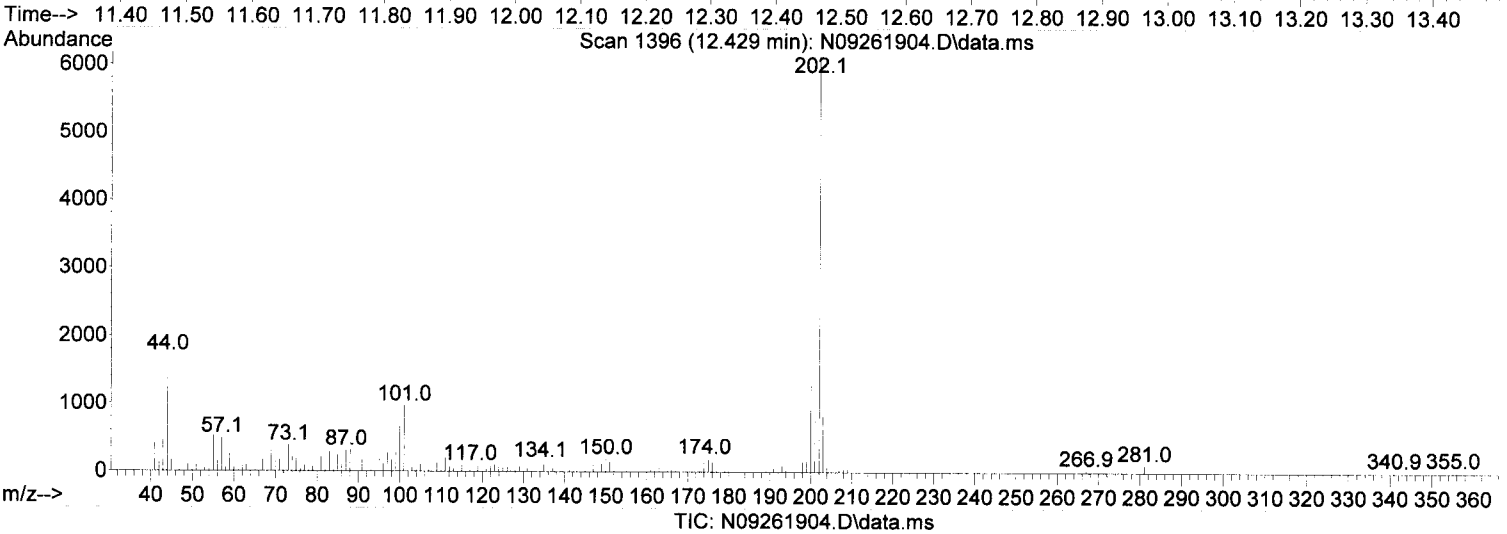
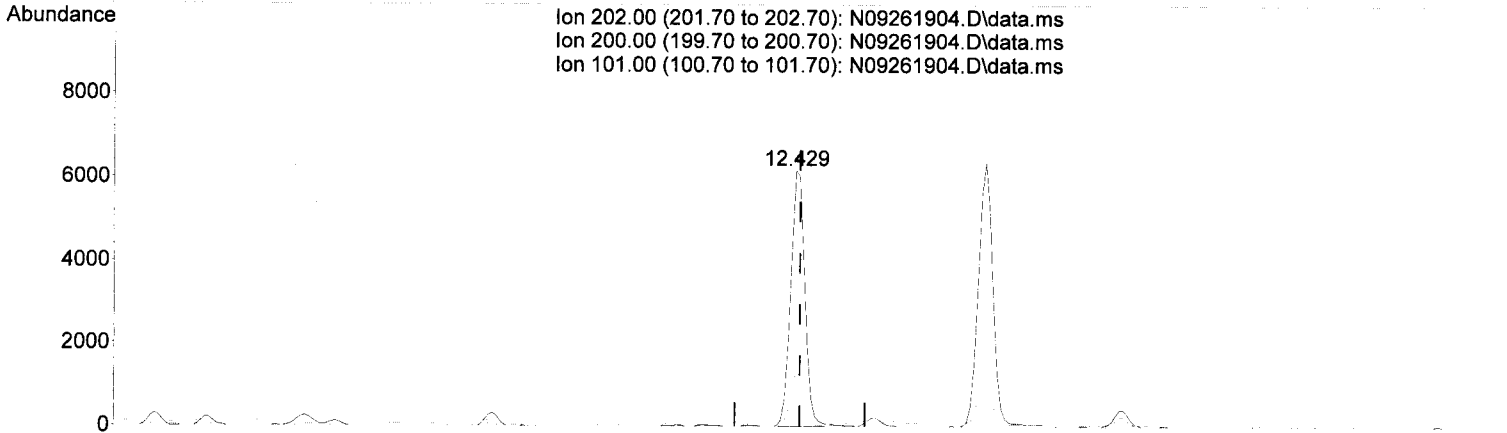
response 9875

Ion	Exp%	Act%
178.00	100.00	100.00
176.00	18.90	17.65
179.00	15.30	16.75
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261904.D
 Acq On : 26 Sep 2019 03:34 pm
 Operator :
 Sample : 9091304-BLK1
 Misc : 1x, 8270D LL PAH ONLY
 ALS Vial : 4 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 11:29:02 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(23) Fluoranthene (T)

12.429min (-0.006) 3.30 ng/ml

B02

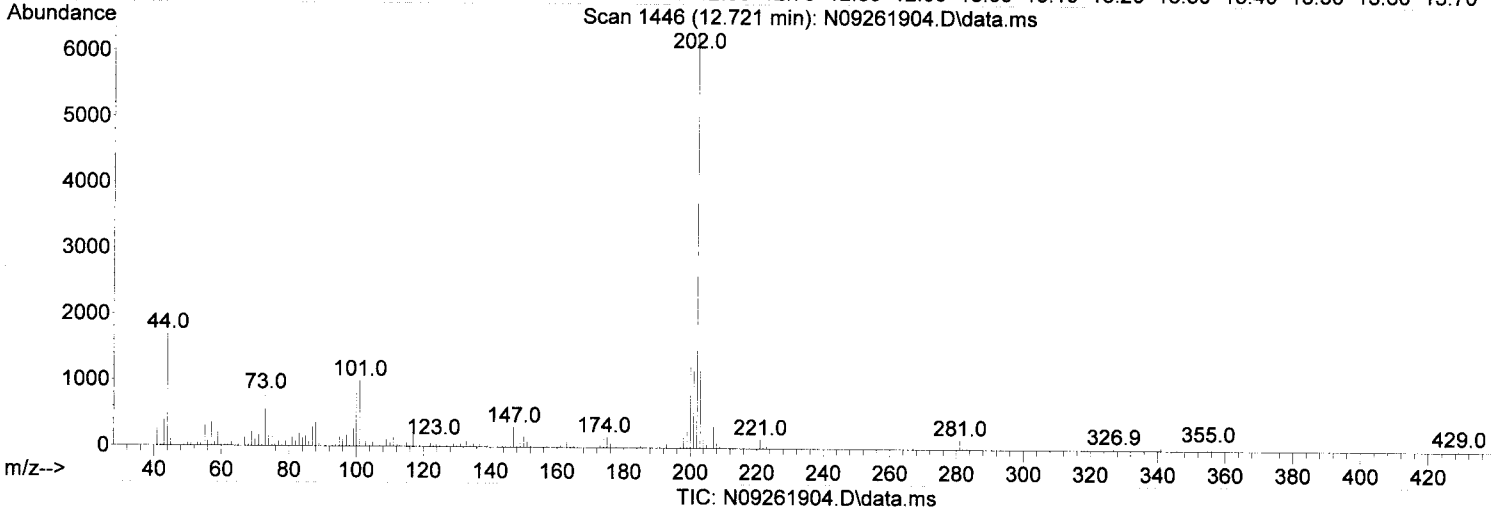
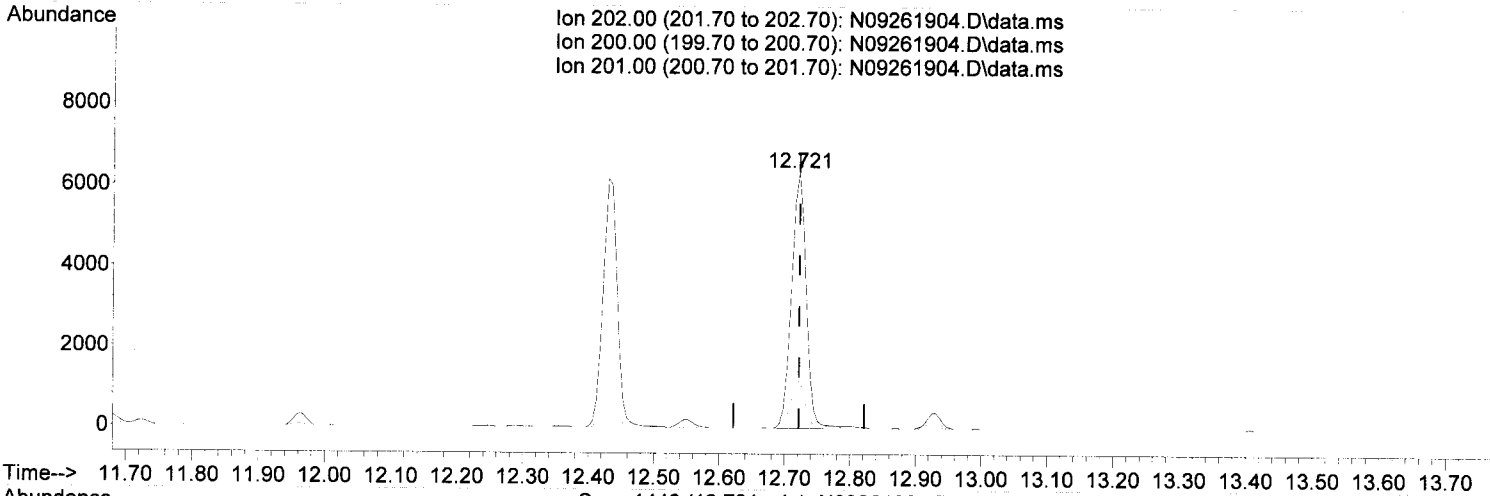
response 9382

Ion	Exp%	Act%
202.00	100.00	100.00
200.00	19.70	21.13
101.00	15.30	15.75
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261904.D
 Acq On : 26 Sep 2019 03:34 pm
 Operator :
 Sample : 9091304-BLK1
 Misc : 1x, 8270D LL PAH ONLY
 ALS Vial : 4 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 11:29:02 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(25) Pyrene (T)

12.721min (-0.000) 3.11 ng/ml

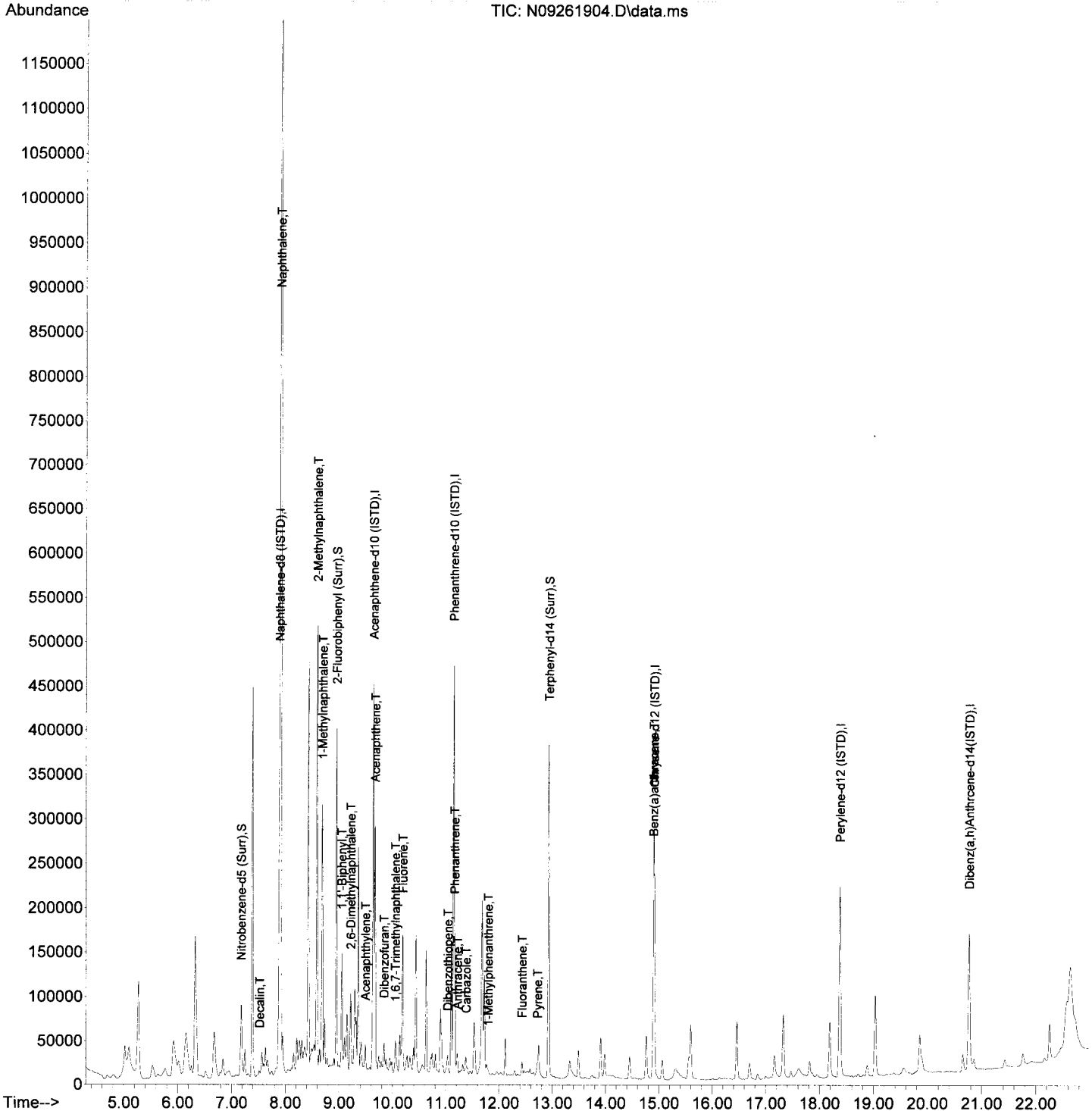
Boz

response 9887

Ion	Exp%	Act%
202.00	100.00	100.00
200.00	20.70	19.50
201.00	16.80	18.43
0.00	0.00	0.00

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261904.D
 Acq On : 26 Sep 2019 03:34 pm
 Operator :
 Sample : 9091304-BLK1
 Misc : 1x, 8270D LL PAH ONLY
 ALS Vial : 4 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 11:29:02 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



Data Path : U:\data\2019-09\9I26035\
 Data File : N09261905.D
 Acq On : 26 Sep 2019 04:07 pm
 Operator :
 Sample : 9091304-BS1
 Misc : 1x, 8270D LL PAH ONLY
 ALS Vial : 5 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Handwritten: JML 9/27/19

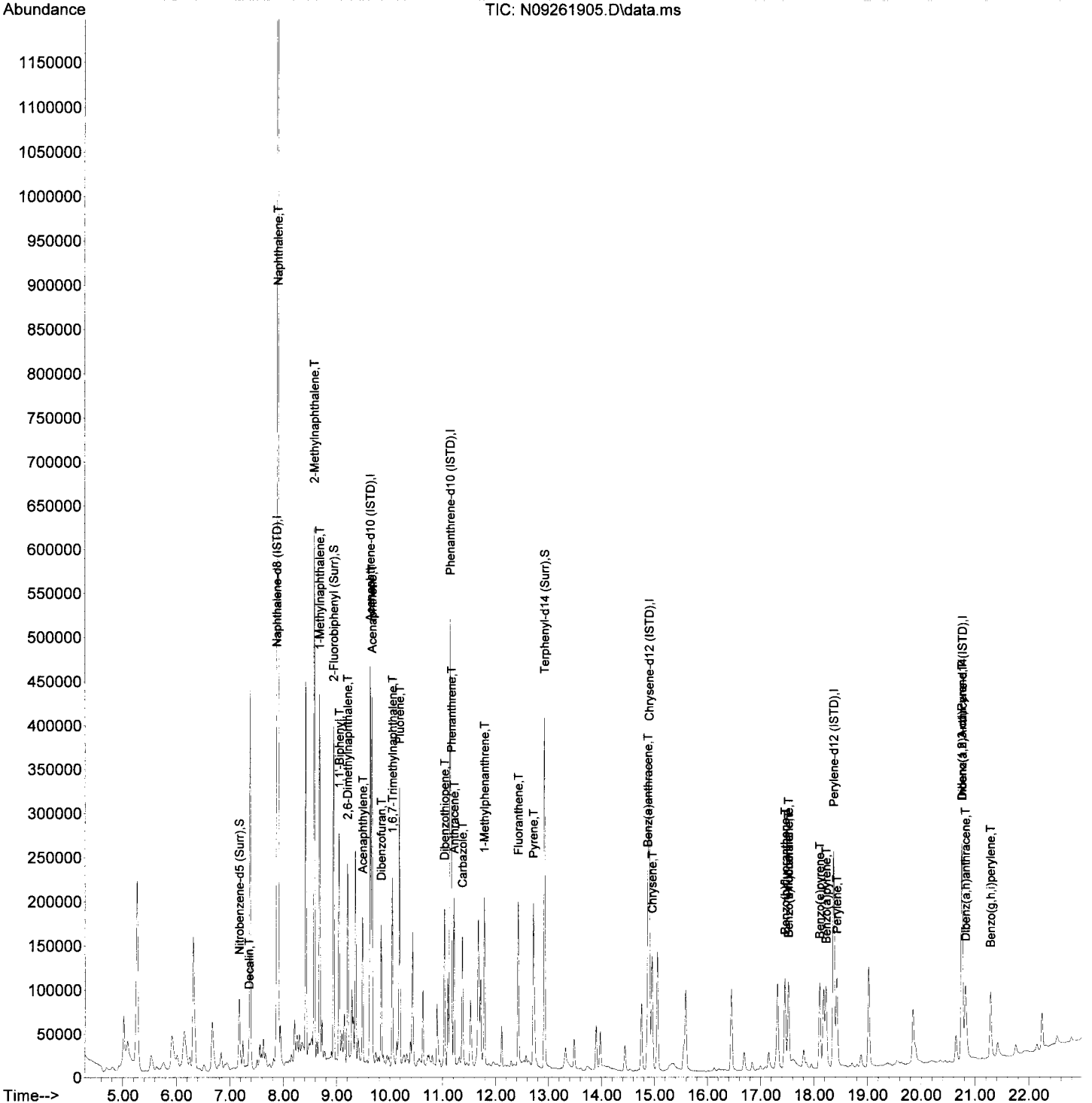
Quant Time: Sep 27 11:29:05 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Naphthalene-d8 (ISTD)	7.877	136	147572	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.632	162	130257	100.00	ng/ml	0.00	
17) Phenanthrene-d10 (ISTD)	11.141	188	256394	100.00	ng/ml	0.00	
24) Chrysene-d12 (ISTD)	14.901	240	229224	100.00	ng/ml	0.00	
29) Perylene-d12 (ISTD)	18.369	264	200096	100.00	ng/ml	0.00	
37) Dibenz(a,h)Anthracene-d...	20.758	292	161803	100.00	ng/ml	0.00	
System Monitoring Compounds							
2) Nitrobenzene-d5 (Surr)	7.178	82	42756	87.19	ng/ml	0.00	
10) 2-Fluorobiphenyl (Surr)	8.944	172	166251	85.55	ng/ml	0.00	
11) Acenaphthylene d-8 (Surr)	9.474	160	3146	-1.00	ng/ml	0.00	
26) Terphenyl-d14 (Surr)	12.925	244	214469	88.96	ng/ml	0.00	
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml		
Target Compounds							
							Qvalue
3) Decalin	7.358	138	4525	41.19	ng/ml		93
4) Naphthalene	7.901	128	1854008	1139.10	ng/ml		99
5) 2-Methylnaphthalene	8.582	142	239833	173.89	ng/ml		98
6) 1-Methylnaphthalene	8.682	142	160420	116.33	ng/ml		98
7) 1,1'-Biphenyl	9.049	154	119198	64.26	ng/ml		98
8) 2,6-Dimethylnaphthalene	9.206	156	78472	57.92	ng/ml		98
12) Acenaphthylene	9.492	152	99775	35.28	ng/ml		98
13) Acenaphthene	9.667	153	146432	79.06	ng/ml		100
14) Dibenzofuran	9.841	168	87315	37.64	ng/ml		99
15) 1,6,7-Trimethylnaphtha...	10.051	170	58064	37.38	ng/ml		98
16) Fluorene	10.185	166	89469	47.20	ng/ml		99
18) Dibenzothiopene	11.036	184	101172	37.73	ng/ml		98
19) Phenanthrene	11.165	178	161076	53.69	ng/ml		100
20) Anthracene	11.217	178	107467	38.51	ng/ml		99
21) Carbazole	11.374	167	84071	37.23	ng/ml		99
22) 1-Methylphenanthrene	11.788	192	77074	36.98	ng/ml		100
23) Fluoranthene	12.429	202	118859	39.32	ng/ml		99
25) Pyrene	12.715	202	121328	33.88	ng/ml		99
27) Benz(a)anthracene	14.877	228	93245	35.04	ng/ml		99
28) Chrysene	14.959	228	93788	37.24	ng/ml		99
30) Benzo(b)fluoranthene	17.459	252	85481	37.02	ng/ml		96
31) Benzo(k)fluoranthene	17.524	252	85637	37.67	ng/ml		96
32) Benzo(b+k)fluoranthene	17.524	252	178337	75.51	ng/ml		96
34) Benzo(e)pyrene	18.106	252	83923	35.95	ng/ml		97
35) Benzo(a)pyrene	18.229	252	74079	37.48	ng/ml		97
36) Perylene	18.427	252	88464	36.34	ng/ml		99
38) Indeno(1,2,3-cd)Pyrene	20.753	276	67669	33.91	ng/ml		87
39) Dibenz(a,h)anthracene	20.823	278	64772	34.54	ng/ml		89
40) Benzo(g,h,i)perylene	21.289	276	71366	33.71	ng/ml		87

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261905.D
 Acq On : 26 Sep 2019 04:07 pm
 Operator :
 Sample : 9091304-BS1
 Misc : 1x, 8270D LL PAH ONLY
 ALS Vial : 5 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 11:29:05 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



Data Path : U:\data\2019-09\9I26035\
 Data File : N09261907.D
 Acq On : 26 Sep 2019 05:12 pm
 Operator :
 Sample : A9I0771-01@1000
 Misc : 1000x, 8270D LL PAH ONLY
 ALS Vial : 7 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

temp 9/27/19
 RR2

Quant Time: Sep 27 11:29:11 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

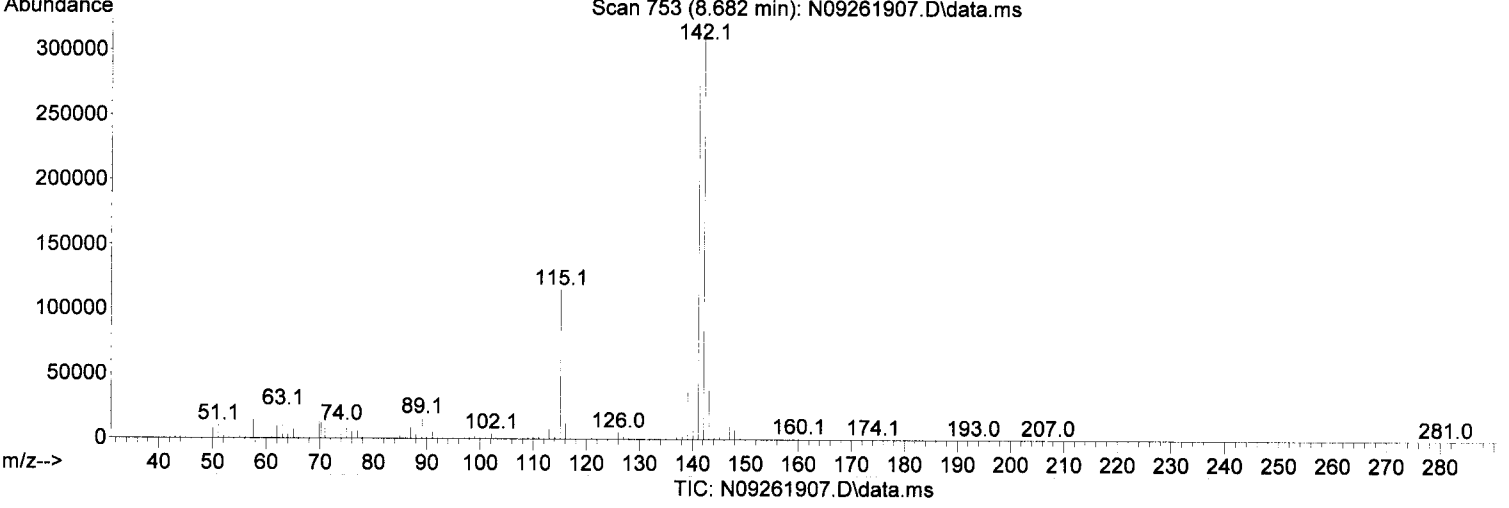
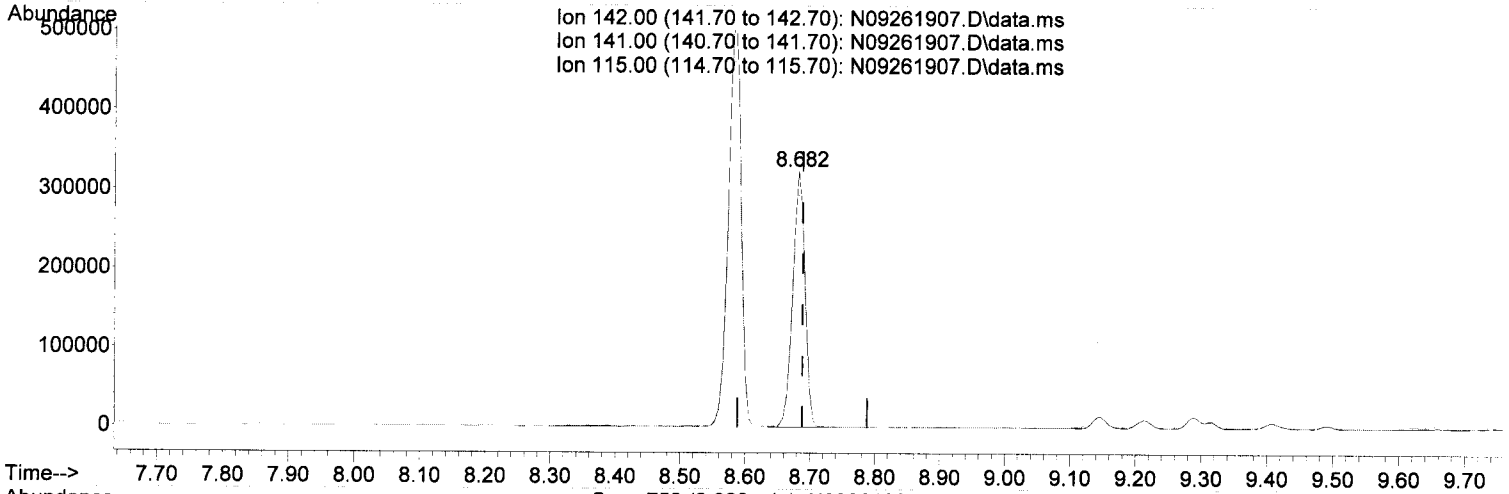
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	Qvalue
Internal Standards							
1) Naphthalene-d8 (ISTD)	7.877	136	165302	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.632	162	133729	100.00	ng/ml	0.00	
17) Phenanthrene-d10 (ISTD)	11.141	188	259867	100.00	ng/ml	0.00	
24) Chrysene-d12 (ISTD)	14.907	240	241535	100.00	ng/ml	0.00	
29) Perylene-d12 (ISTD)	18.375	264	223430	100.00	ng/ml	0.00	
37) Dibenz(a,h)Anthracene-d...	20.765	292	178607	100.00	ng/ml	0.00	
System Monitoring Compounds							
2) Nitrobenzene-d5 (Surr)	7.172	82	254	0.46	ng/ml	-0.01	
10) 2-Fluorobiphenyl (Surr)	8.944	172	683	0.34	ng/ml	0.00	
11) Acenaphthylene d-8 (Surr)	9.474	160	3334	-1.00	ng/ml	0.00	
26) Terphenyl-d14 (Surr)	12.919	244	906	0.36	ng/ml	-0.01	
33) Benzo(a)pyrene d-12 (S...	18.159	264	58	0.03	ng/ml	-0.02	
Target Compounds							
3) Decalin	7.335	138	149	1.21	ng/ml#	63	
4) Naphthalene	7.901	128	3020828	1656.92	ng/ml	99	→ RR2
5) 2-Methylnaphthalene	8.583	142	706406	457.24	ng/ml	99	→ RR2
6) 1-Methylnaphthalene	8.682	142	429317	277.94	ng/ml	99	
7) 1,1'-Biphenyl	9.049	154	307170	147.83	ng/ml	98	✓
8) 2,6-Dimethylnaphthalene	9.212	156	180331	118.84	ng/ml	98	
12) Acenaphthylene	9.492	152	133024	45.82	ng/ml	95	
13) Acenaphthene	9.667	153	802611	422.08	ng/ml	99	→ RR2
14) Dibenzofuran	9.842	168	75252	31.59	ng/ml	94	
15) 1,6,7-Trimethylnaphtha...	10.052	170	53619	33.62	ng/ml	93	
16) Fluorene	10.191	166	419337	215.50	ng/ml	99	✓
18) Dibenzothiopene	11.037	184	383310	141.03	ng/ml	98	
19) Phenanthrene	11.171	178	2875580	945.64	ng/ml	98	→ RR2
20) Anthracene	11.217	178	578616	204.57	ng/ml	99	
21) Carbazole	11.375	167	81734	35.71	ng/ml	99	
22) 1-Methylphenanthrene	11.788	192	107489	50.88	ng/ml	95	
23) Fluoranthene	12.435	202	1676153	547.09	ng/ml	97	→ RR2
25) Pyrene	12.727	202	2073712	549.53	ng/ml	99	→ RR2
27) Benz(a)anthracene	14.883	228	423932	151.17	ng/ml	75	
28) Chrysene	14.965	228	504837	190.23	ng/ml	98	
30) Benzo(b)fluoranthene	17.471	252	455969	176.86	ng/ml	95	
31) Benzo(k)fluoranthene	17.471	252	557845	219.76	ng/ml	93	MI - NO 5
32) Benzo(b+k)fluoranthene	17.471	252	630444	239.07	ng/ml	93	
34) Benzo(e)pyrene	18.118	252	291685	111.89	ng/ml	98	
35) Benzo(a)pyrene	18.241	252	456778	207.00	ng/ml	98	
36) Perylene	18.433	252	131503	48.38	ng/ml	99	
38) Indeno(1,2,3-cd)Pyrene	20.765	276	275784	125.20	ng/ml	87	MI
39) Dibenz(a,h)anthracene	20.823	278	30540	14.76	ng/ml	90	
40) Benzo(g,h,i)perylene	21.301	276	341840	146.29	ng/ml	87	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261907.D
 Acq On : 26 Sep 2019 05:12 pm
 Operator :
 Sample : A9I0771-01@1000
 Misc : 1000x, 8270D LL PAH ONLY
 ALS Vial : 7 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 11:29:11 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(6) 1-Methylnaphthalene (T)

8.682min (-0.006) 277.94 ng/ml

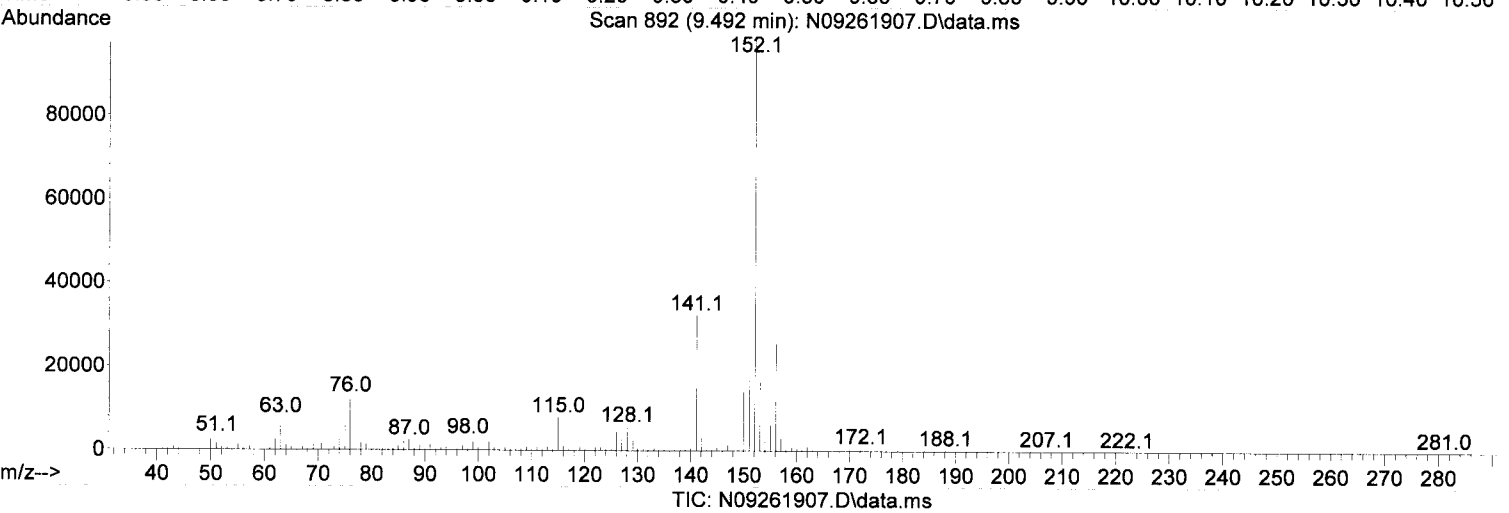
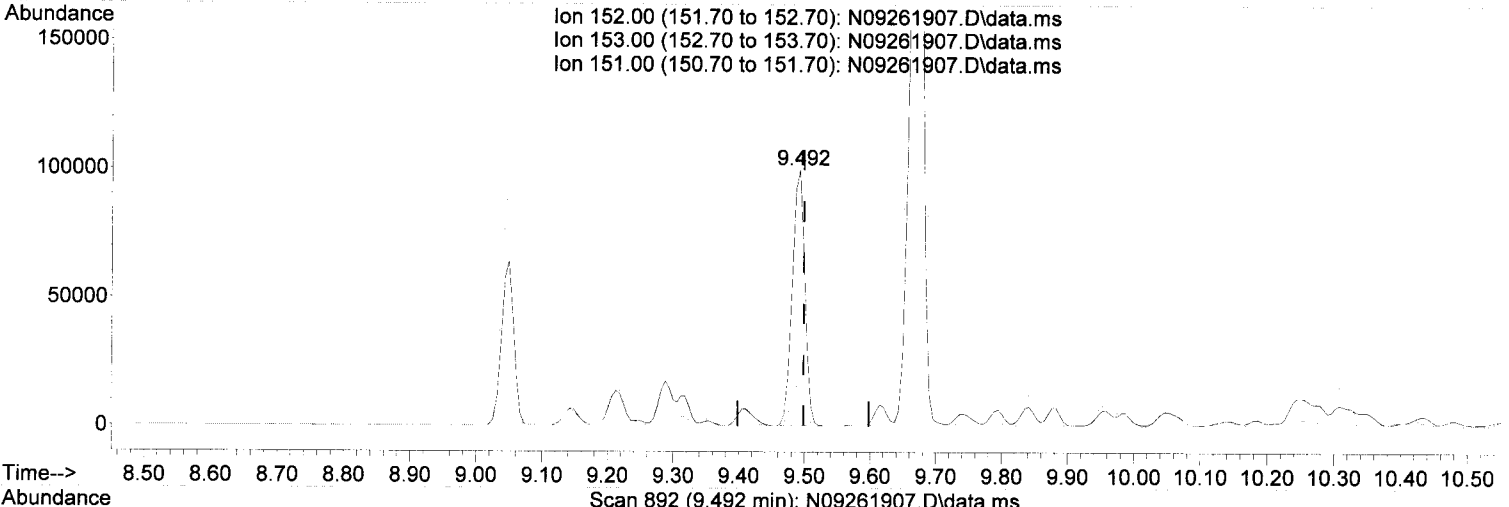
response 429317

Ion	Exp%	Act%
142.00	100.00	100.00
141.00	90.70	91.04
115.00	37.80	35.66
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261907.D
 Acq On : 26 Sep 2019 05:12 pm
 Operator :
 Sample : A9I0771-01@1000
 Misc : 1000x, 8270D LL PAH ONLY
 ALS Vial : 7 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 11:29:11 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(12) Acenaphthylene (T)

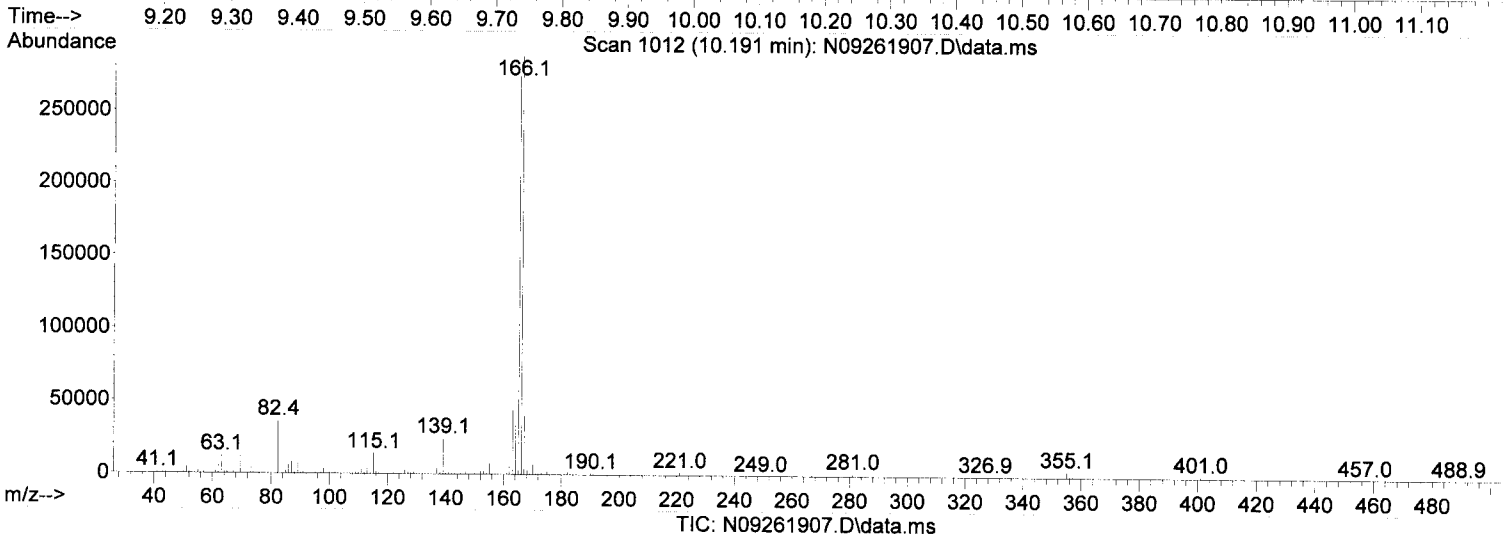
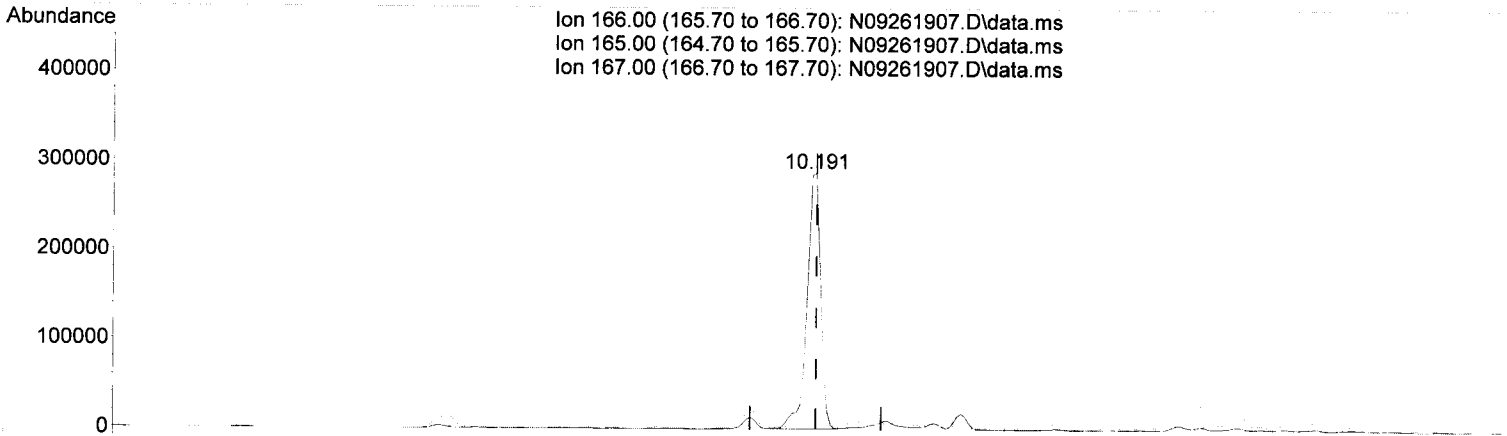
9.492min (-0.006) 45.82 ng/ml

response	133024
Ion	Exp% Act%
152.00	100.00 100.00
153.00	12.70 16.54
151.00	19.30 20.03
0.00	0.00 0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261907.D
 Acq On : 26 Sep 2019 05:12 pm
 Operator :
 Sample : A9I0771-01@1000
 Misc : 1000x, 8270D LL PAH ONLY
 ALS Vial : 7 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 11:29:11 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(16) Fluorene (T)

10.191min (+ 0.000) 215.50 ng/ml

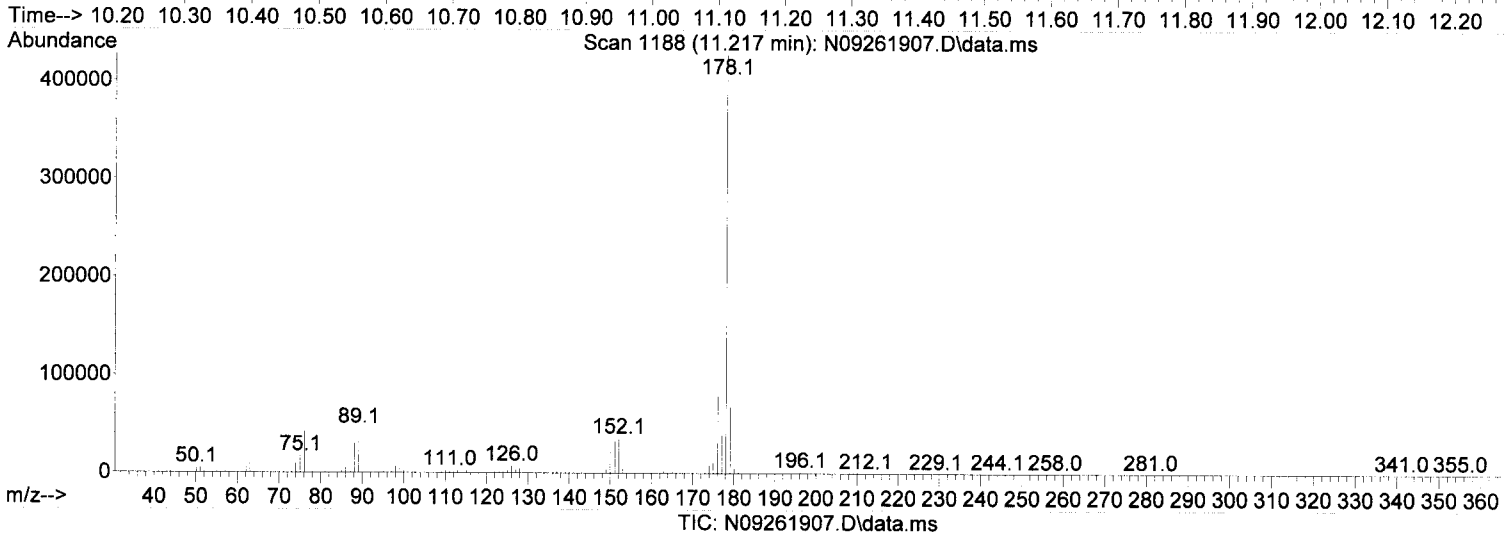
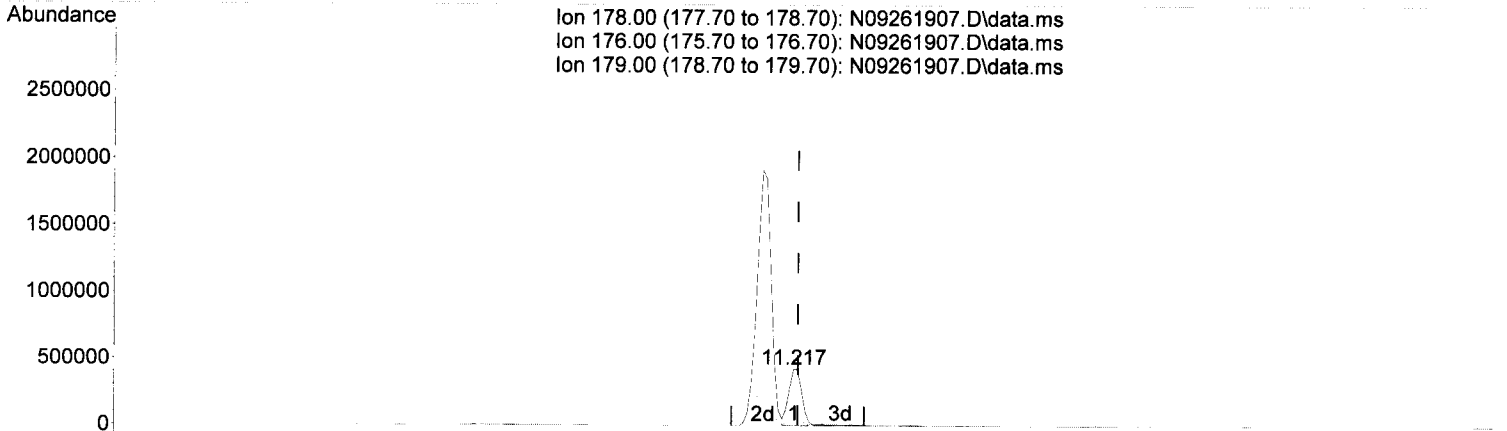
response 419337

Ion	Exp%	Act%
166.00	100.00	100.00
165.00	95.70	95.19
167.00	13.60	13.97
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261907.D
 Acq On : 26 Sep 2019 05:12 pm
 Operator :
 Sample : A9I0771-01@1000
 Misc : 1000x, 8270D LL PAH ONLY
 ALS Vial : 7 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 11:29:11 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(20) Anthracene (T)

11.217min (-0.006) 204.57 ng/ml

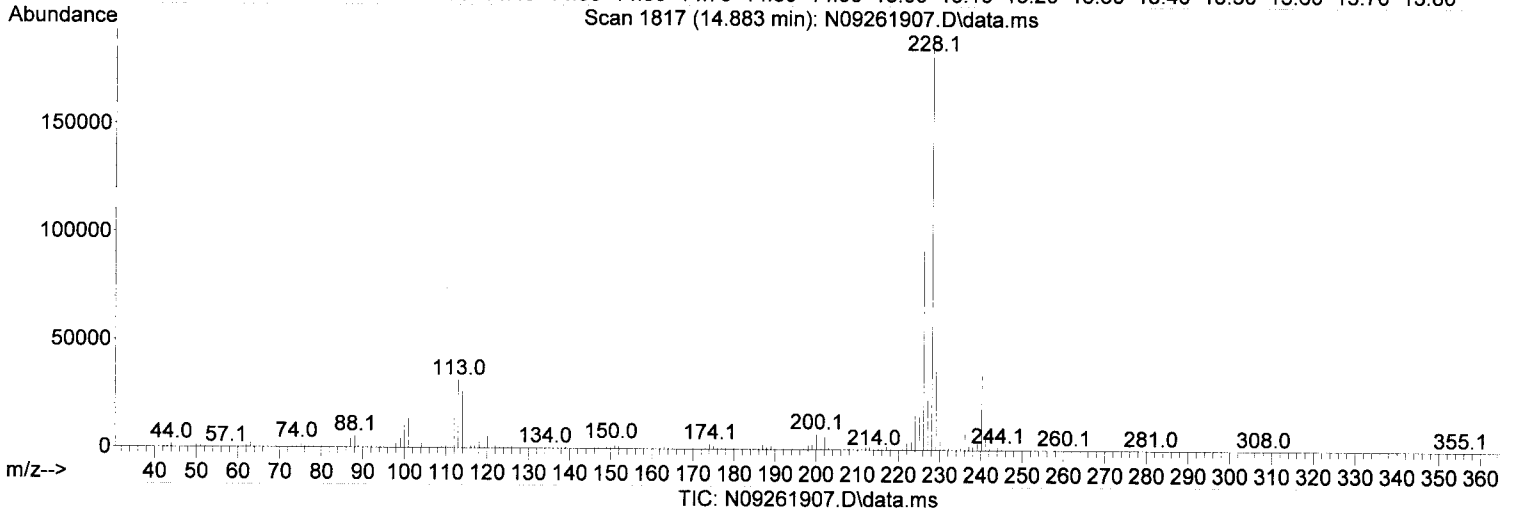
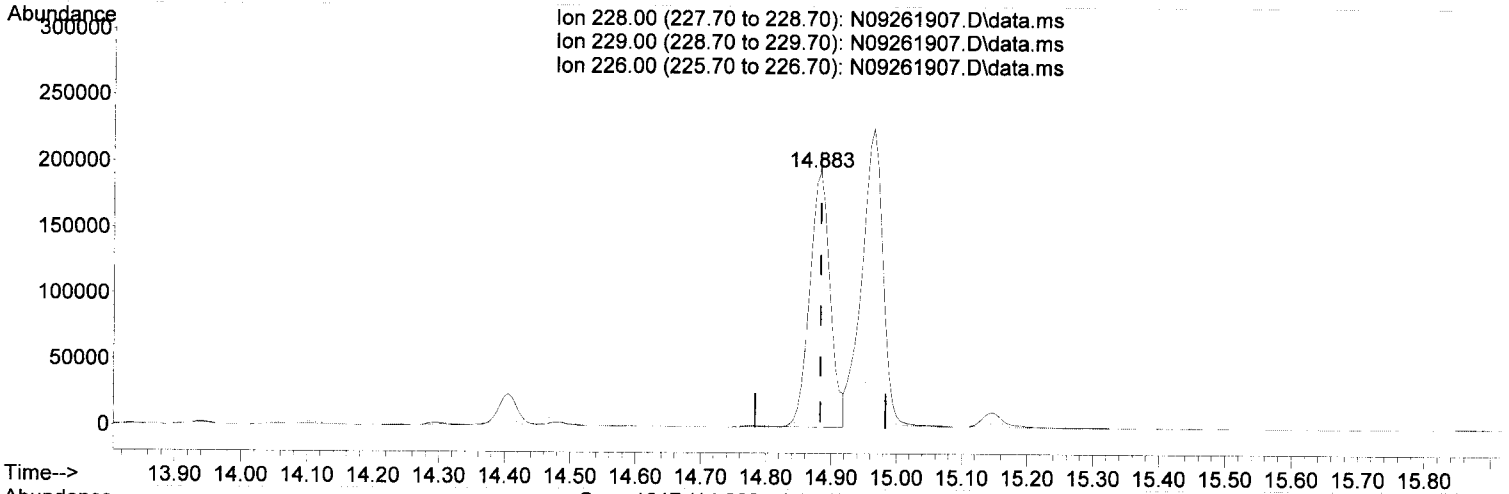
response 578616

Ion	Exp%	Act%
178.00	100.00	100.00
176.00	18.90	18.50
179.00	15.30	15.92
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261907.D
 Acq On : 26 Sep 2019 05:12 pm
 Operator :
 Sample : A9I0771-01@1000
 Misc : 1000x, 8270D LL PAH ONLY
 ALS Vial : 7 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 11:29:11 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(27) Benz(a)anthracene (T)

14.883min (+ 0.000) 151.17 ng/ml

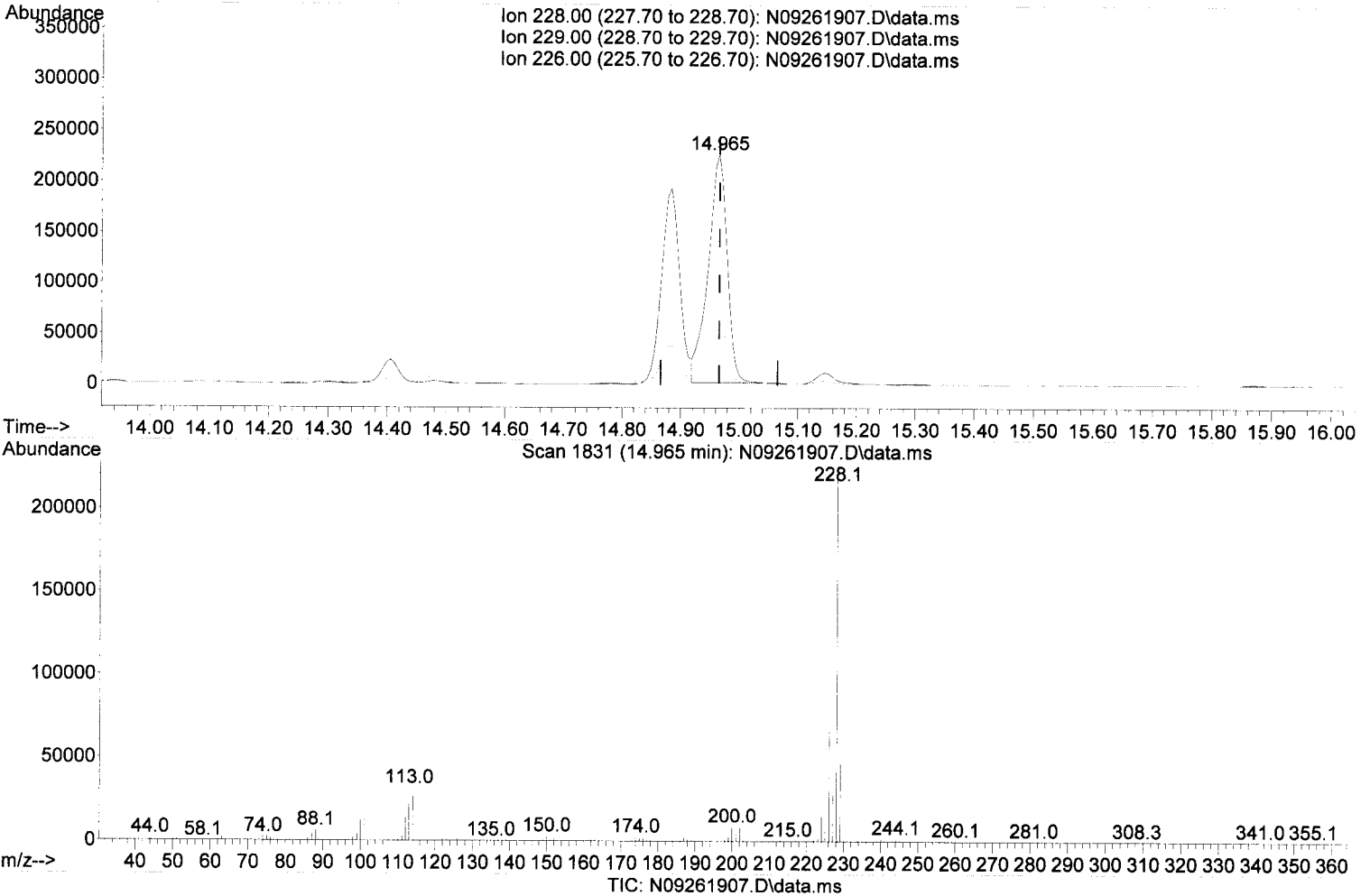
response 423932

Ion	Exp%	Act%
228.00	100.00	100.00
229.00	19.40	20.23
226.00	26.20	47.67
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261907.D
 Acq On : 26 Sep 2019 05:12 pm
 Operator :
 Sample : A9I0771-01@1000
 Misc : 1000x, 8270D LL PAH ONLY
 ALS Vial : 7 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 11:29:11 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(28) Chrysene (T)

14.965min (+ 0.000) 190.23 ng/ml

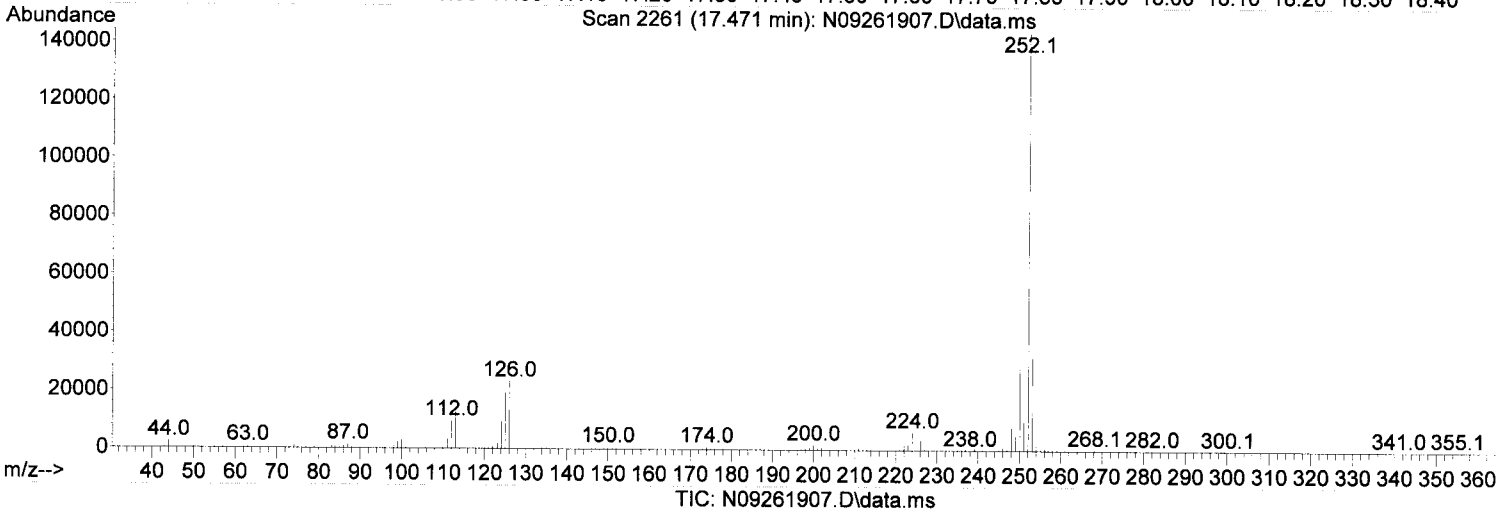
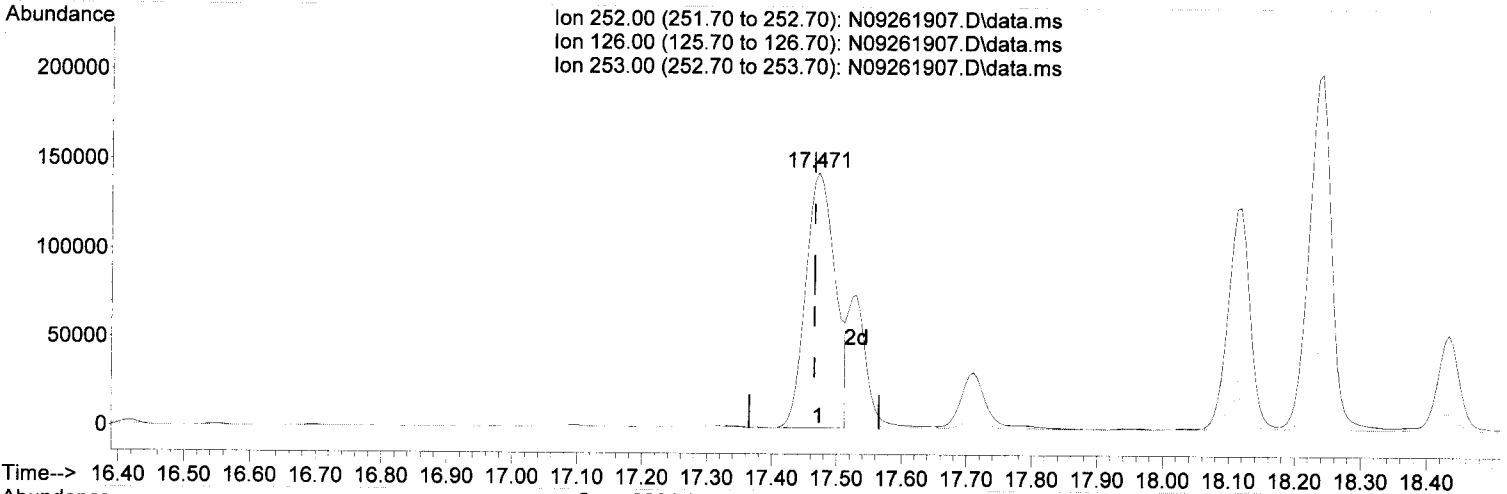
response 504837

Ion	Exp%	Act%
228.00	100.00	100.00
229.00	19.60	20.67
226.00	28.60	29.38
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261907.D
 Acq On : 26 Sep 2019 05:12 pm
 Operator :
 Sample : A9I0771-01@1000
 Misc : 1000x, 8270D LL PAH ONLY
 ALS Vial : 7 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 11:29:11 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(30) Benzo(b)fluoranthene (T)

17.471min (+ 0.006) 176.86 ng/ml

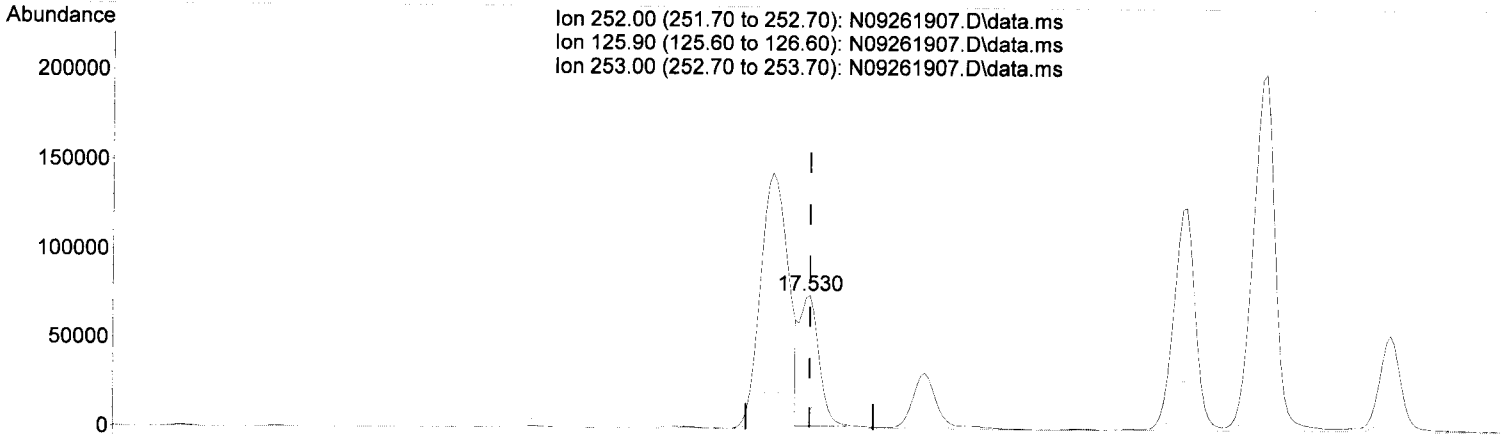
response 455969

Ion	Exp%	Act%
252.00	100.00	100.00
126.00	20.00	16.11
253.00	21.10	22.33
0.00	0.00	0.00

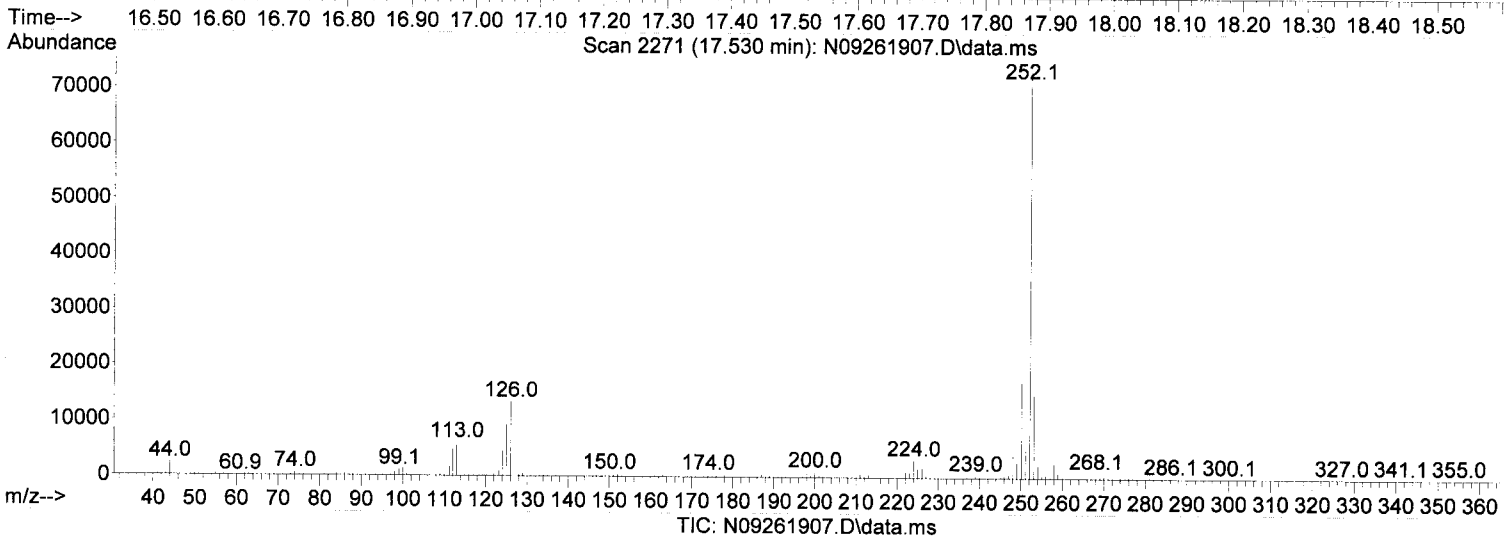
Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261907.D
 Acq On : 26 Sep 2019 05:12 pm
 Operator :
 Sample : A9I0771-01@1000
 Misc : 1000x, 8270D LL PAH ONLY
 ALS Vial : 7 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 11:29:11 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



Ion 252.00 (251.70 to 252.70): N09261907.D\data.ms
 Ion 125.90 (125.60 to 126.60): N09261907.D\data.ms
 Ion 253.00 (252.70 to 253.70): N09261907.D\data.ms



(31) Benzo(k)fluoranthene (T)

17.530min (+ 0.001) 62.02 ng/ml/m

response 157422

Ion	Exp%	Act%
252.00	100.00	100.00
125.90	22.10	17.67
253.00	21.50	22.83
0.00	0.00	0.00

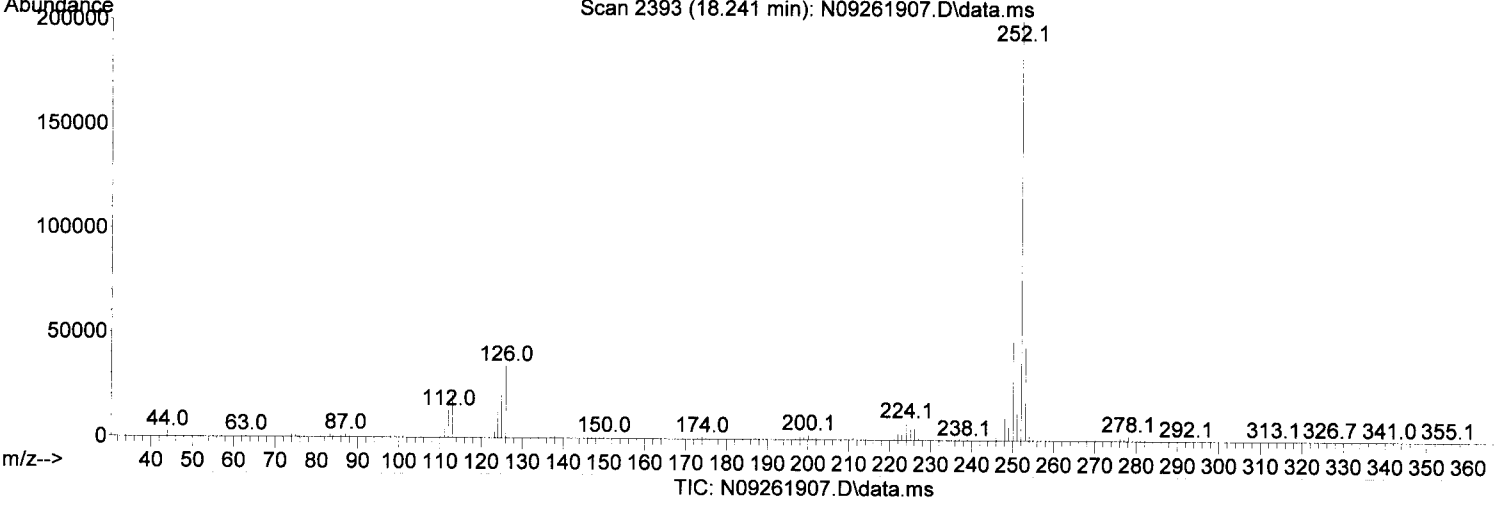
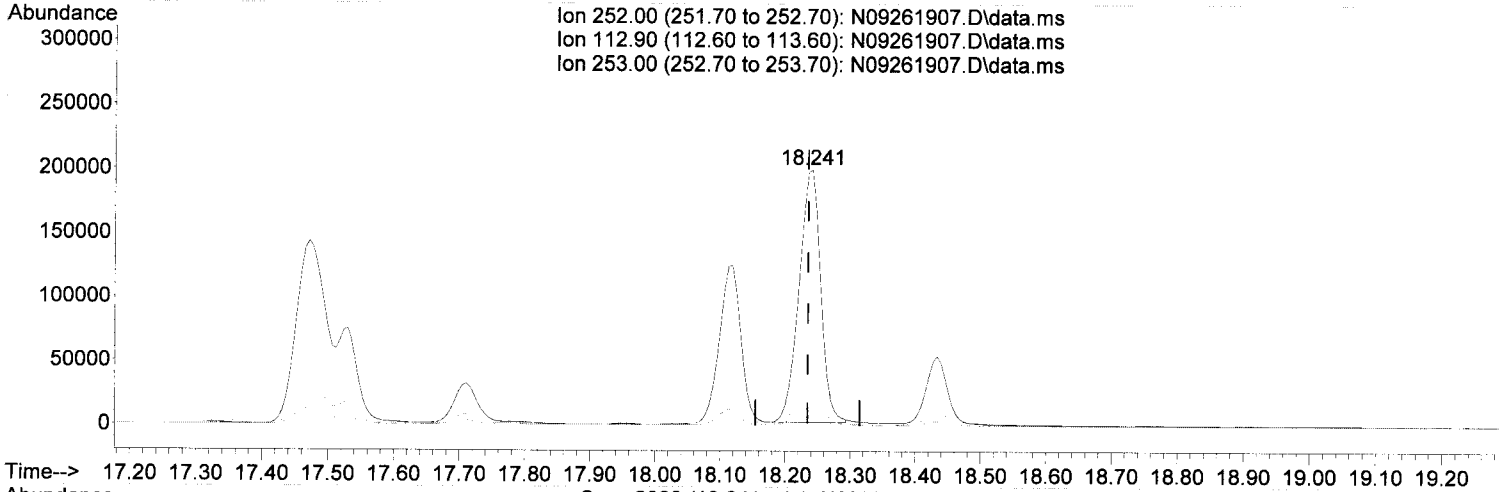
km 9/27/19

M-09

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261907.D
 Acq On : 26 Sep 2019 05:12 pm
 Operator :
 Sample : A9I0771-01@1000
 Misc : 1000x, 8270D LL PAH ONLY
 ALS Vial : 7 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 11:29:11 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(35) Benzo(a)pyrene (T)

18.241min (+ 0.007) 207.00 ng/ml

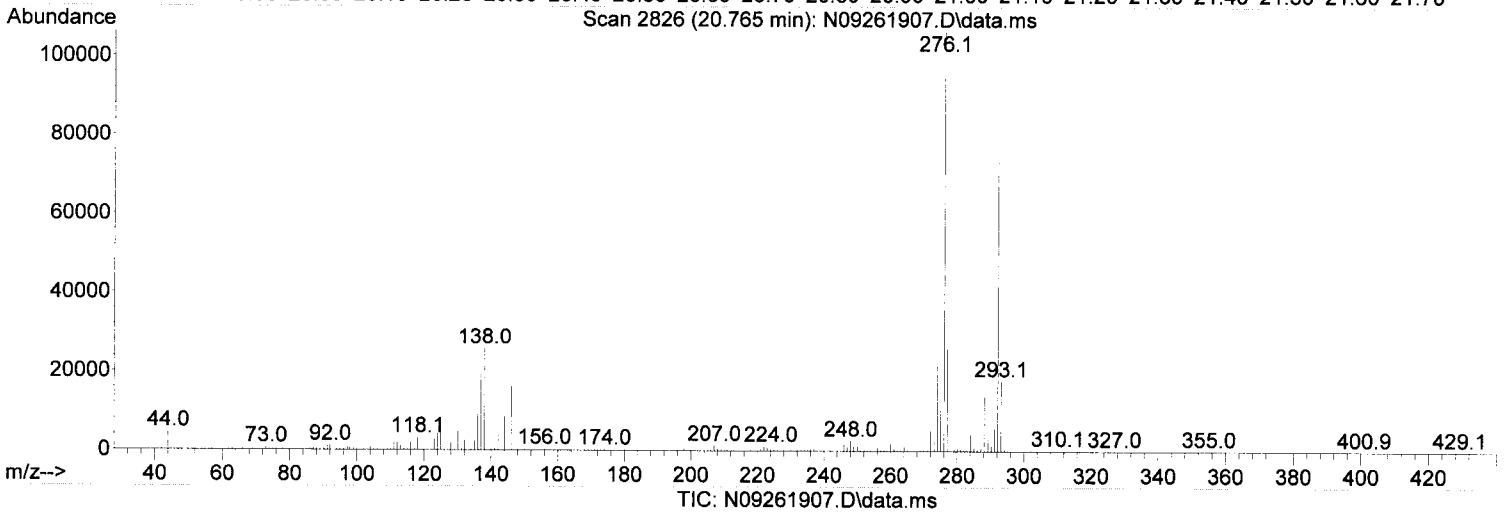
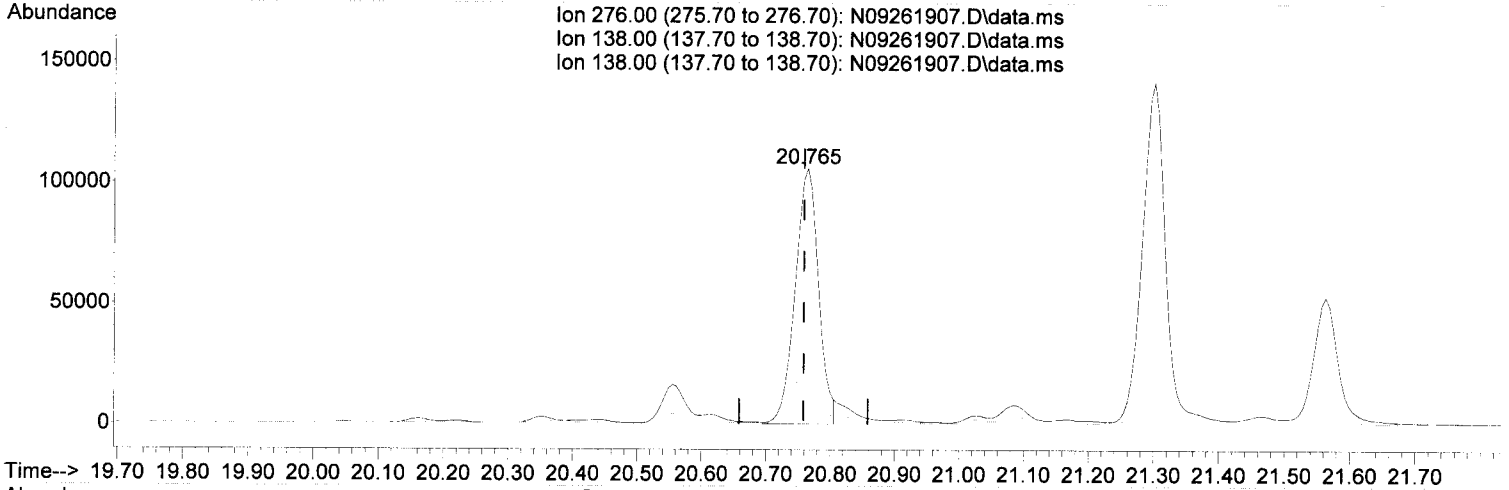
response 456778

Ion	Exp%	Act%
252.00	100.00	100.00
112.90	12.70	10.54
253.00	21.90	22.21
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261907.D
 Acq On : 26 Sep 2019 05:12 pm
 Operator :
 Sample : A9I0771-01@1000
 Misc : 1000x, 8270D LL PAH ONLY
 ALS Vial : 7 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 11:29:11 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(38) Indeno(1,2,3-cd)Pyrene (T)

20.765min (+ 0.007) 122.01 ng/ml (m)

Handwritten: HMM 9/27/19

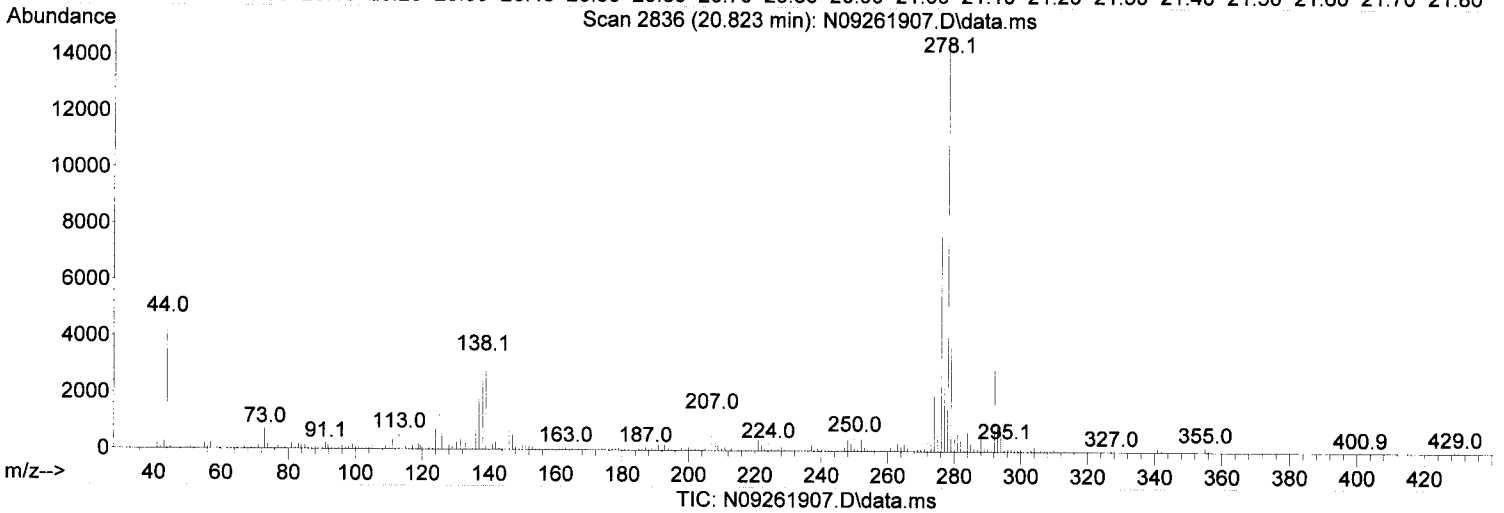
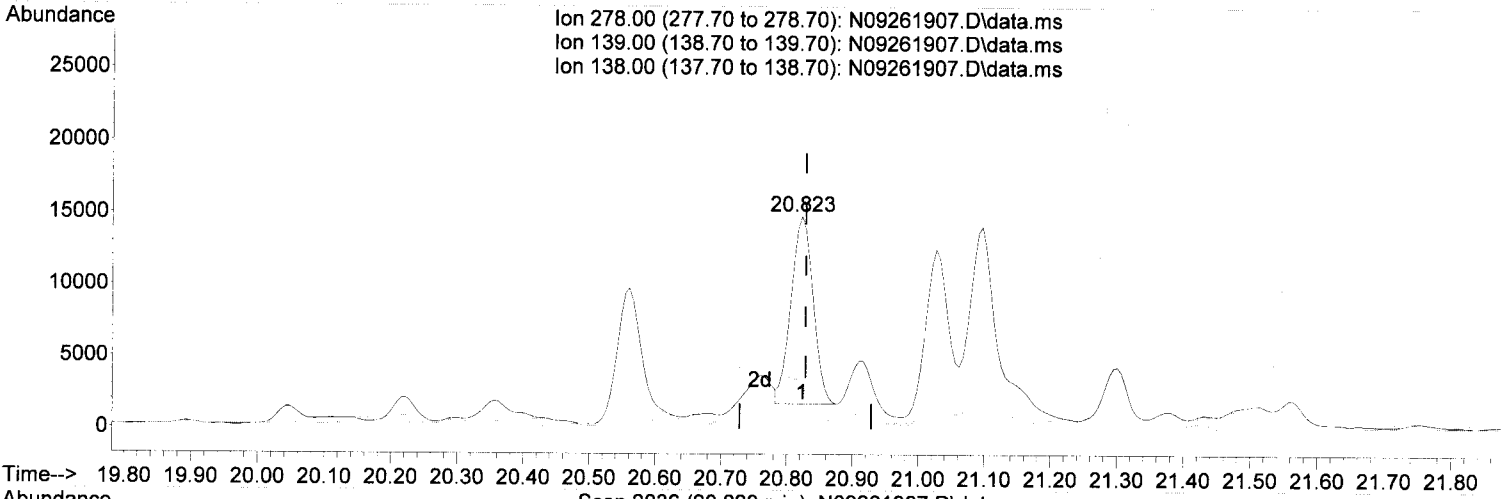
response 268757

Ion	Exp%	Act%
276.00	100.00	100.00
138.00	31.60	24.20
138.00	31.60	24.20
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261907.D
 Acq On : 26 Sep 2019 05:12 pm
 Operator :
 Sample : A9I0771-01@1000
 Misc : 1000x, 8270D LL PAH ONLY
 ALS Vial : 7 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 11:29:11 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(39) Dibenz(a,h)anthracene (T)

20.823min (-0.005) 14.76 ng/ml

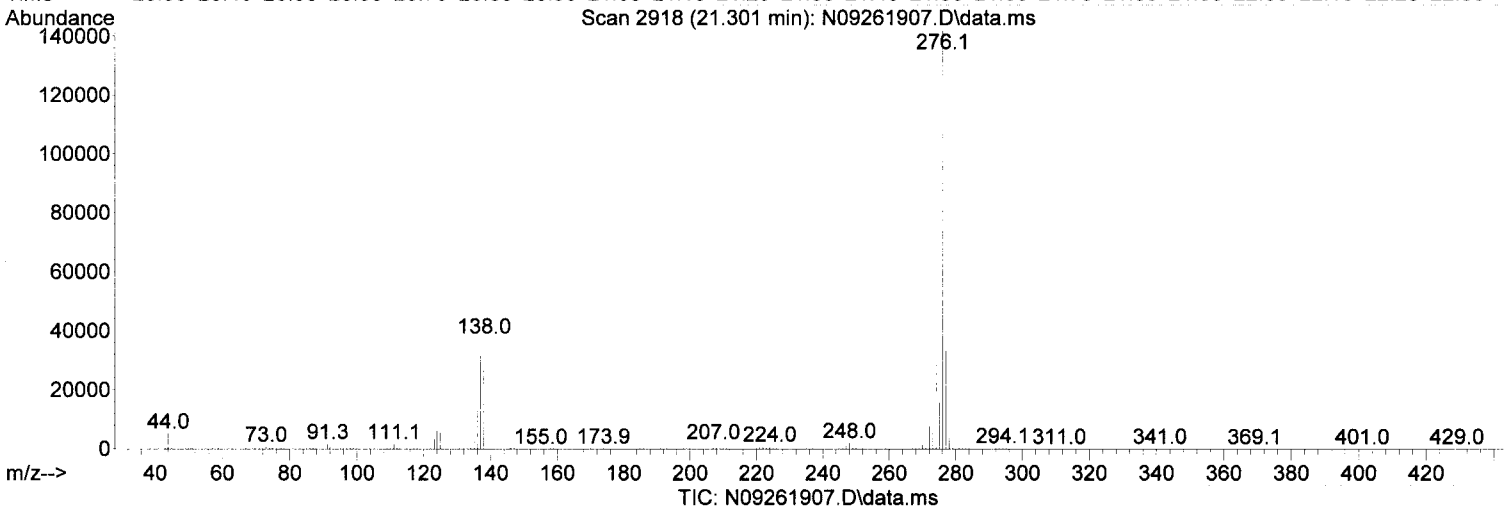
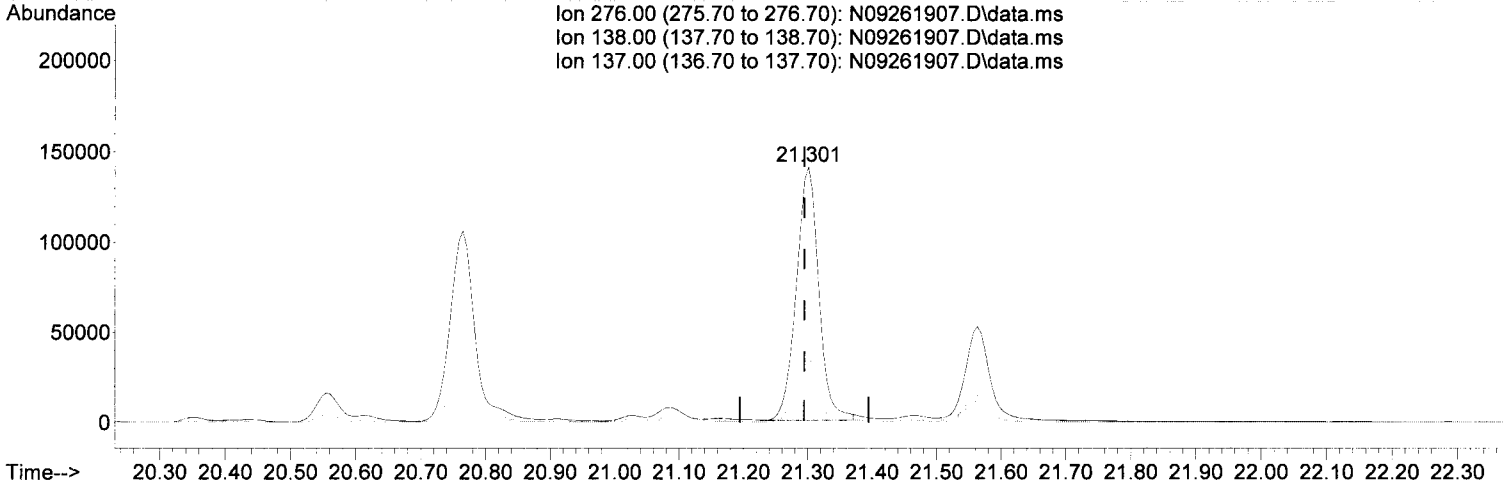
response 30540

Ion	Exp%	Act%
278.00	100.00	100.00
139.00	26.00	19.08
138.00	19.90	22.54
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261907.D
 Acq On : 26 Sep 2019 05:12 pm
 Operator :
 Sample : A9I0771-01@1000
 Misc : 1000x, 8270D LL PAH ONLY
 ALS Vial : 7 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 11:29:11 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(40) Benzo(g,h,i)perylene (T)

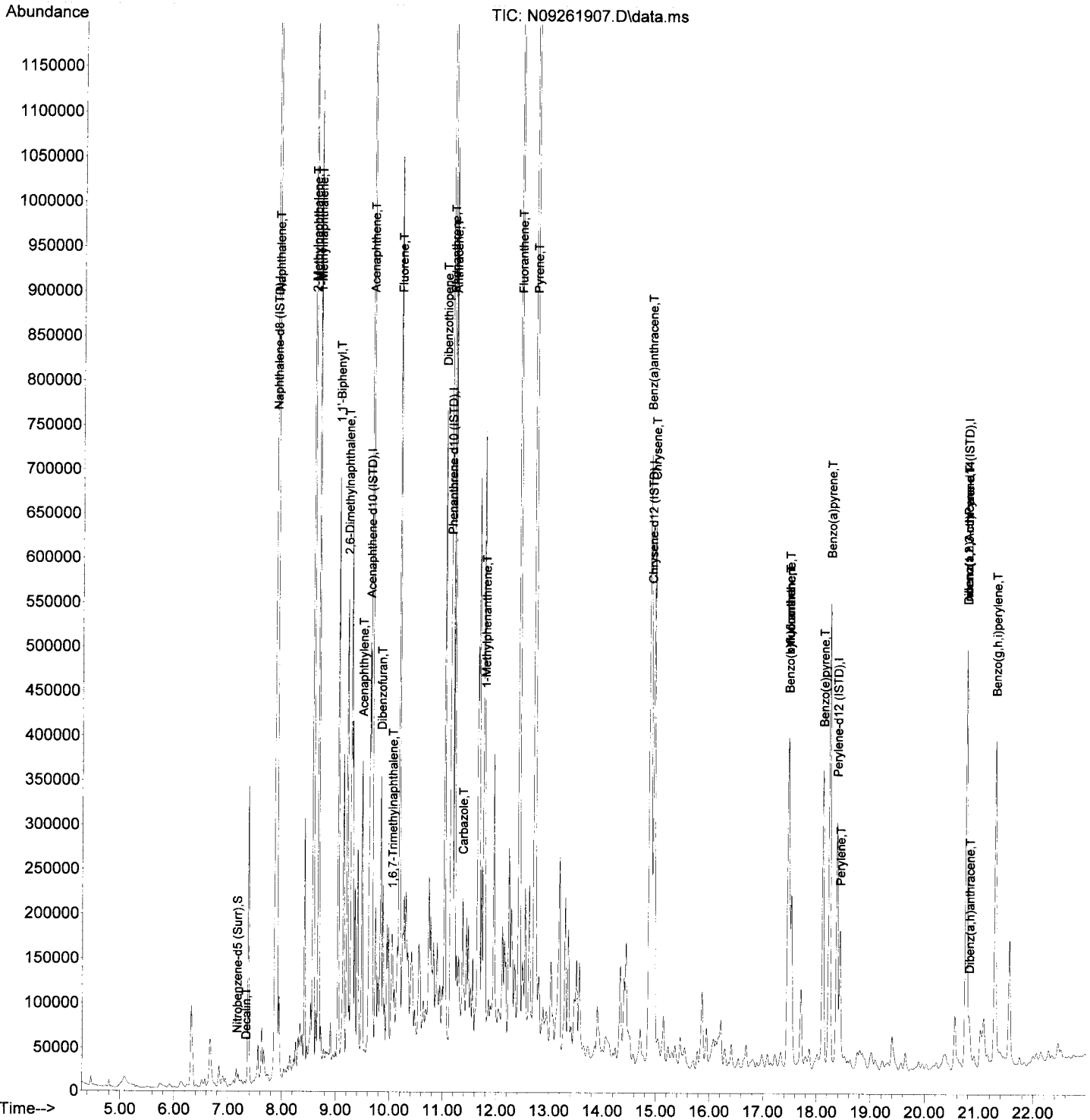
21.301min (+ 0.007) 146.29 ng/ml

response 341840

Ion	Exp%	Act%
276.00	100.00	100.00
138.00	34.40	26.36
137.00	28.60	22.18
0.00	0.00	0.00

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261907.D
 Acq On : 26 Sep 2019 05:12 pm
 Operator :
 Sample : A9I0771-01@1000
 Misc : 1000x, 8270D LL PAH ONLY
 ALS Vial : 7 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 11:29:11 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



Data Path : U:\data\2019-09\9I26035\
 Data File : N09261908.D
 Acq On : 26 Sep 2019 05:49 pm
 Operator :
 Sample : 9091304-DUP1@1000
 Misc : 1000x, 8270D LL PAH ONLY
 ALS Vial : 8 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

low 9/27/19

MO5

Quant Time: Sep 27 11:29:15 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

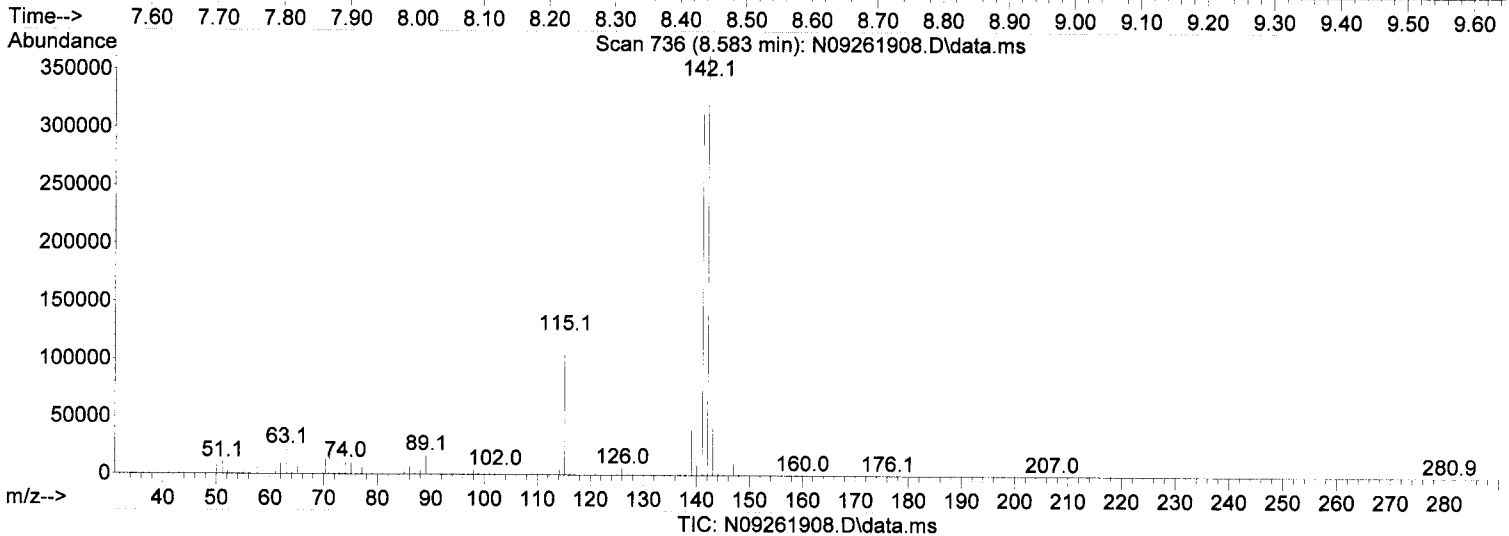
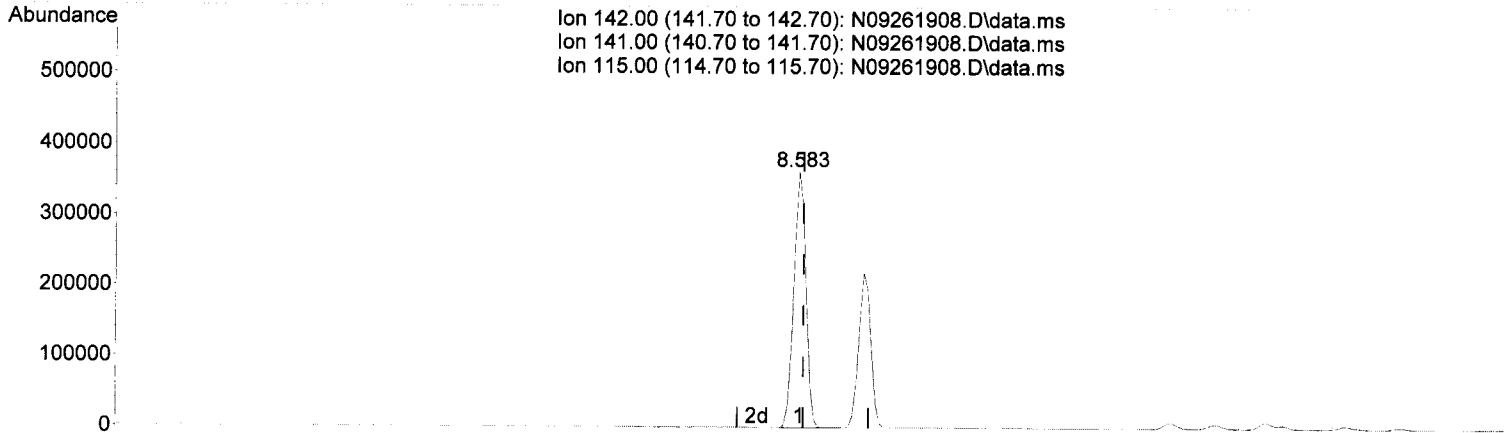
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Naphthalene-d8 (ISTD)	7.877	136	165620	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.638	162	128189	100.00	ng/ml	0.00	
17) Phenanthrene-d10 (ISTD)	11.147	188	248396	100.00	ng/ml	0.00	
24) Chrysene-d12 (ISTD)	14.907	240	237269	100.00	ng/ml	0.00	
29) Perylene-d12 (ISTD)	18.381	264	223579	100.00	ng/ml	0.00	
37) Dibenz(a,h)Anthracene-d...	20.765	292	177023	100.00	ng/ml	0.00	
System Monitoring Compounds							
2) Nitrobenzene-d5 (Surr)	7.178	82	119	0.22	ng/ml	0.00	
10) 2-Fluorobiphenyl (Surr)	8.944	172	420	0.22	ng/ml	0.00	
11) Acenaphthylene d-8 (Surr)	9.474	160	2134	-1.00	ng/ml	0.00	
26) Terphenyl-d14 (Surr)	12.919	244	848	0.34	ng/ml	-0.01	
33) Benzo(a)pyrene d-12 (S...	18.107	264	50	0.03	ng/ml	-0.07	
Target Compounds							
							Qvalue
3) Decalin	7.510	138	62	0.50	ng/ml	36	
4) Naphthalene	7.901	128	2098052	1148.57	ng/ml	99	RR2
5) 2-Methylnaphthalene	8.583	142	469221	303.13	ng/ml	99	
6) 1-Methylnaphthalene	8.682	142	283439	183.14	ng/ml	98	
7) 1,1'-Biphenyl	9.049	154	194358	93.36	ng/ml	98	
8) 2,6-Dimethylnaphthalene	9.212	156	121335	79.80	ng/ml	98	
12) Acenaphthylene	9.492	152	83739	30.09	ng/ml	95	
13) Acenaphthene	9.667	153	575537	315.74	ng/ml	100	
14) Dibenzofuran	9.842	168	57737	25.29	ng/ml	97	
15) 1,6,7-Trimethylnaphtha...	10.051	170	35774	23.40	ng/ml	91	
16) Fluorene	10.191	166	292400	156.76	ng/ml	99	✓
18) Dibenzothiopene	11.037	184	261396	100.62	ng/ml	98	
19) Phenanthrene	11.171	178	2179207	749.73	ng/ml	99	RR2
20) Anthracene	11.223	178	453719	167.82	ng/ml	99	
21) Carbazole	11.375	167	98074	44.83	ng/ml	99	
22) 1-Methylphenanthrene	11.788	192	160067	79.27	ng/ml	95	
23) Fluoranthene	12.435	202	1655514	565.30	ng/ml	98	RR2
25) Pyrene	12.727	202	1942645	524.06	ng/ml	100	RR2
27) Benz(a)anthracene	14.889	228	506293	183.79	ng/ml	87	
28) Chrysene	14.971	228	563587	216.19	ng/ml	97	
30) Benzo(b)fluoranthene	17.477	252	625153	242.32	ng/ml	95	
31) Benzo(k)fluoranthene	17.477	252	780415	307.24	ng/ml	93	RR2 - MO5
32) Benzo(b+k)fluoranthene	17.477	252	871868	330.40	ng/ml	93	
34) Benzo(e)pyrene	18.124	252	360064	138.03	ng/ml	99	
35) Benzo(a)pyrene	18.247	252	583592	264.29	ng/ml	98	
36) Perylene	18.439	252	170953	62.86	ng/ml	99	
38) Indeno(1,2,3-cd)Pyrene	20.770	276	347556	159.19	ng/ml	86	
39) Dibenz(a,h)anthracene	20.829	278	40138	19.57	ng/ml	90	
40) Benzo(g,h,i)perylene	21.307	276	404277	174.56	ng/ml	87	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261908.D
 Acq On : 26 Sep 2019 05:49 pm
 Operator :
 Sample : 9091304-DUP1@1000
 Misc : 1000x, 8270D LL PAH ONLY
 ALS Vial : 8 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 11:29:15 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(5) 2-Methylnaphthalene (T)

8.583min (-0.006) 303.13 ng/ml

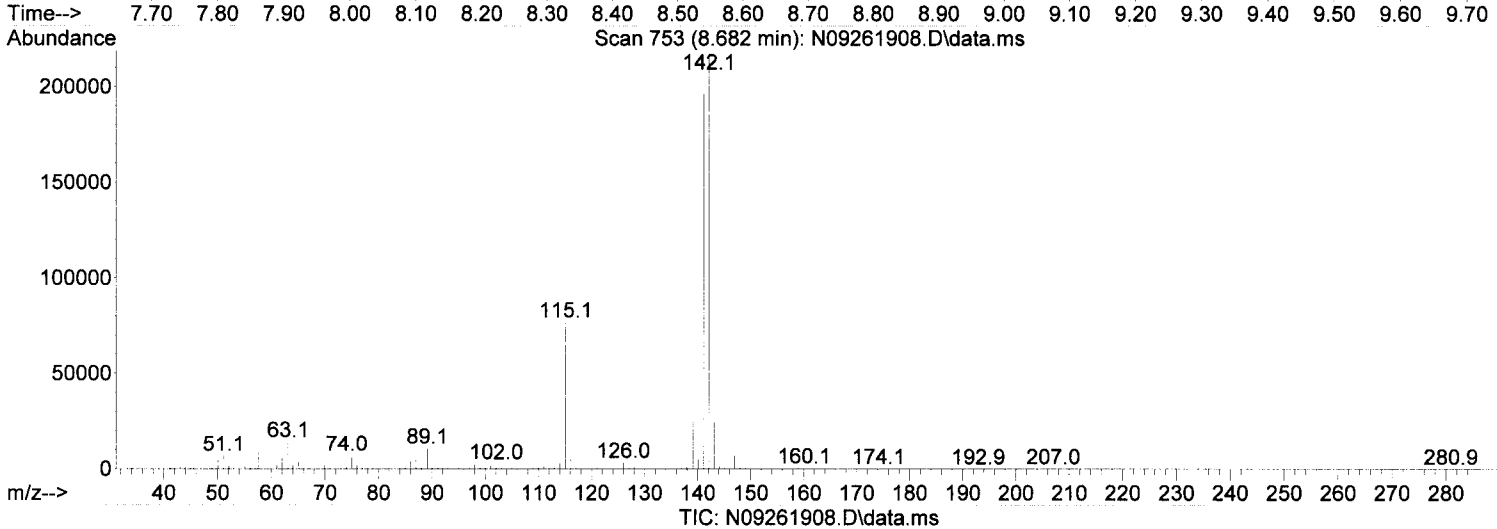
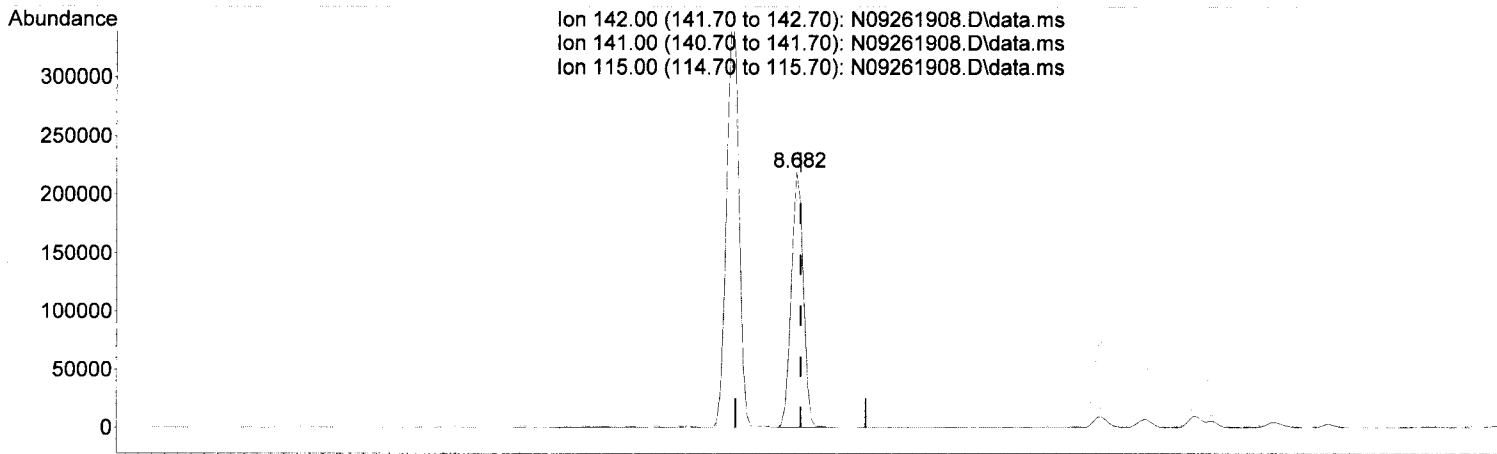
response 469221

Ion	Exp%	Act%
142.00	100.00	100.00
141.00	86.60	86.22
115.00	35.70	33.58
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261908.D
 Acq On : 26 Sep 2019 05:49 pm
 Operator :
 Sample : 9091304-DUP1@1000
 Misc : 1000x, 8270D LL PAH ONLY
 ALS Vial : 8 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 11:29:15 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(6) 1-Methylnaphthalene (T)

8.682min (-0.006) 183.14 ng/ml

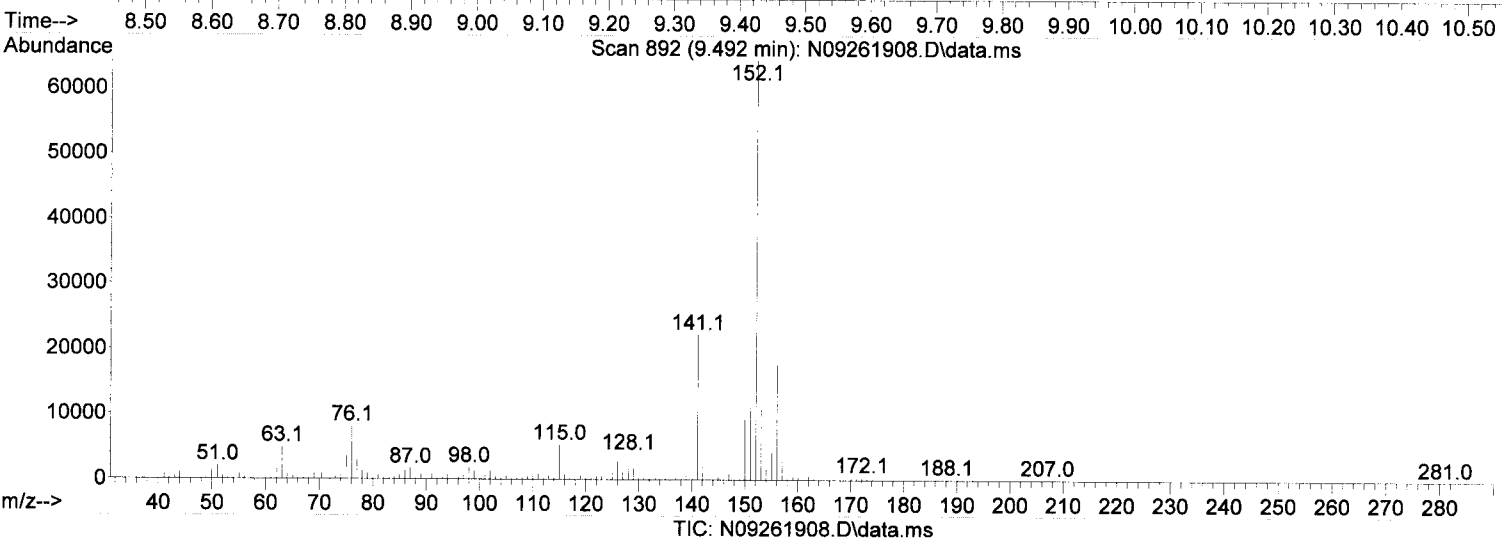
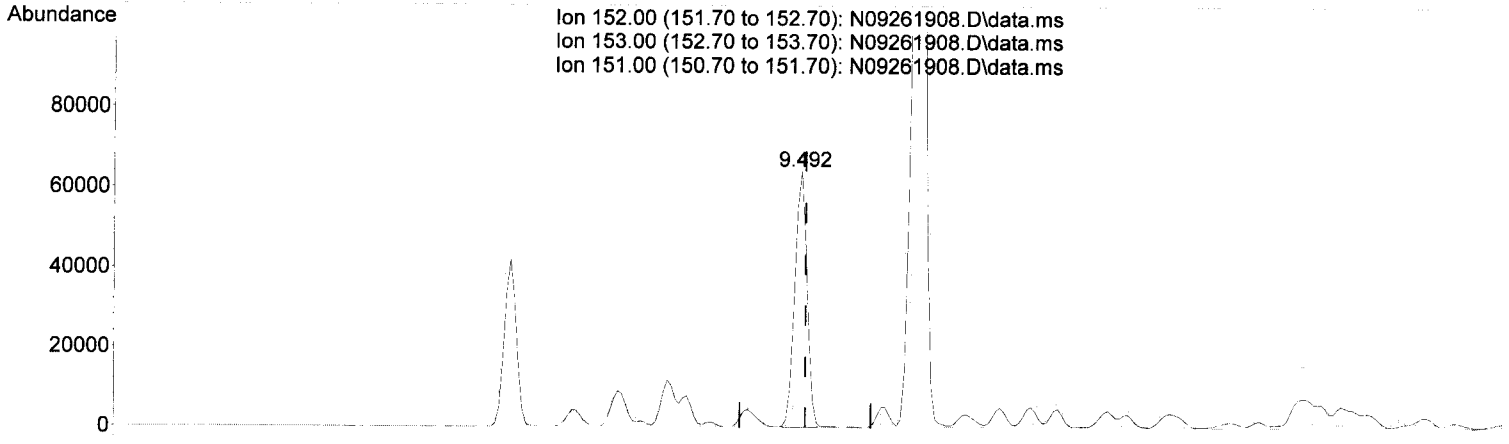
response 283439

Ion	Exp%	Act%
142.00	100.00	100.00
141.00	90.70	89.54
115.00	37.80	35.13
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I26035\
Data File : N09261908.D
Acq On : 26 Sep 2019 05:49 pm
Operator :
Sample : 9091304-DUP1@1000
Misc : 1000x, 8270D LL PAH ONLY
ALS Vial : 8 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 11:29:15 2019
Quant Method : U:\methods\SV14_090619_PAH.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Sep 09 14:58:53 2019
Response via : Initial Calibration
InstName : SV-GCMS14



(12) Acenaphthylene (T)

9.492min (-0.006) 30.09 ng/ml

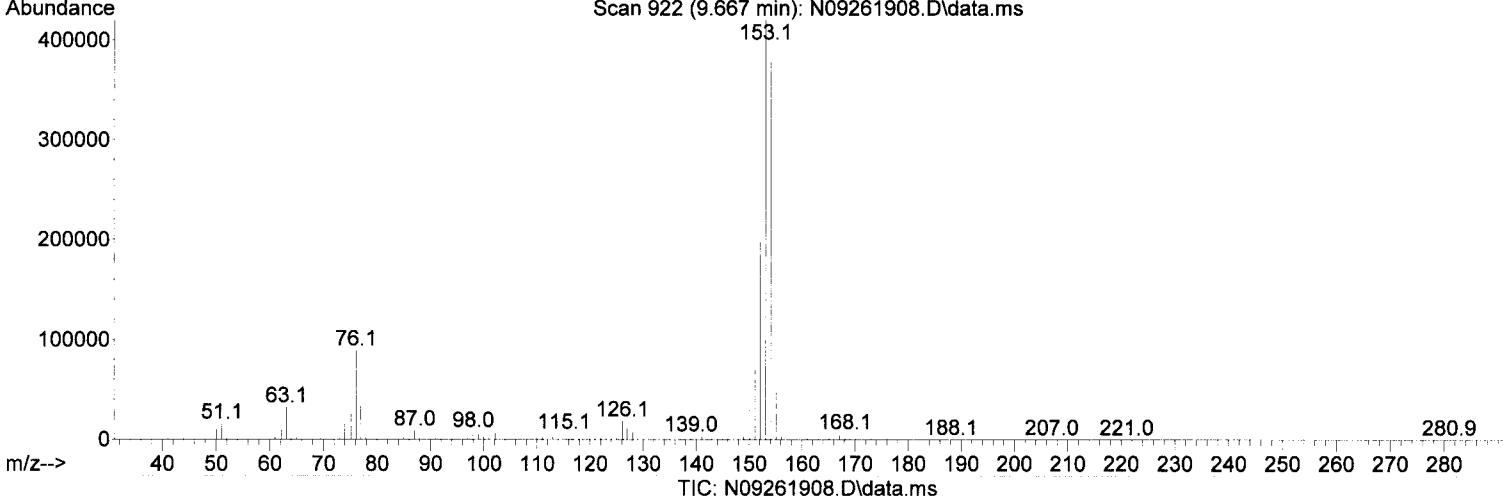
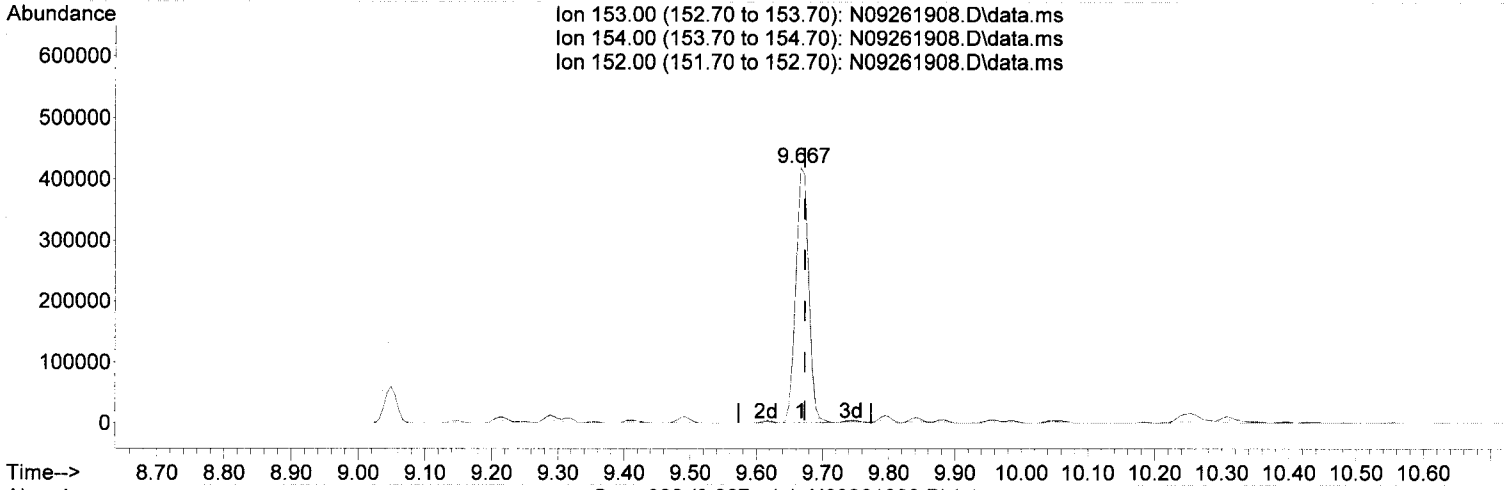
response 83739

Ion	Exp%	Act%
152.00	100.00	100.00
153.00	12.70	16.82
151.00	19.30	20.12
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261908.D
 Acq On : 26 Sep 2019 05:49 pm
 Operator :
 Sample : 9091304-DUP1@1000
 Misc : 1000x, 8270D LL PAH ONLY
 ALS Vial : 8 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 11:29:15 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(13) Acenaphthene (T)

9.667min (-0.006) 315.74 ng/ml

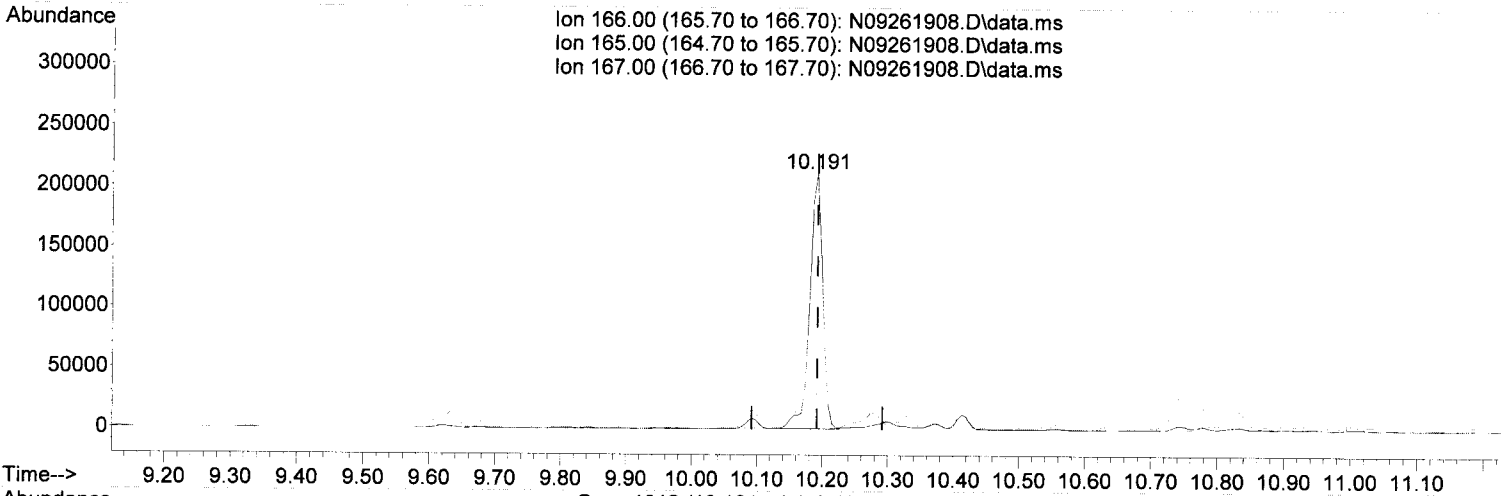
response 575537

Ion	Exp%	Act%
153.00	100.00	100.00
154.00	90.70	90.34
152.00	46.80	47.20
0.00	0.00	0.00

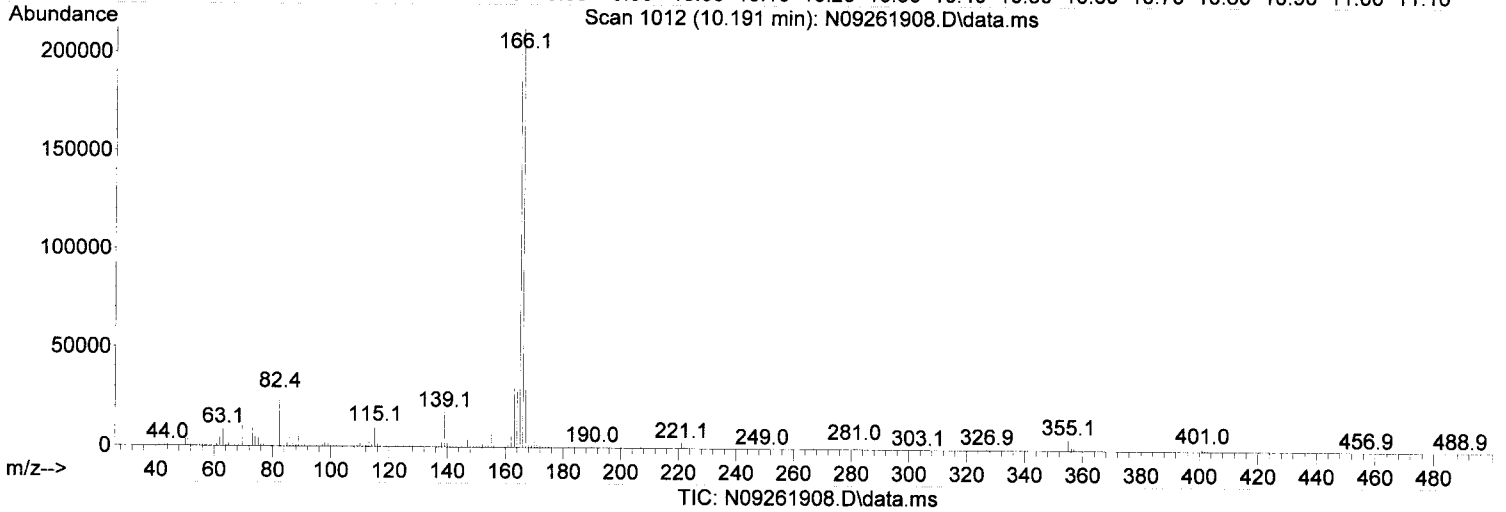
Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261908.D
 Acq On : 26 Sep 2019 05:49 pm
 Operator :
 Sample : 9091304-DUP1@1000
 Misc : 1000x, 8270D LL PAH ONLY
 ALS Vial : 8 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 11:29:15 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



Ion 166.00 (165.70 to 166.70): N09261908.D\data.ms
 Ion 165.00 (164.70 to 165.70): N09261908.D\data.ms
 Ion 167.00 (166.70 to 167.70): N09261908.D\data.ms



(16) Fluorene (T)

10.191min (-0.000) 156.76 ng/ml

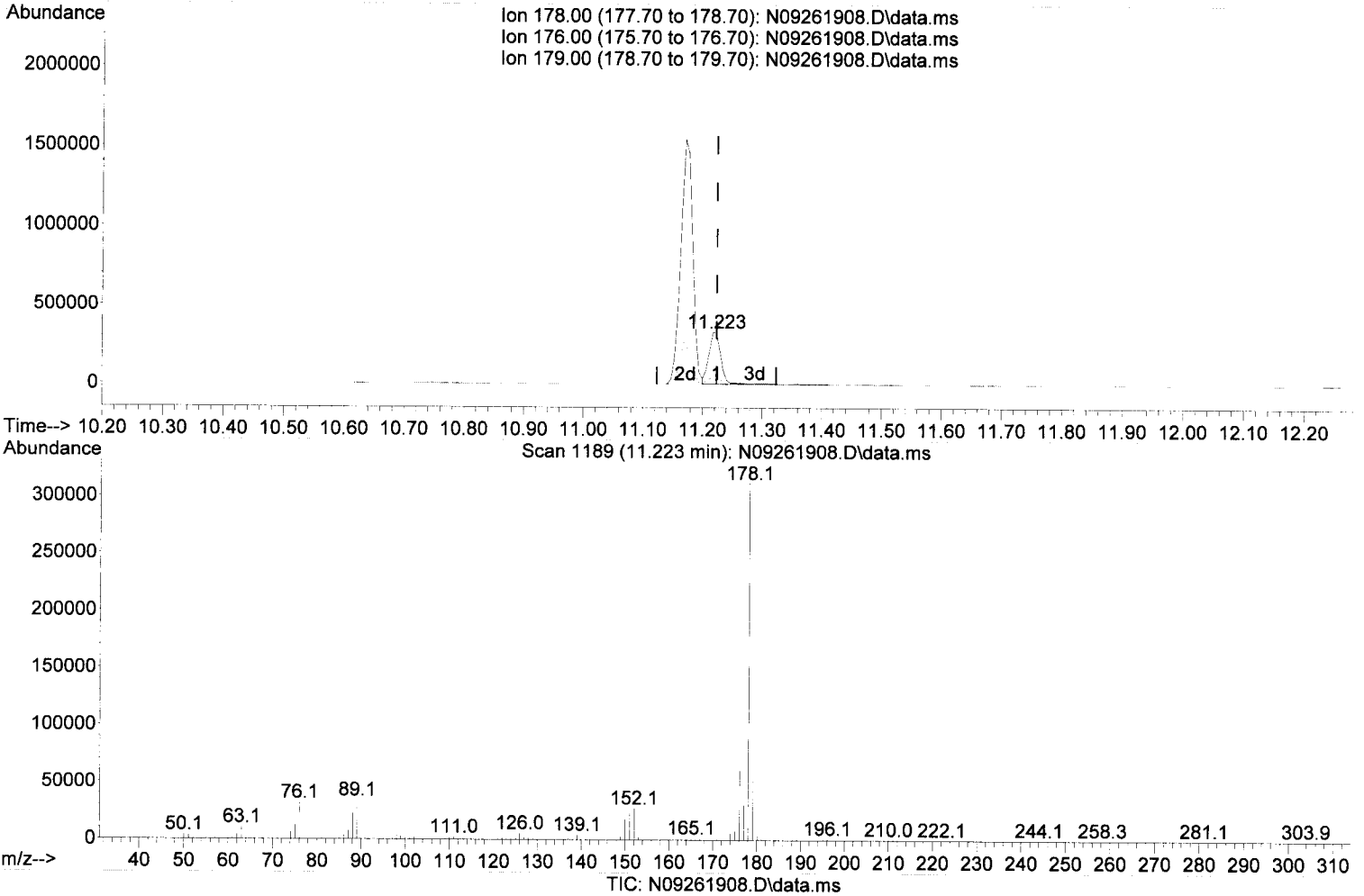
response 292400

Ion	Exp%	Act%
166.00	100.00	100.00
165.00	95.70	94.30
167.00	13.60	13.88
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261908.D
 Acq On : 26 Sep 2019 05:49 pm
 Operator :
 Sample : 9091304-DUP1@1000
 Misc : 1000x, 8270D LL PAH ONLY
 ALS Vial : 8 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 11:29:15 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(20) Anthracene (T)

11.223min (-0.000) 167.82 ng/ml

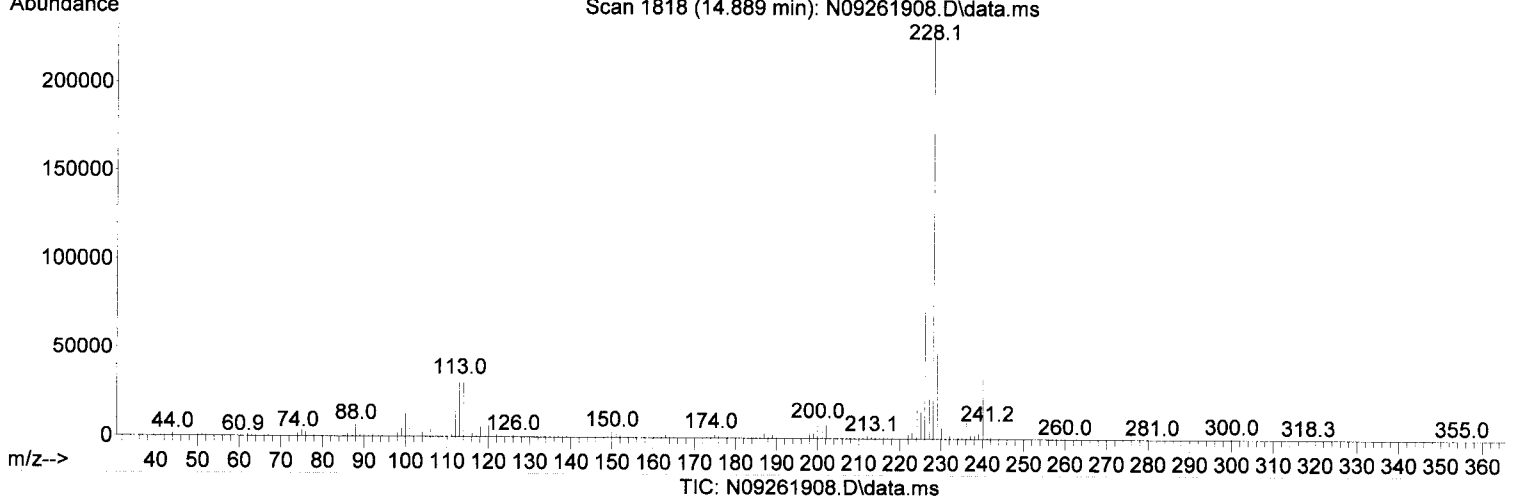
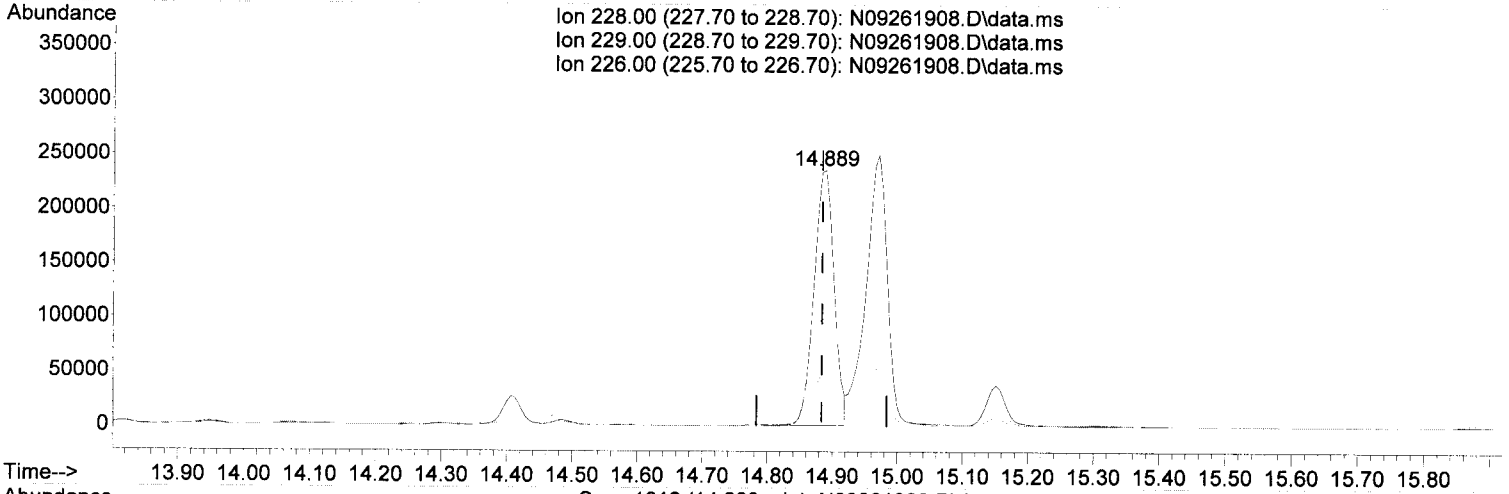
response 453719

Ion	Exp%	Act%
178.00	100.00	100.00
176.00	18.90	18.41
179.00	15.30	15.78
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261908.D
 Acq On : 26 Sep 2019 05:49 pm
 Operator :
 Sample : 9091304-DUP1@1000
 Misc : 1000x, 8270D LL PAH ONLY
 ALS Vial : 8 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 11:29:15 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(27) Benz(a)anthracene (T)

14.889min (+ 0.006) 183.79 ng/ml

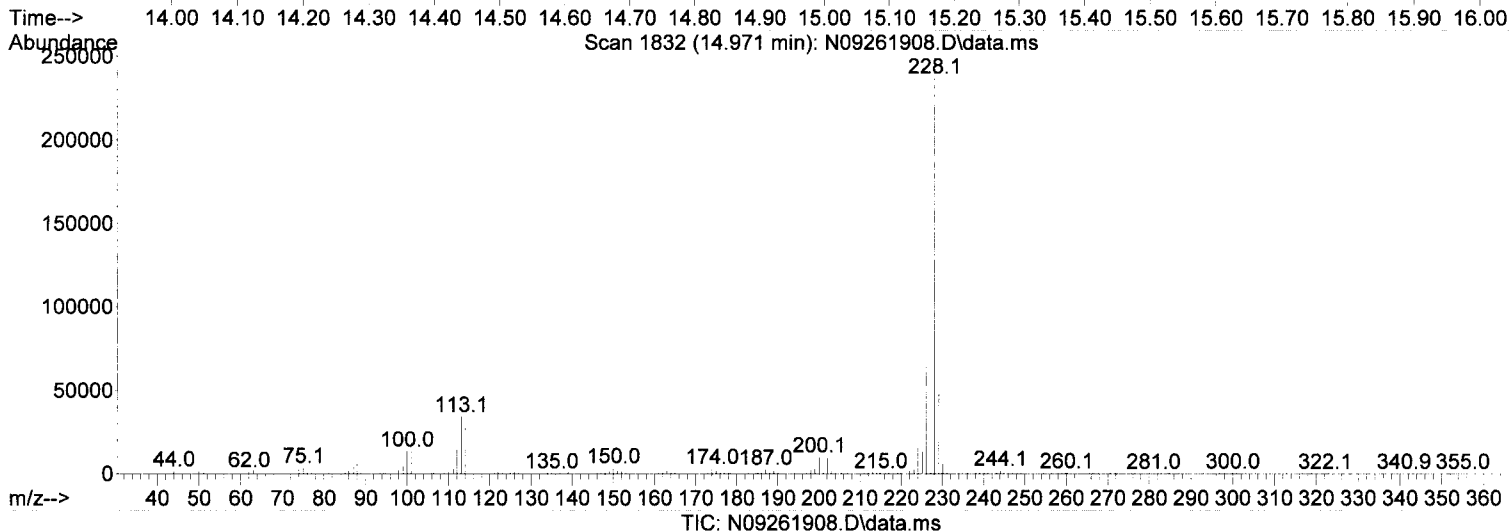
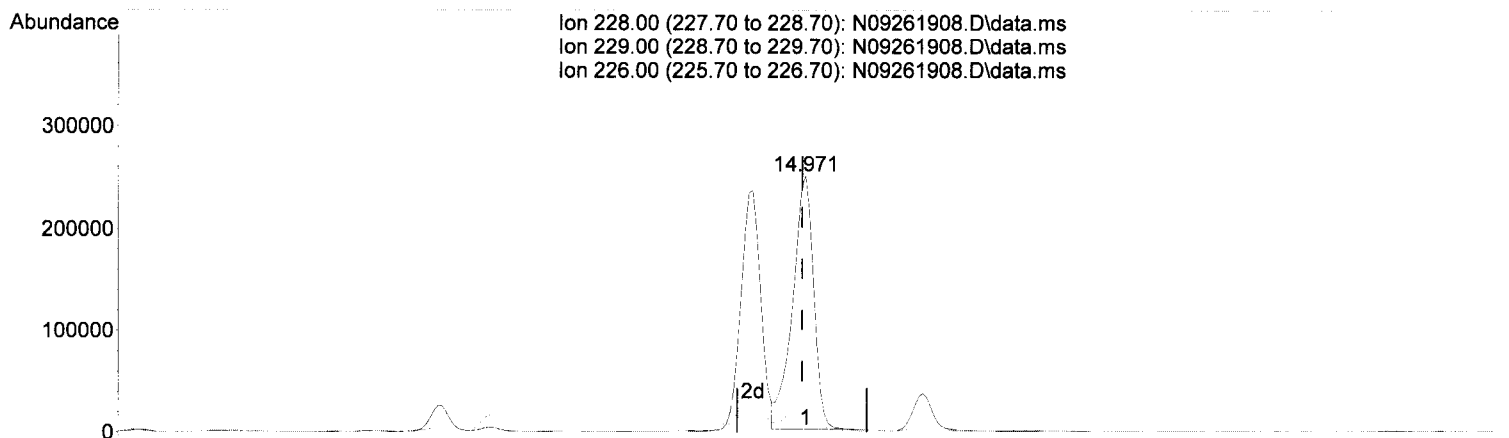
response 506293

Ion	Exp%	Act%
228.00	100.00	100.00
229.00	19.40	20.44
226.00	26.20	37.15
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261908.D
 Acq On : 26 Sep 2019 05:49 pm
 Operator :
 Sample : 9091304-DUP1@1000
 Misc : 1000x, 8270D LL PAH ONLY
 ALS Vial : 8 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 11:29:15 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(28) Chrysene (T)

14.971min (+ 0.006) 216.19 ng/ml

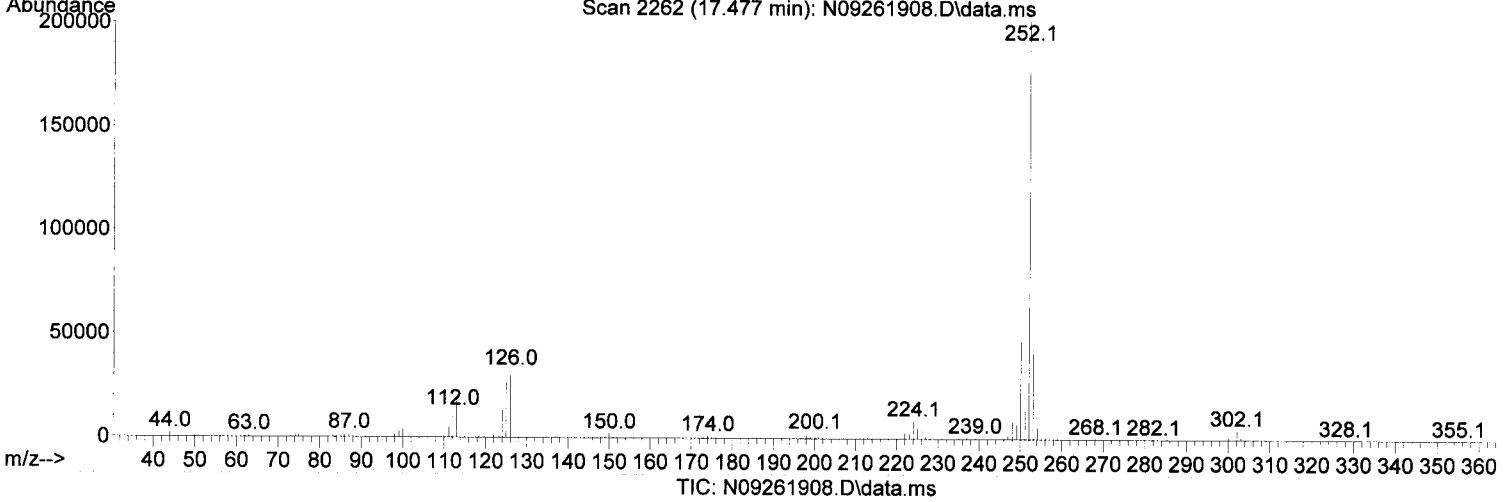
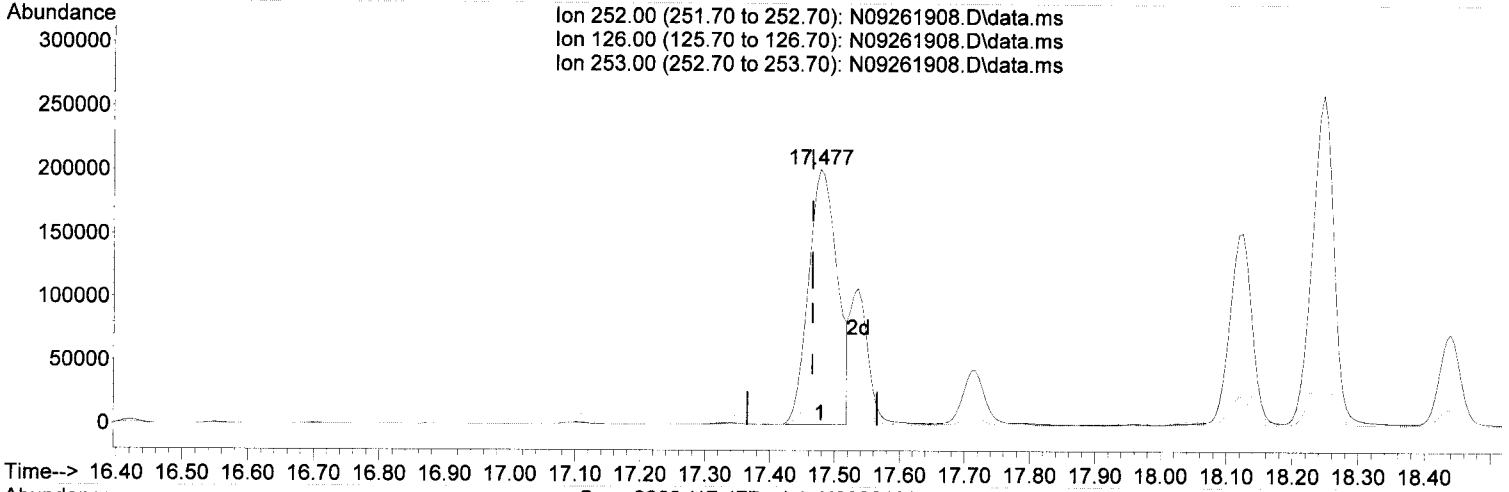
response 563587

Ion	Exp%	Act%
228.00	100.00	100.00
229.00	19.60	21.60
226.00	28.60	29.53
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261908.D
 Acq On : 26 Sep 2019 05:49 pm
 Operator :
 Sample : 9091304-DUP1@1000
 Misc : 1000x, 8270D LL PAH ONLY
 ALS Vial : 8 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 11:29:15 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(30) Benzo(b)fluoranthene (T)

17.477min (+ 0.012) 242.32 ng/ml

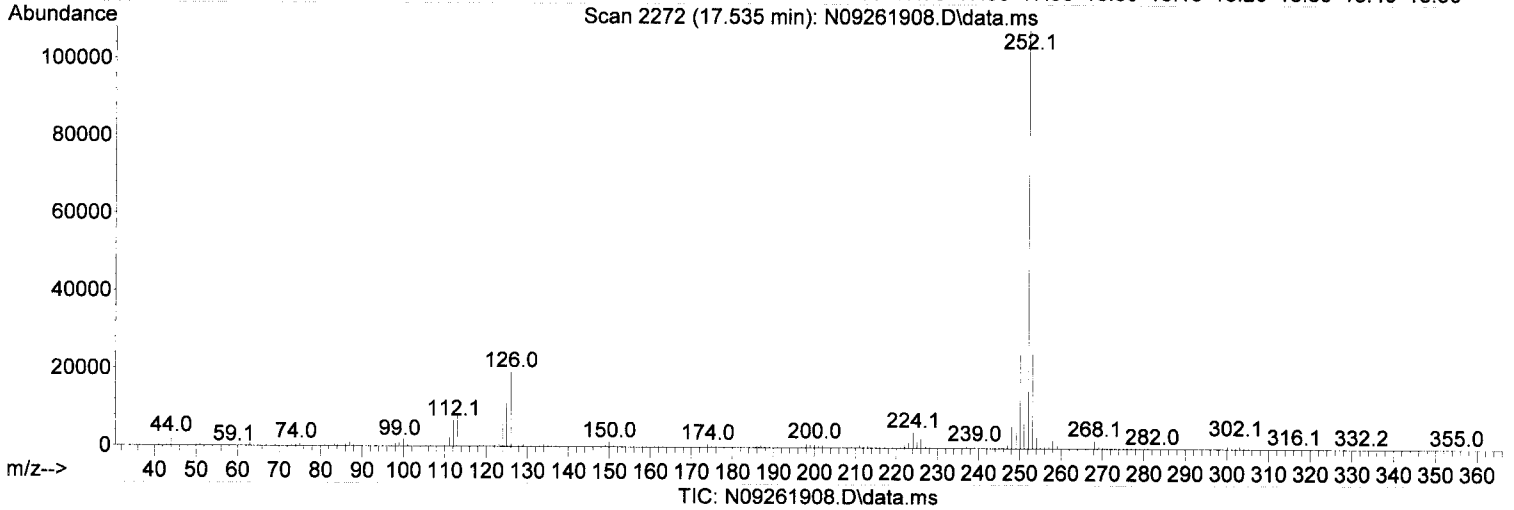
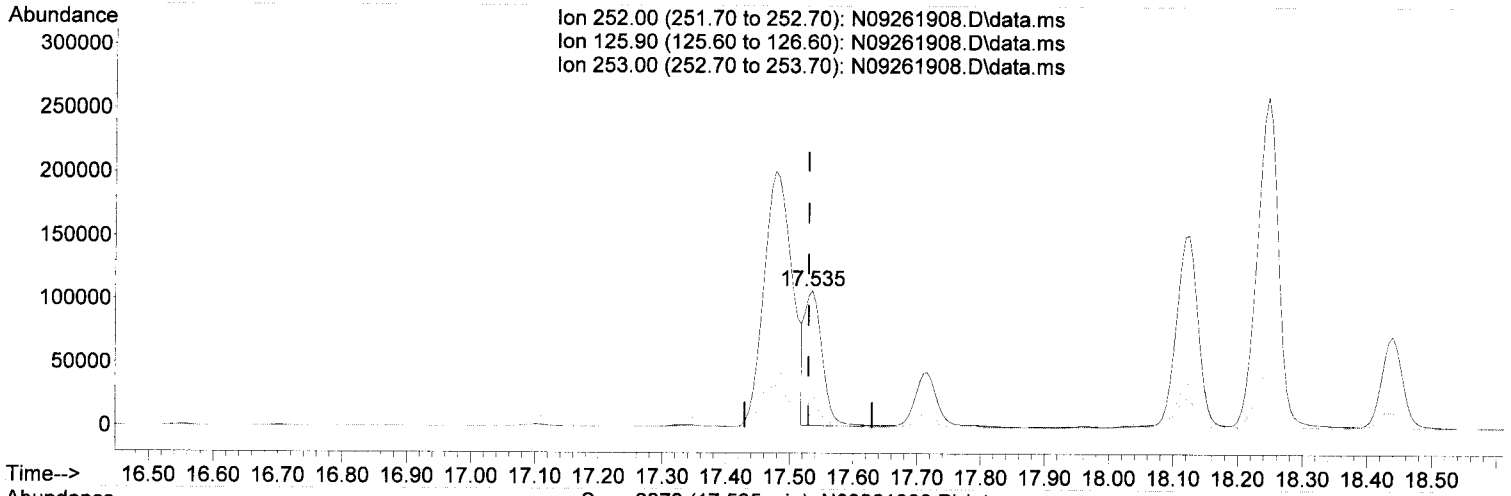
response 625153

Ion	Exp%	Act%
252.00	100.00	100.00
126.00	20.00	16.27
253.00	21.10	22.41
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261908.D
 Acq On : 26 Sep 2019 05:49 pm
 Operator :
 Sample : 9091304-DUP1@1000
 Misc : 1000x, 8270D LL PAH ONLY
 ALS Vial : 8 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 11:29:15 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(31) Benzo(k)fluoranthene (T)

17.535min (+ 0.006) 79.44 ng/ml/m

response 201771

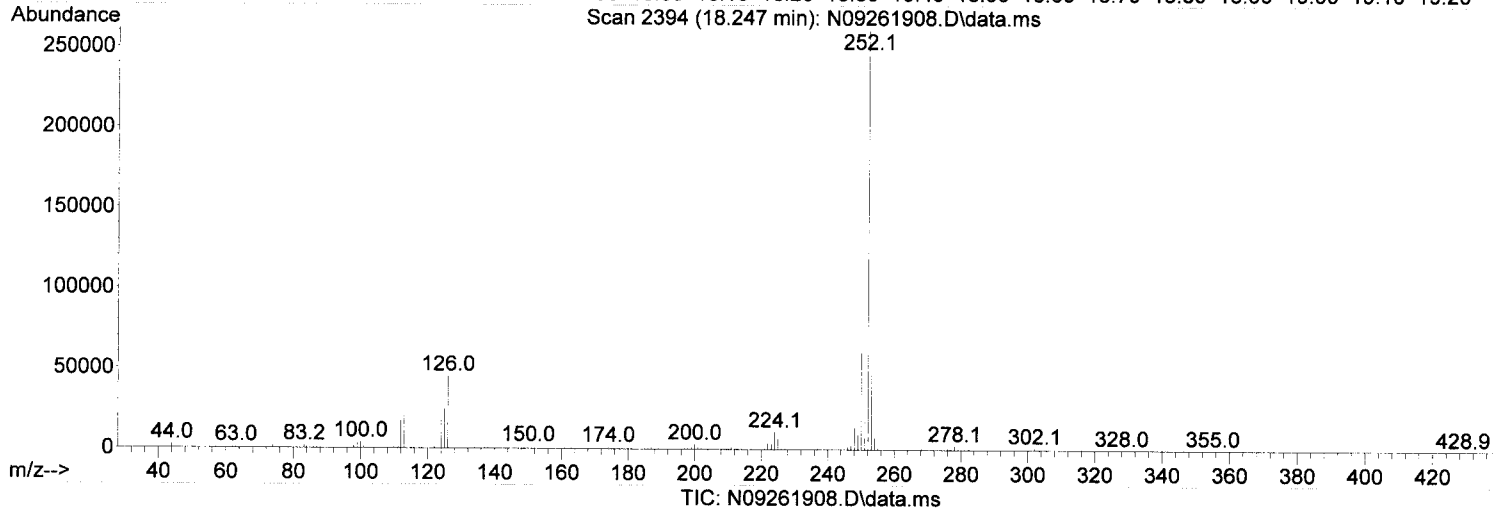
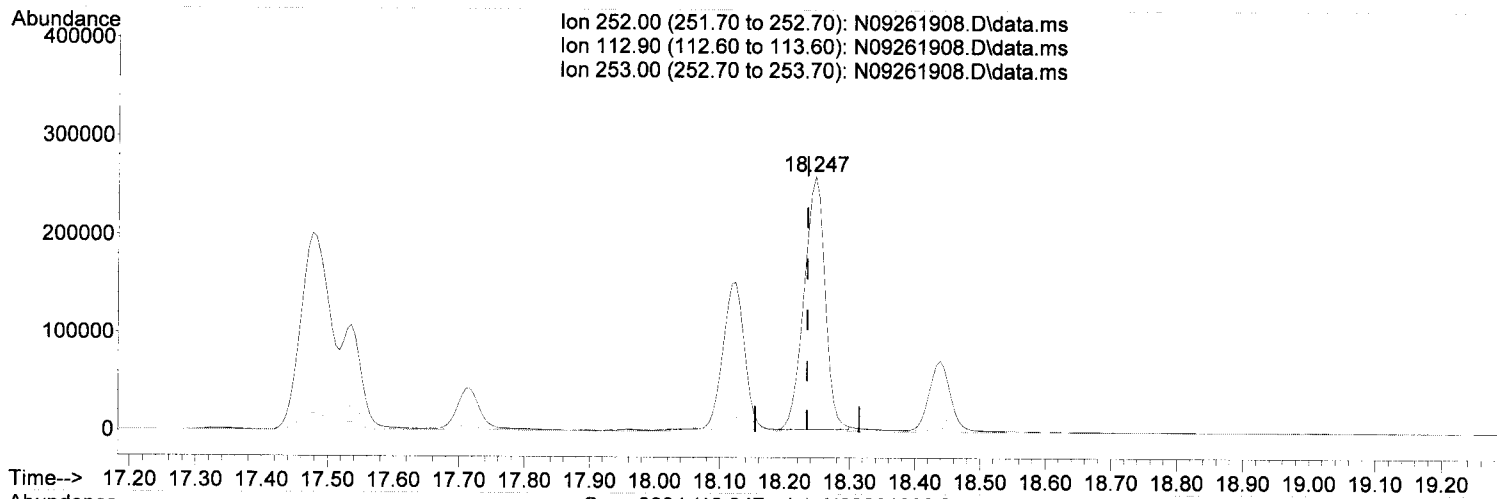
Ion	Exp%	Act%
252.00	100.00	100.00
125.90	22.10	17.85
253.00	21.50	22.67
0.00	0.00	0.00

Handwritten: REM 9/27/19
 MOS

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261908.D
 Acq On : 26 Sep 2019 05:49 pm
 Operator :
 Sample : 9091304-DUP1@1000
 Misc : 1000x, 8270D LL PAH ONLY
 ALS Vial : 8 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 11:29:15 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(35) Benzo(a)pyrene (T)

18.247min (+ 0.013) 264.29 ng/ml

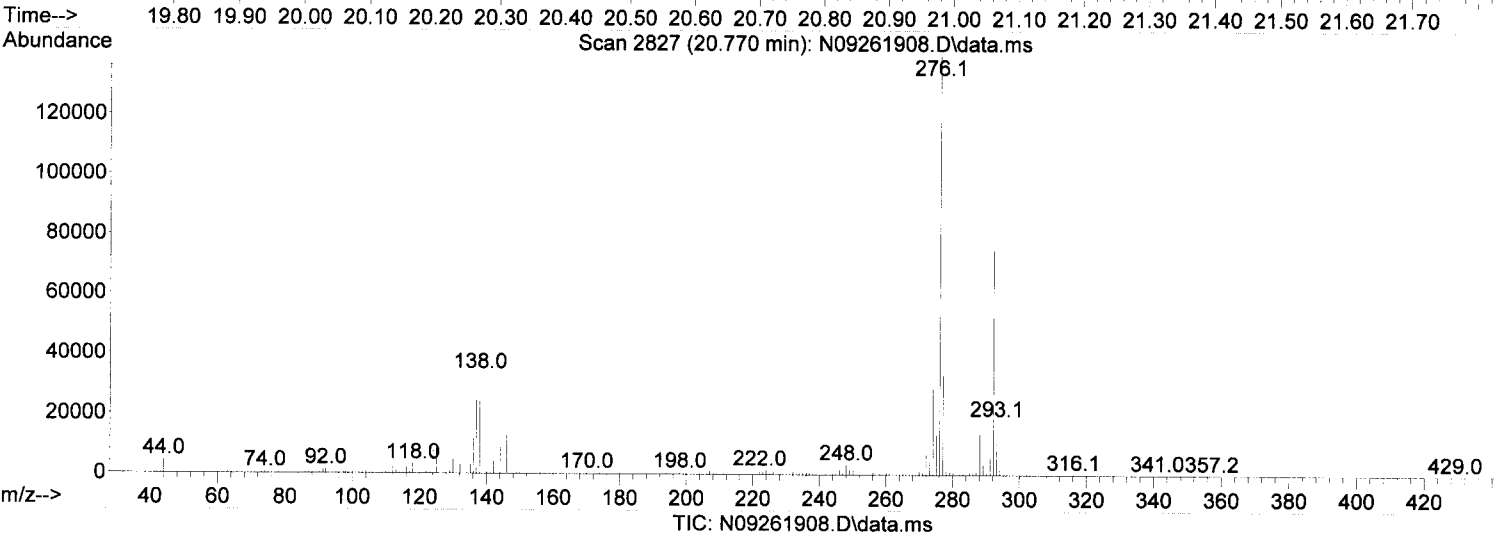
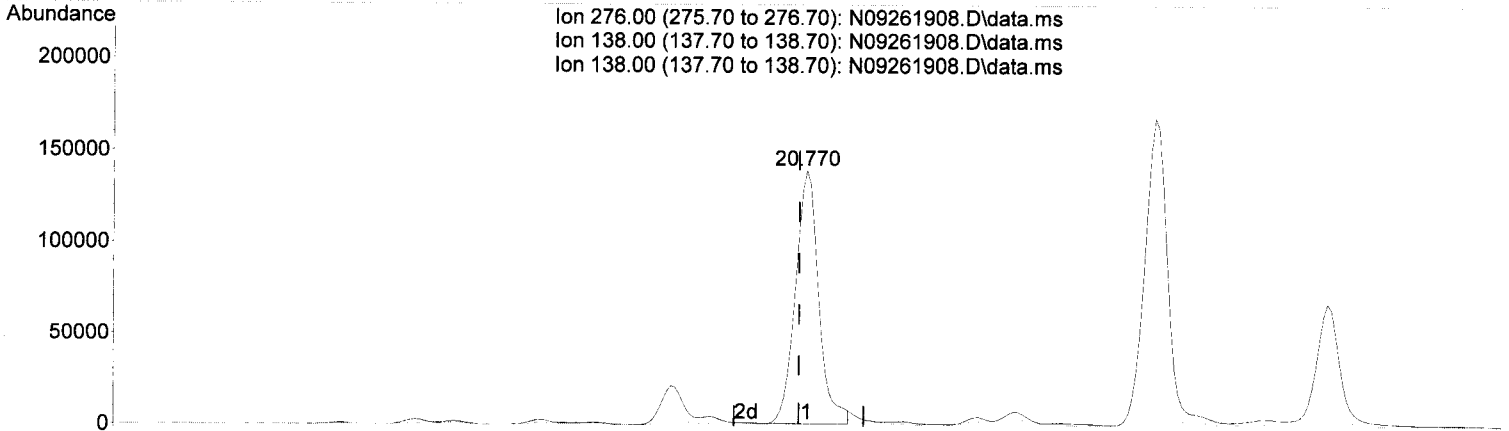
response 583592

Ion	Exp%	Act%
252.00	100.00	100.00
112.90	12.70	10.77
253.00	21.90	22.39
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261908.D
 Acq On : 26 Sep 2019 05:49 pm
 Operator :
 Sample : 9091304-DUP1@1000
 Misc : 1000x, 8270D LL PAH ONLY
 ALS Vial : 8 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 11:29:15 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(38) Indeno(1,2,3-cd)Pyrene (T)

20.770min (+ 0.012) 159.19 ng/ml

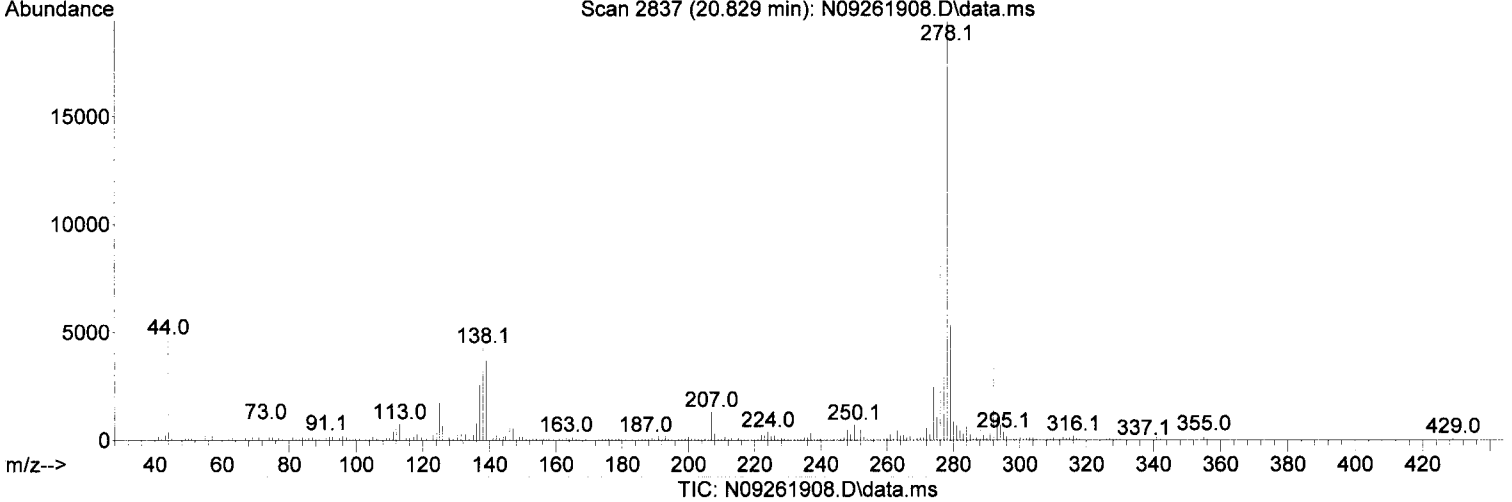
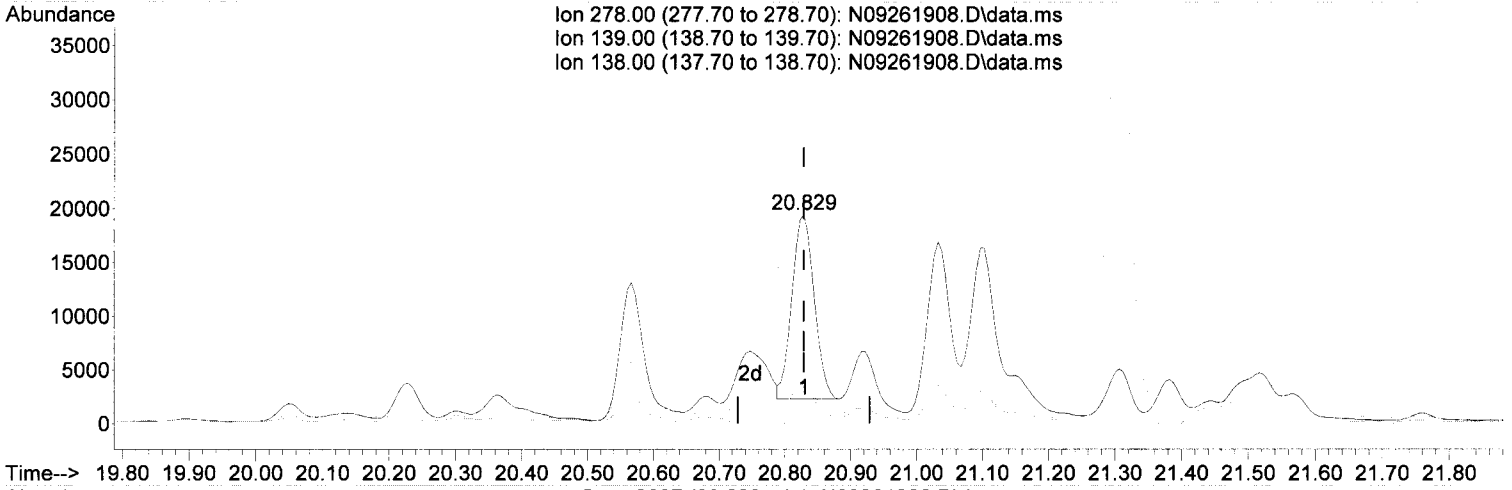
response 347556

Ion	Exp%	Act%
276.00	100.00	100.00
138.00	31.60	23.86
138.00	31.60	23.86
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261908.D
 Acq On : 26 Sep 2019 05:49 pm
 Operator :
 Sample : 9091304-DUP1@1000
 Misc : 1000x, 8270D LL PAH ONLY
 ALS Vial : 8 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 11:29:15 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(39) Dibenz(a,h)anthracene (T)

20.829min (+ 0.001) 19.57 ng/ml

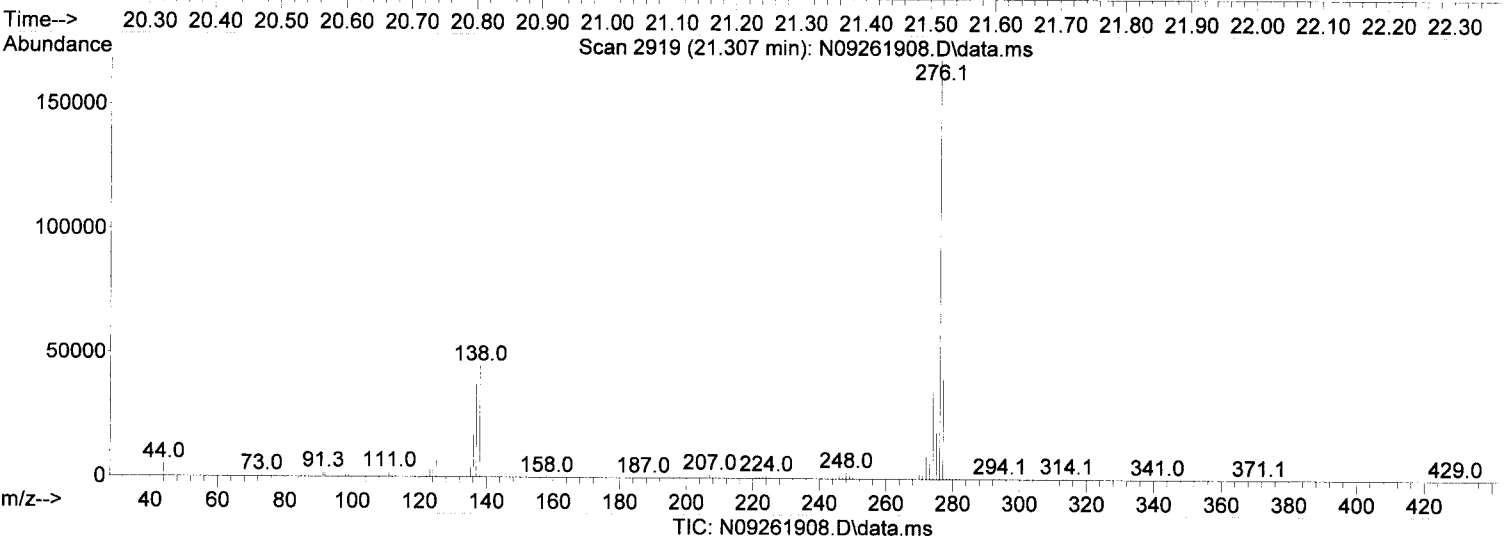
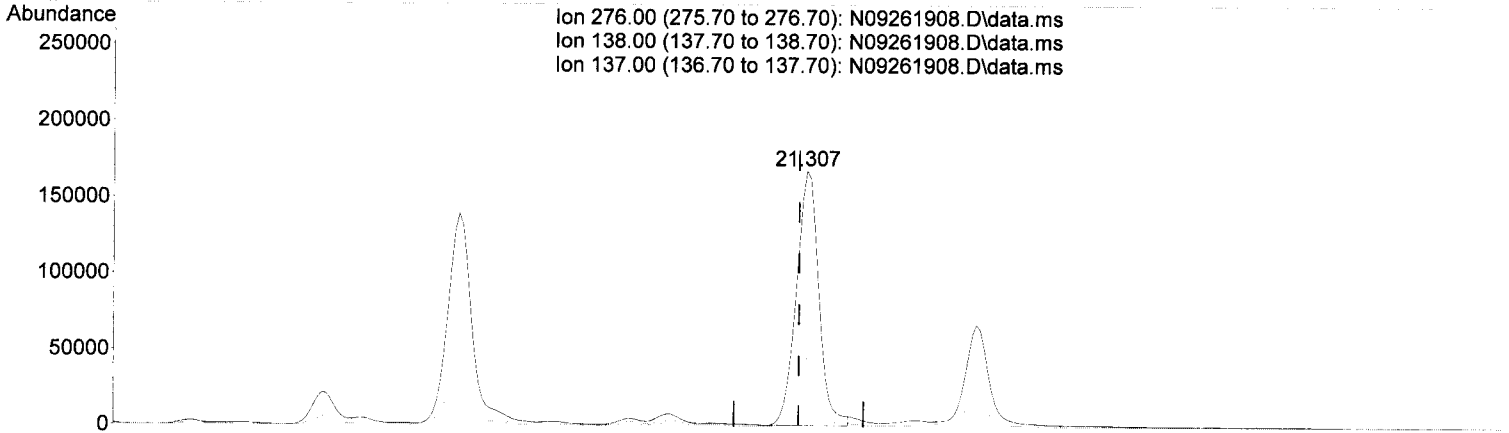
response 40138

Ion	Exp%	Act%
278.00	100.00	100.00
139.00	26.00	19.00
138.00	19.90	22.14
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261908.D
 Acq On : 26 Sep 2019 05:49 pm
 Operator :
 Sample : 9091304-DUP1@1000
 Misc : 1000x, 8270D LL PAH ONLY
 ALS Vial : 8 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 11:29:15 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(40) Benzo(g,h,i)perylene (T)

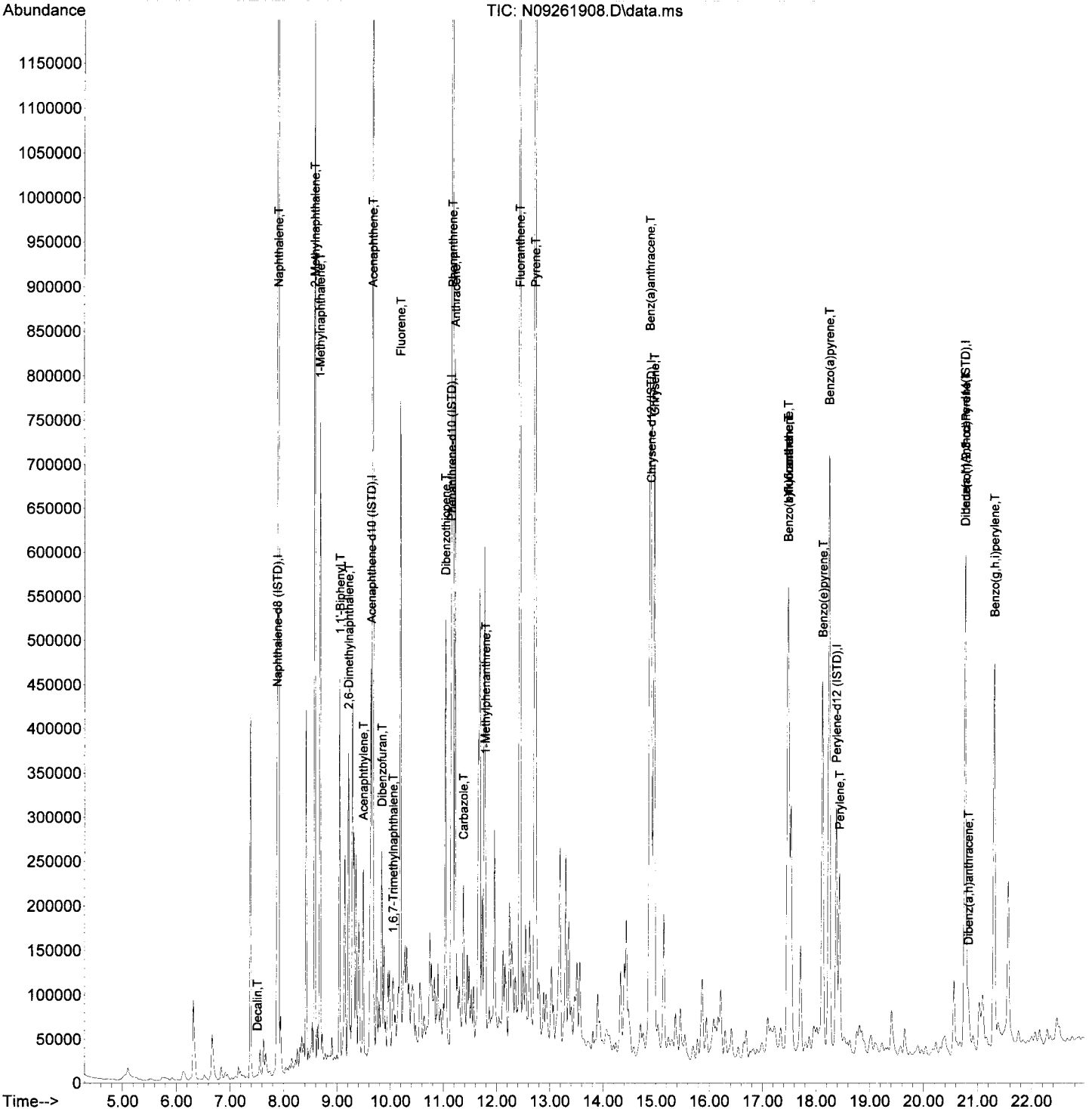
21.307min (+ 0.013) 174.56 ng/ml

response 404277

Ion	Exp%	Act%
276.00	100.00	100.00
138.00	34.40	26.73
137.00	28.60	22.29
0.00	0.00	0.00

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261908.D
 Acq On : 26 Sep 2019 05:49 pm
 Operator :
 Sample : 9091304-DUP1@1000
 Misc : 1000x, 8270D LL PAH ONLY
 ALS Vial : 8 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 11:29:15 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



Data Path : U:\data\2019-09\9I26035\
 Data File : N09261909.D
 Acq On : 26 Sep 2019 06:21 pm
 Operator :
 Sample : 9091304-BLK2@10
 Misc : 10x, 8270D LL PAH ONLY →
 ALS Vial : 9 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Jan 9/27/19

Naphthalene only

Quant Time: Sep 27 11:29:19 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

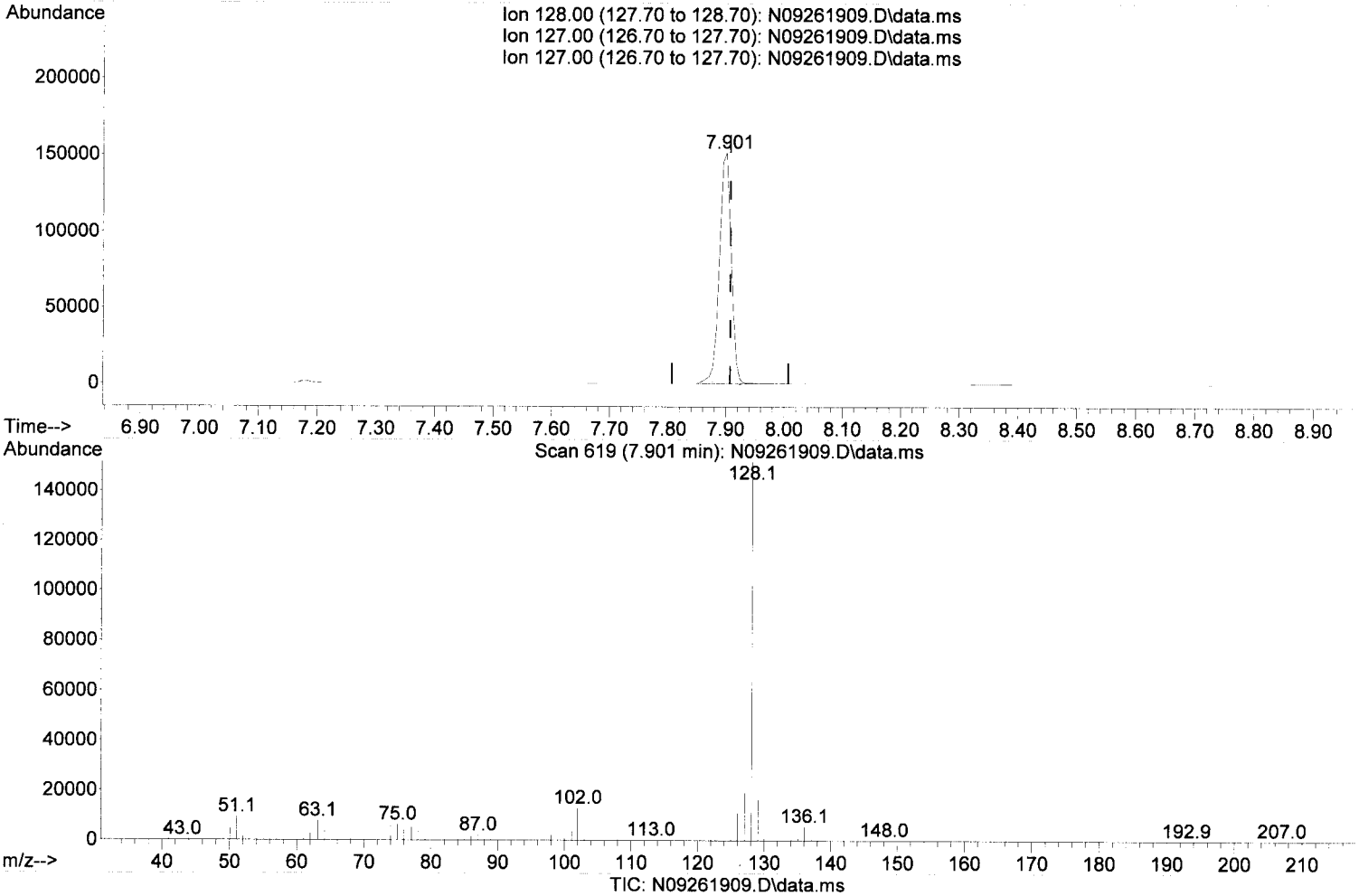
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Naphthalene-d8 (ISTD)	7.877	136	186611	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.637	162	129083	100.00	ng/ml	0.00	
17) Phenanthrene-d10 (ISTD)	11.141	188	242064	100.00	ng/ml	0.00	
24) Chrysene-d12 (ISTD)	14.901	240	190214	100.00	ng/ml	0.00	
29) Perylene-d12 (ISTD)	18.369	264	166255	100.00	ng/ml	0.00	
37) Dibenz(a,h)Anthracene-d...	20.758	292	131811	100.00	ng/ml	0.00	
System Monitoring Compounds							
2) Nitrobenzene-d5 (Surr)	7.178	82	5183	8.36	ng/ml	0.00	
10) 2-Fluorobiphenyl (Surr)	8.950	172	16903	8.78	ng/ml	0.00	
11) Acenaphthylene d-8 (Surr)	9.474	160	2371	-1.00	ng/ml	0.00	
26) Terphenyl-d14 (Surr)	12.925	244	18854	9.42	ng/ml	0.00	
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml		
Target Compounds							
3) Decalin	0.000		0				Qvalue
4) Naphthalene	7.901	128	216507	<u>105.19</u>	ng/ml		100
5) 2-Methylnaphthalene	8.582	142	22343	12.81	ng/ml		99
6) 1-Methylnaphthalene	8.682	142	12706	7.29	ng/ml		98
7) 1,1'-Biphenyl	9.049	154	5252	2.24	ng/ml		98
8) 2,6-Dimethylnaphthalene	9.212	156	2781	1.62	ng/ml		94
12) Acenaphthylene	9.492	152	1542	0.55	ng/ml		96
13) Acenaphthene	9.667	153	10619	5.79	ng/ml		99
14) Dibenzofuran	9.841	168	702	N.D.			
15) 1,6,7-Trimethylnaphtha...	10.051	170	425	N.D.			
16) Fluorene	10.191	166	2614	1.39	ng/ml		98
18) Dibenzothiopene	11.036	184	1003	N.D.			
19) Phenanthrene	11.165	178	7521	2.66	ng/ml		99
20) Anthracene	11.217	178	1173	0.45	ng/ml		97
21) Carbazole	11.380	167	210	N.D.			
22) 1-Methylphenanthrene	11.788	192	227	N.D.			
23) Fluoranthene	12.429	202	1350	0.47	ng/ml		93
25) Pyrene	12.721	202	1341	0.45	ng/ml		94
27) Benz(a)anthracene	14.901	228	673	N.D.			
28) Chrysene	14.953	228	212	N.D.			
30) Benzo(b)fluoranthene	17.471	252	277	N.D.			
31) Benzo(k)fluoranthene	17.471	252	348	N.D.			
32) Benzo(b+k)fluoranthene	17.471	252	357	N.D.			
34) Benzo(e)pyrene	18.112	252	160	N.D.			
35) Benzo(a)pyrene	18.229	252	221	N.D.			
36) Perylene	18.375	252	639	N.D.			
38) Indeno(1,2,3-cd)Pyrene	20.758	276	228	N.D.			
39) Dibenz(a,h)anthracene	0.000		0	N.D.			
40) Benzo(g,h,i)perylene	21.289	276	210	N.D.			

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261909.D
 Acq On : 26 Sep 2019 06:21 pm
 Operator :
 Sample : 9091304-BLK2@10
 Misc : 10x, 8270D LL PAH ONLY
 ALS Vial : 9 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 11:29:19 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(4) Naphthalene (T)

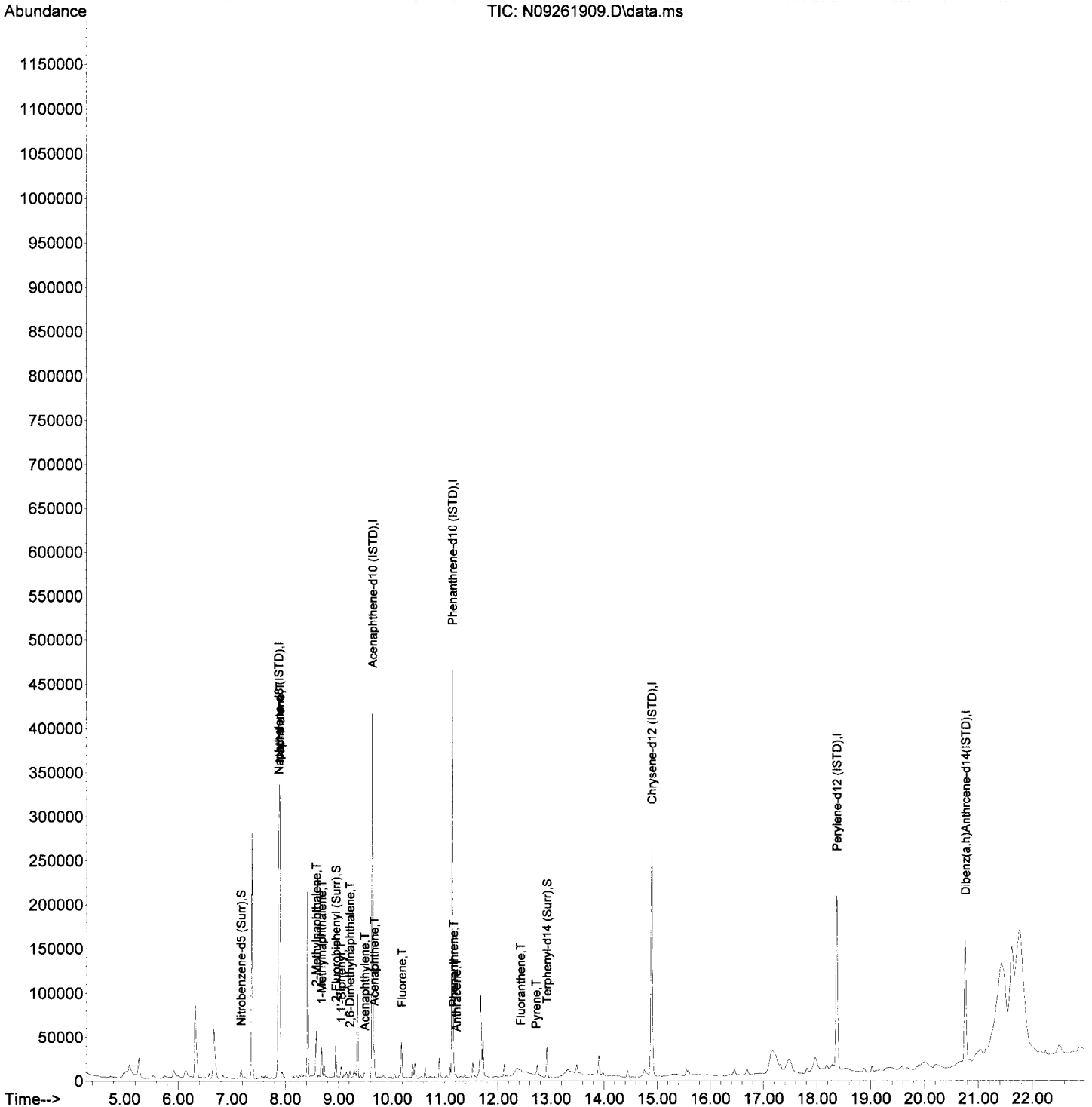
7.901min (-0.006) 105.19 ng/ml

response 216507

Ion	Exp%	Act%
128.00	100.00	100.00
127.00	12.60	12.78
127.00	12.60	12.78
0.00	0.00	0.00

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261909.D
 Acq On : 26 Sep 2019 06:21 pm
 Operator :
 Sample : 9091304-BLK2@10
 Misc : 10x, 8270D LL PAH ONLY
 ALS Vial : 9 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 11:29:19 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



Data Path : U:\data\2019-09\9I26035\
 Data File : N09261910.D
 Acq On : 26 Sep 2019 06:53 pm
 Operator :
 Sample : A9I0771-02@1000
 Misc : 1000x, 8270D LL PAH ONLY
 ALS Vial : 10 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

:-CML 9/27/19
RR2

Quant Time: Sep 27 11:29:22 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

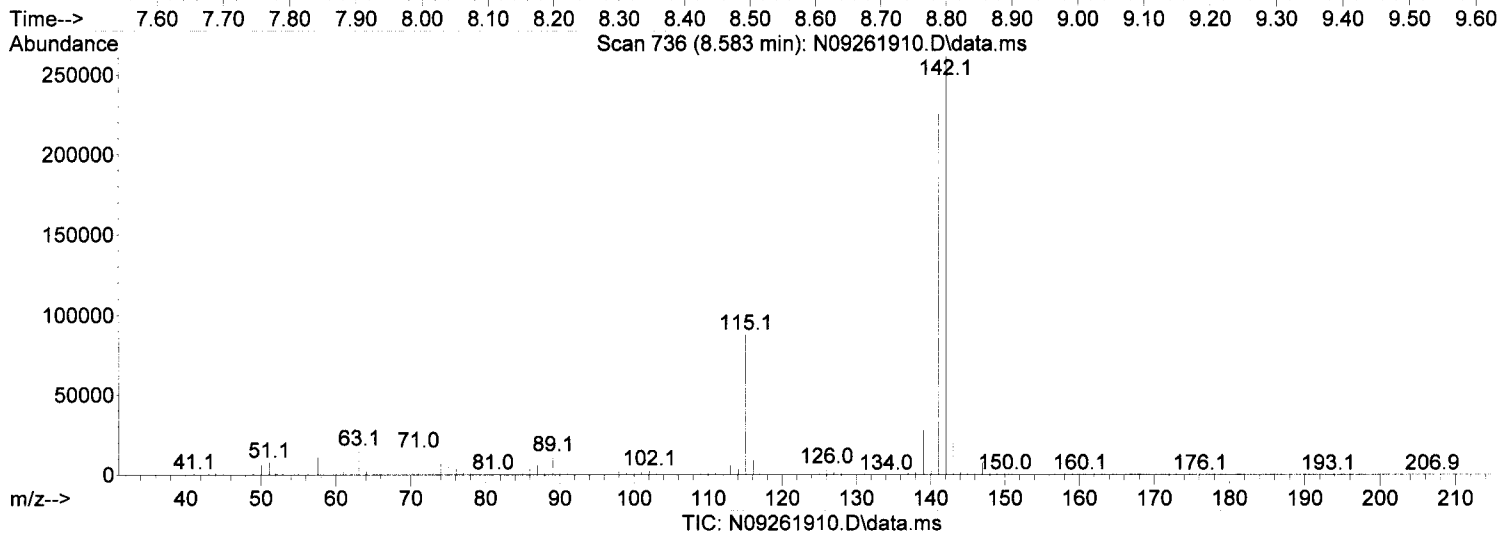
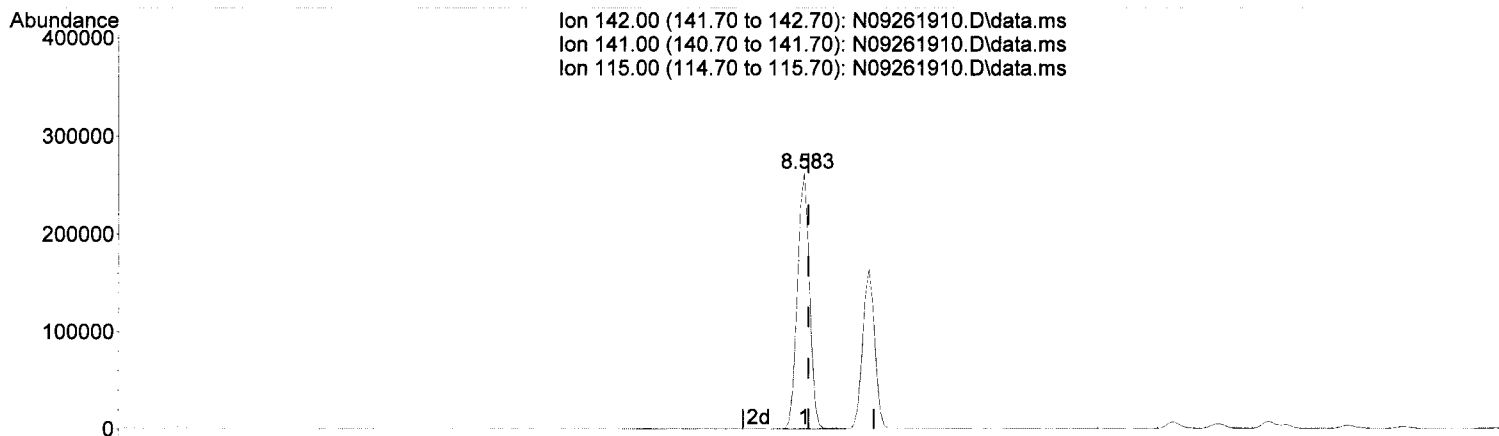
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Naphthalene-d8 (ISTD)	7.877	136	157389	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.632	162	127247	100.00	ng/ml	0.00	
17) Phenanthrene-d10 (ISTD)	11.141	188	248353	100.00	ng/ml	0.00	
24) Chrysene-d12 (ISTD)	14.901	240	228343	100.00	ng/ml	0.00	
29) Perylene-d12 (ISTD)	18.369	264	210630	100.00	ng/ml	0.00	
37) Dibenz(a,h)Anthracene-d...	20.759	292	164339	100.00	ng/ml	0.00	
System Monitoring Compounds							
2) Nitrobenzene-d5 (Surr)	7.178	82	202	0.39	ng/ml	0.00	
10) 2-Fluorobiphenyl (Surr)	8.944	172	460	0.24	ng/ml	0.00	
11) Acenaphthylene d-8 (Surr)	9.474	160	2941	-1.00	ng/ml	0.00	
26) Terphenyl-d14 (Surr)	12.925	244	515	0.21	ng/ml	0.00	
33) Benzo(a)pyrene d-12 (S...	18.177	264	130	0.08	ng/ml	0.00	
Target Compounds							
							Qvalue
3) Decalin	7.341	138	52	0.44	ng/ml	18	
4) Naphthalene	7.901	128	2205073	1270.29	ng/ml	99	→ RR2
5) 2-Methylnaphthalene	8.583	142	340052	231.17	ng/ml	99	
6) 1-Methylnaphthalene	8.682	142	211596	143.87	ng/ml	98	
7) 1,1'-Biphenyl	9.049	154	144598	73.09	ng/ml	98	
8) 2,6-Dimethylnaphthalene	9.212	156	90121	62.37	ng/ml	98	
12) Acenaphthylene	9.492	152	65329	23.65	ng/ml	94	
13) Acenaphthene	9.667	153	420894	232.62	ng/ml	100	
14) Dibenzofuran	9.842	168	37964	16.75	ng/ml	95	
15) 1,6,7-Trimethylnaphtha...	10.051	170	27926	18.40	ng/ml	90	
16) Fluorene	10.185	166	215743	116.52	ng/ml	99	
18) Dibenzothiophene	11.036	184	196669	75.72	ng/ml	98	
19) Phenanthrene	11.171	178	1572343	541.04	ng/ml	99	→ RR2
20) Anthracene	11.217	178	296677	109.75	ng/ml	99	
21) Carbazole	11.375	167	43916	20.08	ng/ml	99	
22) 1-Methylphenanthrene	11.788	192	53810	26.65	ng/ml	97	
23) Fluoranthene	12.430	202	883752	301.82	ng/ml	98	
25) Pyrene	12.721	202	1093444	306.50	ng/ml	100	
27) Benz(a)anthracene	14.878	228	210951	79.57	ng/ml	71	
28) Chrysene	14.959	228	253321	100.97	ng/ml	98	
30) Benzo(b)fluoranthene	17.465	252	220325	90.65	ng/ml	95	
31) Benzo(k)fluoranthene	17.465	252	280614	117.27	ng/ml	93	ME-MOS
32) Benzo(b+k)fluoranthene	17.465	252	307690	123.77	ng/ml	93	
34) Benzo(e)pyrene	18.112	252	143871	58.54	ng/ml	99	
35) Benzo(a)pyrene	18.235	252	224401	107.87	ng/ml	98	
36) Perylene	18.433	252	62613	24.44	ng/ml	99	
38) Indeno(1,2,3-cd)Pyrene	20.759	276	132281	65.27	ng/ml	87	
39) Dibenz(a,h)anthracene	20.823	278	15740	8.26	ng/ml	90	
40) Benzo(g,h,i)perylene	21.295	276	164633	76.57	ng/ml	87	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261910.D
 Acq On : 26 Sep 2019 06:53 pm
 Operator :
 Sample : A9I0771-02@1000
 Misc : 1000x, 8270D LL PAH ONLY
 ALS Vial : 10 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 11:29:22 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(5) 2-Methylnaphthalene (T)

8.583min (-0.006) 231.17 ng/ml

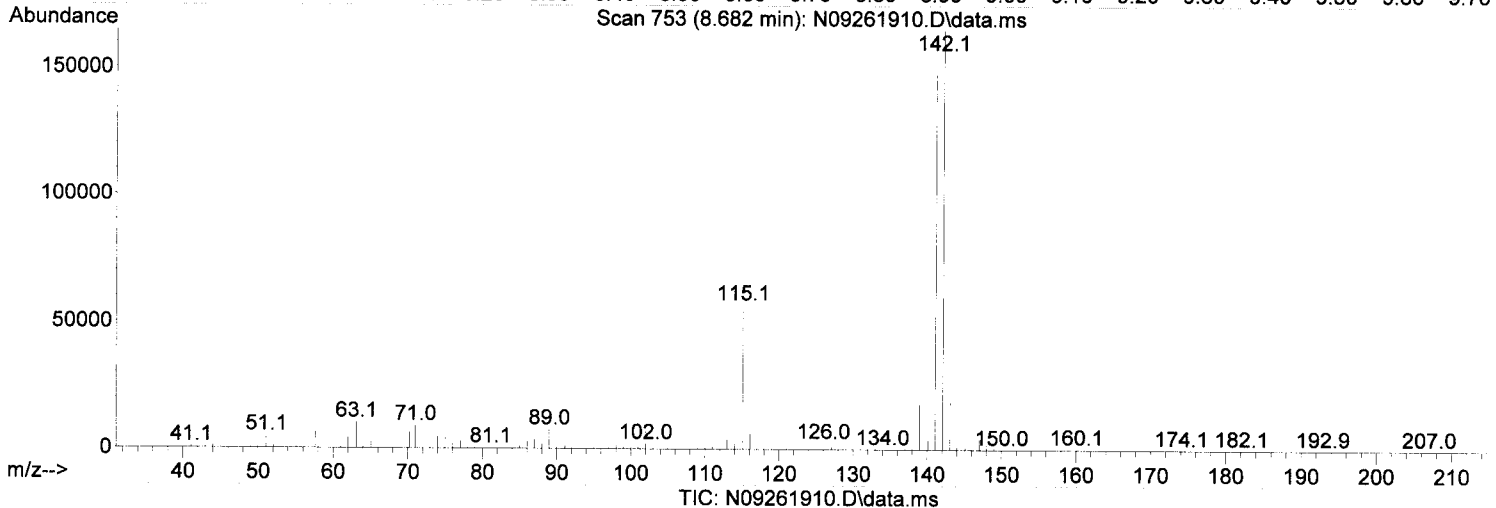
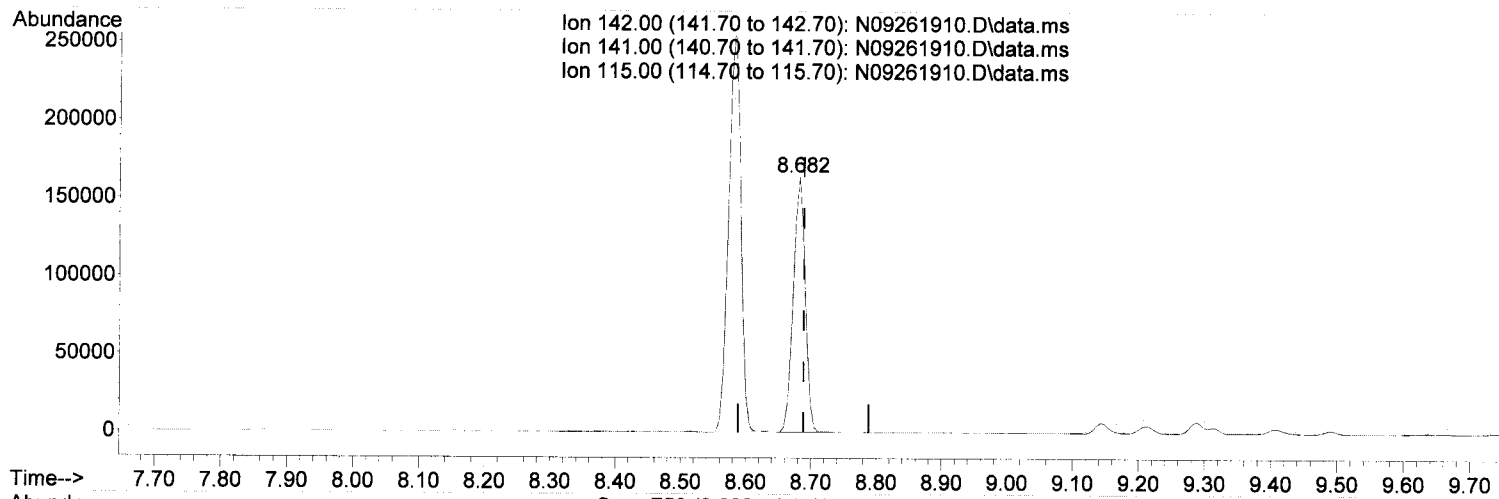
response 340052

Ion	Exp%	Act%
142.00	100.00	100.00
141.00	86.60	86.09
115.00	35.70	33.57
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261910.D
 Acq On : 26 Sep 2019 06:53 pm
 Operator :
 Sample : A9I0771-02@1000
 Misc : 1000x, 8270D LL PAH ONLY
 ALS Vial : 10 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 11:29:22 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(6) 1-Methylnaphthalene (T)

8.682min (-0.006) 143.87 ng/ml

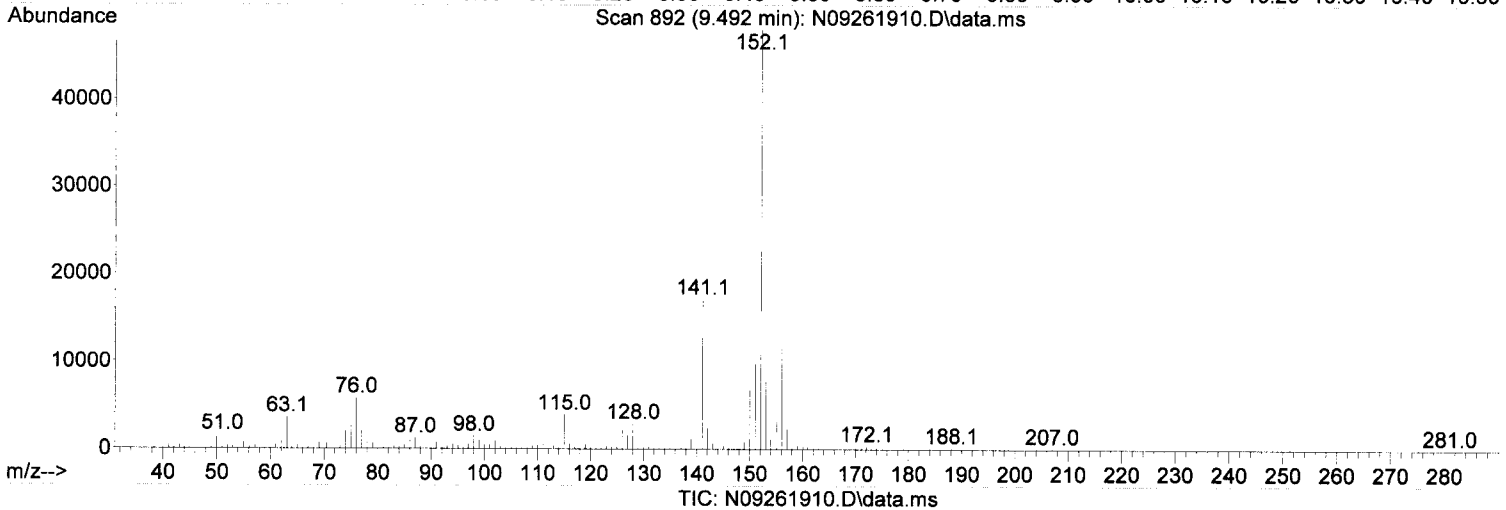
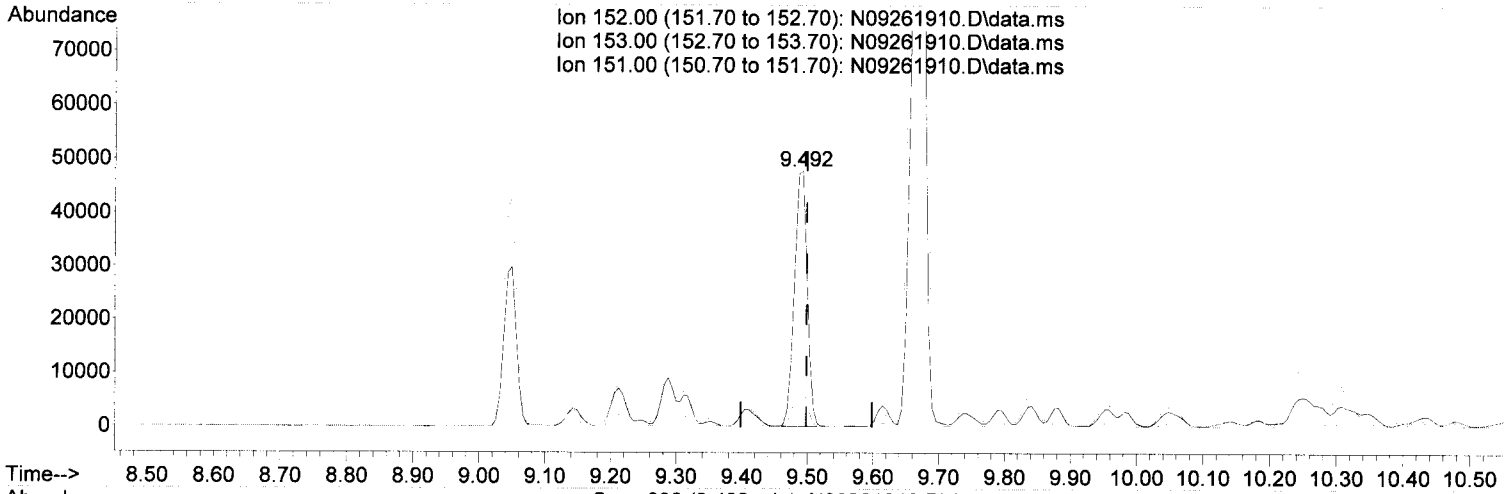
response 211596

Ion	Exp%	Act%
142.00	100.00	100.00
141.00	90.70	89.67
115.00	37.80	34.62
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261910.D
 Acq On : 26 Sep 2019 06:53 pm
 Operator :
 Sample : A9I0771-02@1000
 Misc : 1000x, 8270D LL PAH ONLY
 ALS Vial : 10 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 11:29:22 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(12) Acenaphthylene (T)

9.492min (-0.006) 23.65 ng/ml

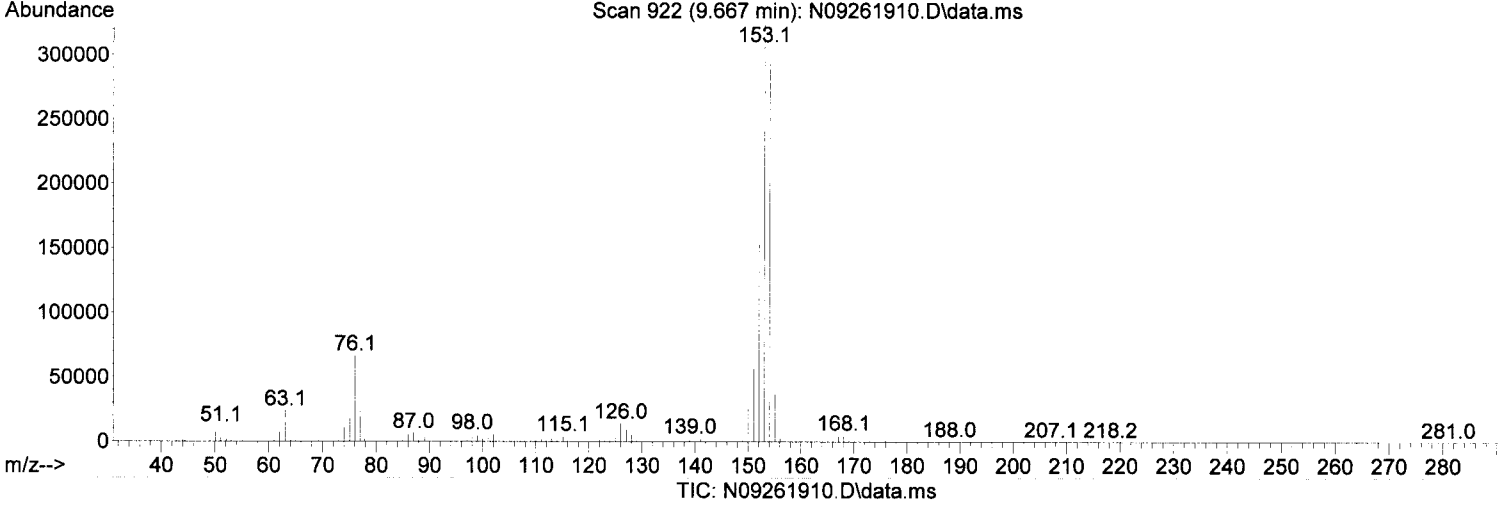
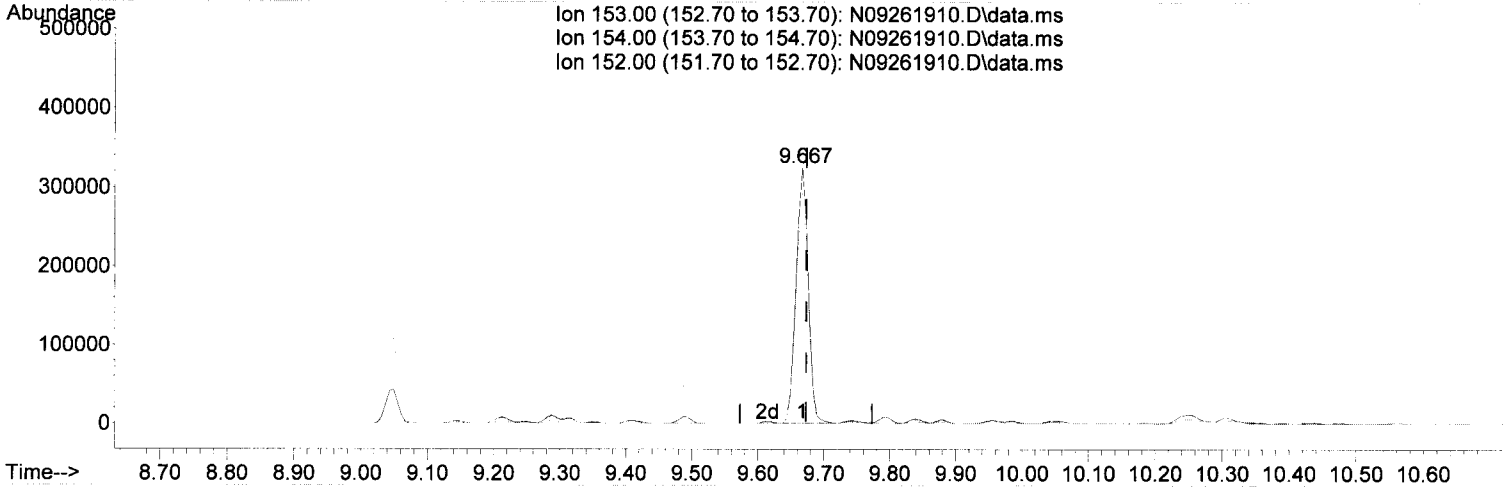
response 65329

Ion	Exp%	Act%
152.00	100.00	100.00
153.00	12.70	17.21
151.00	19.30	20.45
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261910.D
 Acq On : 26 Sep 2019 06:53 pm
 Operator :
 Sample : A9I0771-02@1000
 Misc : 1000x, 8270D LL PAH ONLY
 ALS Vial : 10 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 11:29:22 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(13) Acenaphthene (T)

9.667min (-0.006) 232.62 ng/ml

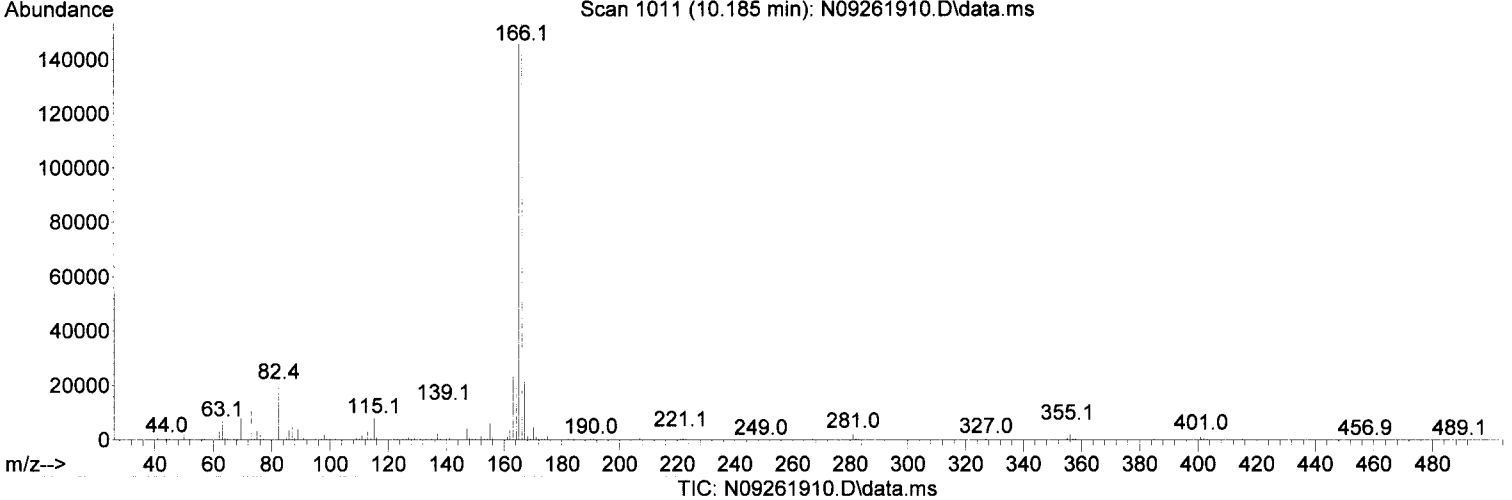
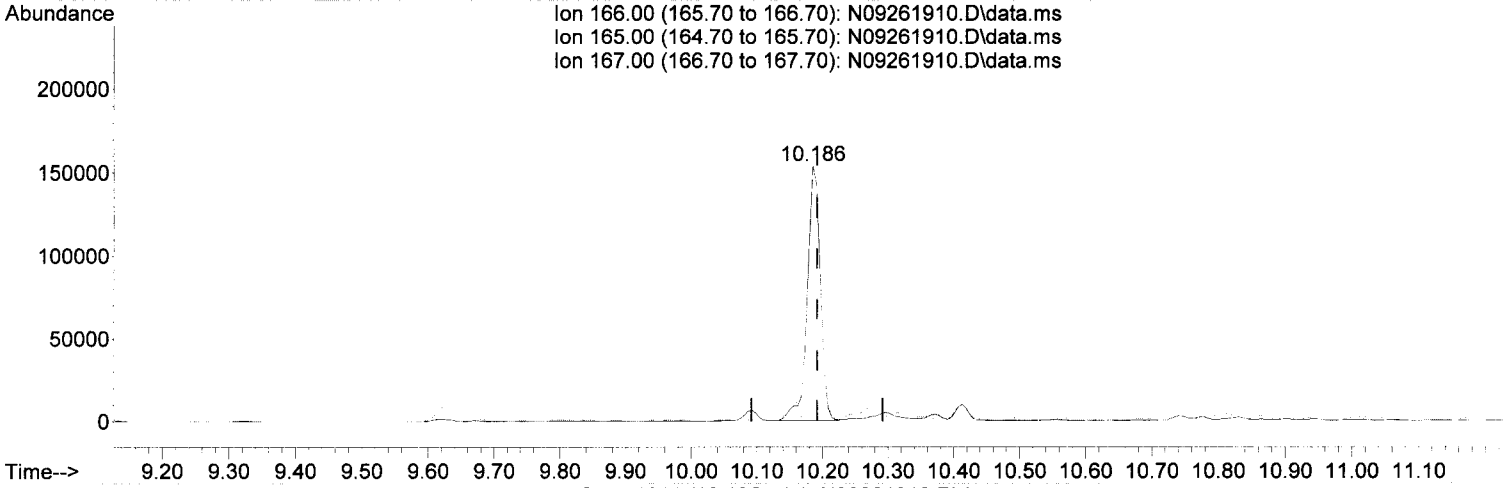
response 420894

Ion	Exp%	Act%
153.00	100.00	100.00
154.00	90.70	90.60
152.00	46.80	47.46
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261910.D
 Acq On : 26 Sep 2019 06:53 pm
 Operator :
 Sample : A9I0771-02@1000
 Misc : 1000x, 8270D LL PAH ONLY
 ALS Vial : 10 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 11:29:22 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(16) Fluorene (T)

10.185min (-0.006) 116.52 ng/ml

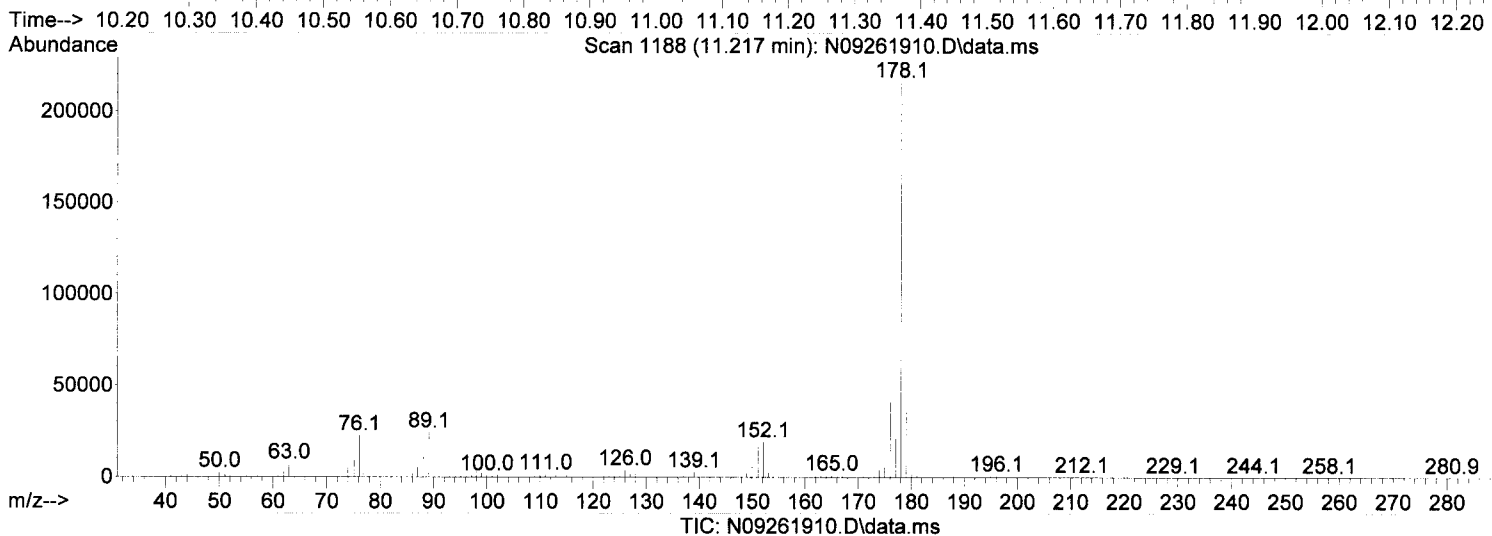
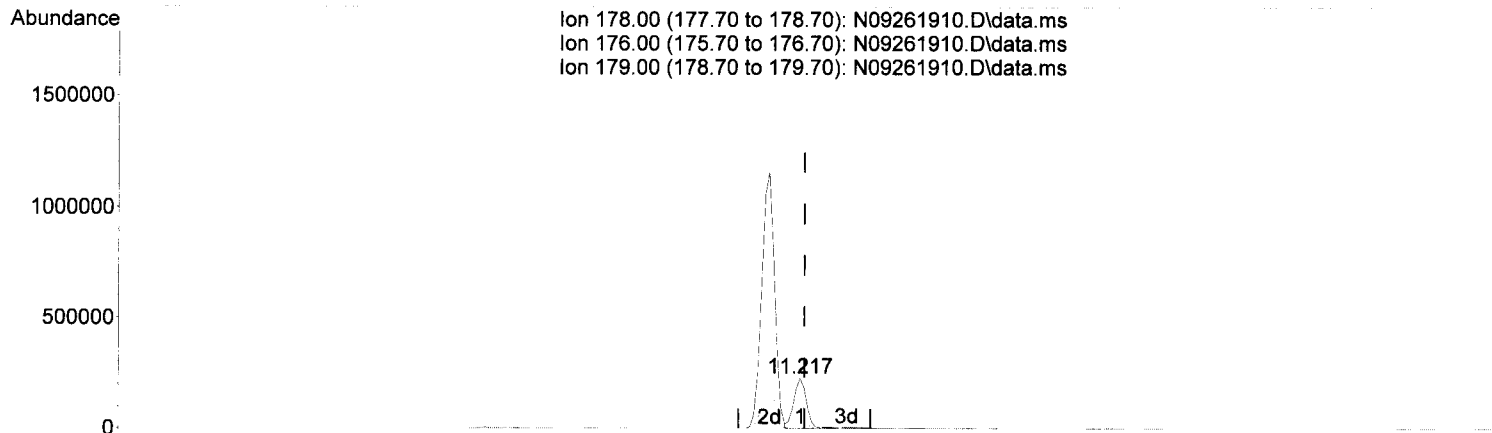
response 215743

Ion	Exp%	Act%
166.00	100.00	100.00
165.00	95.70	94.60
167.00	13.60	13.98
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261910.D
 Acq On : 26 Sep 2019 06:53 pm
 Operator :
 Sample : A9I0771-02@1000
 Misc : 1000x, 8270D LL PAH ONLY
 ALS Vial : 10 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 11:29:22 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(20) Anthracene (T)

11.217min (-0.006) 109.75 ng/ml

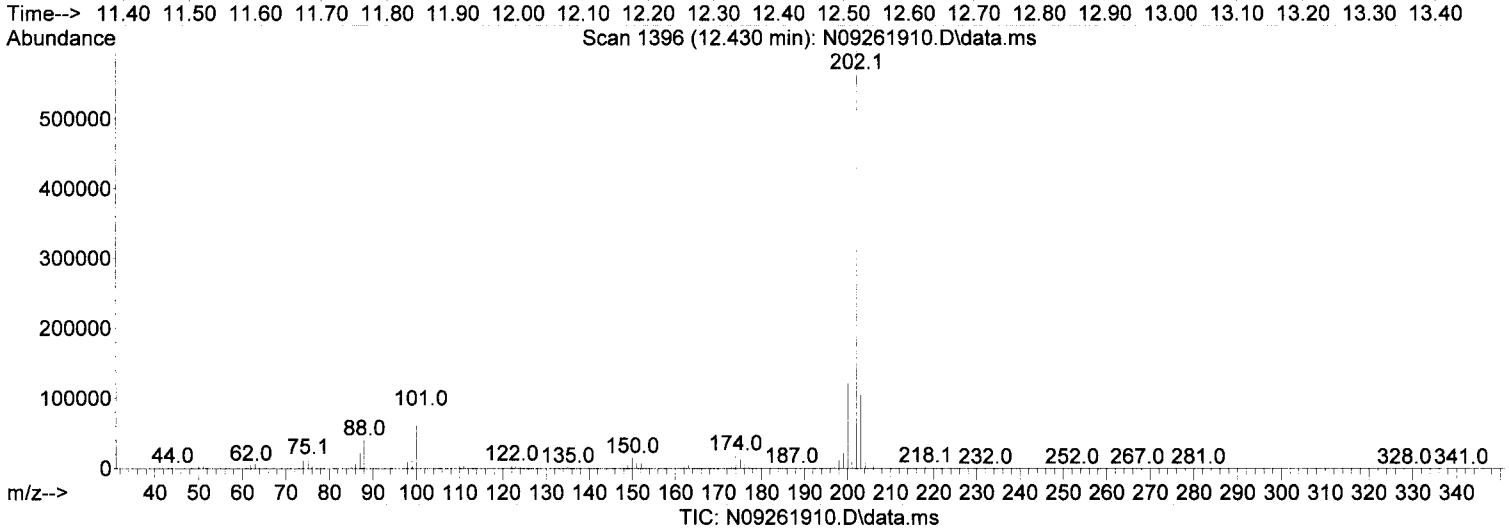
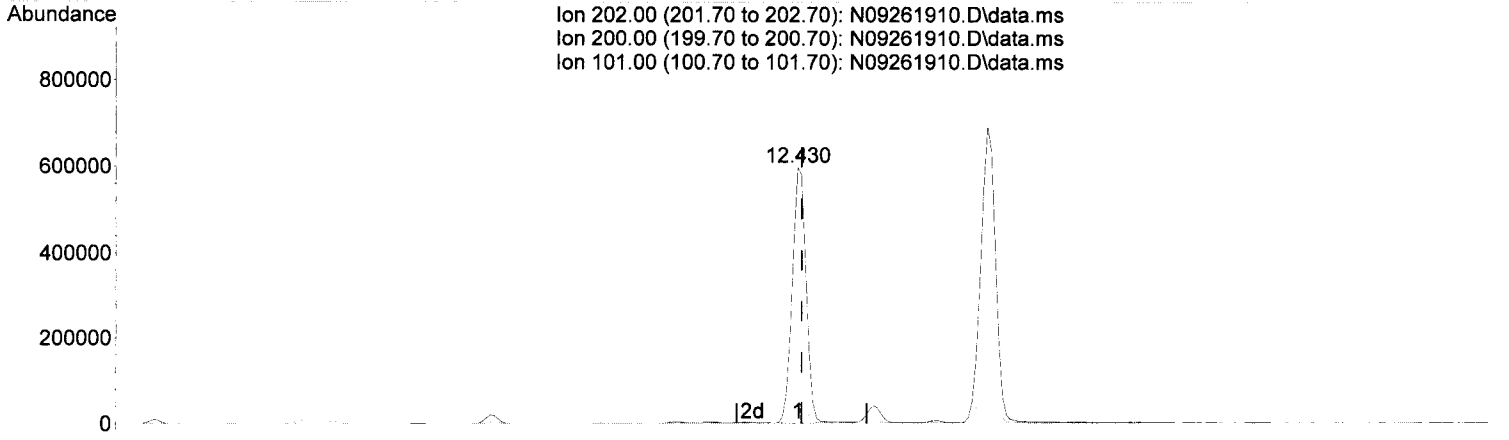
response 296677

Ion	Exp%	Act%
178.00	100.00	100.00
176.00	18.90	18.42
179.00	15.30	15.76
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261910.D
 Acq On : 26 Sep 2019 06:53 pm
 Operator :
 Sample : A9I0771-02@1000
 Misc : 1000x, 8270D LL PAH ONLY
 ALS Vial : 10 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 11:29:22 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(23) Fluoranthene (T)

12.430min (-0.005) 301.82 ng/ml

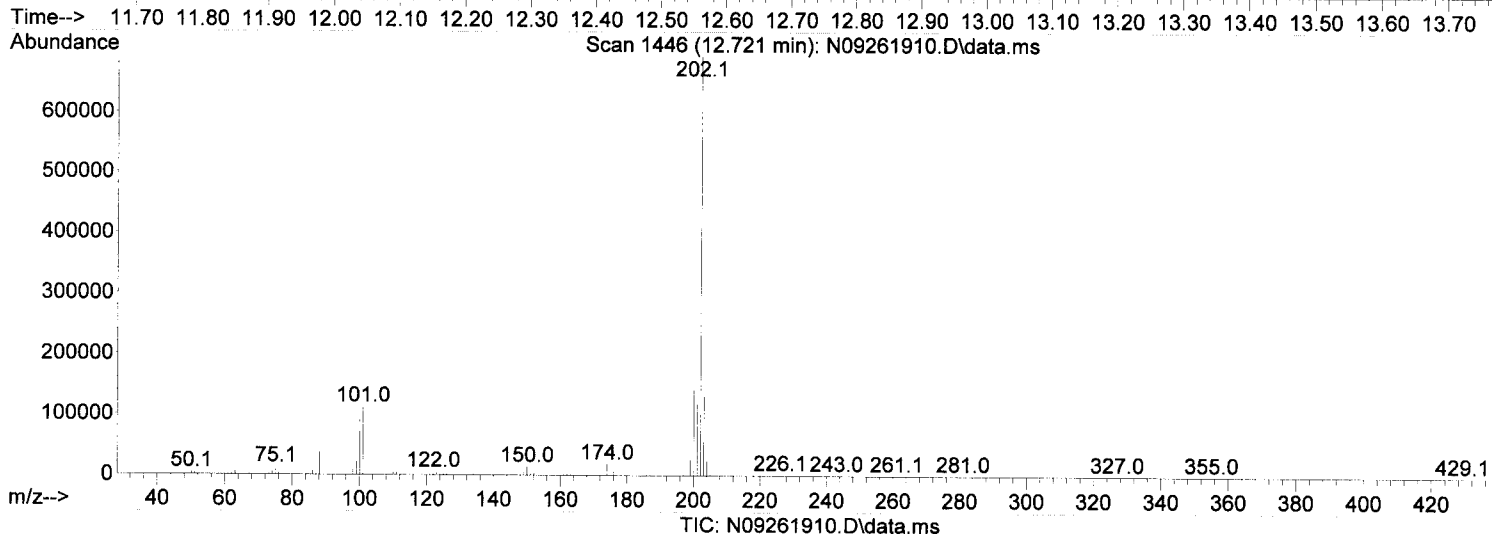
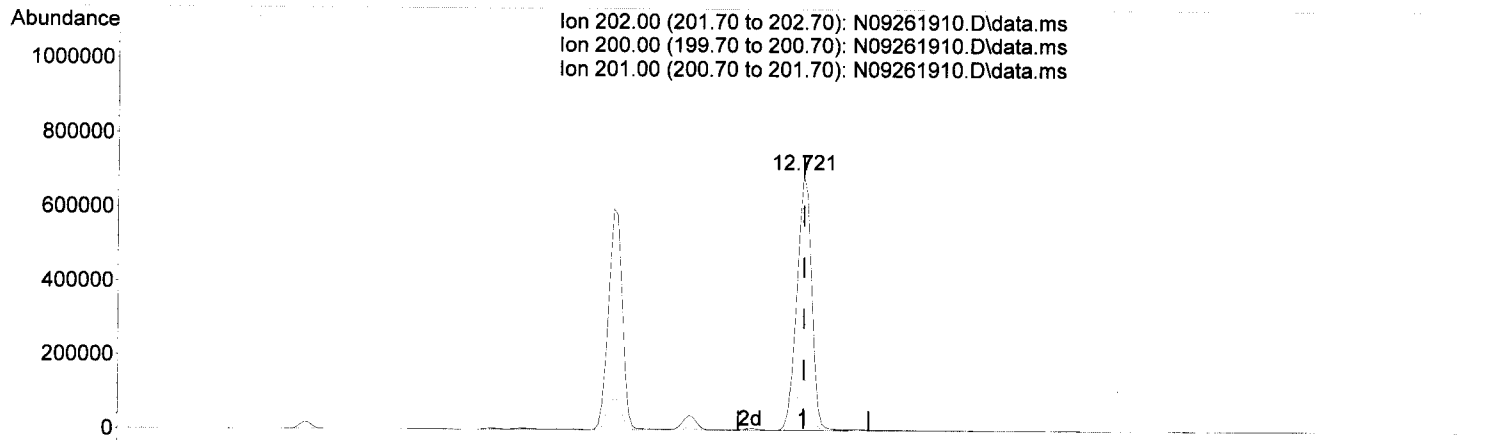
response 883752

Ion	Exp%	Act%
202.00	100.00	100.00
200.00	19.70	20.37
101.00	15.30	13.93
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261910.D
 Acq On : 26 Sep 2019 06:53 pm
 Operator :
 Sample : A9I0771-02@1000
 Misc : 1000x, 8270D LL PAH ONLY
 ALS Vial : 10 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 11:29:22 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(25) Pyrene (T)

12.721min (-0.000) 306.50 ng/ml

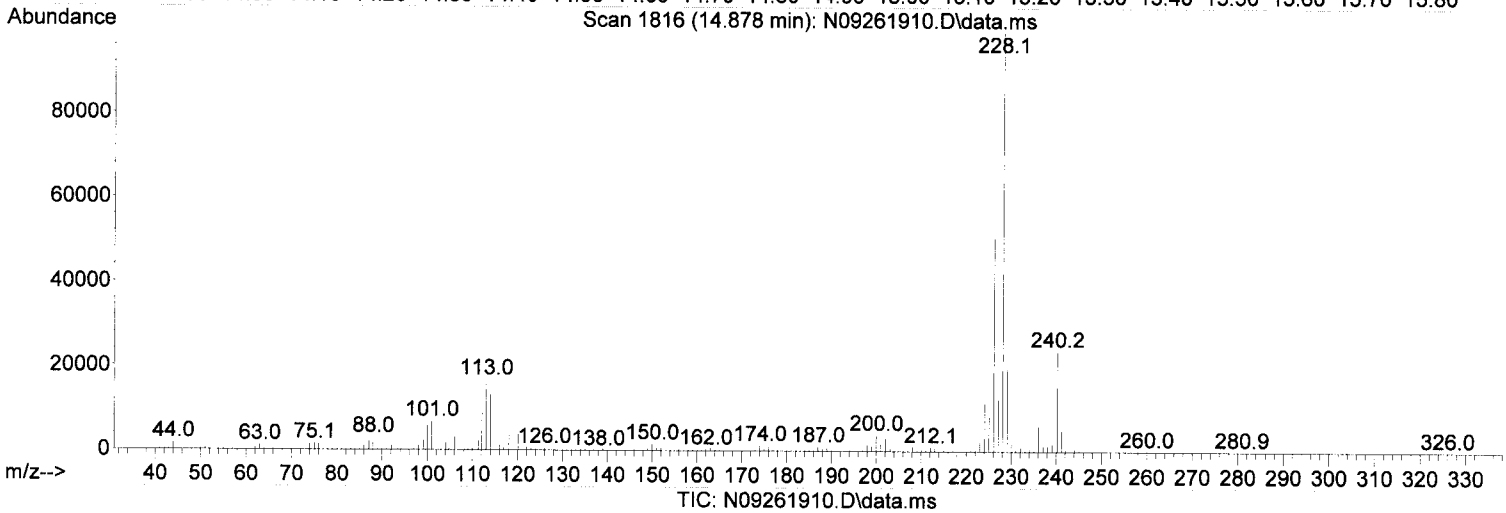
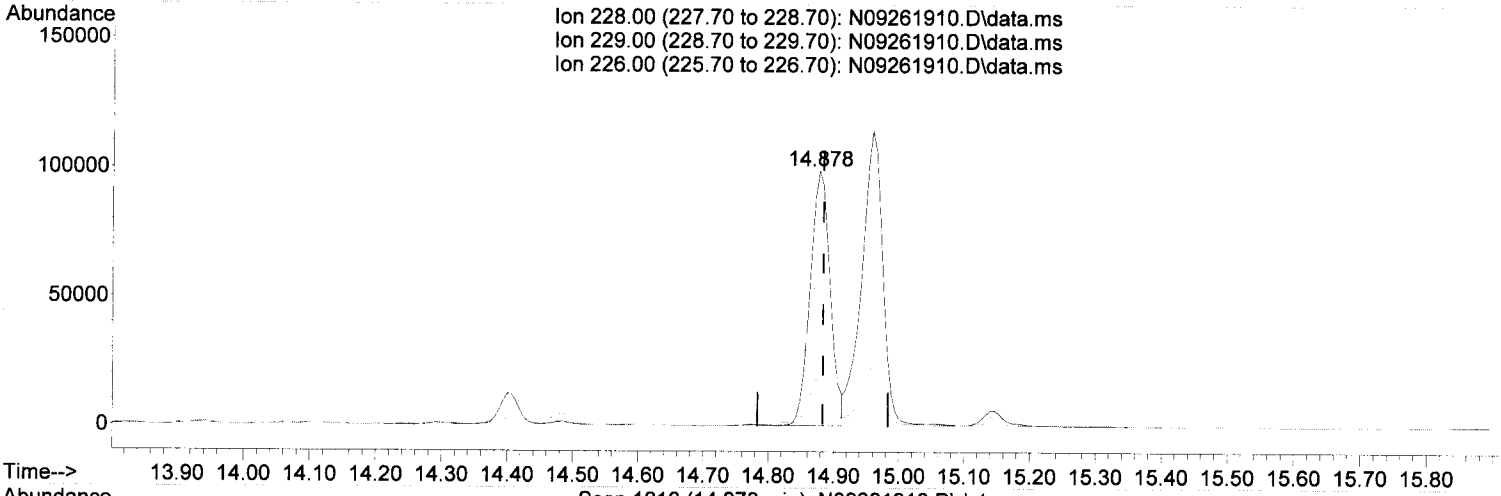
response 1093444

Ion	Exp%	Act%
202.00	100.00	100.00
200.00	20.70	20.63
201.00	16.80	17.08
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261910.D
 Acq On : 26 Sep 2019 06:53 pm
 Operator :
 Sample : A9I0771-02@1000
 Misc : 1000x, 8270D LL PAH ONLY
 ALS Vial : 10 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 11:29:22 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(27) Benz(a)anthracene (T)

14.878min (-0.005) 79.57 ng/ml

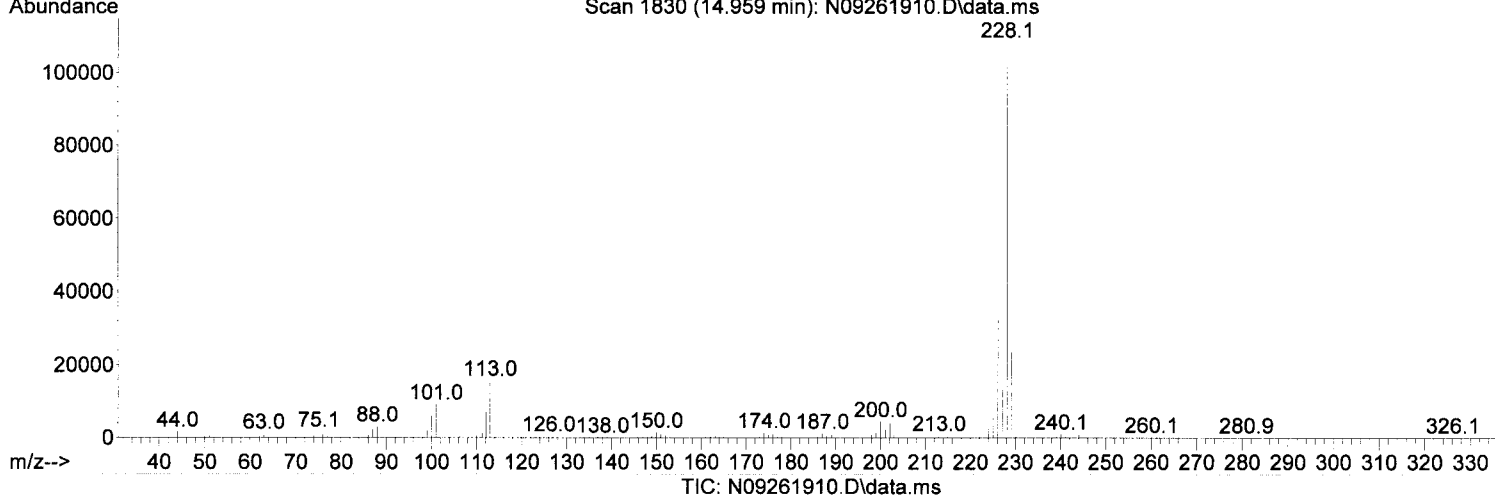
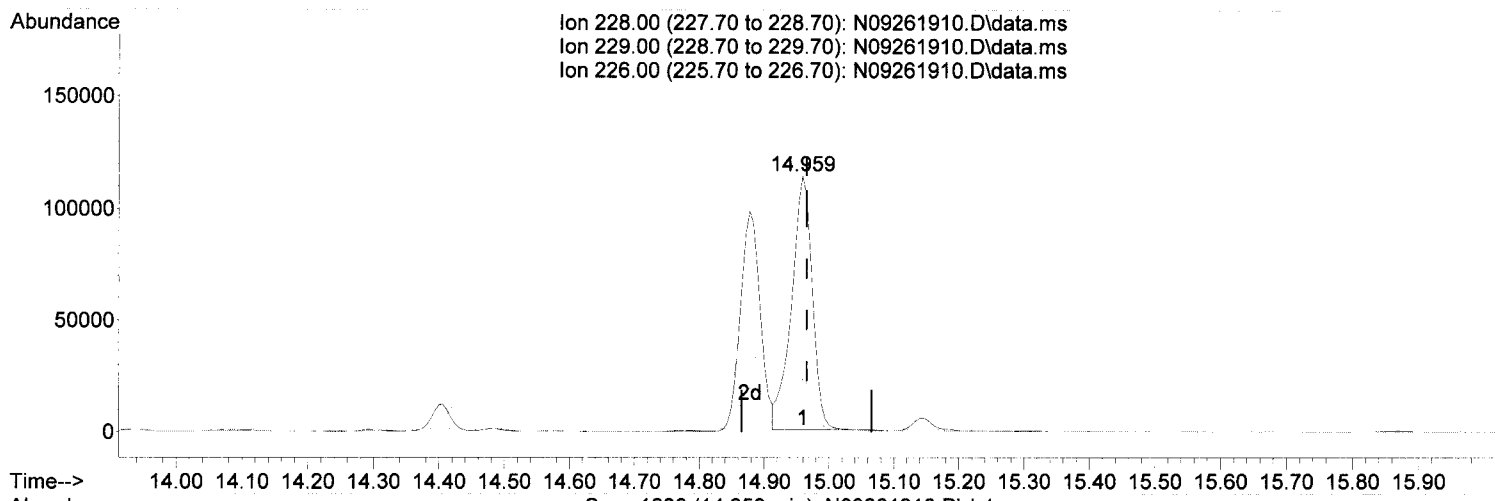
response 210951

Ion	Exp%	Act%
228.00	100.00	100.00
229.00	19.40	20.00
226.00	26.20	51.11
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261910.D
 Acq On : 26 Sep 2019 06:53 pm
 Operator :
 Sample : A9I0771-02@1000
 Misc : 1000x, 8270D LL PAH ONLY
 ALS Vial : 10 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 11:29:22 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(28) Chrysene (T)

14.959min (-0.006) 100.97 ng/ml

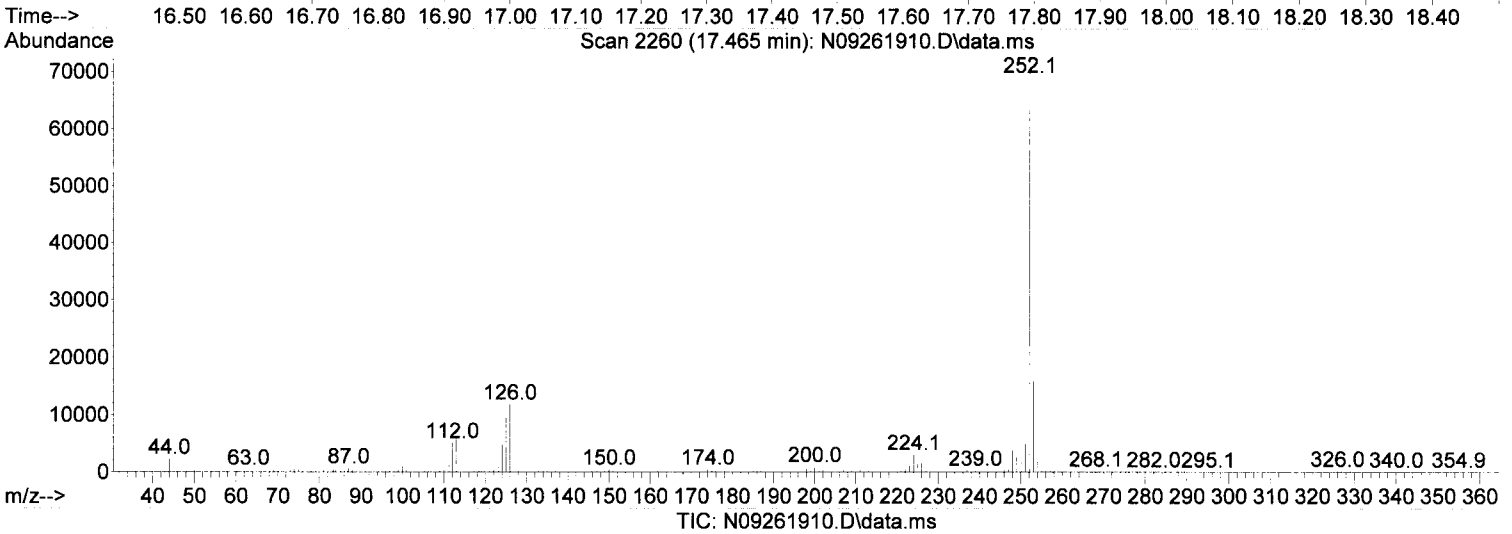
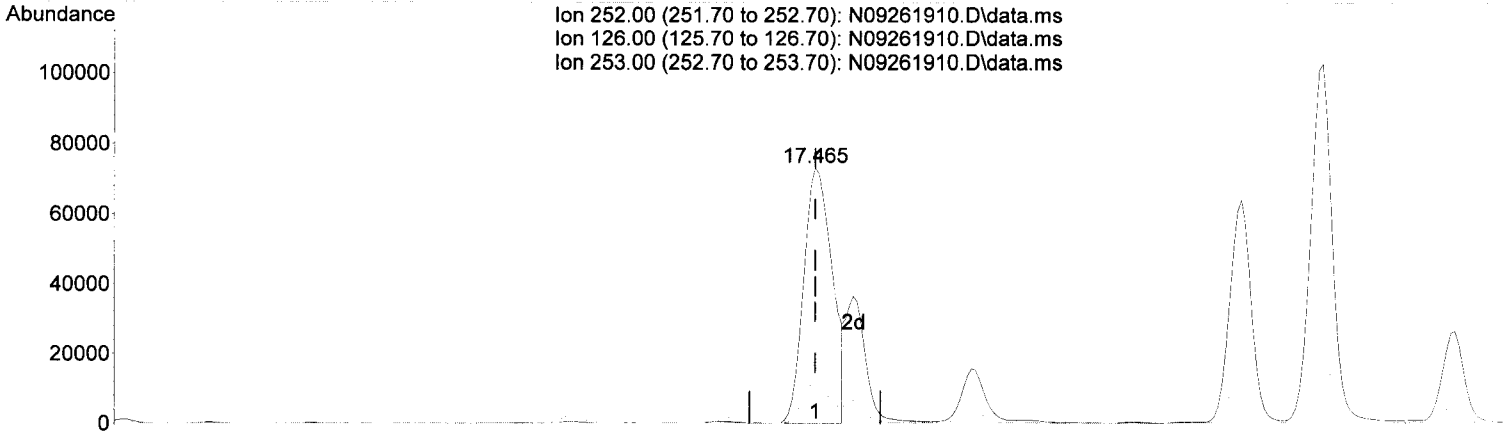
response 253321

Ion	Exp%	Act%
228.00	100.00	100.00
229.00	19.60	20.68
226.00	28.60	29.35
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261910.D
 Acq On : 26 Sep 2019 06:53 pm
 Operator :
 Sample : A9I0771-02@1000
 Misc : 1000x, 8270D LL PAH ONLY
 ALS Vial : 10 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 11:29:22 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(30) Benzo(b)fluoranthene (T)

17.465min (+ 0.000) 90.65 ng/ml

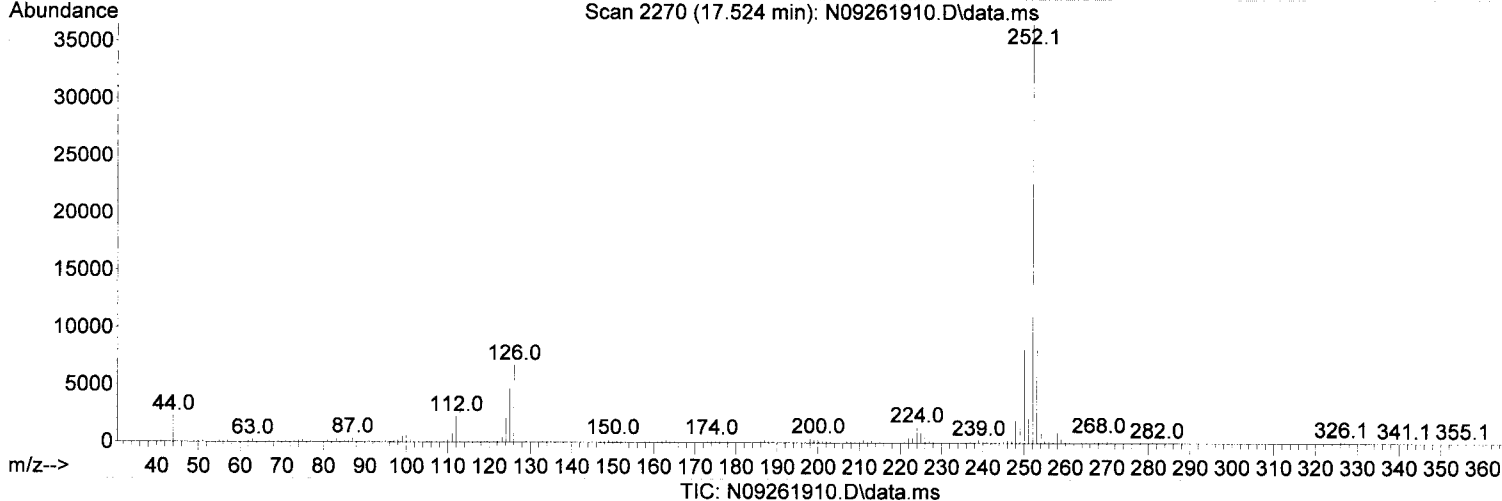
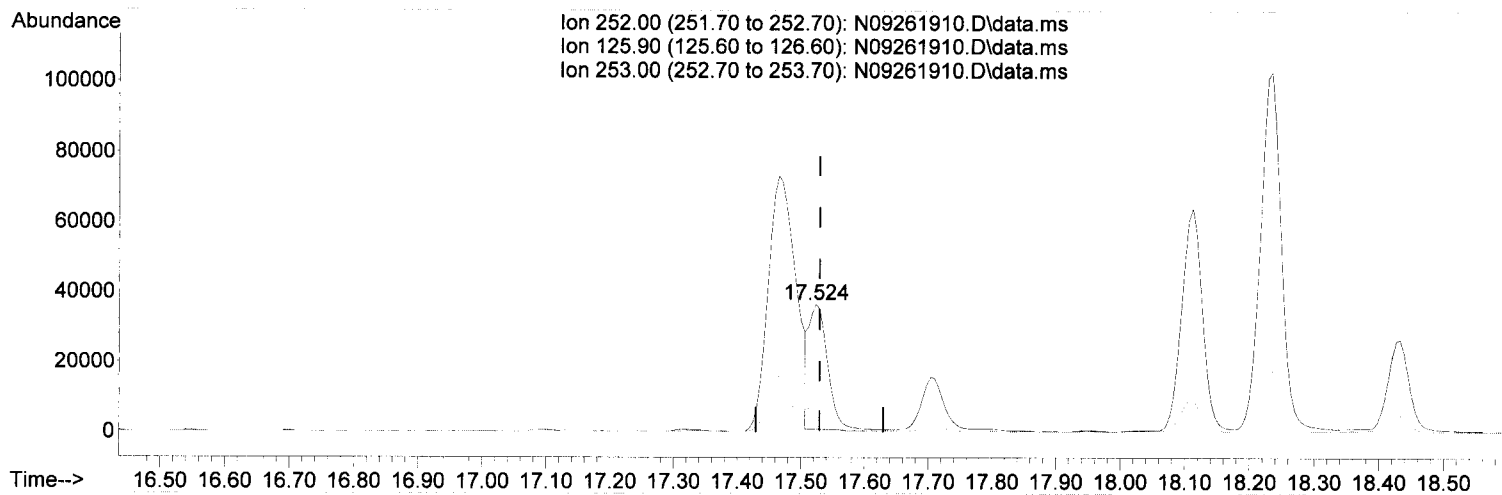
response 220325

Ion	Exp%	Act%
252.00	100.00	100.00
126.00	20.00	16.16
253.00	21.10	21.78
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261910.D
 Acq On : 26 Sep 2019 06:53 pm
 Operator :
 Sample : A9I0771-02@1000
 Misc : 1000x, 8270D LL PAH ONLY
 ALS Vial : 10 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 11:29:22 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(31) Benzo(k)fluoranthene (T)

17.524min (-0.005) 30.87 ng/ml (m)

response 73881

Ion	Exp%	Act%
252.00	100.00	100.00
125.90	22.10	18.53
253.00	21.50	22.38
0.00	0.00	0.00

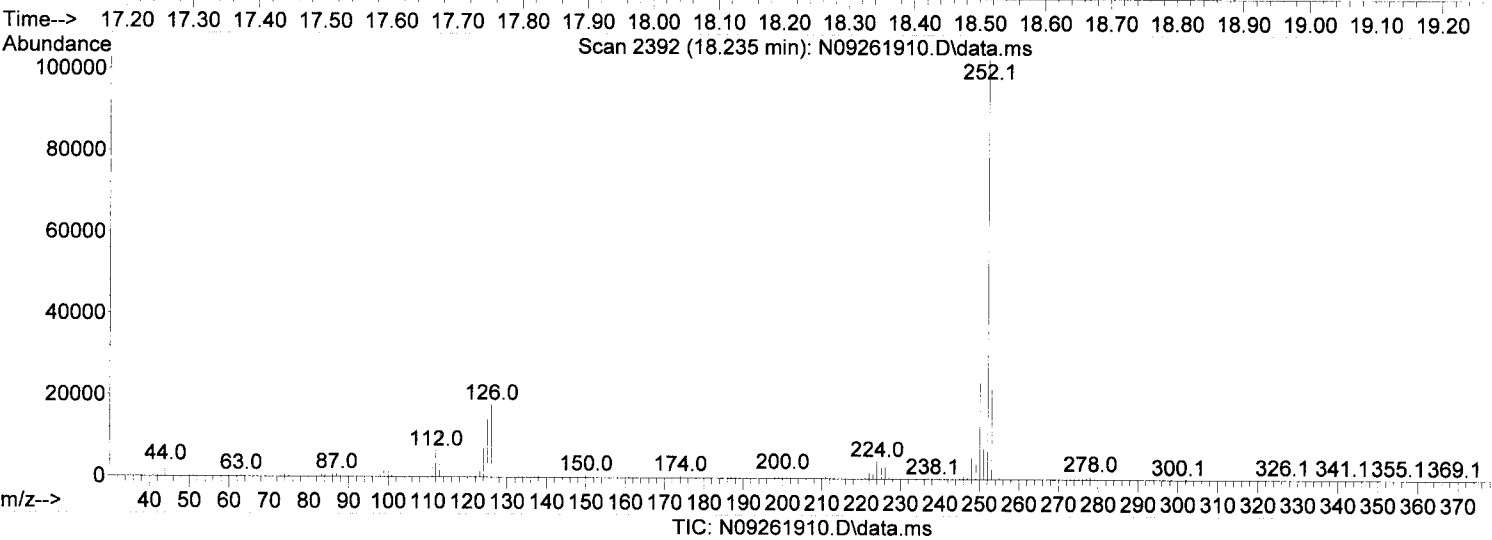
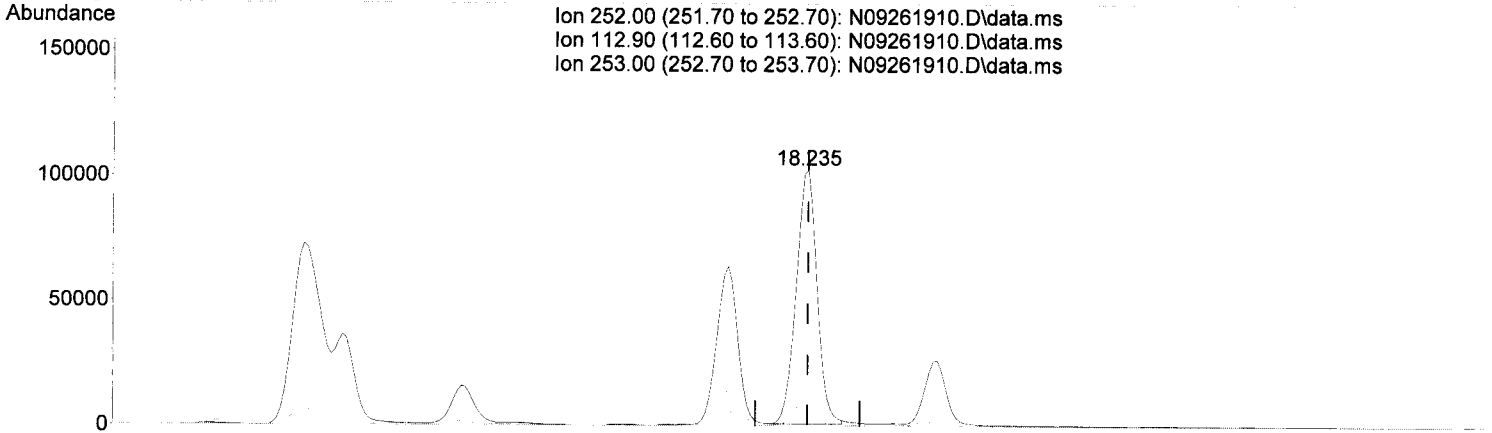
MF - Hall 9/27/19

M-05

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261910.D
 Acq On : 26 Sep 2019 06:53 pm
 Operator :
 Sample : A9I0771-02@1000
 Misc : 1000x, 8270D LL PAH ONLY
 ALS Vial : 10 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 11:29:22 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(35) Benzo(a)pyrene (T)

18.235min (+ 0.001) 107.87 ng/ml

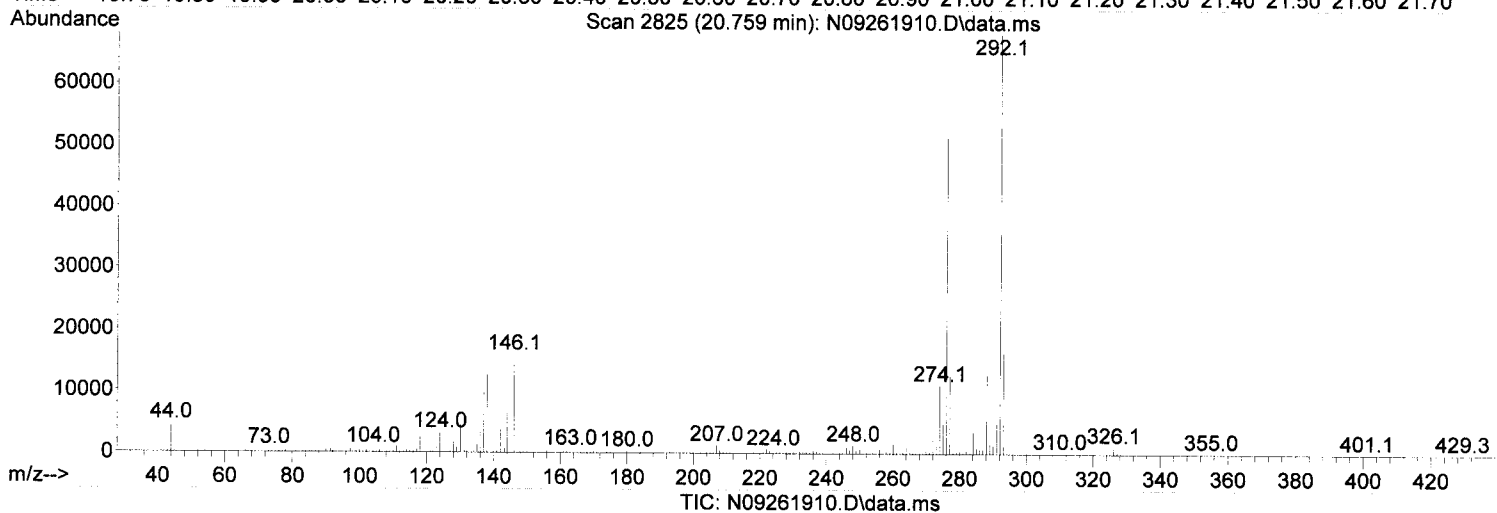
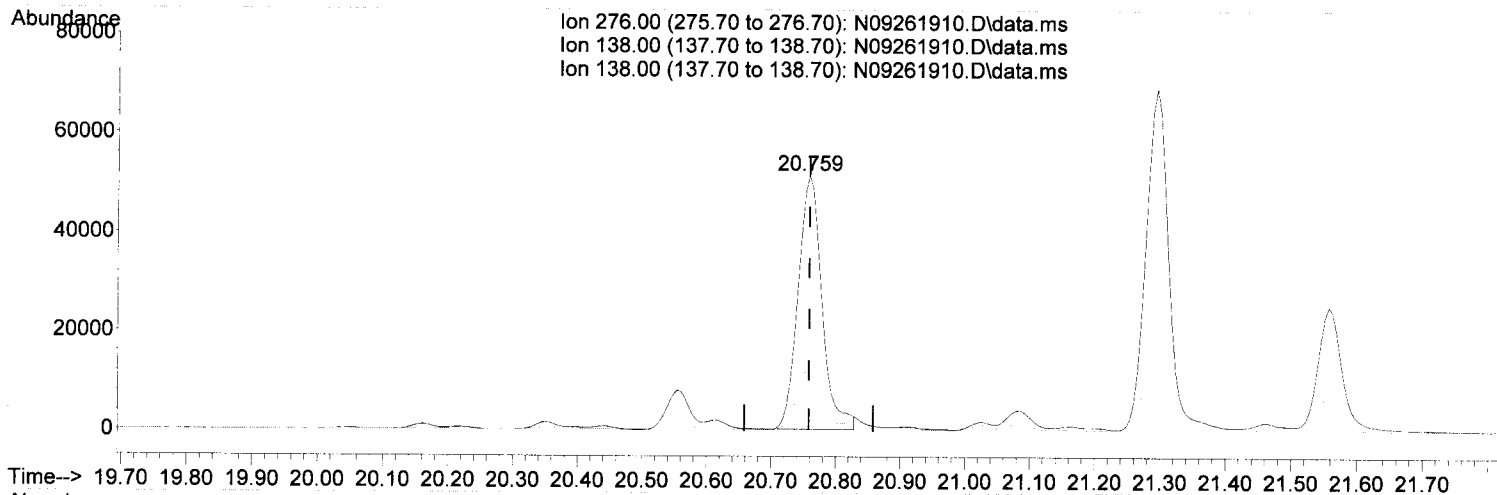
response 224401

Ion	Exp%	Act%
252.00	100.00	100.00
112.90	12.70	10.56
253.00	21.90	21.88
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261910.D
 Acq On : 26 Sep 2019 06:53 pm
 Operator :
 Sample : A9I0771-02@1000
 Misc : 1000x, 8270D LL PAH ONLY
 ALS Vial : 10 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 11:29:22 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(38) Indeno(1,2,3-cd)Pyrene (T)

20.759min (+ 0.001) 65.27 ng/ml

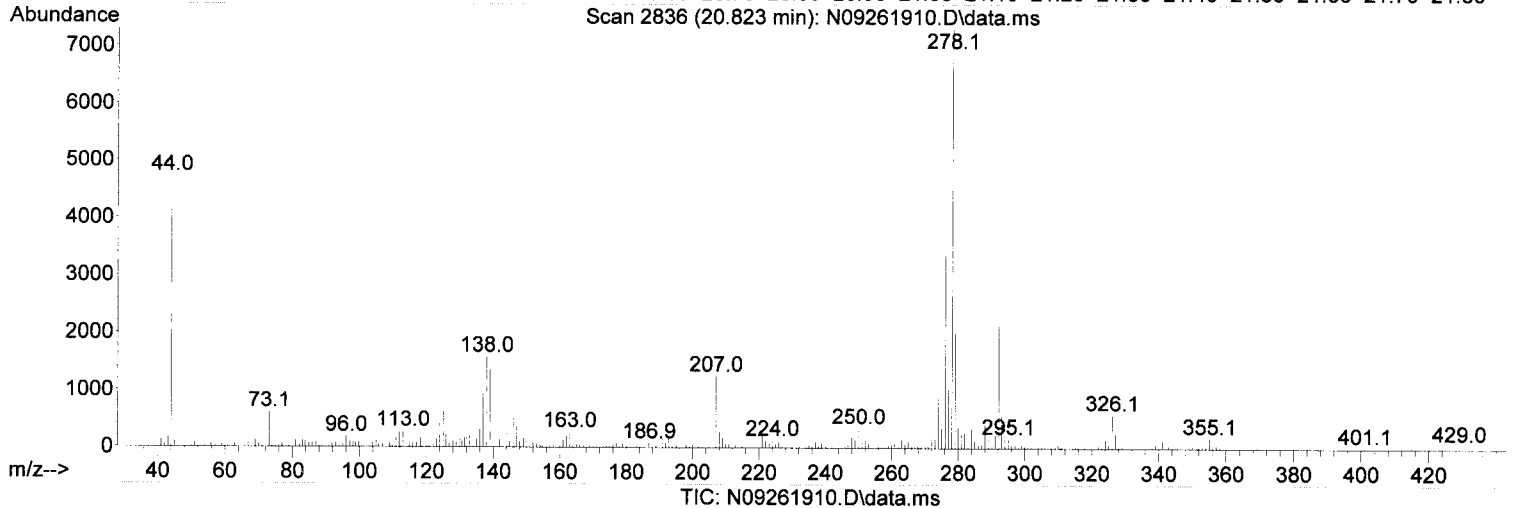
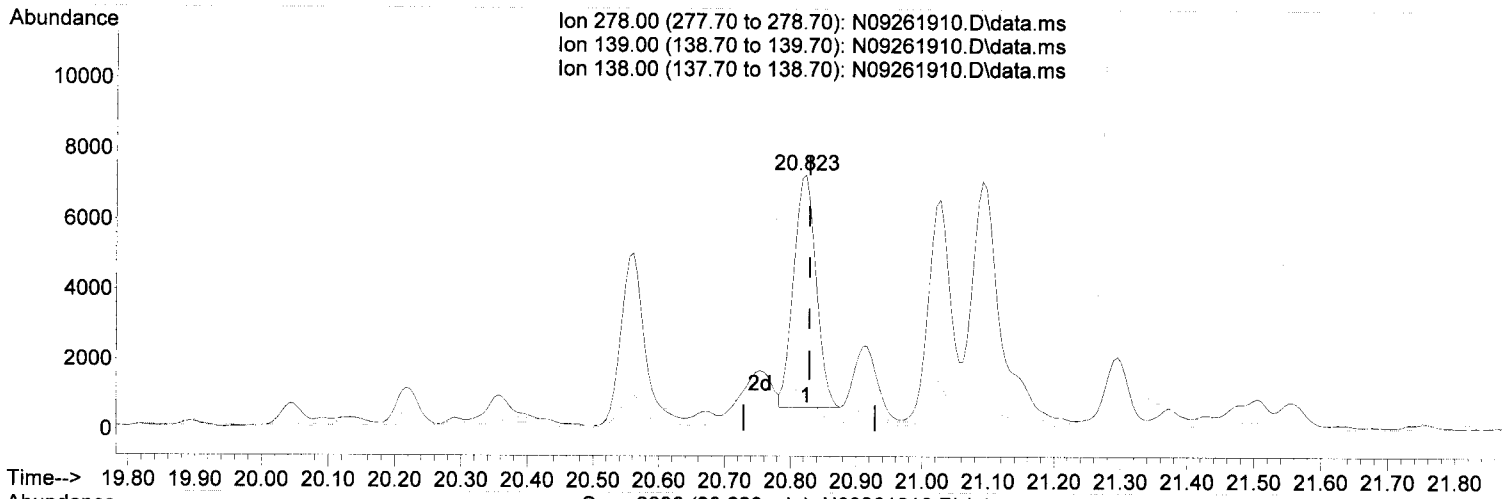
response 132281

Ion	Exp%	Act%
276.00	100.00	100.00
138.00	31.60	24.42
138.00	31.60	24.42
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261910.D
 Acq On : 26 Sep 2019 06:53 pm
 Operator :
 Sample : A9I0771-02@1000
 Misc : 1000x, 8270D LL PAH ONLY
 ALS Vial : 10 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 11:29:22 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(39) Dibenz(a,h)anthracene (T)

20.823min (-0.005) 8.26 ng/ml

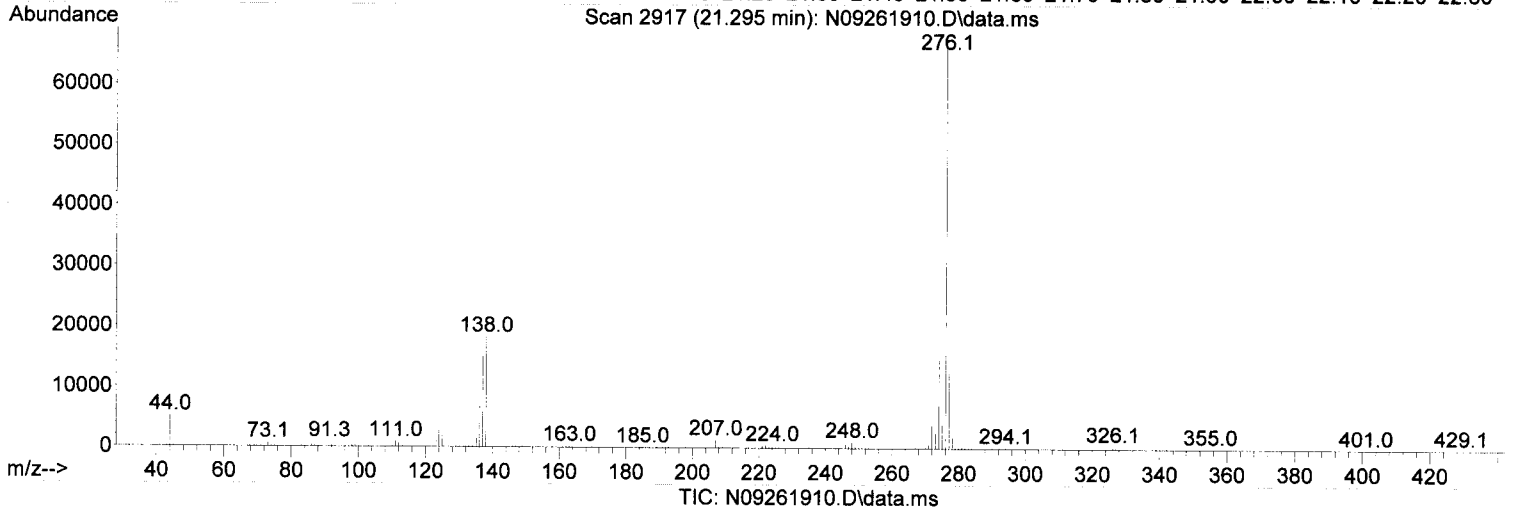
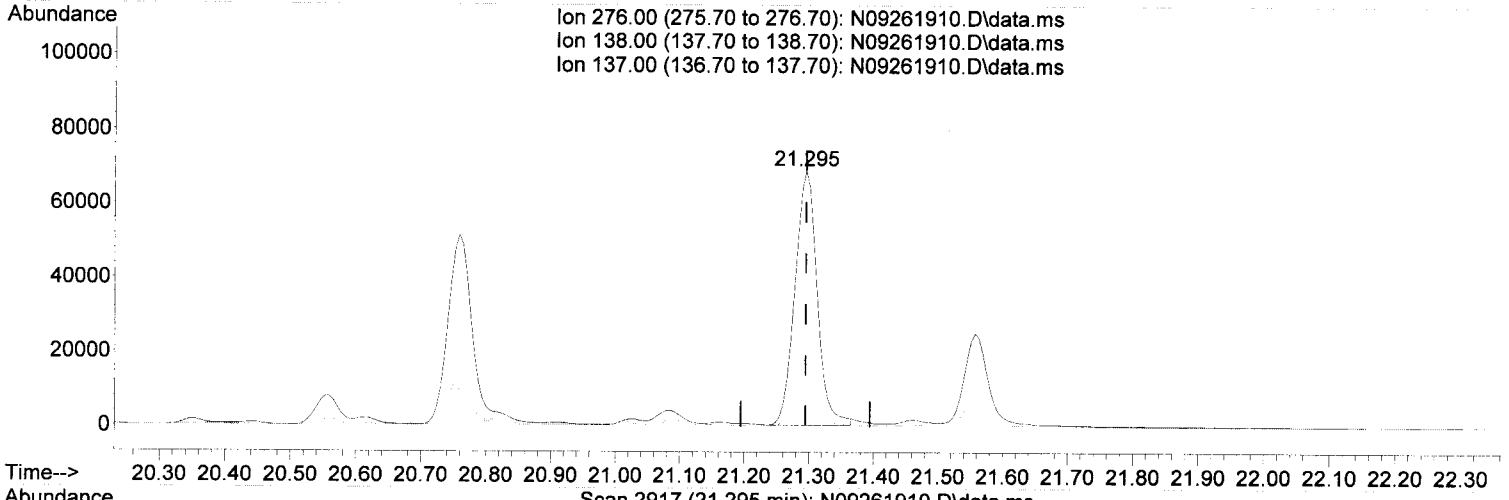
response 15740

Ion	Exp%	Act%
278.00	100.00	100.00
139.00	26.00	18.62
138.00	19.90	21.72
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261910.D
 Acq On : 26 Sep 2019 06:53 pm
 Operator :
 Sample : A9I0771-02@1000
 Misc : 1000x, 8270D LL PAH ONLY
 ALS Vial : 10 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 11:29:22 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(40) Benzo(g,h,i)perylene (T)

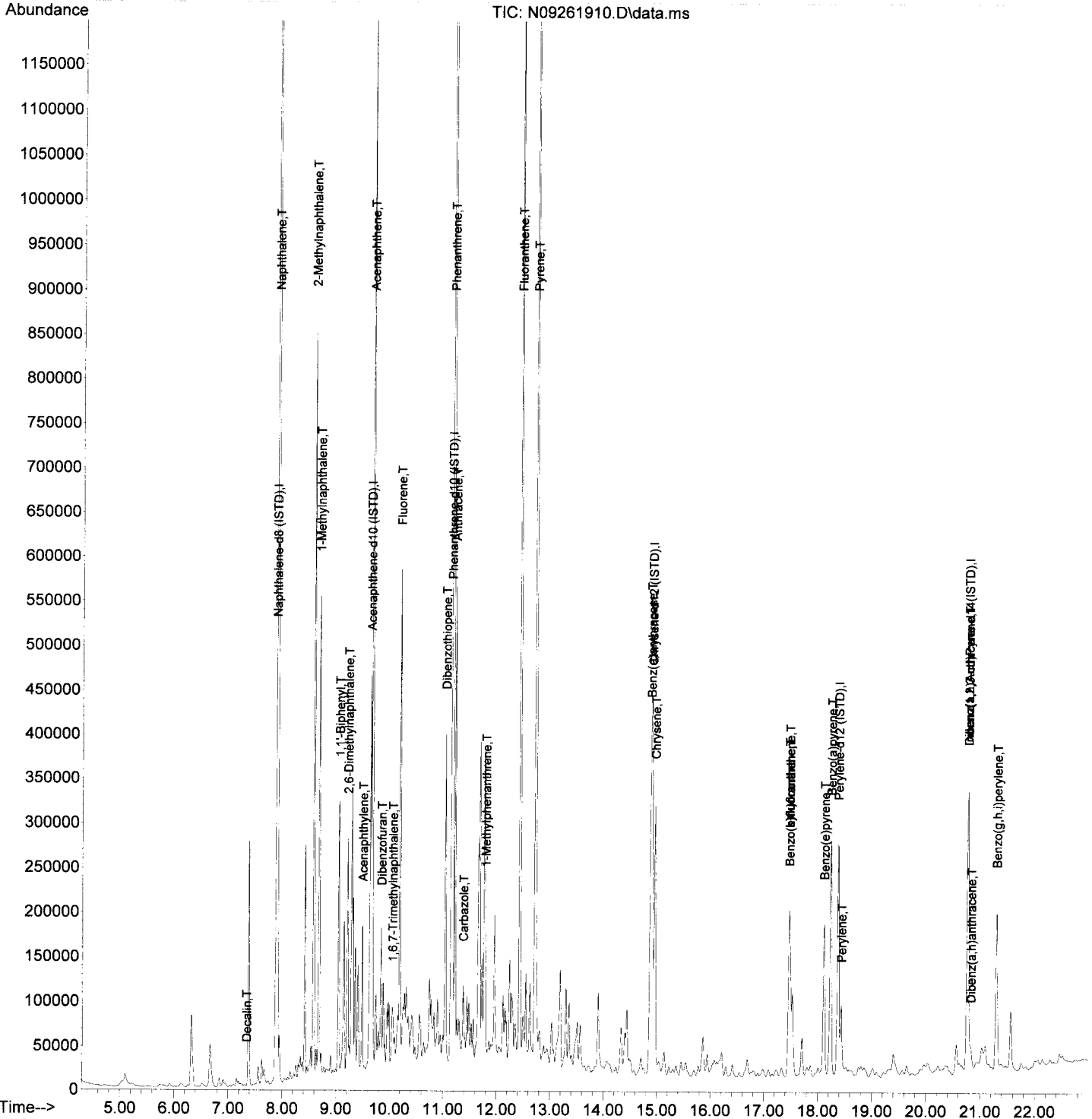
21.295min (+ 0.001) 76.57 ng/ml

response 164633

Ion	Exp%	Act%
276.00	100.00	100.00
138.00	34.40	26.44
137.00	28.60	21.80
0.00	0.00	0.00

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261910.D
 Acq On : 26 Sep 2019 06:53 pm
 Operator :
 Sample : A9I0771-02@1000
 Misc : 1000x, 8270D LL PAH ONLY
 ALS Vial : 10 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 11:29:22 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



Data Path : U:\data\2019-09\9I26035\
 Data File : N09261911.D
 Acq On : 26 Sep 2019 07:25 pm
 Operator :
 Sample : A9I0771-03@1000
 Misc : 1000x, 8270D LL PAH ONLY
 ALS Vial : 11 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

JML 9/27/19

Quant Time: Sep 27 11:29:25 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

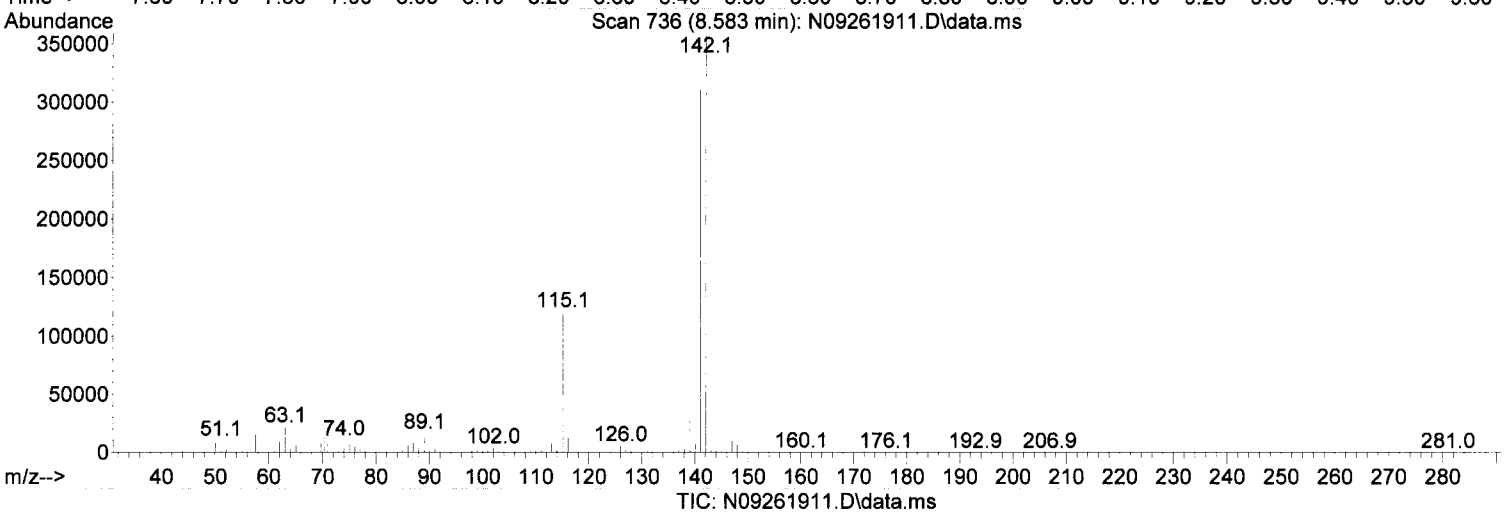
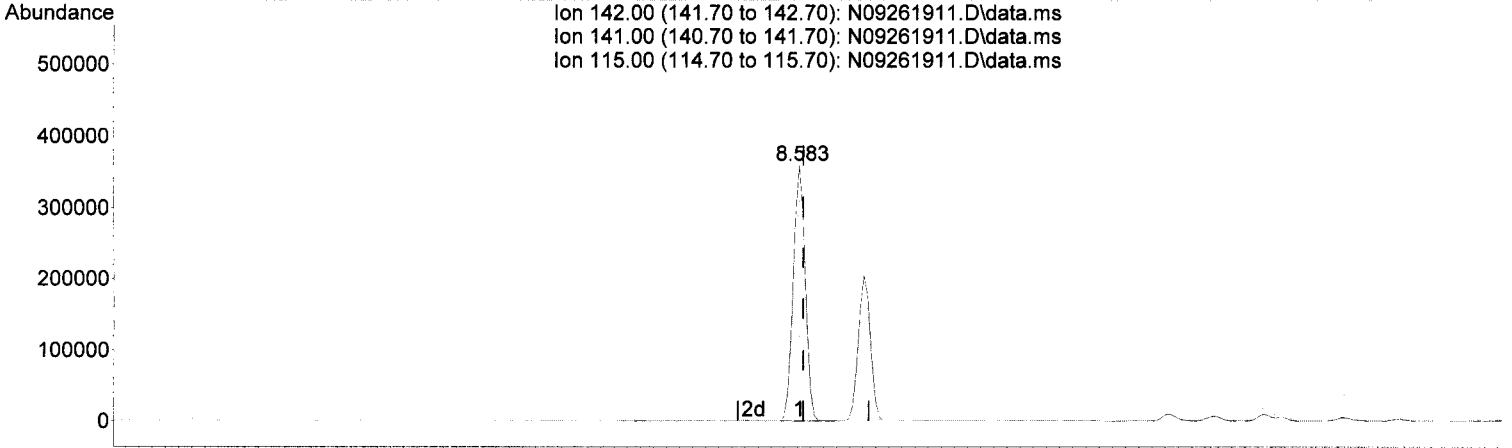
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Naphthalene-d8 (ISTD)	7.877	136	163387	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.632	162	134046	100.00	ng/ml	0.00	
17) Phenanthrene-d10 (ISTD)	11.141	188	259539	100.00	ng/ml	0.00	
24) Chrysene-d12 (ISTD)	14.901	240	229149	100.00	ng/ml	0.00	
29) Perylene-d12 (ISTD)	18.369	264	208651	100.00	ng/ml	0.00	
37) Dibenz(a,h)Anthracene-d...	20.759	292	159097	100.00	ng/ml	0.00	
System Monitoring Compounds							
2) Nitrobenzene-d5 (Surr)	7.172	82	223	0.41	ng/ml	-0.01	
10) 2-Fluorobiphenyl (Surr)	8.944	172	550	0.28	ng/ml	0.00	
11) Acenaphthylene d-8 (Surr)	9.474	160	2593	-1.00	ng/ml	0.00	
26) Terphenyl-d14 (Surr)	12.925	244	505	0.21	ng/ml	0.00	
33) Benzo(a)pyrene d-12 (S...	18.153	264	82	0.05	ng/ml	-0.02	
Target Compounds							
							Qvalue
3) Decalin	7.341	138	55	0.45	ng/ml		42
4) Naphthalene	7.901	128	1863175	1033.93	ng/ml		99 - RA2
5) 2-Methylnaphthalene	8.583	142	463067	303.24	ng/ml		99
6) 1-Methylnaphthalene	8.682	142	266327	174.44	ng/ml		98
7) 1,1'-Biphenyl	9.049	154	199055	96.92	ng/ml		98
8) 2,6-Dimethylnaphthalene	9.212	156	121961	81.31	ng/ml		98
12) Acenaphthylene	9.492	152	60986	20.96	ng/ml		93
13) Acenaphthene	9.667	153	530433	278.29	ng/ml		99
14) Dibenzofuran	9.842	168	51276	21.48	ng/ml		95
15) 1,6,7-Trimethylnaphtha...	10.051	170	37636	23.54	ng/ml		92
16) Fluorene	10.191	166	267841	137.32	ng/ml		99
18) Dibenzothiopene	11.036	184	238754	87.96	ng/ml		98
19) Phenanthrene	11.171	178	1771407	583.27	ng/ml		99 → RA2
20) Anthracene	11.217	178	345311	122.24	ng/ml		99
21) Carbazole	11.375	167	48728	21.32	ng/ml		98
22) 1-Methylphenanthrene	11.788	192	60466	28.66	ng/ml		96
23) Fluoranthene	12.435	202	914000	298.70	ng/ml		97
25) Pyrene	12.721	202	1120915	313.10	ng/ml		100
27) Benz(a)anthracene	14.878	228	210670	79.19	ng/ml		67
28) Chrysene	14.959	228	257129	102.13	ng/ml		98
30) Benzo(b)fluoranthene	17.465	252	217856	90.49	ng/ml		94
31) Benzo(k)fluoranthene	17.465	252	276344	116.58	ng/ml		92 MC - MOS
32) Benzo(b+k)fluoranthene	17.465	252	295188	119.87	ng/ml		92
34) Benzo(e)pyrene	18.112	252	140709	57.80	ng/ml		98
35) Benzo(a)pyrene	18.235	252	222989	108.21	ng/ml		97
36) Perylene	18.433	252	60163	23.70	ng/ml		100
38) Indeno(1,2,3-cd)Pyrene	20.759	276	127757	65.11	ng/ml		88
39) Dibenz(a,h)anthracene	20.823	278	14809	8.03	ng/ml		91
40) Benzo(g,h,i)perylene	21.295	276	159680	76.71	ng/ml		87

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261911.D
 Acq On : 26 Sep 2019 07:25 pm
 Operator :
 Sample : A9I0771-03@1000
 Misc : 1000x, 8270D LL PAH ONLY
 ALS Vial : 11 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 11:29:25 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(5) 2-Methylnaphthalene (T)

8.583min (-0.006) 303.24 ng/ml

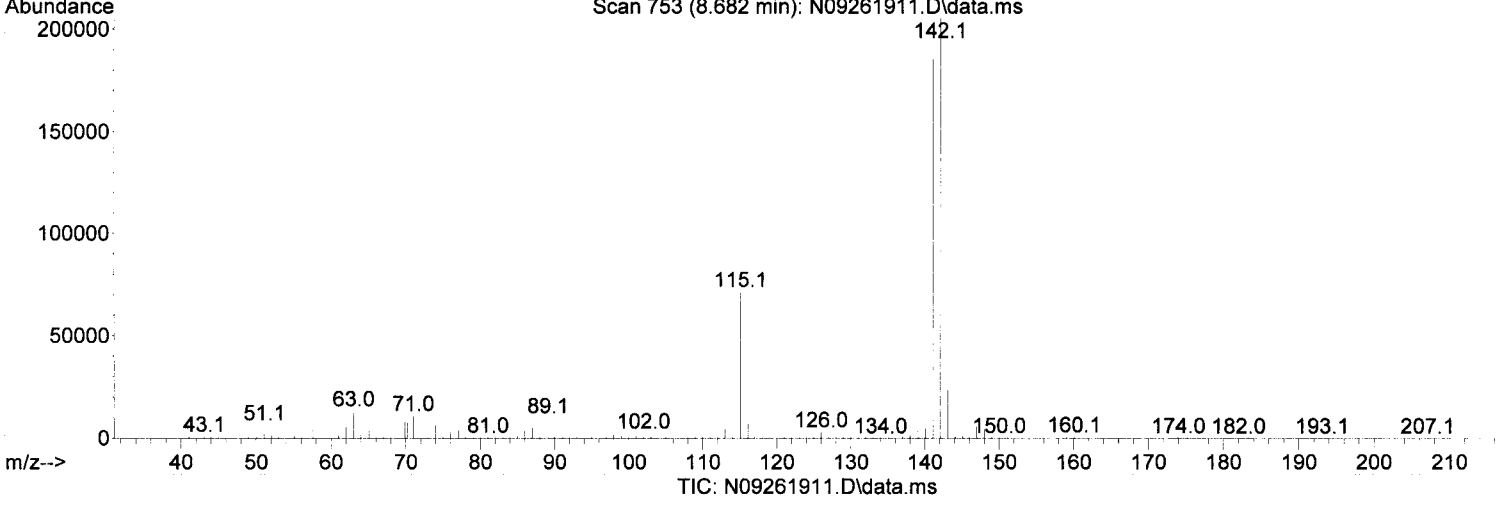
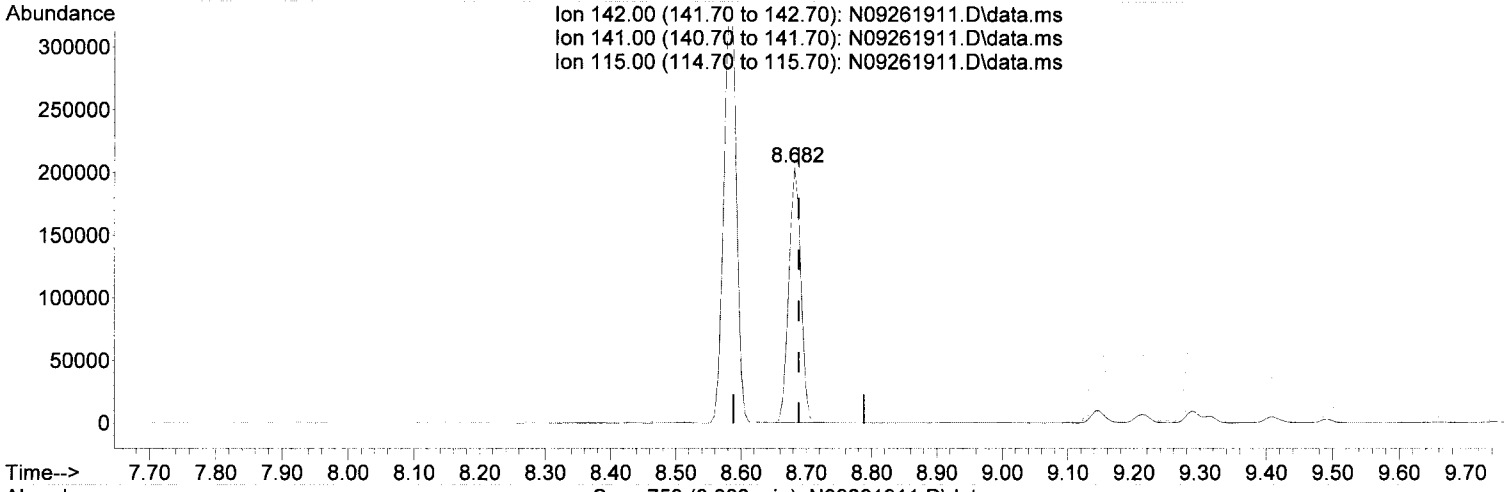
response 463067

Ion	Exp%	Act%
142.00	100.00	100.00
141.00	86.60	86.62
115.00	35.70	33.67
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261911.D
 Acq On : 26 Sep 2019 07:25 pm
 Operator :
 Sample : A9I0771-03@1000
 Misc : 1000x, 8270D LL PAH ONLY
 ALS Vial : 11 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 11:29:25 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(6) 1-Methylnaphthalene (T)

8.682min (-0.006) 174.44 ng/ml

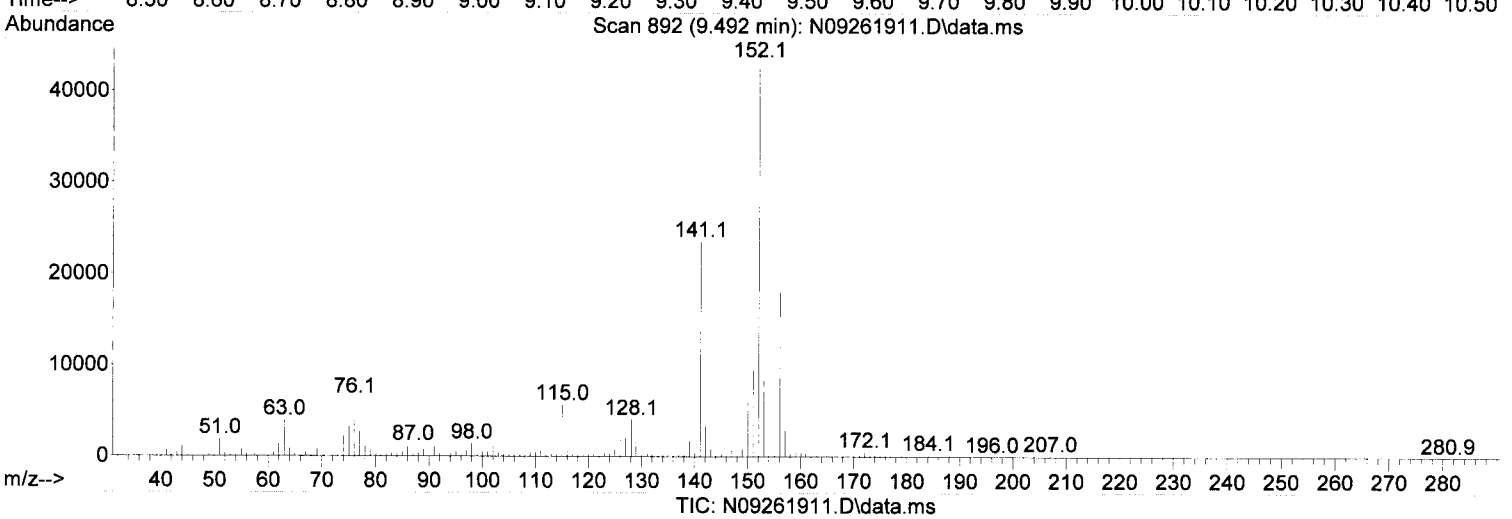
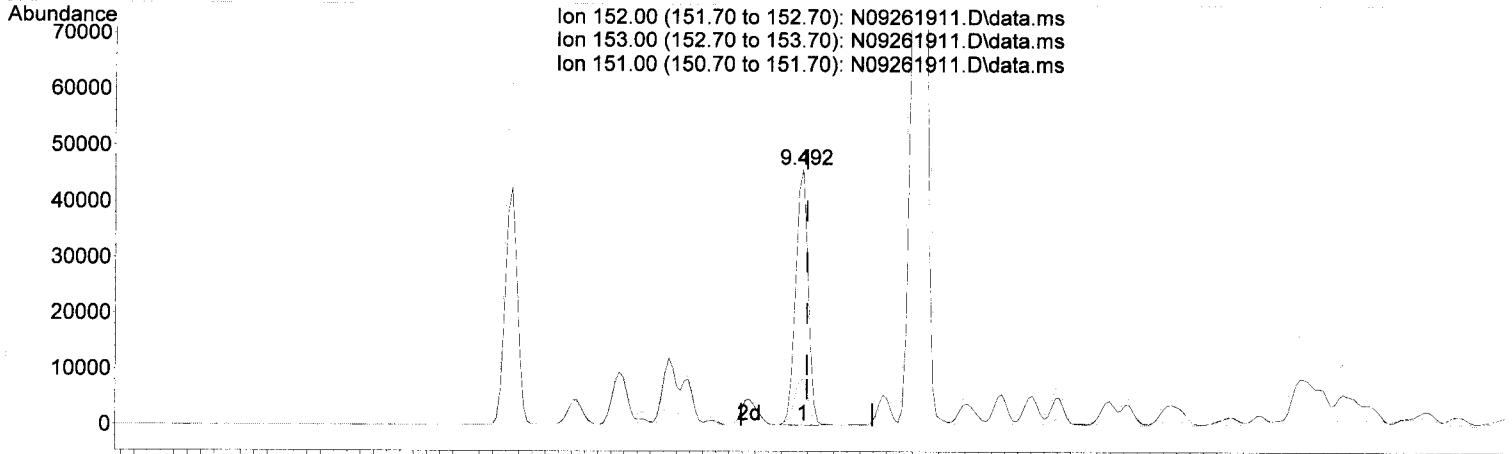
response 266327

Ion	Exp%	Act%
142.00	100.00	100.00
141.00	90.70	90.48
115.00	37.80	34.94
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261911.D
 Acq On : 26 Sep 2019 07:25 pm
 Operator :
 Sample : A9I0771-03@1000
 Misc : 1000x, 8270D LL PAH ONLY
 ALS Vial : 11 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 11:29:25 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(12) Acenaphthylene (T)

9.492min (-0.006) 20.96 ng/ml

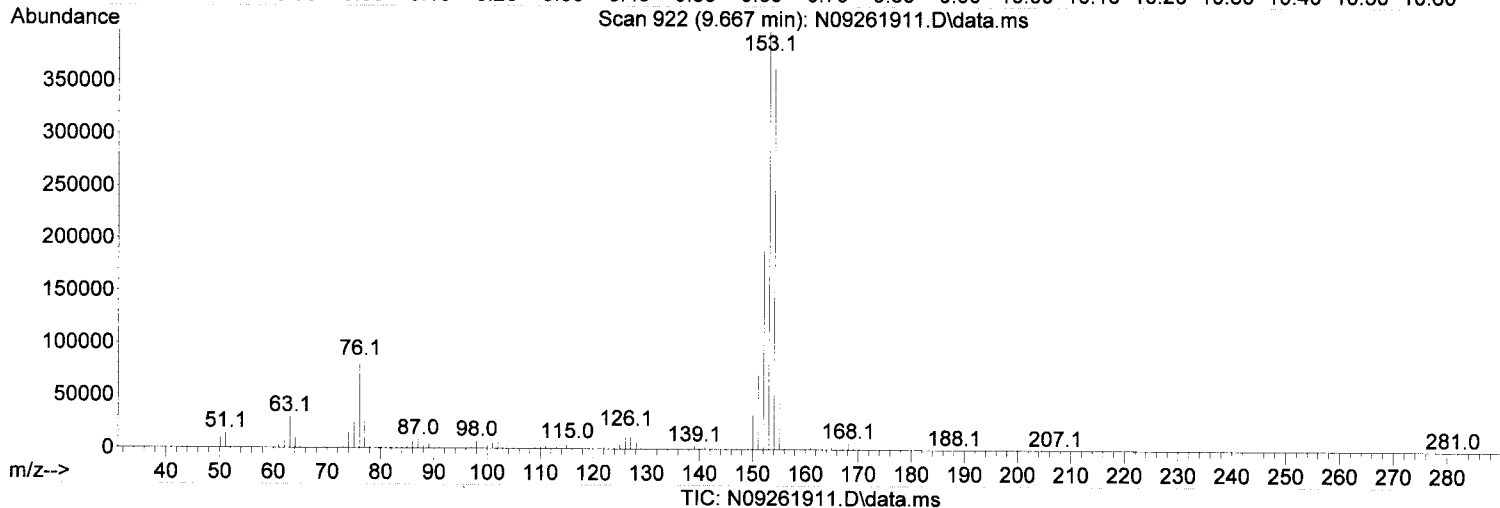
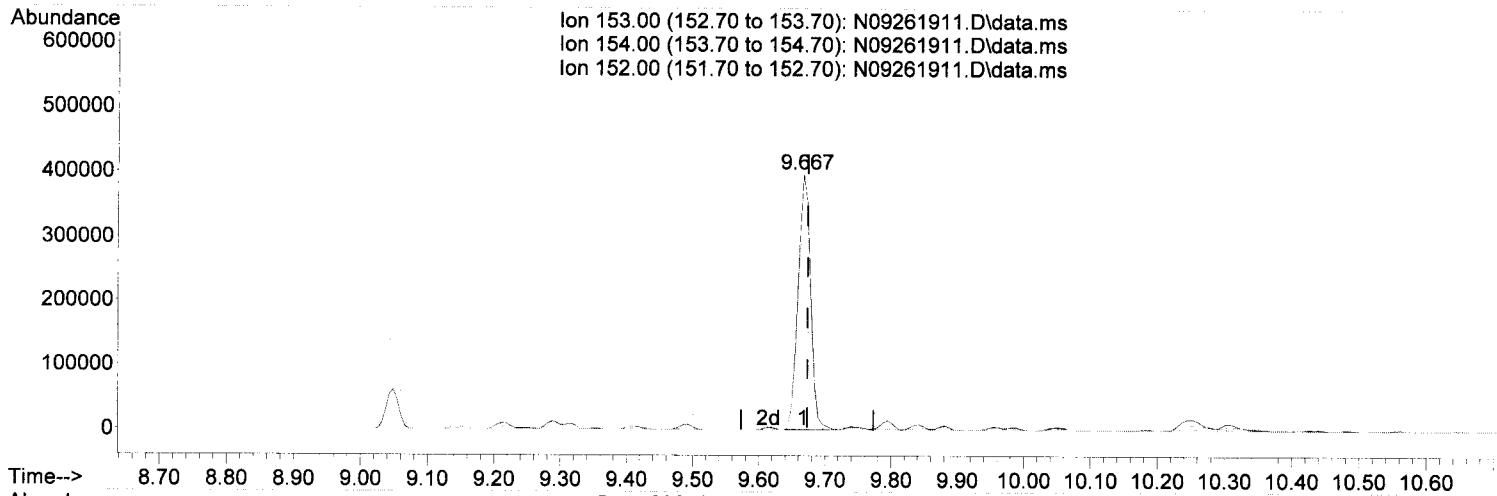
response 60986

Ion	Exp%	Act%
152.00	100.00	100.00
153.00	12.70	18.39
151.00	19.30	20.64
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261911.D
 Acq On : 26 Sep 2019 07:25 pm
 Operator :
 Sample : A9I0771-03@1000
 Misc : 1000x, 8270D LL PAH ONLY
 ALS Vial : 11 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 11:29:25 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(13) Acenaphthene (T)

9.667min (-0.006) 278.29 ng/ml

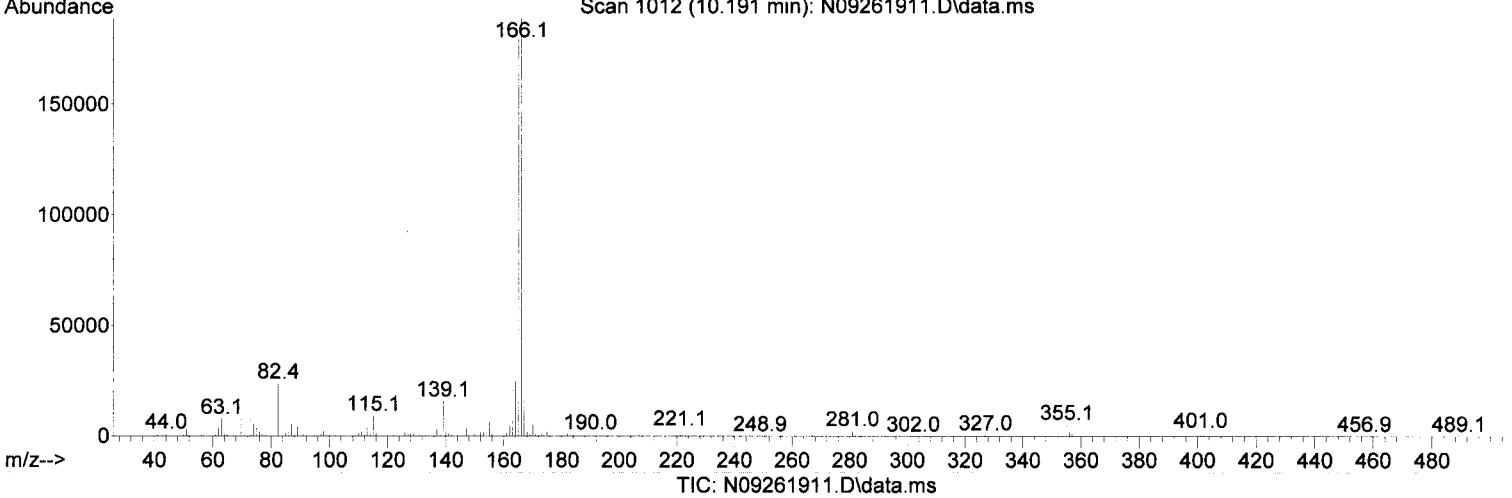
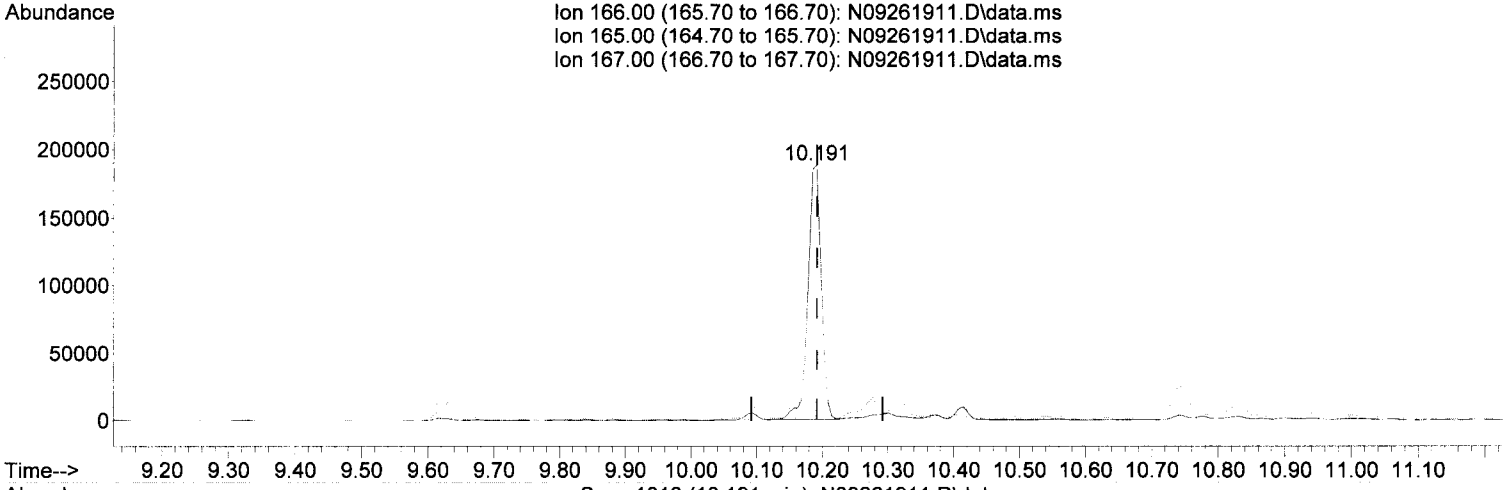
response 530433

Ion	Exp%	Act%
153.00	100.00	100.00
154.00	90.70	91.05
152.00	46.80	47.61
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261911.D
 Acq On : 26 Sep 2019 07:25 pm
 Operator :
 Sample : A9I0771-03@1000
 Misc : 1000x, 8270D LL PAH ONLY
 ALS Vial : 11 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 11:29:25 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(16) Fluorene (T)

10.191min (-0.000) 137.32 ng/ml

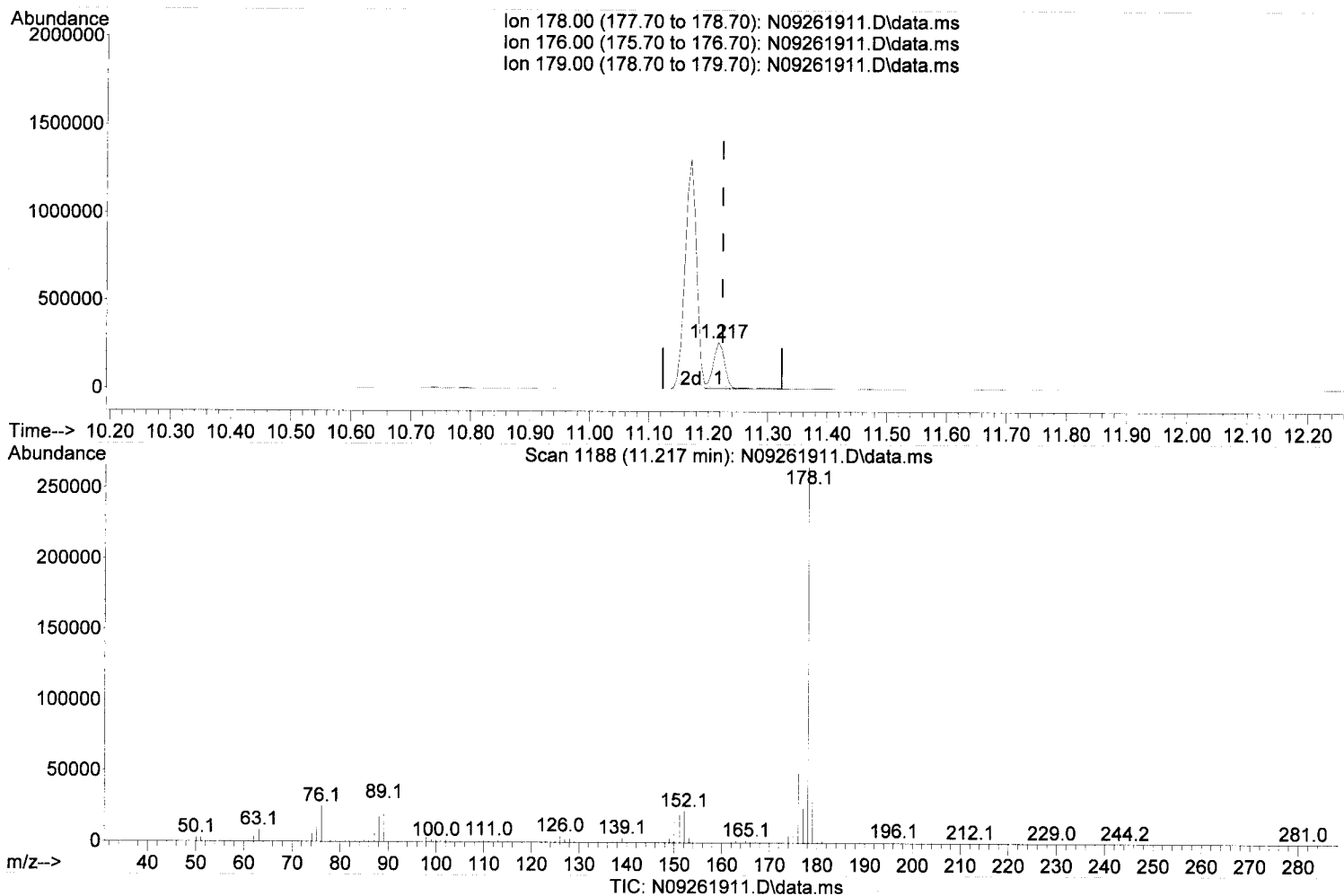
response 267841

Ion	Exp%	Act%
166.00	100.00	100.00
165.00	95.70	95.05
167.00	13.60	14.08
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261911.D
 Acq On : 26 Sep 2019 07:25 pm
 Operator :
 Sample : A9I0771-03@1000
 Misc : 1000x, 8270D LL PAH ONLY
 ALS Vial : 11 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 11:29:25 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(20) Anthracene (T)

11.217min (-0.006) 122.24 ng/ml

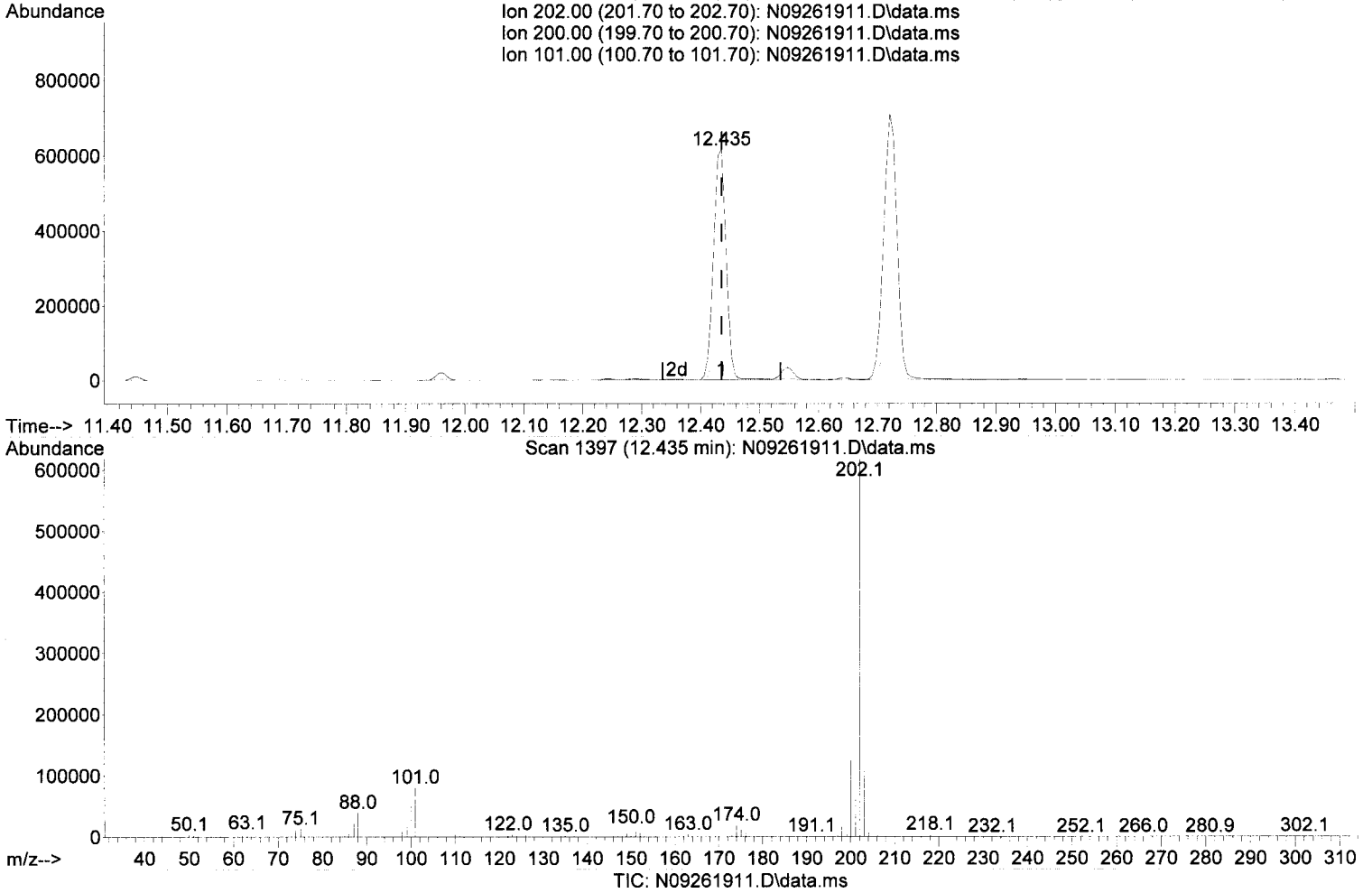
response 345311

Ion	Exp%	Act%
178.00	100.00	100.00
176.00	18.90	18.51
179.00	15.30	15.95
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261911.D
 Acq On : 26 Sep 2019 07:25 pm
 Operator :
 Sample : A9I0771-03@1000
 Misc : 1000x, 8270D LL PAH ONLY
 ALS Vial : 11 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 11:29:25 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(23) Fluoranthene (T)

12.435min (+ 0.000) 298.70 ng/ml

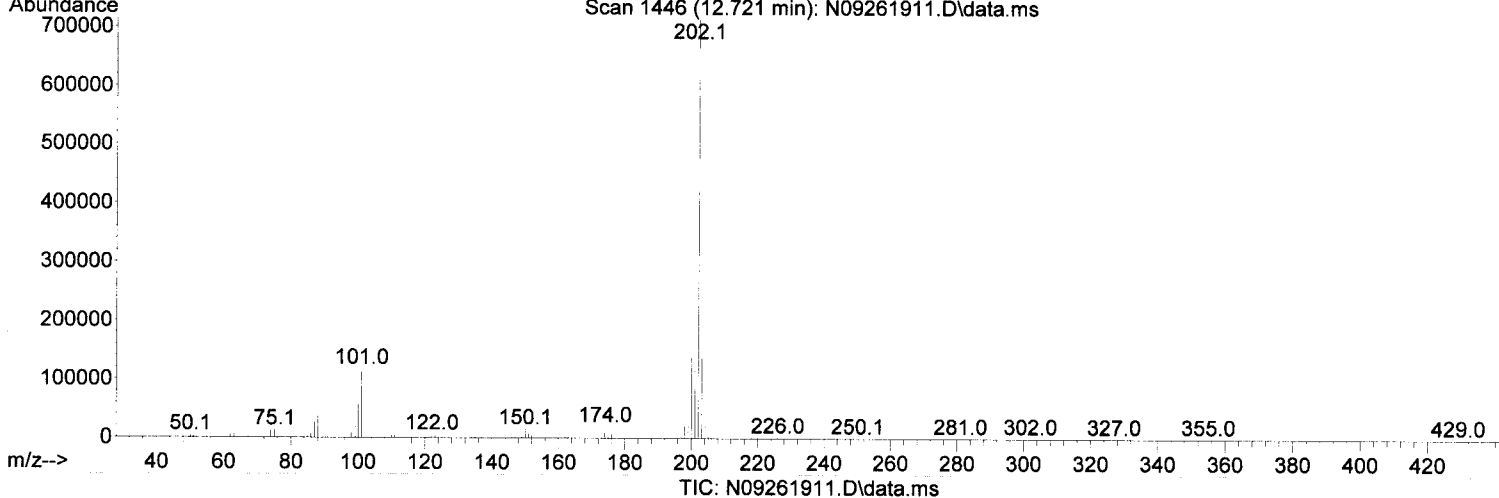
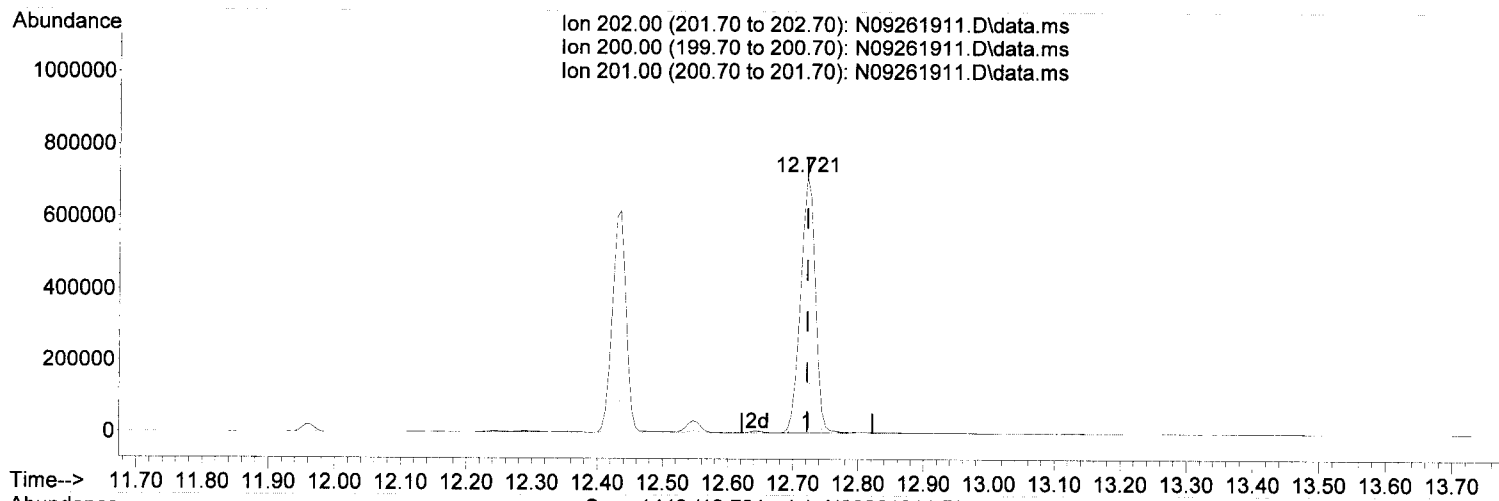
response 914000

Ion	Exp%	Act%
202.00	100.00	100.00
200.00	19.70	20.37
101.00	15.30	13.11
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261911.D
 Acq On : 26 Sep 2019 07:25 pm
 Operator :
 Sample : A9I0771-03@1000
 Misc : 1000x, 8270D LL PAH ONLY
 ALS Vial : 11 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 11:29:25 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(25) Pyrene (T)

12.721min (-0.000) 313.10 ng/ml

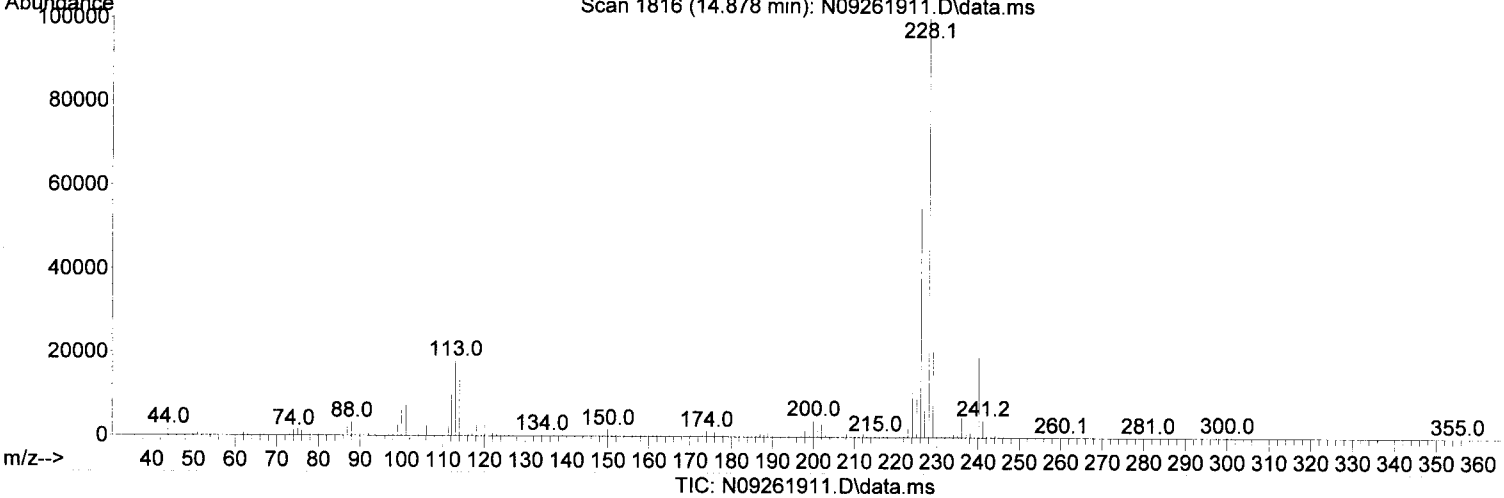
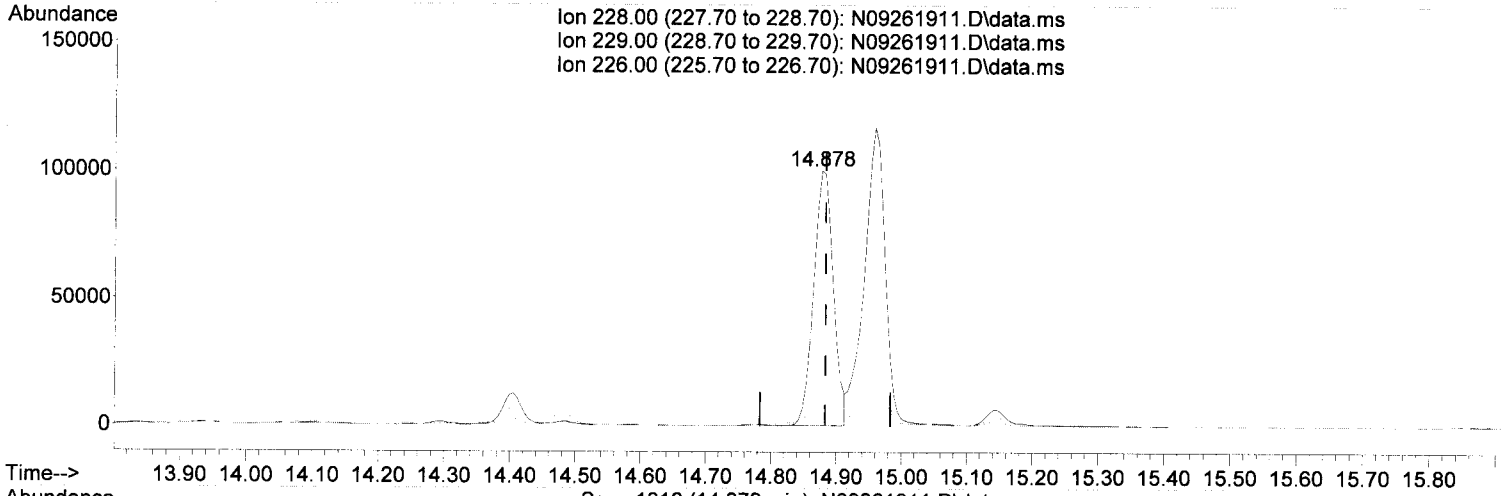
response 1120915

Ion	Exp%	Act%
202.00	100.00	100.00
200.00	20.70	20.68
201.00	16.80	17.15
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261911.D
 Acq On : 26 Sep 2019 07:25 pm
 Operator :
 Sample : A9I0771-03@1000
 Misc : 1000x, 8270D LL PAH ONLY
 ALS Vial : 11 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 11:29:25 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(27) Benz(a)anthracene (T)

14.878min (-0.005) 79.19 ng/ml

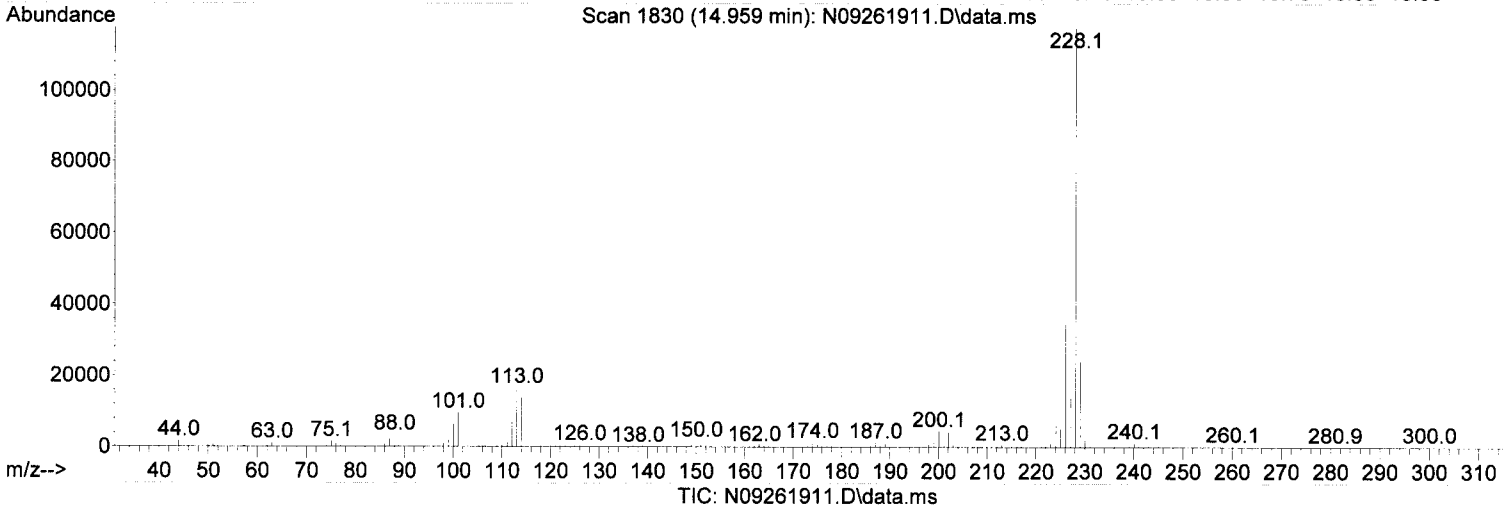
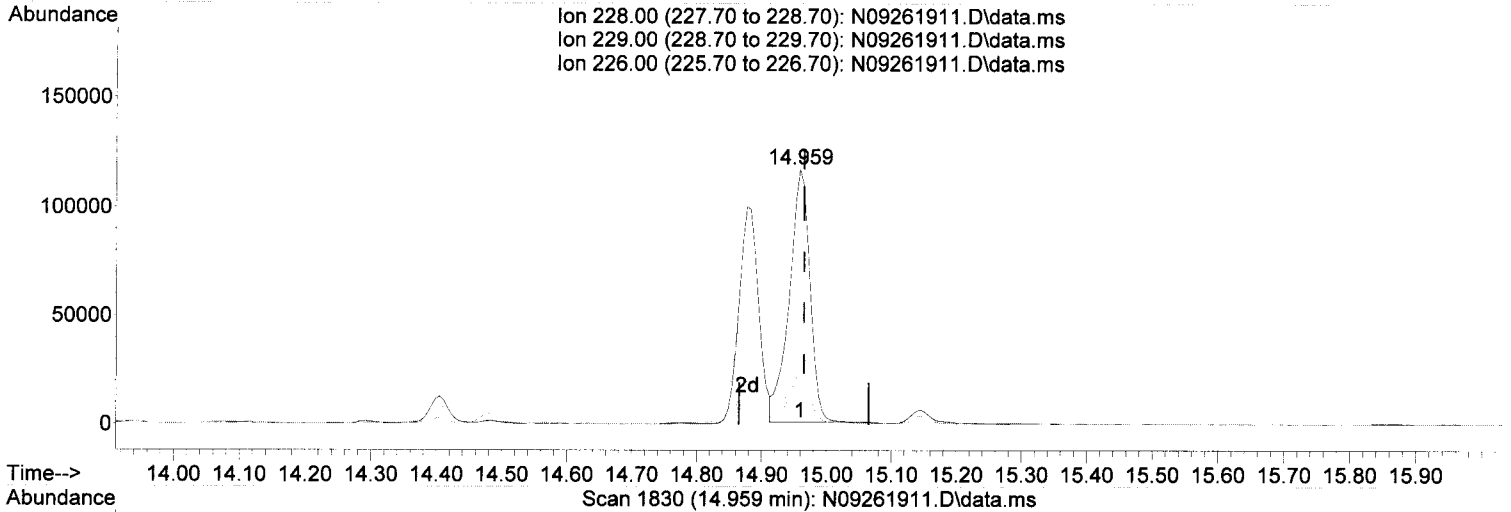
response 210670

Ion	Exp%	Act%
228.00	100.00	100.00
229.00	19.40	20.40
226.00	26.20	54.64
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261911.D
 Acq On : 26 Sep 2019 07:25 pm
 Operator :
 Sample : A9I0771-03@1000
 Misc : 1000x, 8270D LL PAH ONLY
 ALS Vial : 11 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 11:29:25 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(28) Chrysene (T)

14.959min (-0.006) 102.13 ng/ml

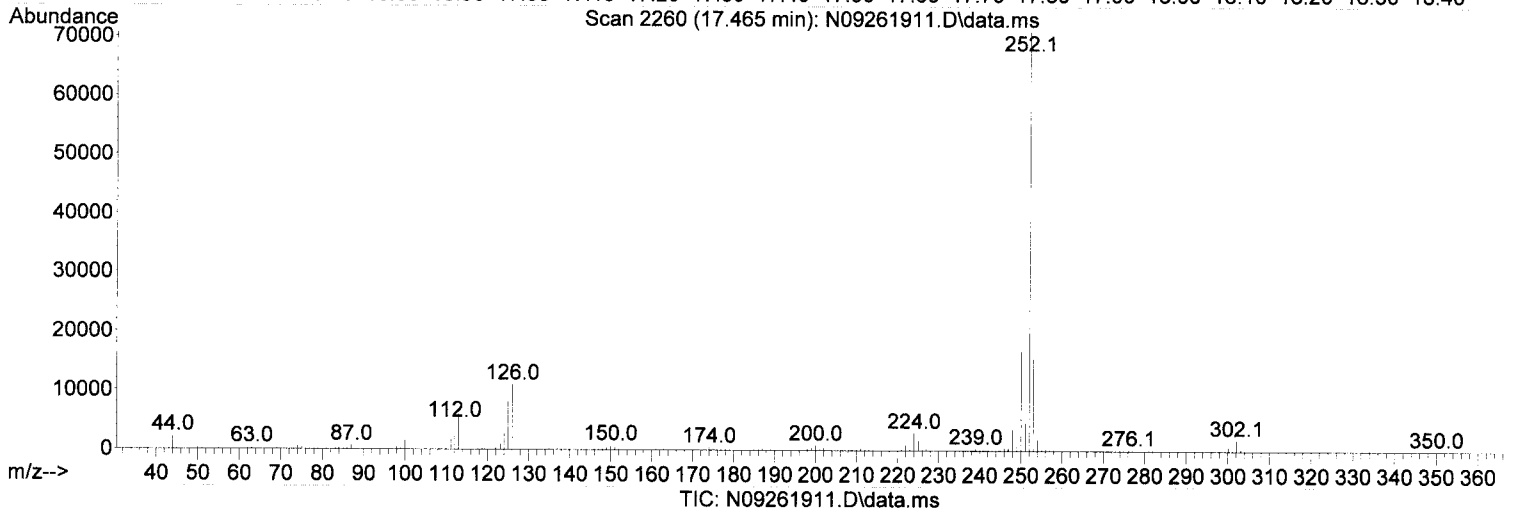
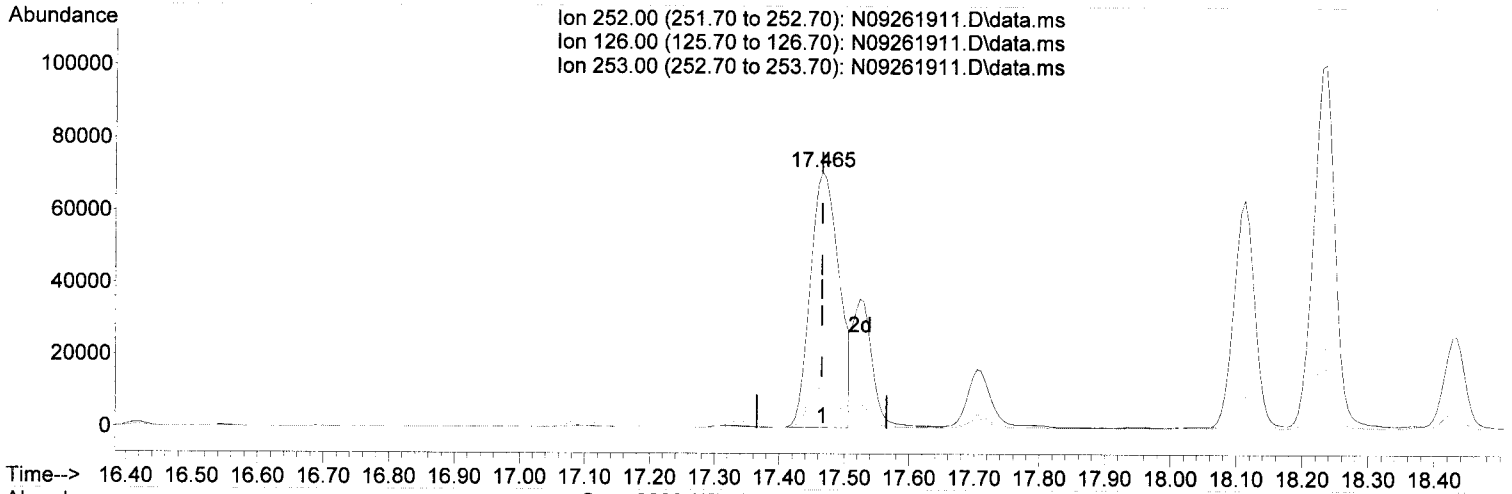
response 257129

Ion	Exp%	Act%
228.00	100.00	100.00
229.00	19.60	20.52
226.00	28.60	29.55
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261911.D
 Acq On : 26 Sep 2019 07:25 pm
 Operator :
 Sample : A9I0771-03@1000
 Misc : 1000x, 8270D LL PAH ONLY
 ALS Vial : 11 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 11:29:25 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(30) Benzo(b)fluoranthene (T)

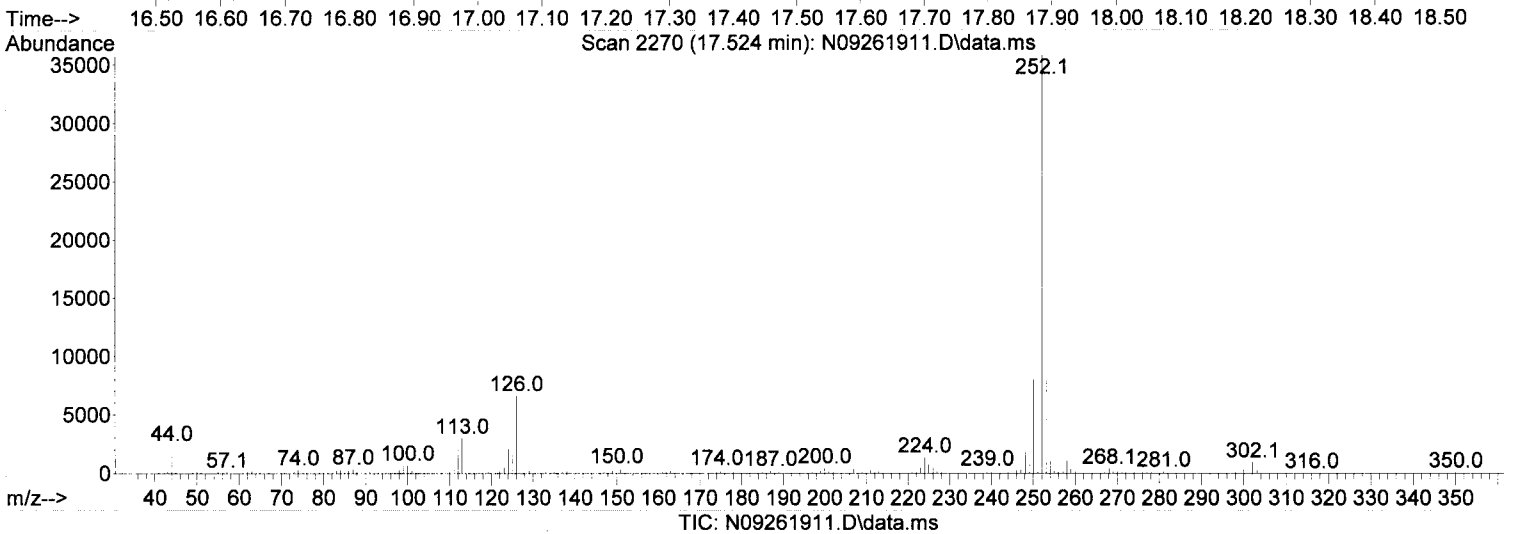
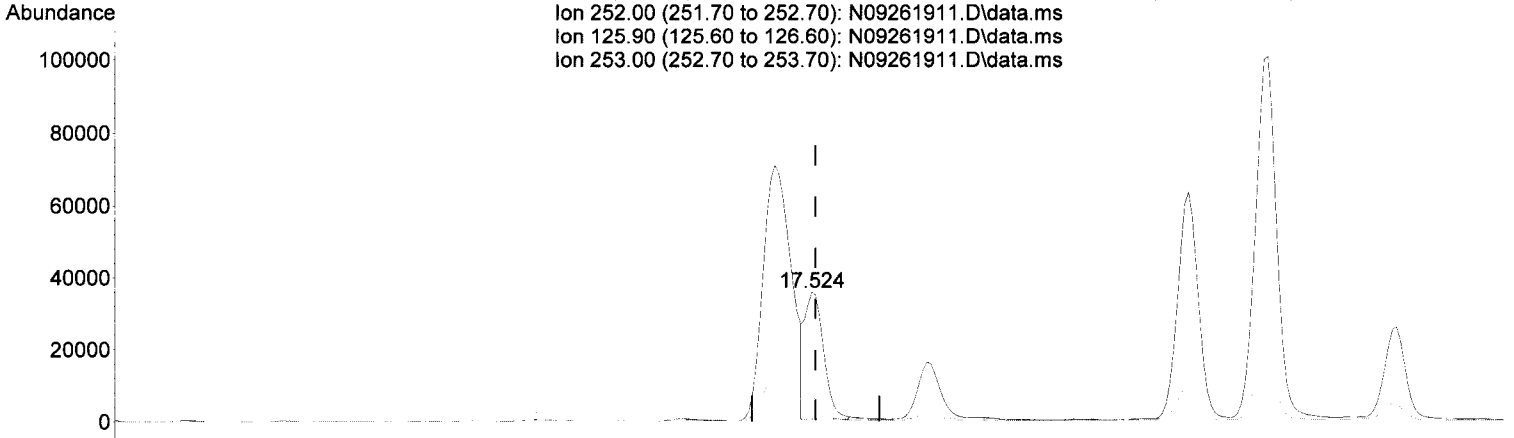
17.465min (+ 0.000) 90.49 ng/ml

response	217856	
Ion	Exp%	Act%
252.00	100.00	100.00
126.00	20.00	15.50
253.00	21.10	22.11
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261911.D
 Acq On : 26 Sep 2019 07:25 pm
 Operator :
 Sample : A9I0771-03@1000
 Misc : 1000x, 8270D LL PAH ONLY
 ALS Vial : 11 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 11:29:25 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(31) Benzo(k)fluoranthene (T)

17.524min (-0.005) 30.40 ng/ml/m

RM 9/27/19

response 72061

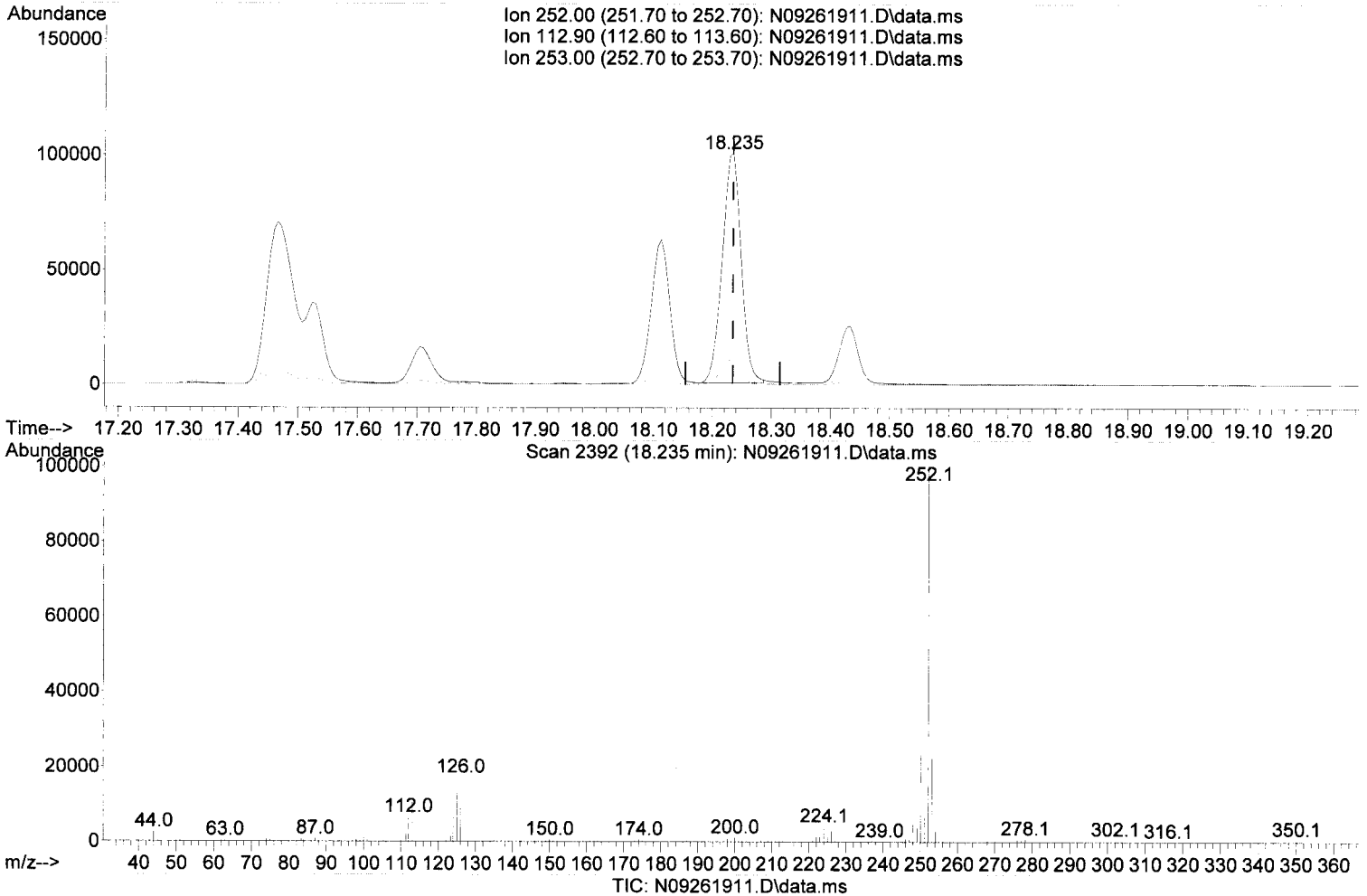
Ion	Exp%	Act%
252.00	100.00	100.00
125.90	22.10	18.53
253.00	21.50	22.60
0.00	0.00	0.00

M-05

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261911.D
 Acq On : 26 Sep 2019 07:25 pm
 Operator :
 Sample : A9I0771-03@1000
 Misc : 1000x, 8270D LL PAH ONLY
 ALS Vial : 11 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 11:29:25 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(35) Benzo(a)pyrene (T)

18.235min (+ 0.001) 108.21 ng/ml

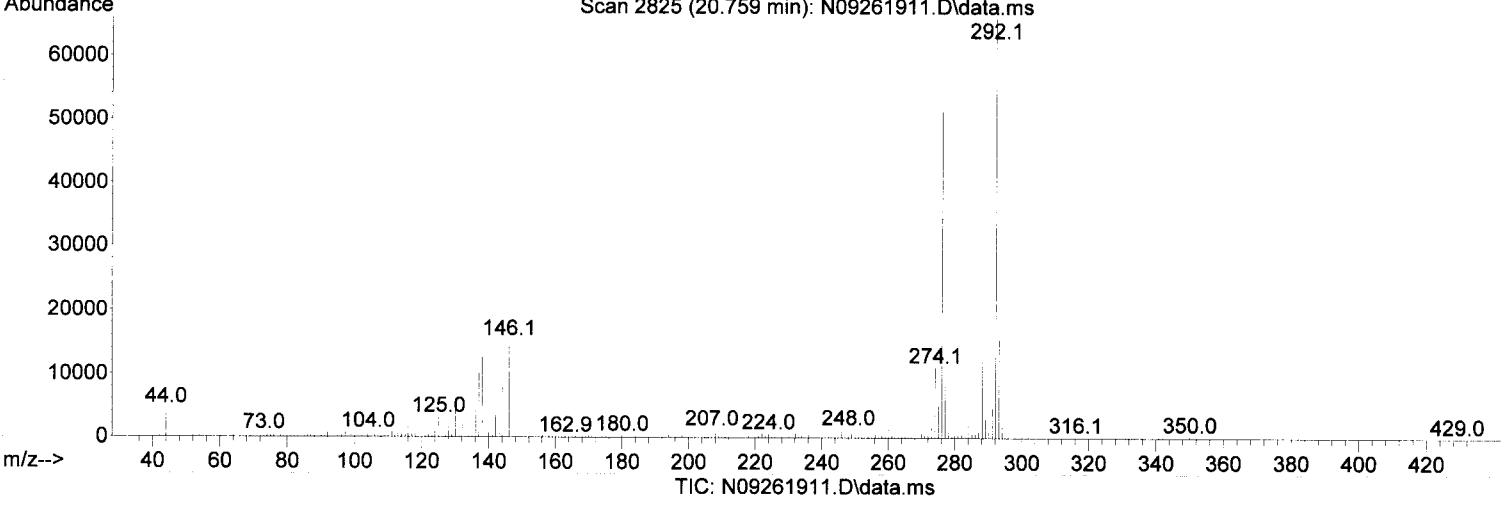
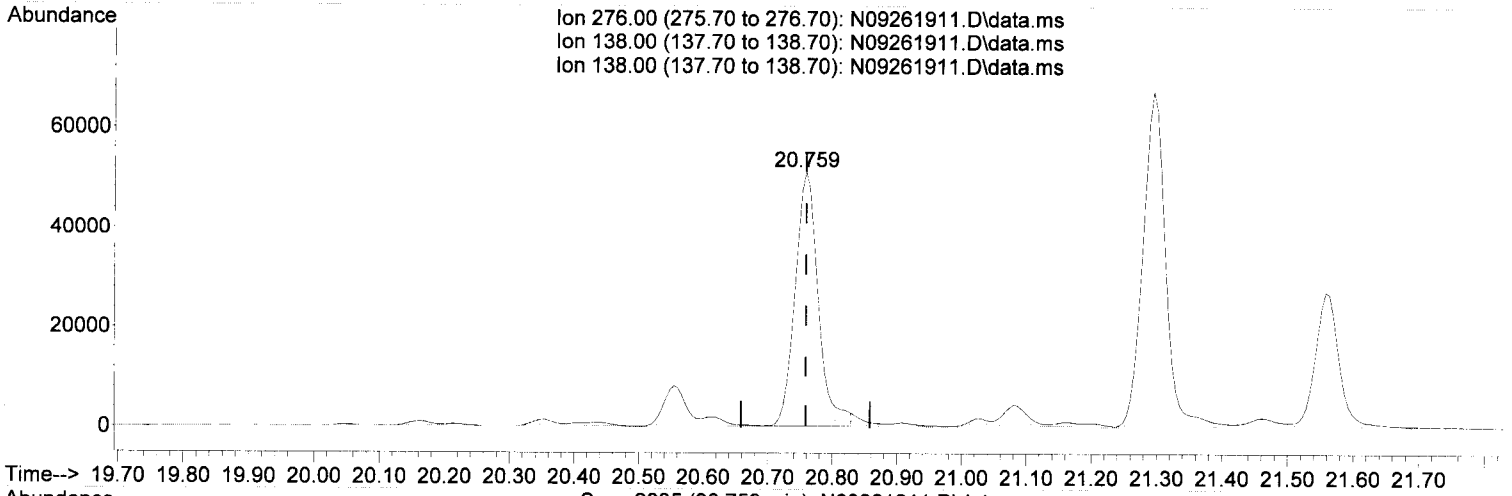
response 222989

Ion	Exp%	Act%
252.00	100.00	100.00
112.90	12.70	10.42
253.00	21.90	22.23
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261911.D
 Acq On : 26 Sep 2019 07:25 pm
 Operator :
 Sample : A9I0771-03@1000
 Misc : 1000x, 8270D LL PAH ONLY
 ALS Vial : 11 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 11:29:25 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(38) Indeno(1,2,3-cd)Pyrene (T)

20.759min (+ 0.001) 65.11 ng/ml

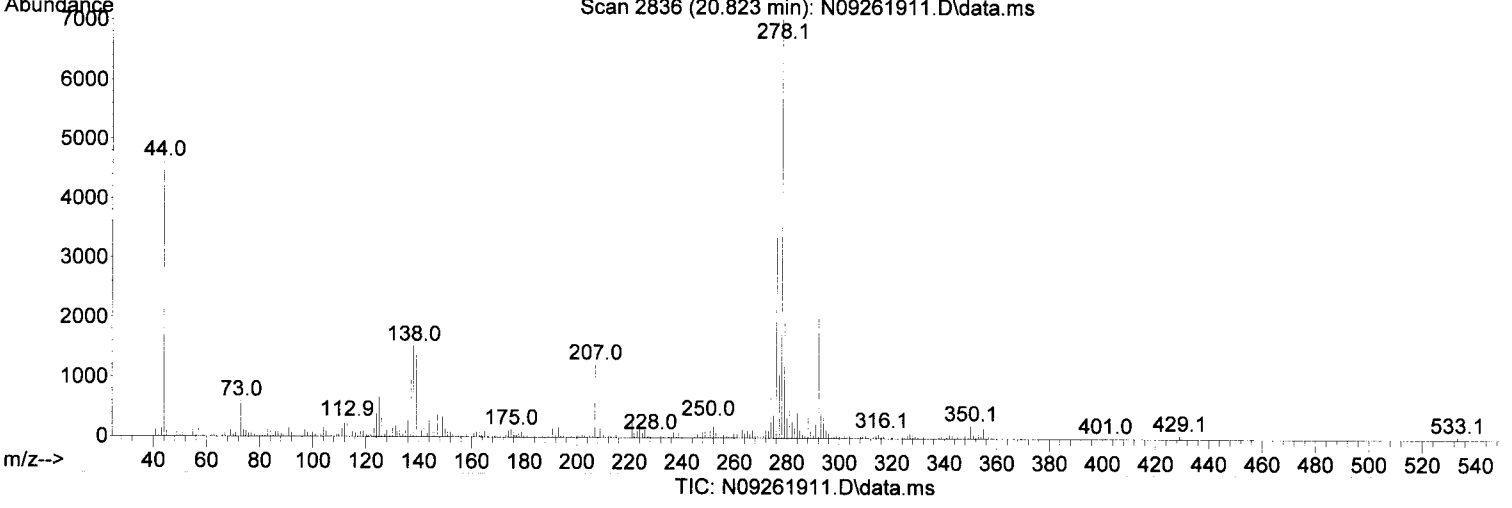
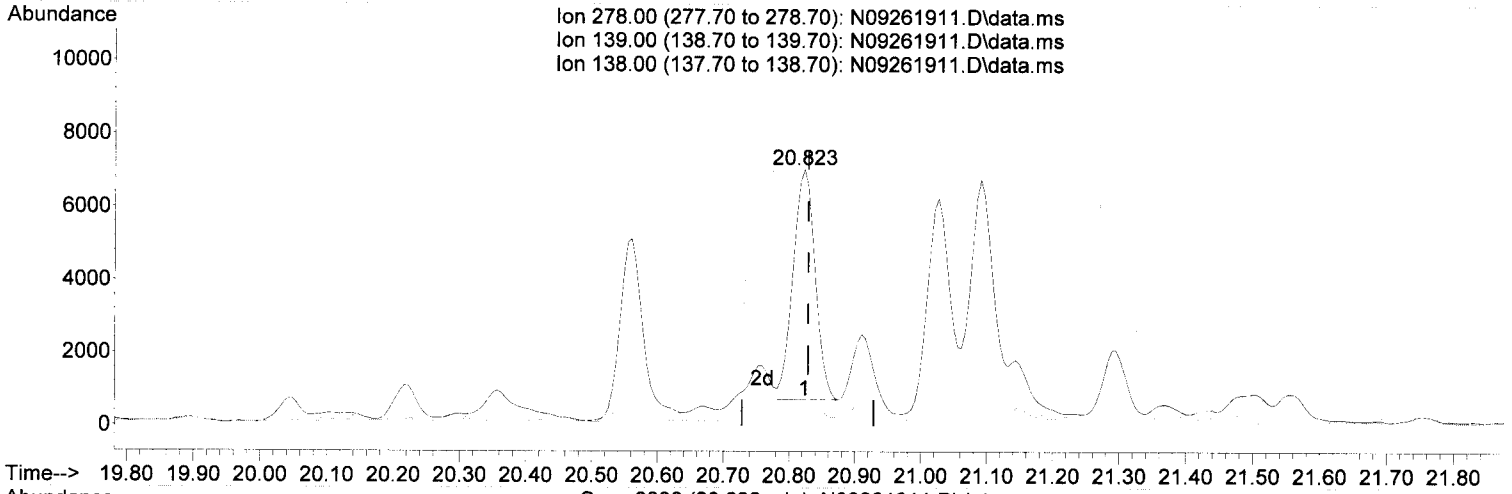
response 127757

Ion	Exp%	Act%
276.00	100.00	100.00
138.00	31.60	24.67
138.00	31.60	24.67
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261911.D
 Acq On : 26 Sep 2019 07:25 pm
 Operator :
 Sample : A9I0771-03@1000
 Misc : 1000x, 8270D LL PAH ONLY
 ALS Vial : 11 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 11:29:25 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(39) Dibenz(a,h)anthracene (T)

20.823min (-0.005) 8.03 ng/ml

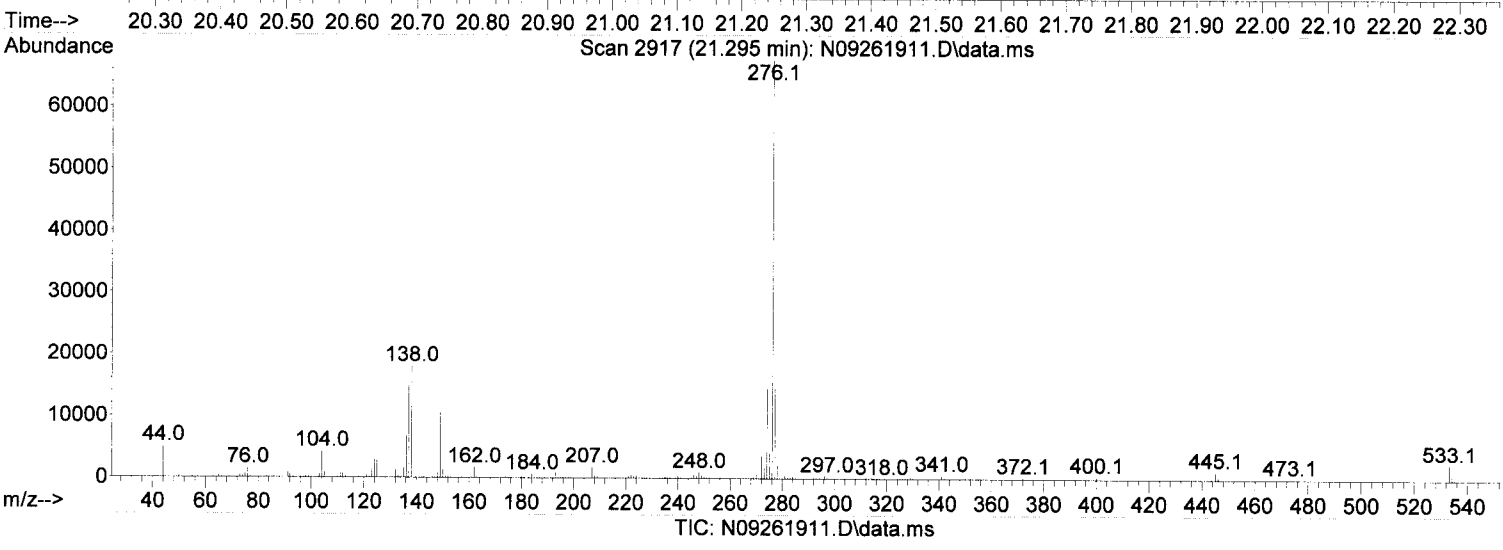
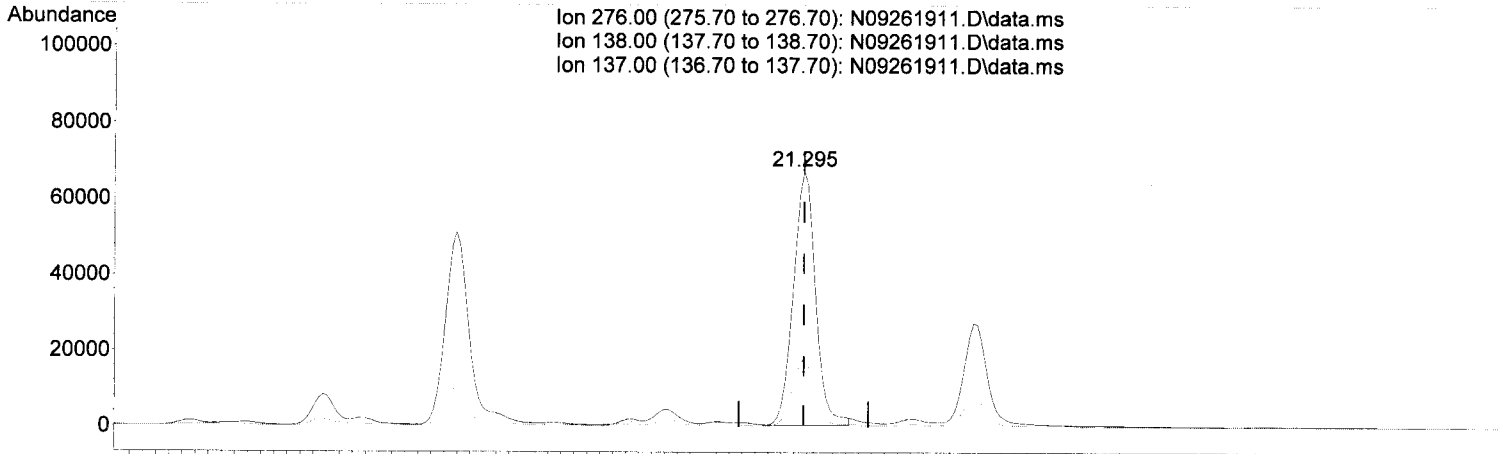
response 14809

Ion	Exp%	Act%
278.00	100.00	100.00
139.00	26.00	19.59
138.00	19.90	21.75
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261911.D
 Acq On : 26 Sep 2019 07:25 pm
 Operator :
 Sample : A9I0771-03@1000
 Misc : 1000x, 8270D LL PAH ONLY
 ALS Vial : 11 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 11:29:25 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



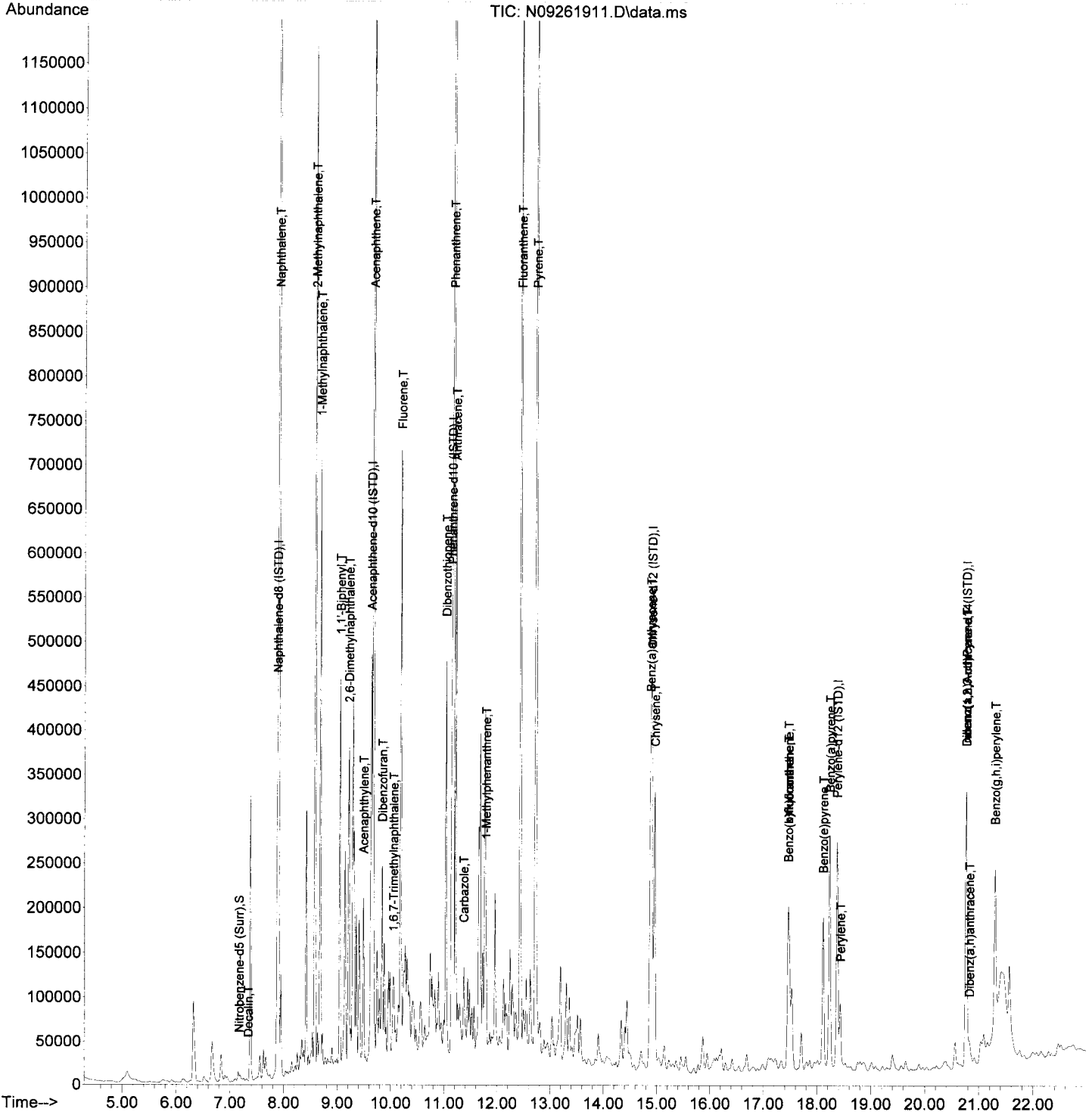
(40) Benzo(g,h,i)perylene (T)

21.295min (+ 0.001) 76.71 ng/ml

response	159680
Ion	Exp% Act%
276.00	100.00 100.00
138.00	34.40 26.64
137.00	28.60 22.06
0.00	0.00 0.00

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261911.D
 Acq On : 26 Sep 2019 07:25 pm
 Operator :
 Sample : A9I0771-03@1000
 Misc : 1000x, 8270D LL PAH ONLY
 ALS Vial : 11 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 11:29:25 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



Data Path : U:\data\2019-09\9I26035\
 Data File : N09261912.D
 Acq On : 26 Sep 2019 07:57 pm
 Operator :
 Sample : A9I0771-04@1000
 Misc : 1000x, 8270D LL PAH ONLY
 ALS Vial : 12 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

SEM 9/27/19

RR1

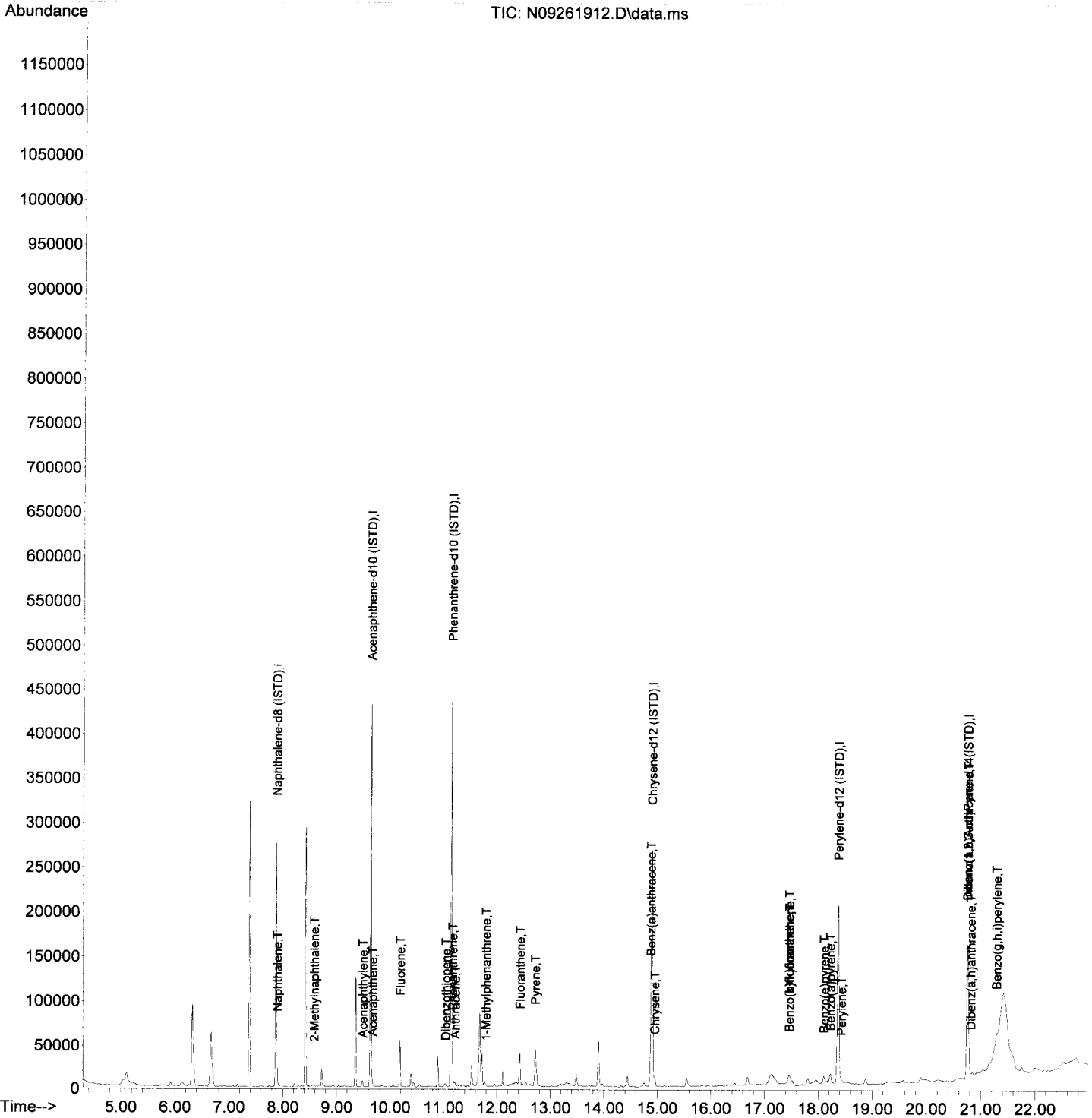
Quant Time: Sep 27 11:29:29 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	Qvalue
Internal Standards							
1) Naphthalene-d8 (ISTD)	7.877	136	190241	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.632	162	126996	100.00	ng/ml	0.00	
17) Phenanthrene-d10 (ISTD)	11.141	188	239275	100.00	ng/ml	0.00	
24) Chrysene-d12 (ISTD)	14.895	240	194384	100.00	ng/ml	-0.01	
29) Perylene-d12 (ISTD)	18.369	264	169244	100.00	ng/ml	0.00	
37) Dibenz(a,h)Anthracene-d...	20.753	292	133200	100.00	ng/ml	-0.01	
System Monitoring Compounds							
2) Nitrobenzene-d5 (Surr)	7.079	82	94	0.15	ng/ml	-0.11	
10) 2-Fluorobiphenyl (Surr)	8.944	172	94	0.05	ng/ml	0.00	
11) Acenaphthylene d-8 (Surr)	9.474	160	2246	-1.00	ng/ml	0.00	
26) Terphenyl-d14 (Surr)	12.925	244	232	0.11	ng/ml	0.00	
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml		
Target Compounds							
3) Decalin	0.000		0	N.D.			
4) Naphthalene	7.895	128	4247	2.02	ng/ml	99	
5) 2-Methylnaphthalene	8.583	142	763	0.43	ng/ml	94	
6) 1-Methylnaphthalene	8.682	142	499	N.D.			
7) 1,1'-Biphenyl	9.049	154	345	N.D.			
8) 2,6-Dimethylnaphthalene	9.212	156	383	N.D.			
12) Acenaphthylene	9.486	152	3396	1.23	ng/ml	99	
13) Acenaphthene	9.667	153	2309	1.28	ng/ml	97	
14) Dibenzofuran	9.836	168	162	N.D.			
15) 1,6,7-Trimethylnaphtha...	10.051	170	205	N.D.			
16) Fluorene	10.185	166	1411	0.76	ng/ml	99	
18) Dibenzothiopene	11.036	184	1693	0.68	ng/ml	96	
19) Phenanthrene	11.165	178	14434	5.16	ng/ml	99	
20) Anthracene	11.217	178	2569	0.99	ng/ml	97	✓
21) Carbazole	11.374	167	295	N.D.			
22) 1-Methylphenanthrene	11.788	192	1735	0.89	ng/ml	91	
23) Fluoranthene	12.429	202	22466	7.96	ng/ml	98	
25) Pyrene	12.715	202	27637	9.10	ng/ml	99	
27) Benz(a)anthracene	14.877	228	7319	3.24	ng/ml	75	
28) Chrysene	14.953	228	7747	3.63	ng/ml	99	
30) Benzo(b)fluoranthene	17.460	252	9191	4.71	ng/ml	97	
31) Benzo(k)fluoranthene	17.460	252	10823	5.63	ng/ml	96	
32) Benzo(b+k)fluoranthene	17.460	252	12529	6.27	ng/ml	96	
34) Benzo(e)pyrene	18.107	252	6105	3.09	ng/ml	98	
35) Benzo(a)pyrene	18.223	252	8555	5.12	ng/ml	99	
36) Perylene	18.427	252	2368	1.15	ng/ml	97	
38) Indeno(1,2,3-cd)Pyrene	20.753	276	6298	3.83	ng/ml	93	
39) Dibenz(a,h)anthracene	20.811	278	746	0.48	ng/ml	77	
40) Benzo(g,h,i)perylene	21.289	276	7562	4.34	ng/ml	91	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261912.D
 Acq On : 26 Sep 2019 07:57 pm
 Operator :
 Sample : A9I0771-04@1000
 Misc : 1000x, 8270D LL PAH ONLY
 ALS Vial : 12 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 11:29:29 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



Data Path : U:\data\2019-09\9I26035\
 Data File : N09261913.D
 Acq On : 26 Sep 2019 08:33 pm
 Operator :
 Sample : A9I0771-05@1000
 Misc : 1000x, 8270D LL PAH ONLY
 ALS Vial : 13 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

RR1
 Hem 9/27/19

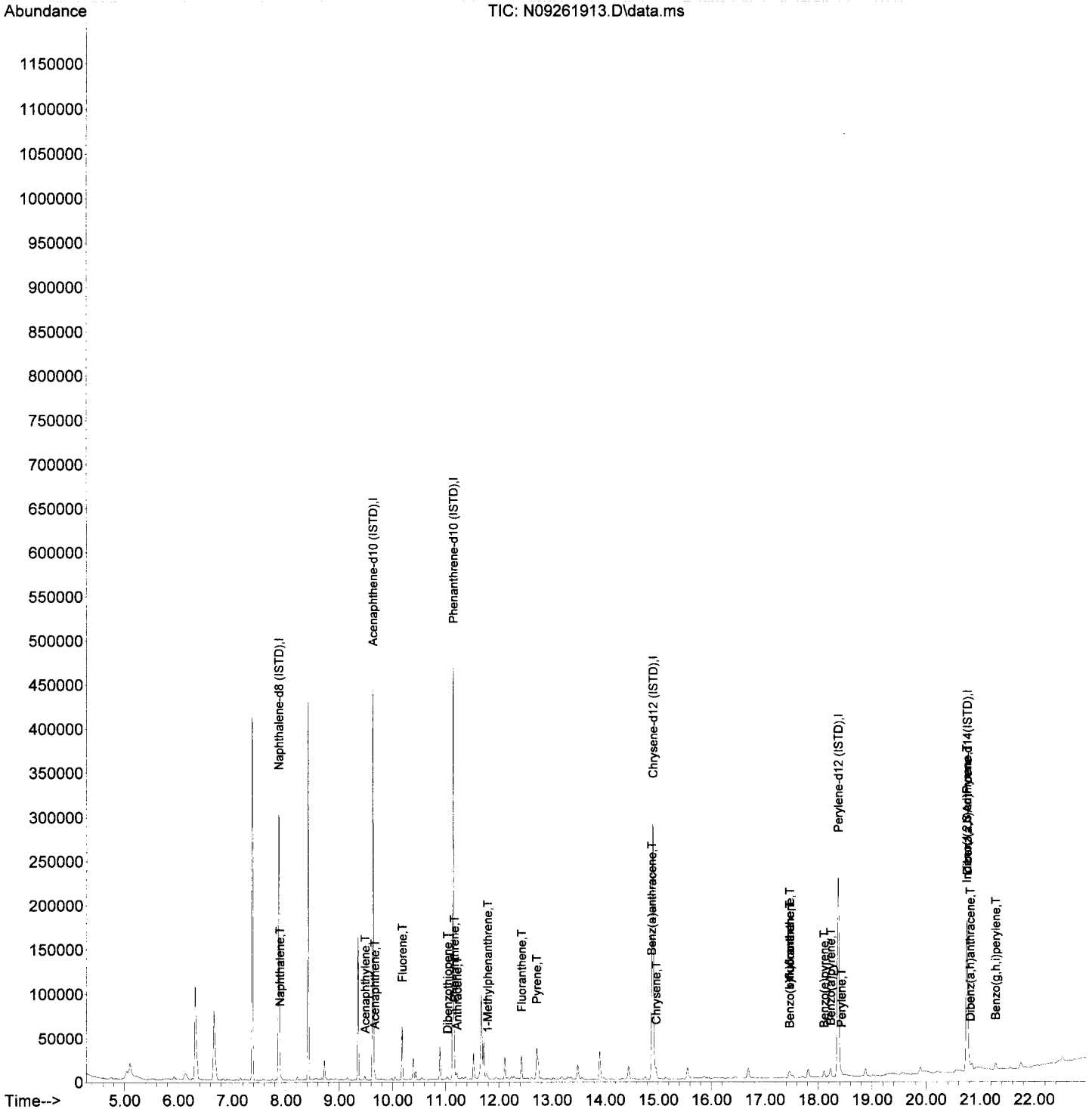
Quant Time: Sep 27 11:29:32 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Naphthalene-d8 (ISTD)	7.872	136	214963	100.00	ng/ml	-0.01	
9) Acenaphthene-d10 (ISTD)	9.632	162	129965	100.00	ng/ml	0.00	
17) Phenanthrene-d10 (ISTD)	11.141	188	246067	100.00	ng/ml	0.00	
24) Chrysene-d12 (ISTD)	14.901	240	209644	100.00	ng/ml	0.00	
29) Perylene-d12 (ISTD)	18.369	264	186812	100.00	ng/ml	0.00	
37) Dibenz(a,h)Anthracene-d...	20.759	292	152391	100.00	ng/ml	0.00	
System Monitoring Compounds							
2) Nitrobenzene-d5 (Surr)	0.000	82	0	0.00	ng/ml		
10) 2-Fluorobiphenyl (Surr)	8.944	172	155	0.08	ng/ml	0.00	
11) Acenaphthylene d-8 (Surr)	9.474	160	2060	-1.00	ng/ml	0.00	
26) Terphenyl-d14 (Surr)	12.925	244	257	0.12	ng/ml	0.00	
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml		
Target Compounds							
3) Decalin	0.000		0	N.D.			Qvalue
4) Naphthalene	7.895	128	3128	1.32	ng/ml	99	
5) 2-Methylnaphthalene	8.583	142	769	N.D.			
6) 1-Methylnaphthalene	8.682	142	487	N.D.			
7) 1,1'-Biphenyl	9.049	154	221	N.D.			
8) 2,6-Dimethylnaphthalene	9.212	156	299	N.D.			
12) Acenaphthylene	9.486	152	1487	0.53	ng/ml	97	
13) Acenaphthene	9.667	153	2013	1.09	ng/ml	96	
14) Dibenzofuran	9.842	168	218	N.D.			
15) 1,6,7-Trimethylnaphtha...	10.051	170	223	N.D.			
16) Fluorene	10.186	166	993	0.53	ng/ml	98	
18) Dibenzothiopene	11.037	184	1342	0.52	ng/ml	94	
19) Phenanthrene	11.165	178	13670	4.75	ng/ml	99	✓
20) Anthracene	11.217	178	3450	1.29	ng/ml	98	
21) Carbazole	11.375	167	486	N.D.			
22) 1-Methylphenanthrene	11.788	192	1263	0.63	ng/ml	97	
23) Fluoranthene	12.430	202	16483	5.68	ng/ml	99	
25) Pyrene	12.715	202	23310	7.12	ng/ml	99	
27) Benz(a)anthracene	14.878	228	7902	3.25	ng/ml	84	
28) Chrysene	14.959	228	9752	4.23	ng/ml	97	
30) Benzo(b)fluoranthene	17.465	252	8769	4.07	ng/ml	94	
31) Benzo(k)fluoranthene	17.465	252	10456	4.93	ng/ml	92	
32) Benzo(b+k)fluoranthene	17.465	252	12253	5.56	ng/ml	92	
34) Benzo(e)pyrene	18.107	252	5818	2.67	ng/ml	95	
35) Benzo(a)pyrene	18.229	252	8752	4.74	ng/ml	97	
36) Perylene	18.427	252	2462	1.08	ng/ml	98	
38) Indeno(1,2,3-cd)Pyrene	20.753	276	6106	3.25	ng/ml	99	
39) Dibenz(a,h)anthracene	20.817	278	940	0.53	ng/ml	91	
40) Benzo(g,h,i)perylene	21.289	276	7099	3.56	ng/ml	86	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : U:\data\2019-09\9I26035\
 Data File : N09261913.D
 Acq On : 26 Sep 2019 08:33 pm
 Operator :
 Sample : A9I0771-05@1000
 Misc : 1000x, 8270D LL PAH ONLY
 ALS Vial : 13 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 11:29:32 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



**Semivolatile Organic Compounds (PAHs) by EPA 8270D
Benchsheet & Analysis Sequence Data**

Sequence 9I27028 (A9I0771-01RE1,02RE1,03RE1)



ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence: 9127028

Instrument: SV-GCMS14

Date: 09/27/19 10:06

Calibration: A9I1001

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	9127028-TUN1	Soil	QC	QC			A19I102	A19I165
2	9127028-CCV1	Soil	QC	QC			A19I102	A19I020
3	9127028-CCB1	Soil	QC	QC			A19I102	
4	A9I0771-06	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	10/08/19	9091304	A19I102	
5	A9I0771-01RE1	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	10/08/19	9091304	A19I102	
6	9091304-DUP2	Sediment	QC	QC		9091304		
7	A9I0771-02RE1	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	10/08/19	9091304	A19I102	
8	A9I0771-03RE1	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	10/08/19	9091304	A19I102	
9	A9I0771-04RE1	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	10/08/19	9091304	A19I102	
10	A9I0771-05RE1	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	10/08/19	9091304	A19I102	
11	A9I0771-06RE1	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	10/08/19	9091304	A19I102	
12	9127028-IBL1	Soil	QC	QC			A19I102	
13	A9I0771-04RE2	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	10/08/19	9091304	A19I102	
14	A9I0771-05RE2	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	10/08/19	9091304	A19I102	
15	A9I0771-06RE2	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	10/08/19	9091304	A19I102	
16	9127028-IBL2	Soil	QC	QC			A19I102	

Data Entered By: Heidi 9/30/19

Comments:

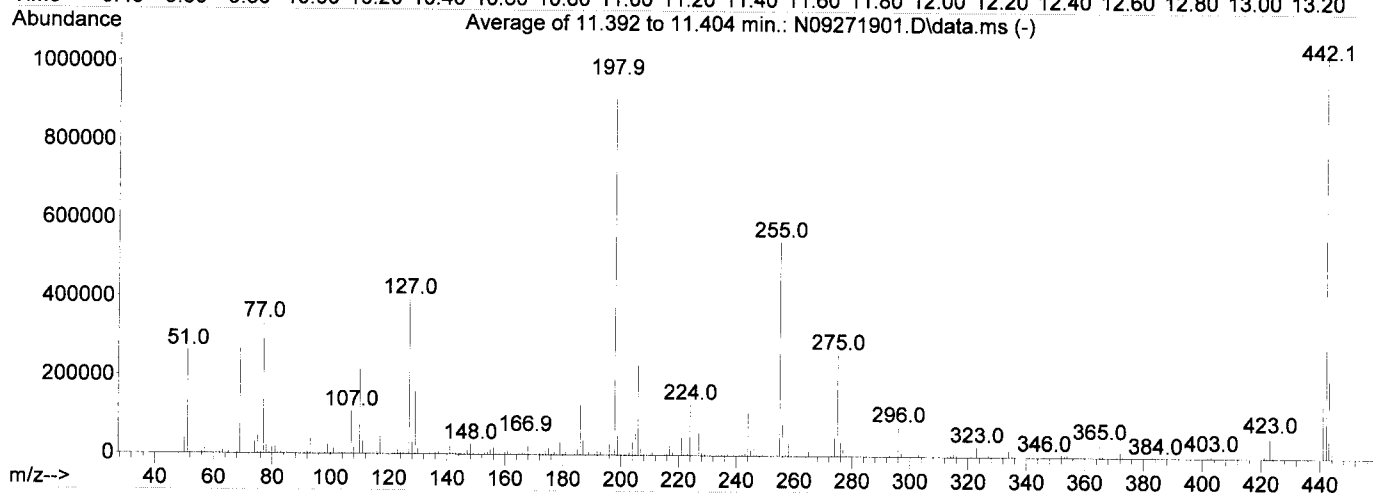
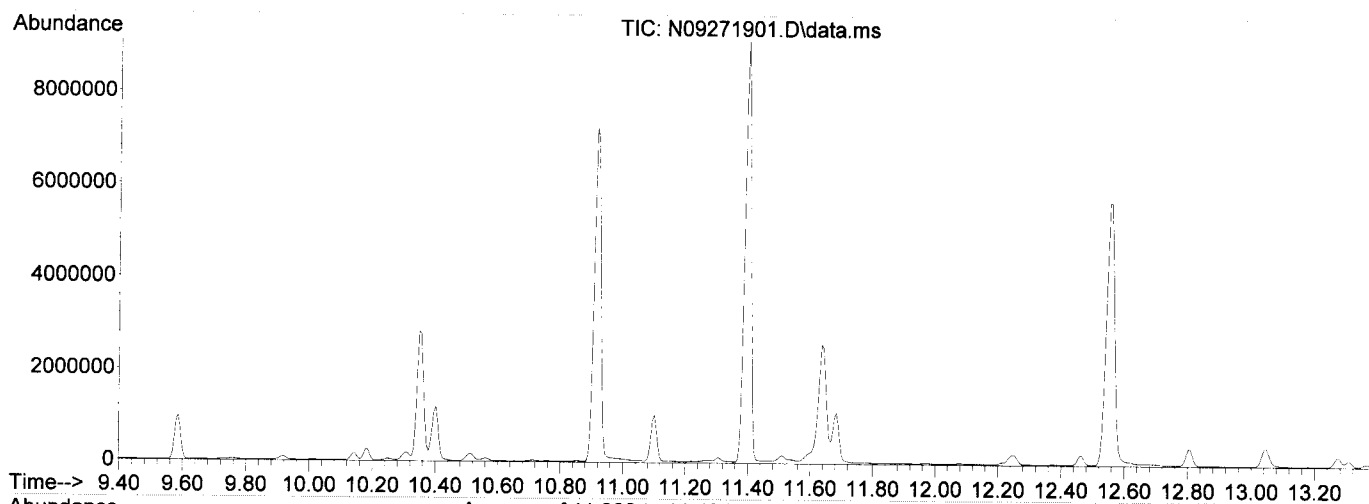
Data Reviewed By: gd 10/11/19

Data Path : U:\data\2019-09\9I27028\
 Data File : N09271901.D
 Acq On : 27 Sep 2019 10:11 am
 Operator :
 Sample : 9I27028-TUN1
 Misc : 1x, A19I165 DFTPP@45
 ALS Vial : 1 Sample Multiplier: 1

JMU 9/27/19

Integration File: rteint.p

Method : U:\methods\DFTPP.M
 Title : 8270 DFTPP Tune Method
 Last Update : Thu Sep 05 08:50:46 2019



AutoFind: Scans 1218, 1219, 1220; Background Corrected with Scan 1212

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	1.6	4668	PASS
69	69	100	100	100.0	290134	PASS
70	69	0.00	2	0.5	1453	PASS
197	198	0.00	2	0.5	4411	PASS
198	198	100	100	100.0	959668	PASS
199	198	5	9	6.9	65824	PASS
365	198	1	100	3.8	36371	PASS
441	443	0.01	150	76.8	152797	PASS
442	198	0.10	200	106.3	1020352	PASS
443	442	15	24	19.5	199083	PASS

Quantitation Report (Not Reviewed)

Data Path : U:\data\2019-09\9I27028\
 Data File : N09271901.D
 Acq On : 27 Sep 2019 10:11 am
 Operator :
 Sample : 9I27028-TUN1
 Misc : 1x, A19I165 DFTPP@45
 ALS Vial : 1 Sample Multiplier: 1
 DataAcq Meth:DFTPP.M

Quant Time: Sep 27 15:52:48 2019
 Quant Method : U:\methods\DFTPP.M
 Quant Title : 8270 DFTPP Tune Method
 QLast Update : Thu Sep 05 08:50:46 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.607	150	168316	2.00	ug/mL	0.00
2) Naphthalene-d8	7.819	136	518353	2.00	ug/mL	0.00
3) Acenaphthene-d10	9.585	162	278523	2.00	ug/mL	0.00
5) Phenanthrene-d10	11.101	188	507162	2.00	ug/mL	0.00
11) Chrysene-d12	14.779	240	456578	2.00	ug/mL	# 0.00
12) Perylene-d12	16.830	264	430590	2.00	ug/mL	# 0.00
13) Dibenz(a,h)anthracene-...	18.054	292	337526	2.00	ug/mL	-0.01
Target Compounds						
4) Pentachlorophenol	10.920	266	1302905	49.54	ug/mL	Qvalue 89
6) DFTPP	11.398	442	1593924	38.93	ug/mL	93
7) Benzidine	12.558	184	4309016	23.88	ug/mL	97
8) 4,4-DDE	12.803	TIC	542832	No Calib		
9) 4,4-DDD	13.310	TIC	181211	No Calib		
10) 4,4-DDT	13.869	TIC	17711876	34.06	ug/mL	97

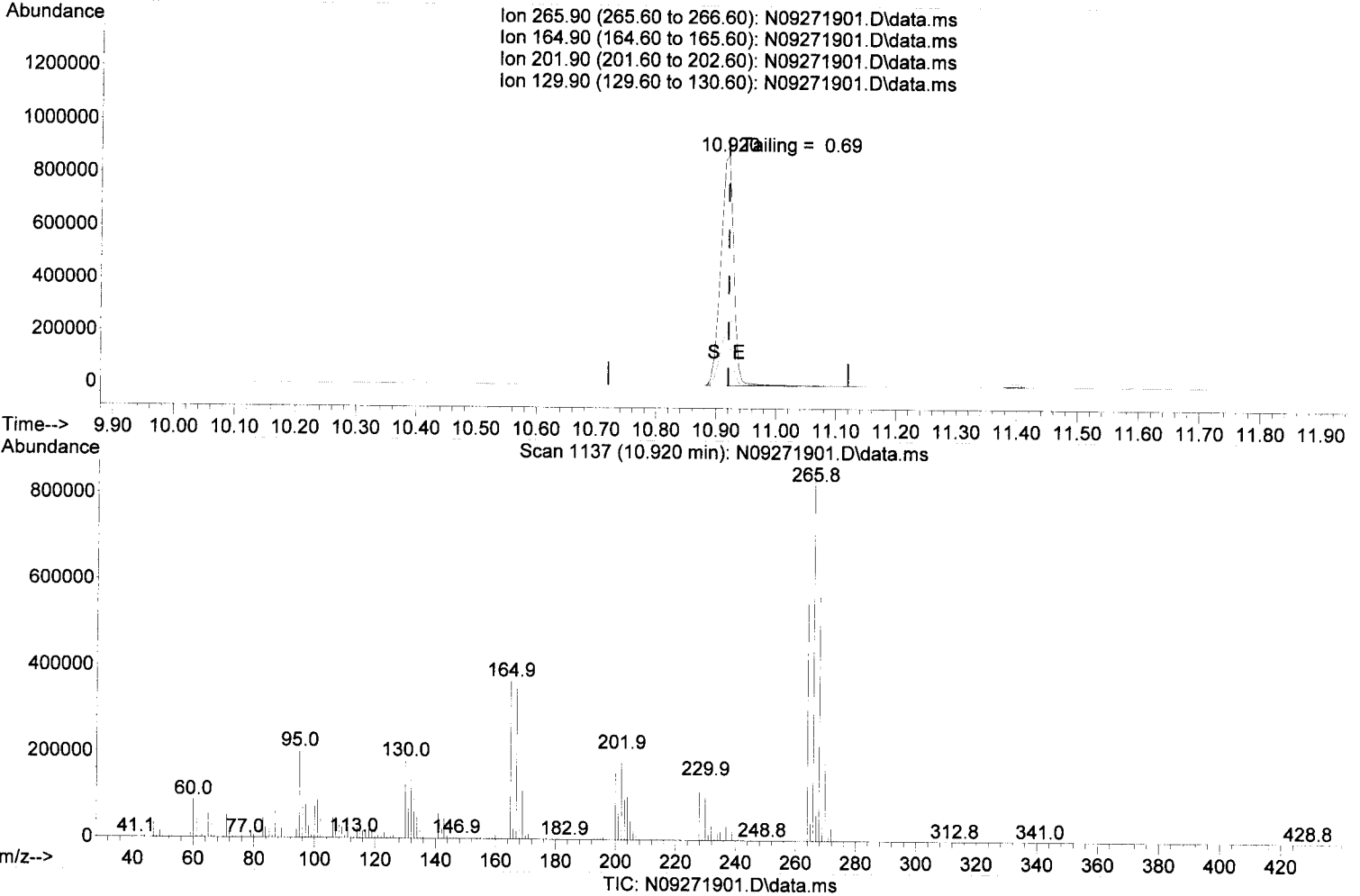
(#) = qualifier out of range (m) = manual integration (+) = signals summed

✓

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I27028\
 Data File : N09271901.D
 Acq On : 27 Sep 2019 10:11 am
 Operator :
 Sample : 9I27028-TUN1
 Misc : 1x, A19I165 DFTPP@45
 ALS Vial : 1 Sample Multiplier: 1
 DataAcq Meth:DFTPP.M

Quant Time: Sep 27 15:52:48 2019
 Quant Method : U:\methods\DFTPP.M
 Quant Title : 8270 DFTPP Tune Method
 QLast Update : Thu Sep 05 08:50:46 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(4) Pentachlorophenol

10.920min (+ 0.000) 49.54 ug/mL

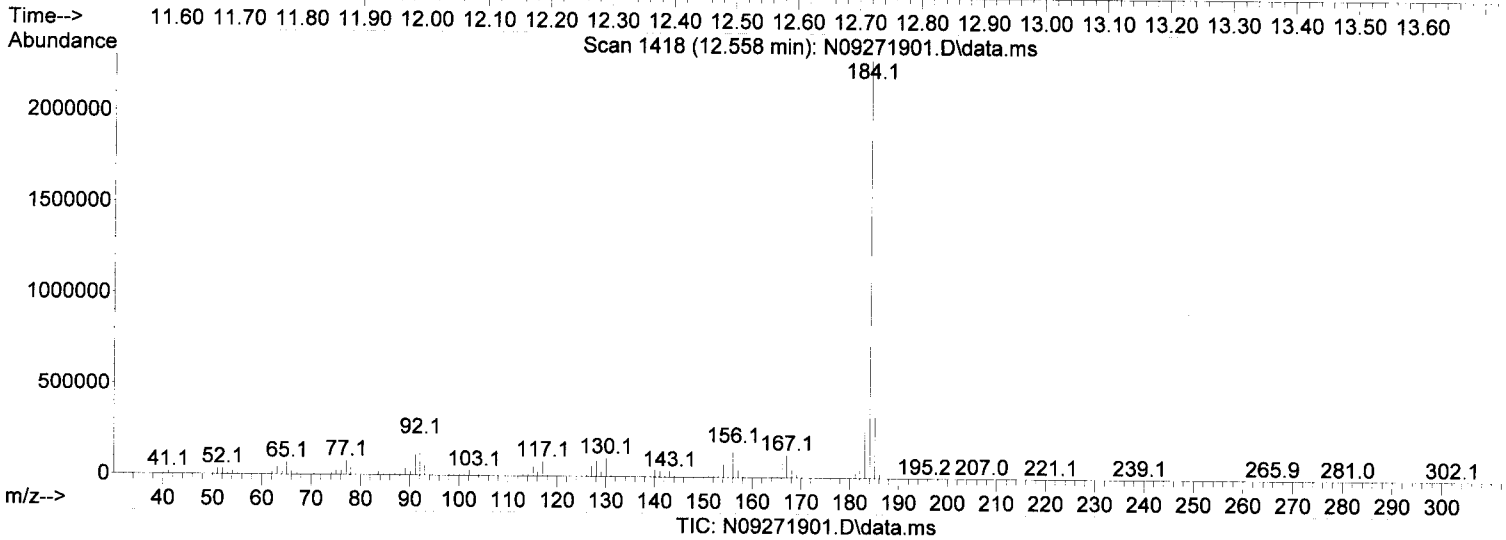
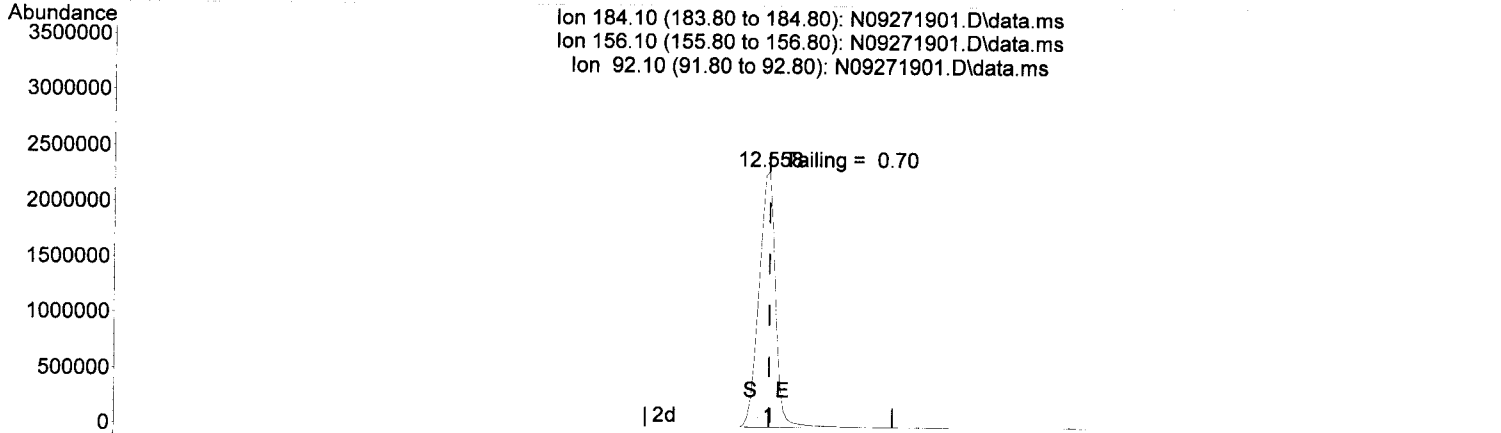
response 1302905

Ion	Exp%	Act%
265.90	100.00	100.00
164.90	50.60	41.98
201.90	25.80	23.16
129.90	27.30	20.76

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I27028\
 Data File : N09271901.D
 Acq On : 27 Sep 2019 10:11 am
 Operator :
 Sample : 9I27028-TUN1
 Misc : 1x, A19I165 DFTPP@45
 ALS Vial : 1 Sample Multiplier: 1
 DataAcq Meth:DFTPP.M

Quant Time: Sep 27 15:52:48 2019
 Quant Method : U:\methods\DFTPP.M
 Quant Title : 8270 DFTPP Tune Method
 QLast Update : Thu Sep 05 08:50:46 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(7) Benzidine

12.558min (+ 0.000) 23.88 ug/mL

response 4309016

Ion	Exp%	Act%
184.10	100.00	100.00
156.10	8.50	7.21
92.10	8.20	8.85
0.00	0.00	0.00

DDT Breakdown Check (Validated 5/1/2013)

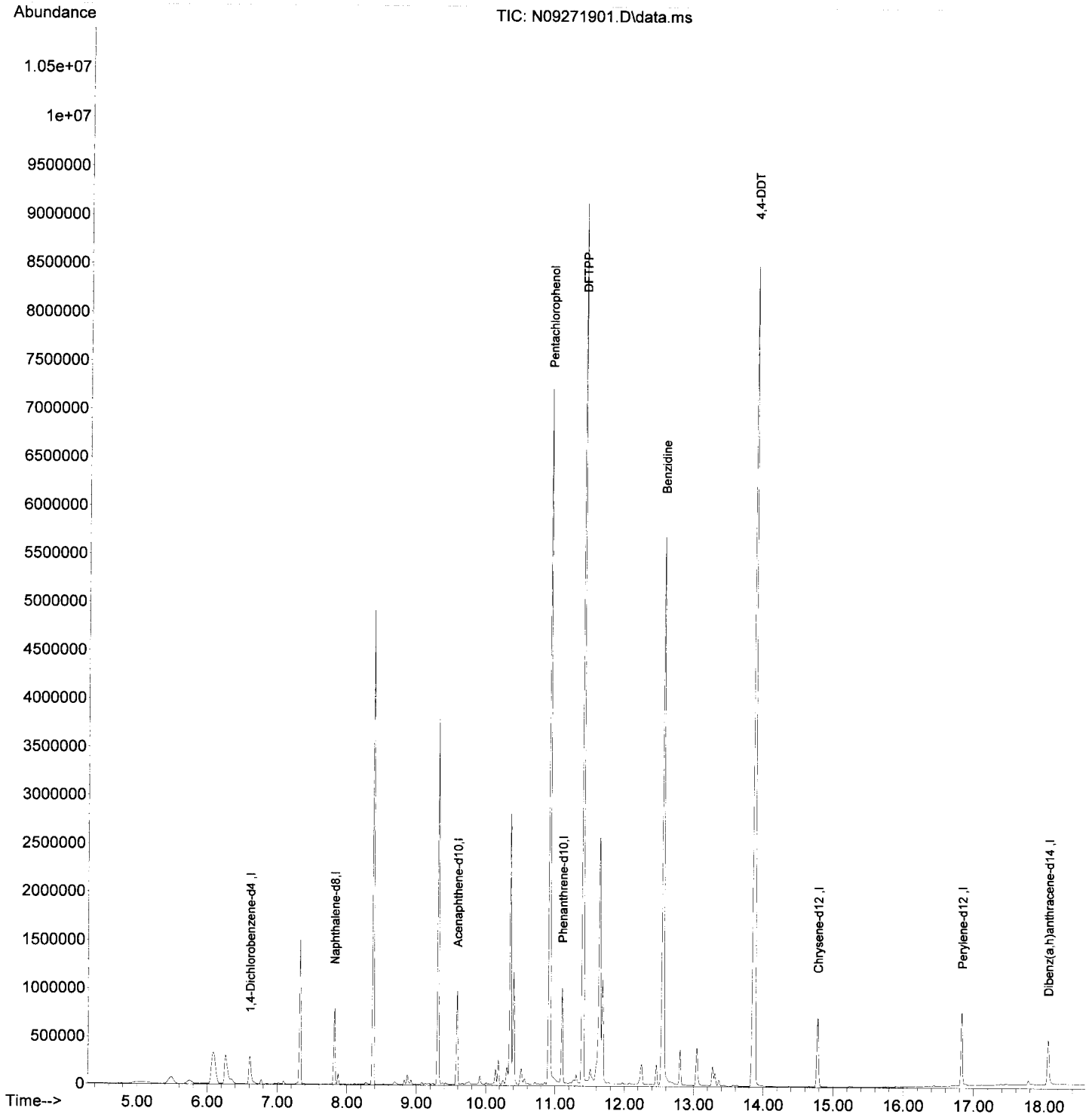
From:
9I27028-TUN1
SV-GCMS10

First Column Area Counts	Percent Breakdown
DDE 542832	
DDD 181211	
DDT 17711876	3.93 PASS

Breakdown must be less than 20% to accept sample data.

Data Path : U:\data\2019-09\9I27028\
 Data File : N09271901.D
 Acq On : 27 Sep 2019 10:11 am
 Operator :
 Sample : 9I27028-TUN1
 Misc : 1x, A19I165 DFTPP@45
 ALS Vial : 1 Sample Multiplier: 1
 DataAcq Meth:DFTPP.M

Quant Time: Sep 27 15:52:48 2019
 Quant Method : U:\methods\DFTPP.M
 Quant Title : 8270 DFTPP Tune Method
 QLast Update : Thu Sep 05 08:50:46 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



Evaluate Continuing Calibration Report

Data Path : U:\data\2019-09\9I27028\
 Data File : N09271902.D
 Acq On : 27 Sep 2019 10:38 am
 Operator :
 Sample : 9I27028-CCV1
 Misc : 1x, A19I020@50
 ALS Vial : 2 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

jem 9/27/19

Quant Time: Sep 27 11:04:28 2019
 Quant Method : N:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Naphthalene-d8 (ISTD)	100.000	100.000	0.0	121	0.00
2 S	Nitrobenzene-d5 (Surr)	50.000	55.282	-10.6	138	0.00
3 T	Decalin	50.000	47.475	5.0	114	-0.01
4 T	Naphthalene	50.000	48.837	2.3	121	-0.01
5 T	2-Methylnaphthalene	50.000	45.420	9.2	109	0.00
6 T	1-Methylnaphthalene	50.000	46.386	7.2	109	0.00
7 T	1,1'-Biphenyl	50.000	45.123	9.8	109	0.00
8 T	2,6-Dimethylnaphthalene	50.000	45.337	9.3	107	0.00
9 I	Acenaphthene-d10 (ISTD)	100.000	100.000	0.0	110	0.00
10 S	2-Fluorobiphenyl (Surr)	50.000	49.846	0.3	110	0.00
11 S	Acenaphthylene d-8 (Surr)	50.000	47.491	5.0	106	0.00
12 T	Acenaphthylene	50.000	49.255	1.5	108	0.00
13 T	Acenaphthene	50.000	49.293	1.4	110	0.00
14 T	Dibenzofuran	50.000	50.240	-0.5	110	0.00
15 T	1,6,7-Trimethylnaphthalene	50.000	48.440	3.1	108	0.00
16 T	Fluorene	50.000	50.309	-0.6	111	0.00
17 I	Phenanthrene-d10 (ISTD)	100.000	100.000	0.0	113	0.00
18 T	Dibenzothiopene	50.000	49.820	0.4	114	0.00
19 T	Phenanthrene	50.000	49.399	1.2	113	0.00
20 T	Anthracene	50.000	49.015	2.0	112	0.00
21 T	Carbazole	50.000	47.952	4.1	109	-0.02
22 T	1-Methylphenanthrene	50.000	51.191	-2.4	116	0.00
23 T	Fluoranthene	50.000	50.768	-1.5	115	0.00
24 I	Chrysene-d12 (ISTD)	100.000	100.000	0.0	126	0.00
25 T	Pyrene	50.000	45.253	9.5	114	0.00
26 S	Terphenyl-d14 (Surr)	50.000	48.163	3.7	123	0.00
27 T	Benz(a)anthracene	50.000	46.032	7.9	123	0.00
28 T	Chrysene	50.000	48.604	2.8	125	0.00
29 I	Perylene-d12 (ISTD)	100.000	100.000	0.0	127	0.00
30 T	Benzo(b)fluoranthene	50.000	49.399	1.2	125	0.00
31 T	Benzo(k)fluoranthene	50.000	49.877	0.2	129	0.00
32 T	Benzo(b+k)fluoranthene	100.000	99.459	0.5	127	0.00
33 S	Benzo(a)pyrene d-12 (Surr)	50.000	52.417	-4.8	132	0.00
34 T	Benzo(e)pyrene	50.000	47.899	4.2	124	0.00
35 T	Benzo(a)pyrene	50.000	51.062	-2.1	128	0.00
36 T	Perylene	50.000	49.857	0.3	127	0.00
37 I	Dibenz(a,h)Anthracene-d14 (IS	100.000	100.000	0.0	146	0.00
38 T	Indeno(1,2,3-cd)Pyrene	50.000	46.482	7.0	136	0.00
39 T	Dibenz(a,h)anthracene	50.000	48.781	2.4	144	0.00
40 T	Benzo(g,h,i)perylene	50.000	46.459	7.1	133	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Quantitation Report (Not Reviewed)

Data Path : U:\data\2019-09\9I27028\
 Data File : N09271902.D
 Acq On : 27 Sep 2019 10:38 am
 Operator :
 Sample : 9I27028-CCV1
 Misc : 1x, A19I020@50
 ALS Vial : 2 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 15:55:25 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

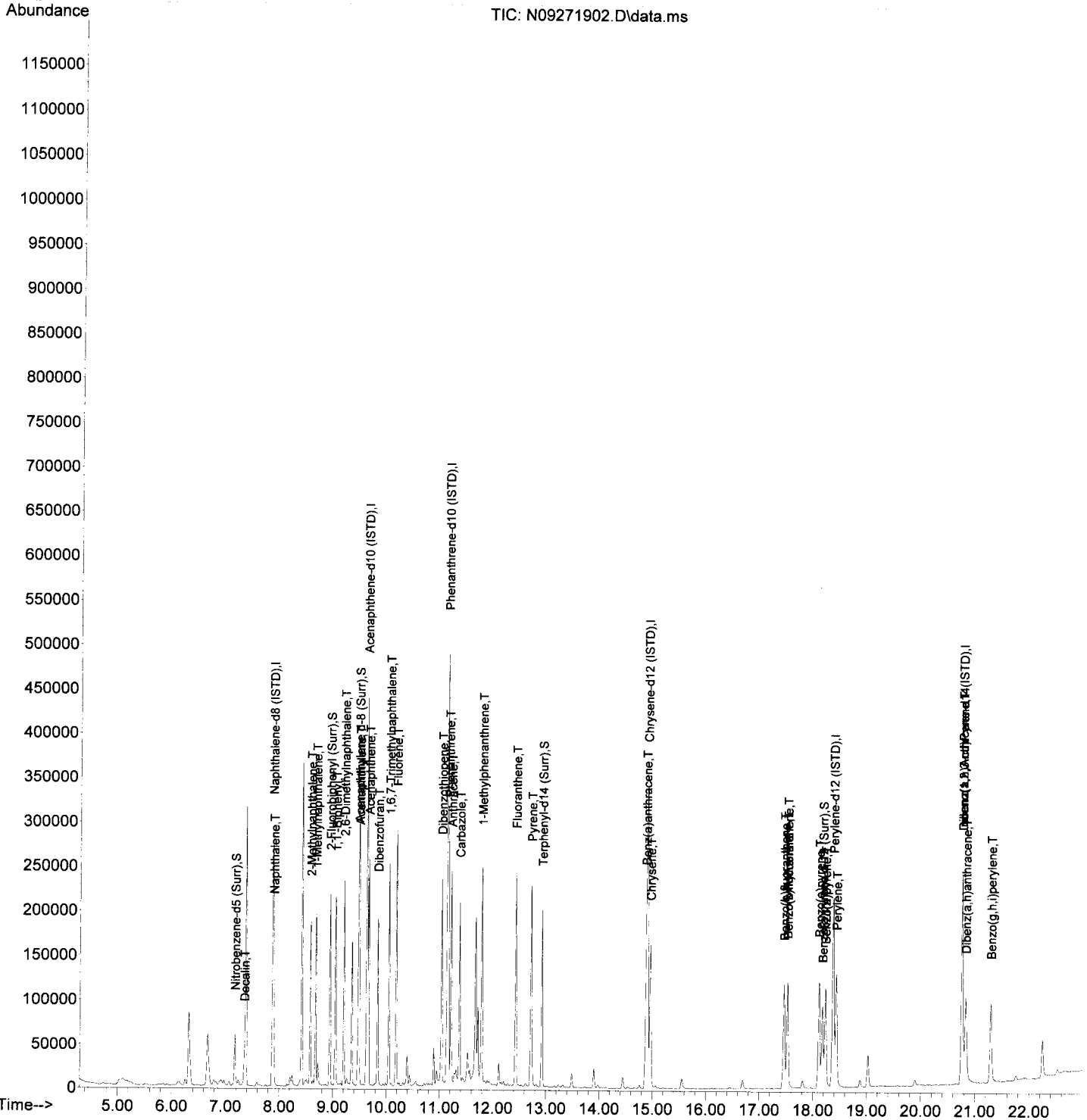
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	

Internal Standards							
1) Naphthalene-d8 (ISTD)	7.877	136	179849	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.632	162	129246	100.00	ng/ml	0.00	
17) Phenanthrene-d10 (ISTD)	11.141	188	247385	100.00	ng/ml	0.00	
24) Chrysene-d12 (ISTD)	14.901	240	214821	100.00	ng/ml	0.00	
29) Perylene-d12 (ISTD)	18.375	264	181129	100.00	ng/ml	0.00	
37) Dibenz(a,h)Anthracene-d...	20.759	292	135819	100.00	ng/ml	0.00	
System Monitoring Compounds							
2) Nitrobenzene-d5 (Surr)	7.178	82	33038	55.28	ng/ml	0.00	
10) 2-Fluorobiphenyl (Surr)	8.944	172	96111	49.85	ng/ml	0.00	
11) Acenaphthylene d-8 (Surr)	9.474	160	126234	47.49	ng/ml	0.00	
26) Terphenyl-d14 (Surr)	12.925	244	108815	48.16	ng/ml	0.00	
33) Benzo(a)pyrene d-12 (S...	18.177	264	75926	52.42	ng/ml	0.00	
Target Compounds							
							Qvalue
3) Decalin	7.353	138	6357	47.48	ng/ml		92
4) Naphthalene	7.895	128	96874	48.84	ng/ml		99
5) 2-Methylnaphthalene	8.583	142	76347	45.42	ng/ml		99
6) 1-Methylnaphthalene	8.682	142	77956	46.39	ng/ml		97
7) 1,1'-Biphenyl	9.049	154	102011	45.12	ng/ml		98
8) 2,6-Dimethylnaphthalene	9.206	156	74853	45.34	ng/ml		98
12) Acenaphthylene	9.492	152	138205	49.25	ng/ml		99
13) Acenaphthene	9.667	153	90592	49.29	ng/ml		99
14) Dibenzofuran	9.842	168	115650	50.24	ng/ml		98
15) 1,6,7-Trimethylnaphtha...	10.051	170	74661	48.44	ng/ml		99
16) Fluorene	10.185	166	94613	50.31	ng/ml		99
18) Dibenzothiopene	11.036	184	128902	49.82	ng/ml		97
19) Phenanthrene	11.165	178	143003	49.40	ng/ml		100
20) Anthracene	11.217	178	131980	49.01	ng/ml		100
21) Carbazole	11.374	167	104479	47.95	ng/ml		99
22) 1-Methylphenanthrene	11.794	192	102942	51.19	ng/ml		98
23) Fluoranthene	12.429	202	148071	50.77	ng/ml		98
25) Pyrene	12.721	202	151879	45.25	ng/ml		99
27) Benz(a)anthracene	14.878	228	114810	46.03	ng/ml		99
28) Chrysene	14.959	228	114717	48.60	ng/ml		99
30) Benzo(b)fluoranthene	17.460	252	103246	49.40	ng/ml		96
31) Benzo(k)fluoranthene	17.524	252	102637	49.88	ng/ml		96
32) Benzo(b+k)fluoranthene	17.524	252	212624	99.46	ng/ml		96
34) Benzo(e)pyrene	18.112	252	101228	47.90	ng/ml		97
35) Benzo(a)pyrene	18.229	252	91345	51.06	ng/ml		98
36) Perylene	18.433	252	109852	49.86	ng/ml		100
38) Indeno(1,2,3-cd)Pyrene	20.759	276	77860	46.48	ng/ml		88
39) Dibenz(a,h)anthracene	20.829	278	76779	48.78	ng/ml		88
40) Benzo(g,h,i)perylene	21.295	276	82554	46.46	ng/ml		87

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : U:\data\2019-09\9I27028\
Data File : N09271902.D
Acq On : 27 Sep 2019 10:38 am
Operator :
Sample : 9I27028-CCV1
Misc : 1x, A19I020@50
ALS Vial : 2 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 15:55:25 2019
Quant Method : U:\methods\SV14_090619_PAH.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Sep 09 14:58:53 2019
Response via : Initial Calibration
InstName : SV-GCMS14



Data Path : U:\data\2019-09\9I27028\
 Data File : N09271903.D
 Acq On : 27 Sep 2019 11:10 am
 Operator :
 Sample : 9I27028-CCB1
 Misc : 1x, DCM + ISTD
 ALS Vial : 3 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

John 9/27/19

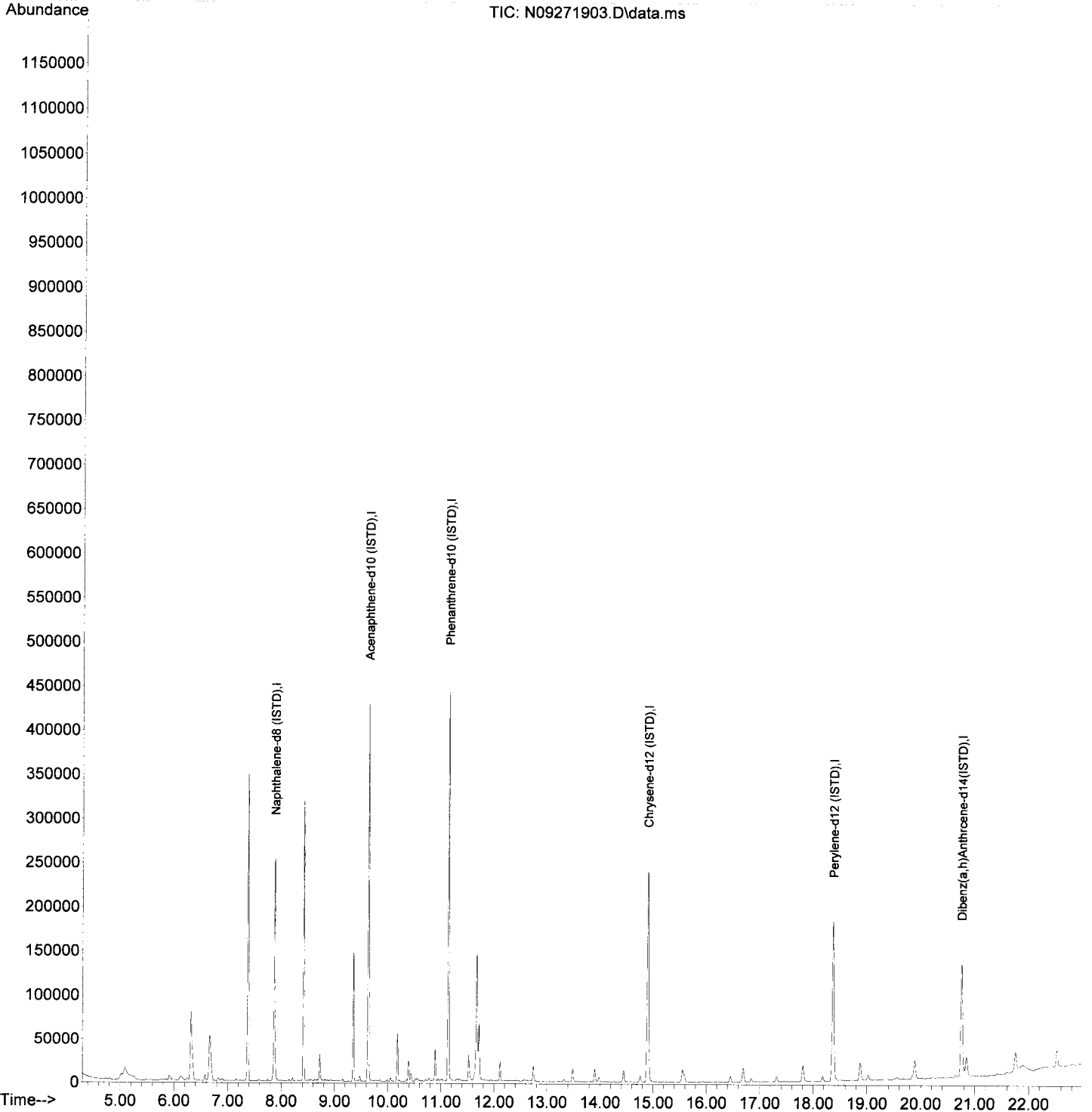
Quant Time: Sep 27 15:58:14 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Naphthalene-d8 (ISTD)	7.877	136	181973	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.632	162	124327	100.00	ng/ml	0.00	
17) Phenanthrene-d10 (ISTD)	11.141	188	230633	100.00	ng/ml	0.00	
24) Chrysene-d12 (ISTD)	14.895	240	178143	100.00	ng/ml	-0.01	
29) Perylene-d12 (ISTD)	18.369	264	149869	100.00	ng/ml	0.00	
37) Dibenz(a,h)Anthracene-d...	20.753	292	119425	100.00	ng/ml	-0.01	
System Monitoring Compounds							
2) Nitrobenzene-d5 (Surr)	0.000	82	0	0.00	ng/ml		
10) 2-Fluorobiphenyl (Surr)	0.000	172	0	0.00	ng/ml		
11) Acenaphthylene d-8 (Surr)	9.474	160	3496	-1.00	ng/ml	0.00	
26) Terphenyl-d14 (Surr)	0.000	244	0	0.00	ng/ml		
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml		
Target Compounds							
3) Decalin	0.000		0	N.D.			Qvalue
4) Naphthalene	7.901	128	149	N.D.			
5) 2-Methylnaphthalene	0.000		0	N.D.			
6) 1-Methylnaphthalene	0.000		0	N.D.			
7) 1,1'-Biphenyl	9.049	154	51	N.D.			
8) 2,6-Dimethylnaphthalene	0.000		0	N.D.			
12) Acenaphthylene	9.492	152	285	N.D.			
13) Acenaphthene	0.000		0	N.D.			
14) Dibenzofuran	0.000		0	N.D.			
15) 1,6,7-Trimethylnaphtha...	0.000		0	N.D.			
16) Fluorene	0.000		0	N.D.			
18) Dibenzothiopene	0.000		0	N.D.			
19) Phenanthrene	11.165	178	336	N.D.			
20) Anthracene	11.217	178	68	N.D.			
21) Carbazole	11.375	167	156	N.D.			
22) 1-Methylphenanthrene	0.000		0	N.D.			
23) Fluoranthene	12.430	202	132	N.D.			
25) Pyrene	12.715	202	156	N.D.			
27) Benz(a)anthracene	14.895	228	572	N.D.			
28) Chrysene	14.953	228	65	N.D.			
30) Benzo(b)fluoranthene	0.000		0	N.D.			
31) Benzo(k)fluoranthene	0.000		0	N.D.			
32) Benzo(b+k)fluoranthene	0.000		0	N.D.			
34) Benzo(e)pyrene	18.369	252	518	N.D.			
35) Benzo(a)pyrene	0.000		0	N.D.			
36) Perylene	18.369	252	538	N.D.			
38) Indeno(1,2,3-cd)Pyrene	0.000		0	N.D.			
39) Dibenz(a,h)anthracene	0.000		0	N.D.			
40) Benzo(g,h,i)perylene	21.289	276	92	N.D.			

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : U:\data\2019-09\9I27028\
Data File : N09271903.D
Acq On : 27 Sep 2019 11:10 am
Operator :
Sample : 9I27028-CCB1
Misc : 1x, DCM + ISTD
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 15:58:14 2019
Quant Method : U:\methods\SV14_090619_PAH.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Sep 09 14:58:53 2019
Response via : Initial Calibration
InstName : SV-GCMS14



Data Path : U:\data\2019-09\9I27028\
 Data File : N09271904.D
 Acq On : 27 Sep 2019 11:42 am
 Operator :
 Sample : A9I0771-06@1000
 Misc : 1000x, 8270D LL PAH ONLY
 ALS Vial : 4 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Handwritten: Paul 9/27/19
 RR1

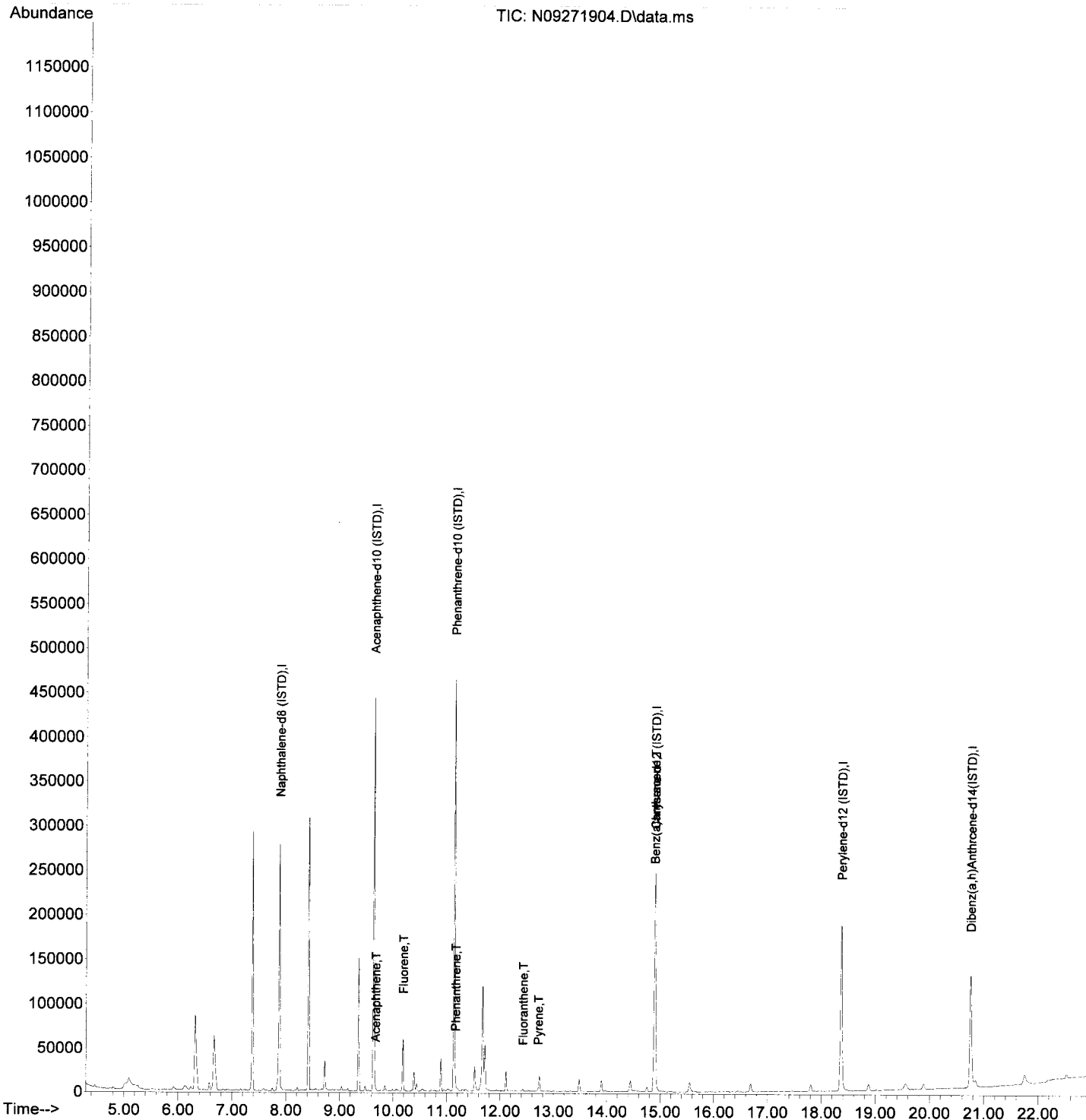
Quant Time: Sep 27 15:58:18 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Naphthalene-d8 (ISTD)	7.877	136	196948	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.632	162	131621	100.00	ng/ml	0.00	
17) Phenanthrene-d10 (ISTD)	11.141	188	245796	100.00	ng/ml	0.00	
24) Chrysene-d12 (ISTD)	14.895	240	184602	100.00	ng/ml	-0.01	
29) Perylene-d12 (ISTD)	18.369	264	154591	100.00	ng/ml	0.00	
37) Dibenz(a,h)Anthracene-d...	20.753	292	120542	100.00	ng/ml	-0.01	
System Monitoring Compounds							
2) Nitrobenzene-d5 (Surr)	7.195	82	84	0.13	ng/ml	0.01	
10) 2-Fluorobiphenyl (Surr)	8.944	172	133	0.07	ng/ml	0.00	
11) Acenaphthylene d-8 (Surr)	9.474	160	3608	-1.00	ng/ml	0.00	
26) Terphenyl-d14 (Surr)	12.925	244	170	0.09	ng/ml	0.00	
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml		
Target Compounds							
3) Decalin	0.000		0		N.D.		Qvalue
4) Naphthalene	7.895	128	669		N.D.		
5) 2-Methylnaphthalene	8.583	142	189		N.D.		
6) 1-Methylnaphthalene	8.682	142	95		N.D.		
7) 1,1'-Biphenyl	9.049	154	107		N.D.		
8) 2,6-Dimethylnaphthalene	9.218	156	64		N.D.		
12) Acenaphthylene	9.492	152	326		N.D.		
13) Acenaphthene	9.667	153	1279	0.68	ng/ml	96	
14) Dibenzofuran	9.842	168	152		N.D.		
15) 1,6,7-Trimethylnaphtha...	0.000		0		N.D.		
16) Fluorene	10.185	166	784	0.41	ng/ml	94	
18) Dibenzothiopene	11.036	184	294		N.D.		
19) Phenanthrene	11.165	178	3900	1.36	ng/ml	96	
20) Anthracene	11.217	178	776		N.D.		
21) Carbazole	11.375	167	62		N.D.		
22) 1-Methylphenanthrene	11.788	192	175		N.D.		
23) Fluoranthene	12.430	202	1710	0.59	ng/ml	91	
25) Pyrene	12.715	202	1846	0.64	ng/ml	95	
27) Benz(a)anthracene	14.889	228	989	0.46	ng/ml	89	
28) Chrysene	14.953	228	492		N.D.		
30) Benzo(b)fluoranthene	17.465	252	240		N.D.		
31) Benzo(k)fluoranthene	17.524	252	148		N.D.		
32) Benzo(b+k)fluoranthene	17.465	252	388		N.D.		
34) Benzo(e)pyrene	18.107	252	193		N.D.		
35) Benzo(a)pyrene	18.223	252	280		N.D.		
36) Perylene	18.427	252	106		N.D.		
38) Indeno(1,2,3-cd)Pyrene	20.753	276	186		N.D.		
39) Dibenz(a,h)anthracene	0.000		0		N.D.		
40) Benzo(g,h,i)perylene	21.301	276	120		N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : U:\data\2019-09\9I27028\
 Data File : N09271904.D
 Acq On : 27 Sep 2019 11:42 am
 Operator :
 Sample : A9I0771-06@1000
 Misc : 1000x, 8270D LL PAH ONLY
 ALS Vial : 4 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 15:58:18 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



Quantitation Report (Not Reviewed)

Data Path : U:\data\2019-09\9I27028\
 Data File : N09271905.D
 Acq On : 27 Sep 2019 12:14 pm
 Operator :
 Sample : A9I0771-01RE1@10000
 Misc : 10000x, #4, 5, 13, 19, 23, 25
 ALS Vial : 5 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

9/27/19

fm

Quant Time: Sep 27 15:58:22 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

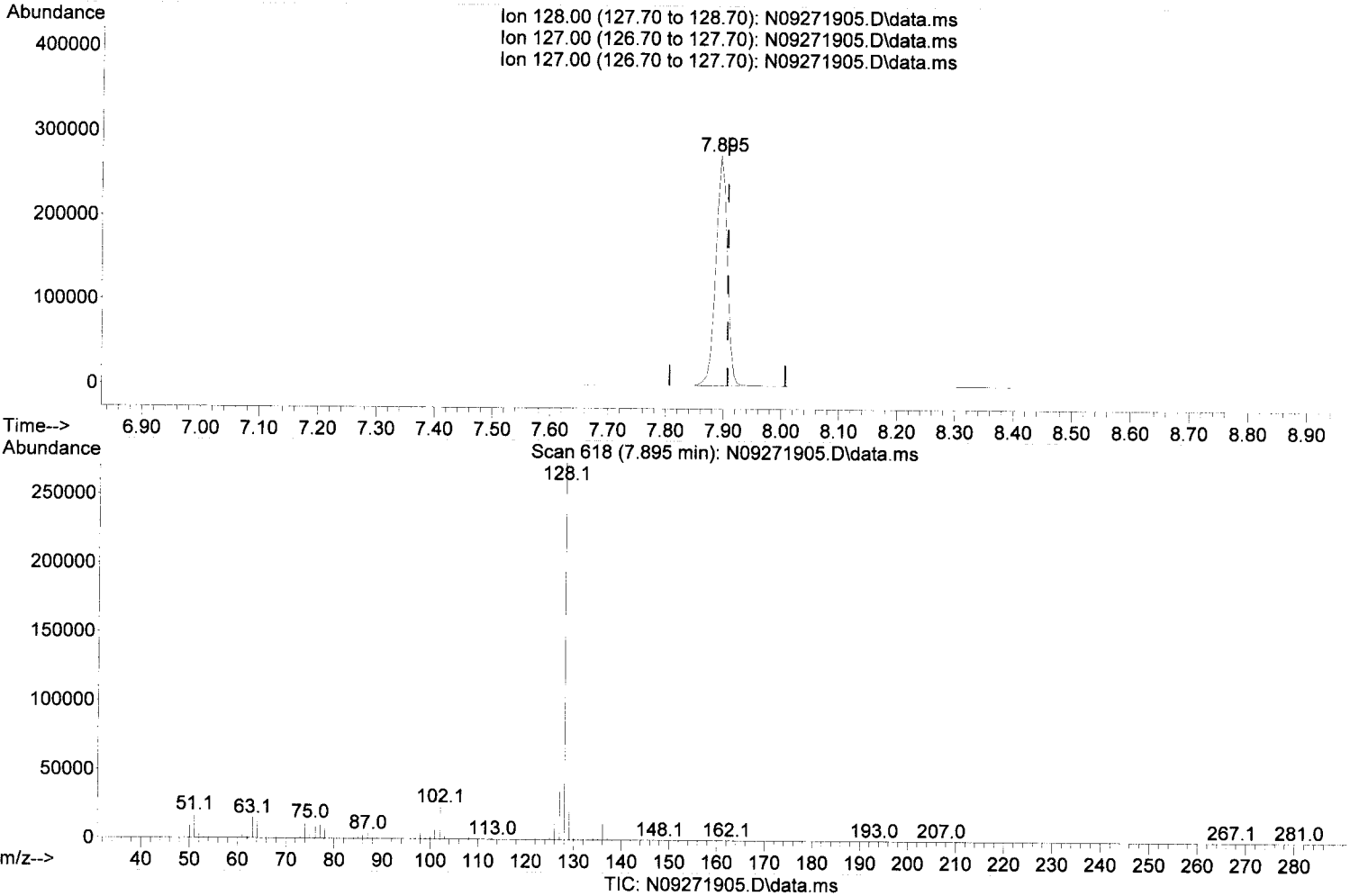
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.877	136	182402	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.632	162	130136	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.141	188	249656	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.895	240	205371	100.00	ng/ml	-0.01
29) Perylene-d12 (ISTD)	18.369	264	176270	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthracene-d...	20.759	292	135709	100.00	ng/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	0.000	82	0	0.00	ng/ml	
10) 2-Fluorobiphenyl (Surr)	8.944	172	63	0.03	ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	9.474	160	3338	-1.00	ng/ml	0.00
26) Terphenyl-d14 (Surr)	12.919	244	95	0.04	ng/ml	-0.01
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml	
Target Compounds						
3) Decalin	0.000		0	N.D.		Qvalue
4) Naphthalene	7.895	128	381849	189.81	ng/ml	100
5) 2-Methylnaphthalene	8.583	142	74461	43.68	ng/ml	98
6) 1-Methylnaphthalene	8.682	142	45469	26.68	ng/ml	98
7) 1,1'-Biphenyl	9.049	154	29937	13.06	ng/ml	99
8) 2,6-Dimethylnaphthalene	9.212	156	16990	10.15	ng/ml	98
12) Acenaphthylene	9.486	152	13009	4.60	ng/ml	94
13) Acenaphthene	9.667	153	84881	45.87	ng/ml	99
14) Dibenzofuran	9.842	168	7562	3.26	ng/ml	96
15) 1,6,7-Trimethylnaphtha...	10.051	170	5084	3.28	ng/ml	97
16) Fluorene	10.185	166	40043	21.15	ng/ml	98
18) Dibenzothiopene	11.036	184	37469	14.35	ng/ml	99
19) Phenanthrene	11.165	178	327272	112.03	ng/ml	100
20) Anthracene	11.217	178	55345	20.37	ng/ml	99
21) Carbazole	11.374	167	5657	2.57	ng/ml	97
22) 1-Methylphenanthrene	11.788	192	20003	9.86	ng/ml	98
23) Fluoranthene	12.429	202	166272	56.49	ng/ml	98
25) Pyrene	12.715	202	209463	65.28	ng/ml	99
27) Benz(a)anthracene	14.877	228	34536	14.48	ng/ml	76
28) Chrysene	14.953	228	43111	19.11	ng/ml	99
30) Benzo(b)fluoranthene	17.460	252	33399	16.42	ng/ml	96
31) Benzo(k)fluoranthene	17.460	252	40299	20.12	ng/ml	94
32) Benzo(b+k)fluoranthene	17.460	252	46462	22.33	ng/ml	94
34) Benzo(e)pyrene	18.107	252	22268	10.83	ng/ml	98
35) Benzo(a)pyrene	18.229	252	32698	18.78	ng/ml	98
36) Perylene	18.427	252	9657	4.50	ng/ml	95
38) Indeno(1,2,3-cd)Pyrene	20.753	276	21248	12.70	ng/ml	89
39) Dibenz(a,h)anthracene	20.817	278	2360	1.50	ng/ml	87
40) Benzo(g,h,i)perylene	21.289	276	25349	14.28	ng/ml	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I27028\
 Data File : N09271905.D
 Acq On : 27 Sep 2019 12:14 pm
 Operator :
 Sample : A9I0771-01RE1@10000
 Misc : 10000x, #4, 5, 13, 19, 23, 25
 ALS Vial : 5 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 15:58:22 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(4) Naphthalene (T)

7.895min (-0.012) 189.81 ng/ml

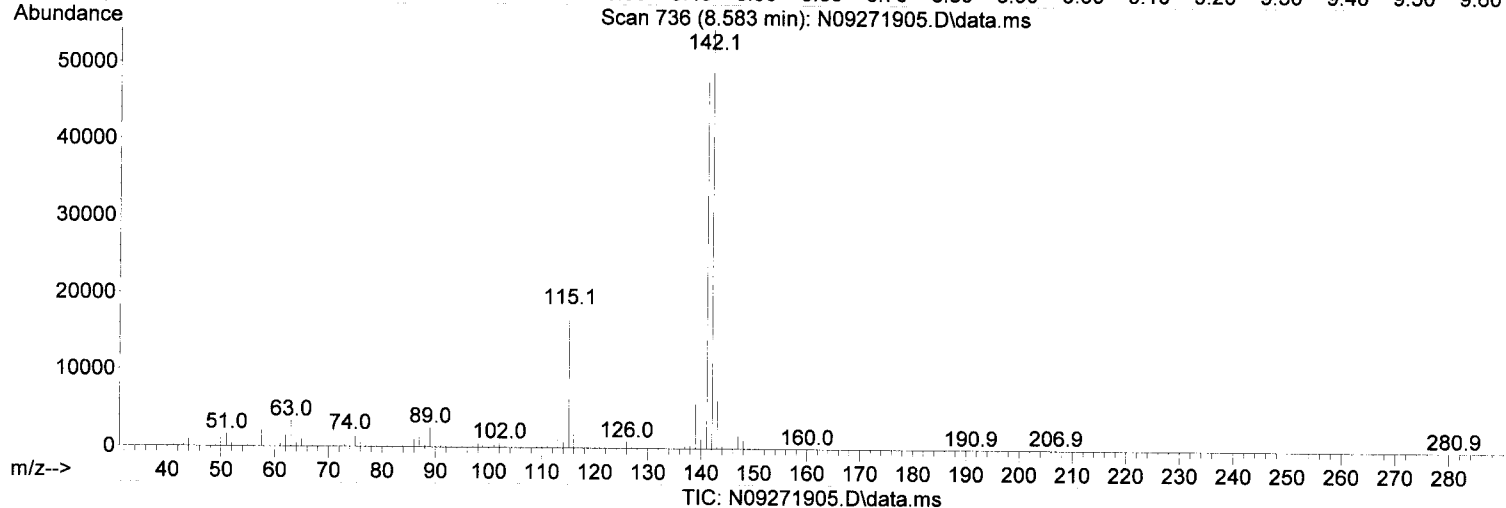
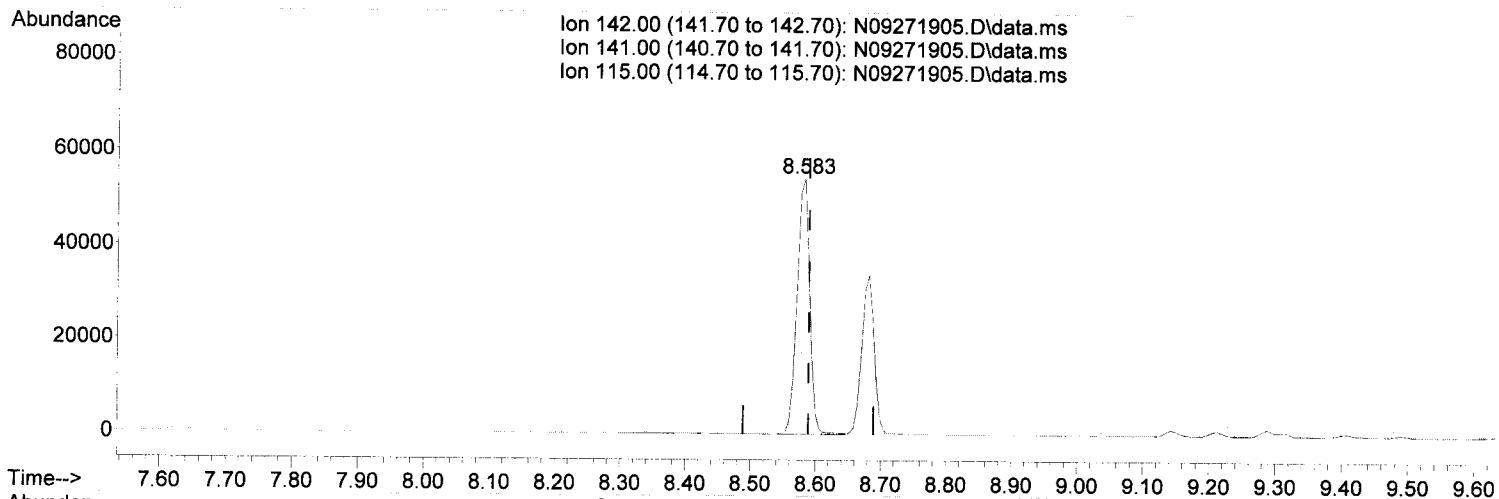
response 381849

Ion	Exp%	Act%
128.00	100.00	100.00
127.00	12.60	12.79
127.00	12.60	12.79
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I27028\
 Data File : N09271905.D
 Acq On : 27 Sep 2019 12:14 pm
 Operator :
 Sample : A9I0771-01RE1@10000
 Misc : 10000x, #4, 5, 13, 19, 23, 25
 ALS Vial : 5 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 15:58:22 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(5) 2-Methylnaphthalene (T)

8.583min (-0.006) 43.68 ng/ml

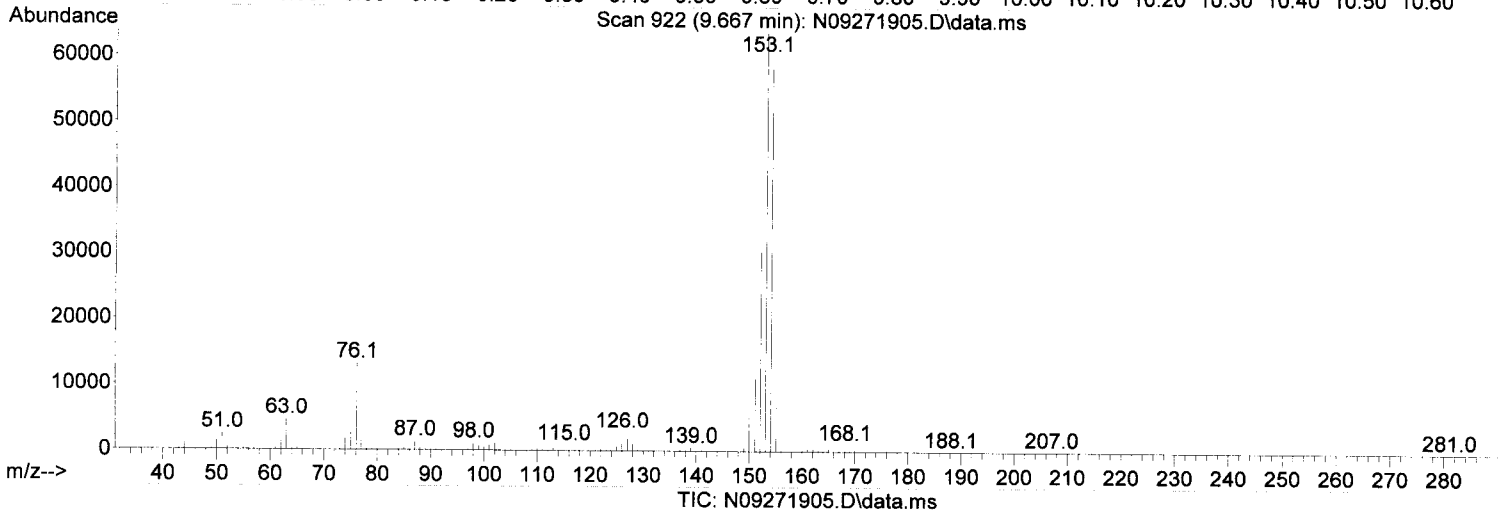
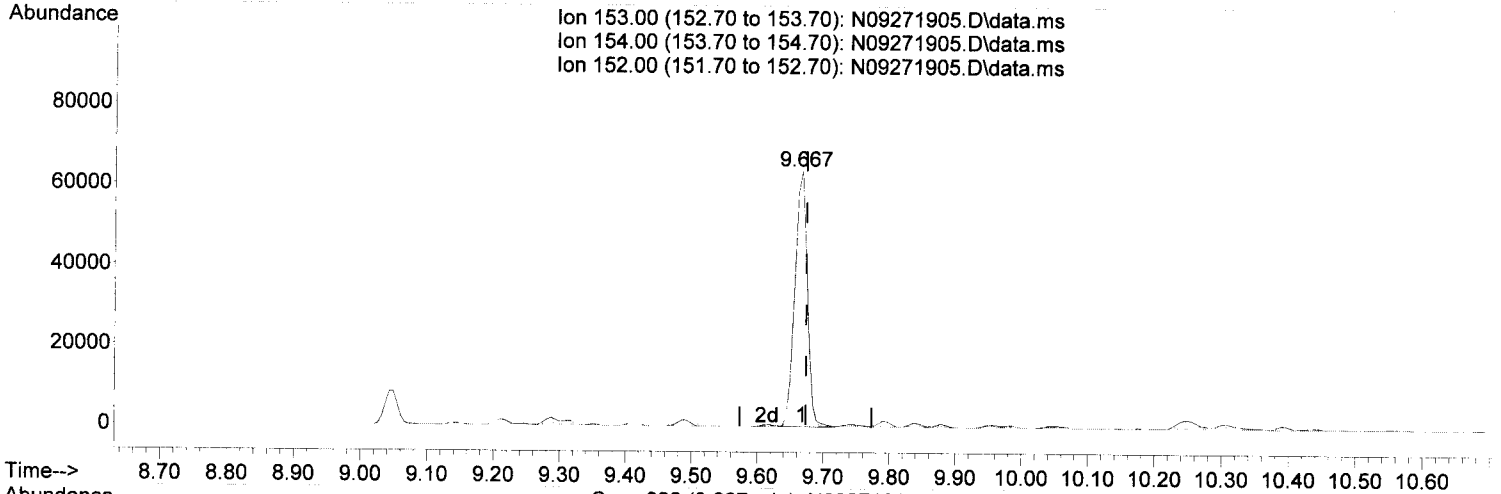
response 74461

Ion	Exp%	Act%
142.00	100.00	100.00
141.00	86.60	87.52
115.00	35.70	33.27
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I27028\
 Data File : N09271905.D
 Acq On : 27 Sep 2019 12:14 pm
 Operator :
 Sample : A9I0771-01RE1@10000
 Misc : 10000x, #4, 5, 13, 19, 23, 25
 ALS Vial : 5 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 15:58:22 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(13) Acenaphthene (T)

9.667min (-0.006) 45.87 ng/ml

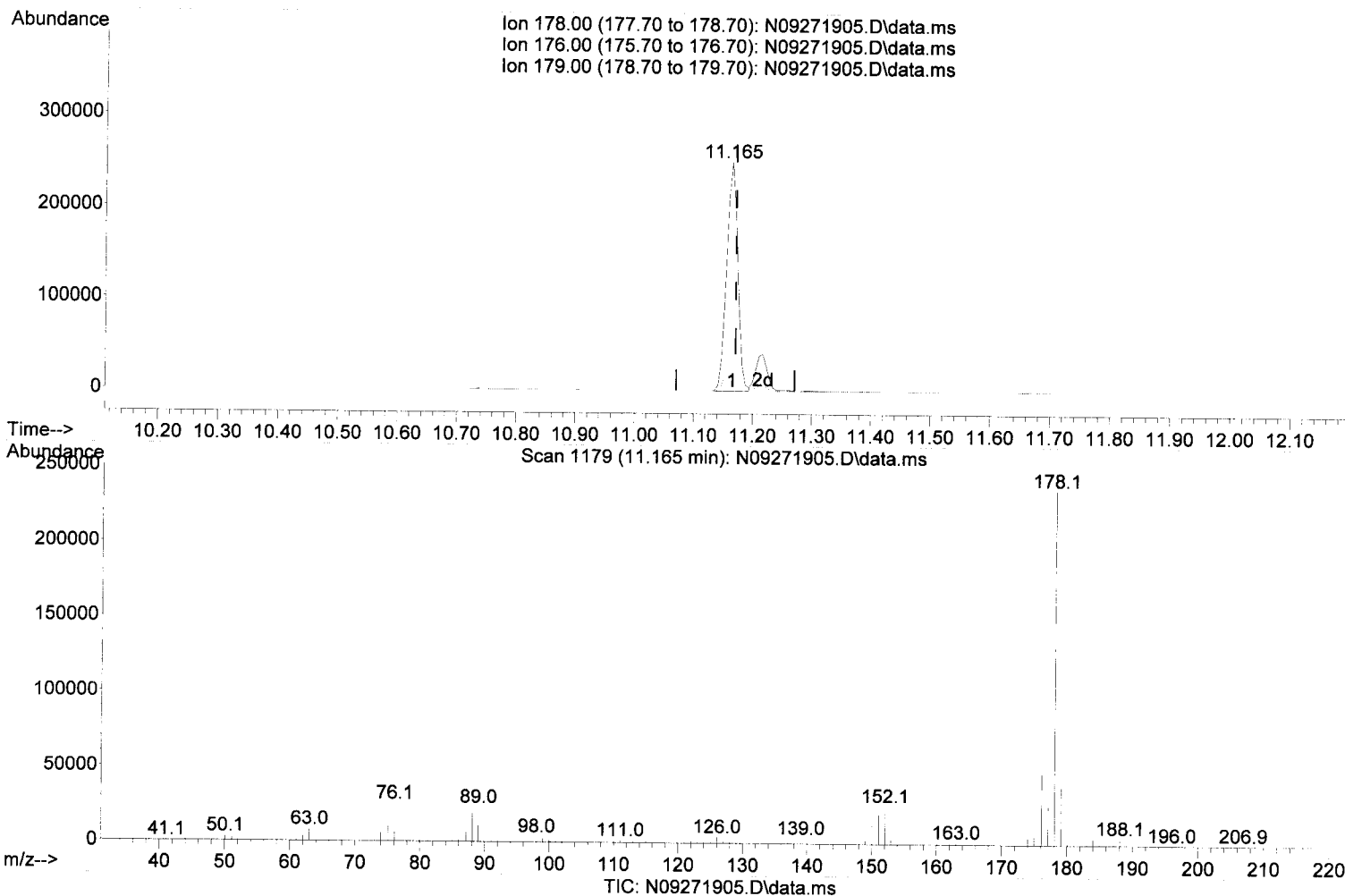
response 84881

Ion	Exp%	Act%
153.00	100.00	100.00
154.00	90.70	91.30
152.00	46.80	47.57
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I27028\
 Data File : N09271905.D
 Acq On : 27 Sep 2019 12:14 pm
 Operator :
 Sample : A9I0771-01RE1@10000
 Misc : 10000x, #4, 5, 13, 19, 23, 25
 ALS Vial : 5 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 15:58:22 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(19) Phenanthrene (T)

11.165min (-0.006) 112.03 ng/ml

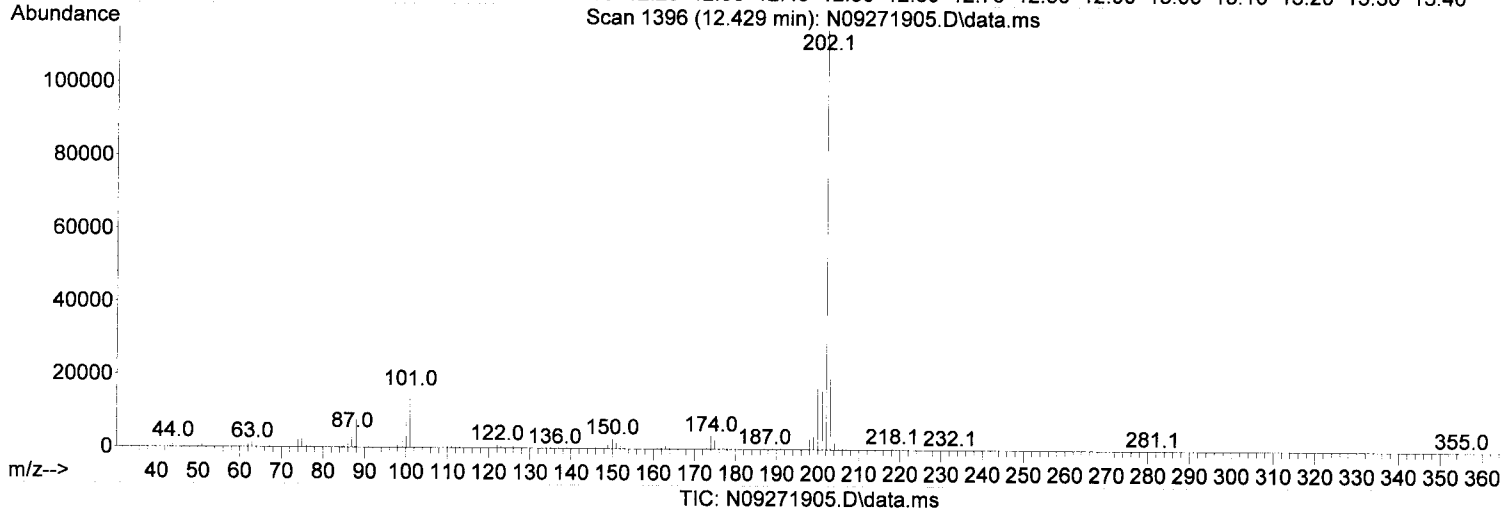
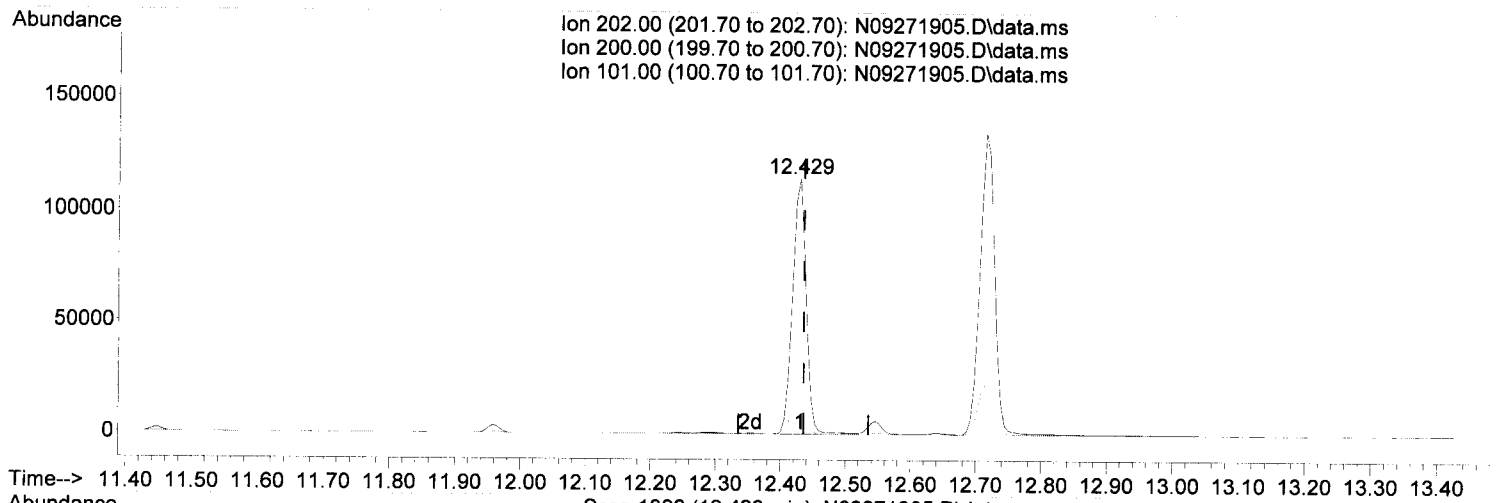
response 327272

Ion	Exp%	Act%
178.00	100.00	100.00
176.00	19.00	18.99
179.00	15.10	15.46
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I27028\
 Data File : N09271905.D
 Acq On : 27 Sep 2019 12:14 pm
 Operator :
 Sample : A9I0771-01RE1@10000
 Misc : 10000x, #4, 5, 13, 19, 23, 25
 ALS Vial : 5 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 15:58:22 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(23) Fluoranthene (T)

12.429min (-0.006) 56.49 ng/ml

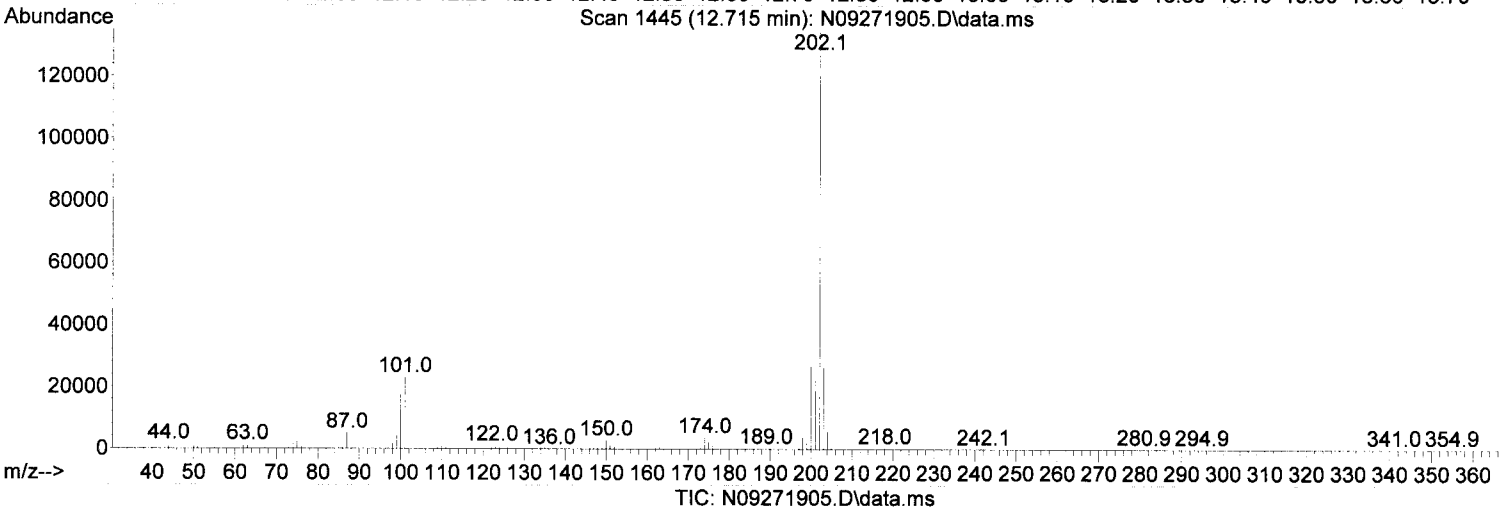
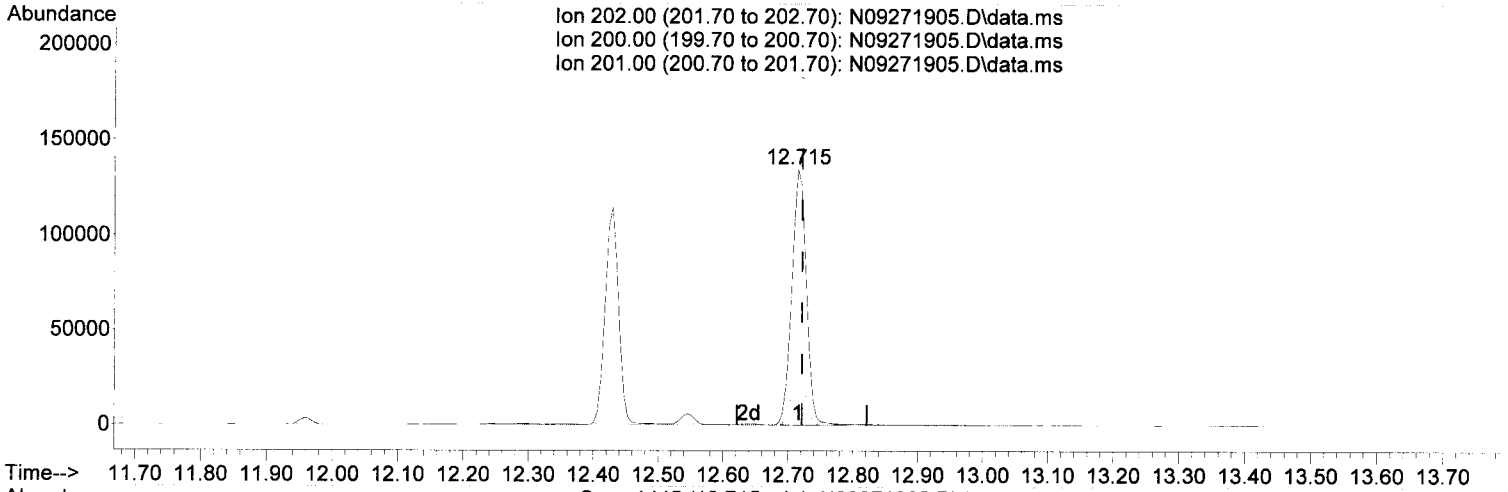
response 166272

Ion	Exp%	Act%
202.00	100.00	100.00
200.00	19.70	19.88
101.00	15.30	13.73
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I27028\
 Data File : N09271905.D
 Acq On : 27 Sep 2019 12:14 pm
 Operator :
 Sample : A9I0771-01RE1@10000
 Misc : 10000x, #4, 5, 13, 19, 23, 25
 ALS Vial : 5 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 15:58:22 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(25) Pyrene (T)

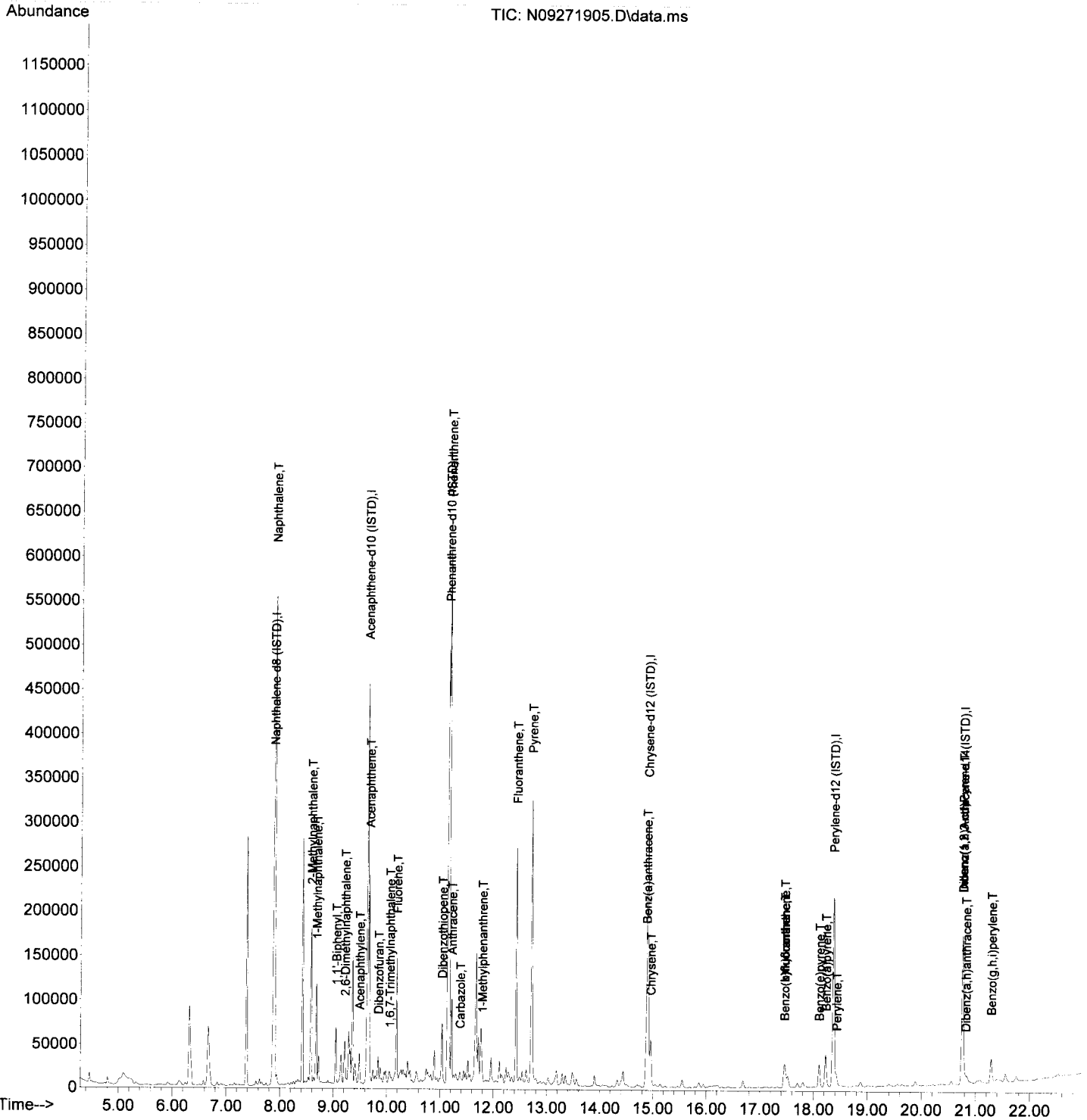
12.715min (-0.006) 65.28 ng/ml

response 209463

Ion	Exp%	Act%
202.00	100.00	100.00
200.00	20.70	20.02
201.00	16.80	16.81
0.00	0.00	0.00

Data Path : U:\data\2019-09\9I27028\
 Data File : N09271905.D
 Acq On : 27 Sep 2019 12:14 pm
 Operator :
 Sample : A9I0771-01RE1@10000
 Misc : 10000x, #4, 5, 13, 19, 23, 25
 ALS Vial : 5 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 15:58:22 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



Data Path : U:\data\2019-09\9I27028\
 Data File : N09271906.D
 Acq On : 27 Sep 2019 12:46 pm
 Operator :
 Sample : 9091304-DUP2@10000
 Misc : 10000x, #4, 5, 13, 19, 23, 25
 ALS Vial : 6 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Team 9/27/19

Quant Time: Sep 27 15:58:26 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

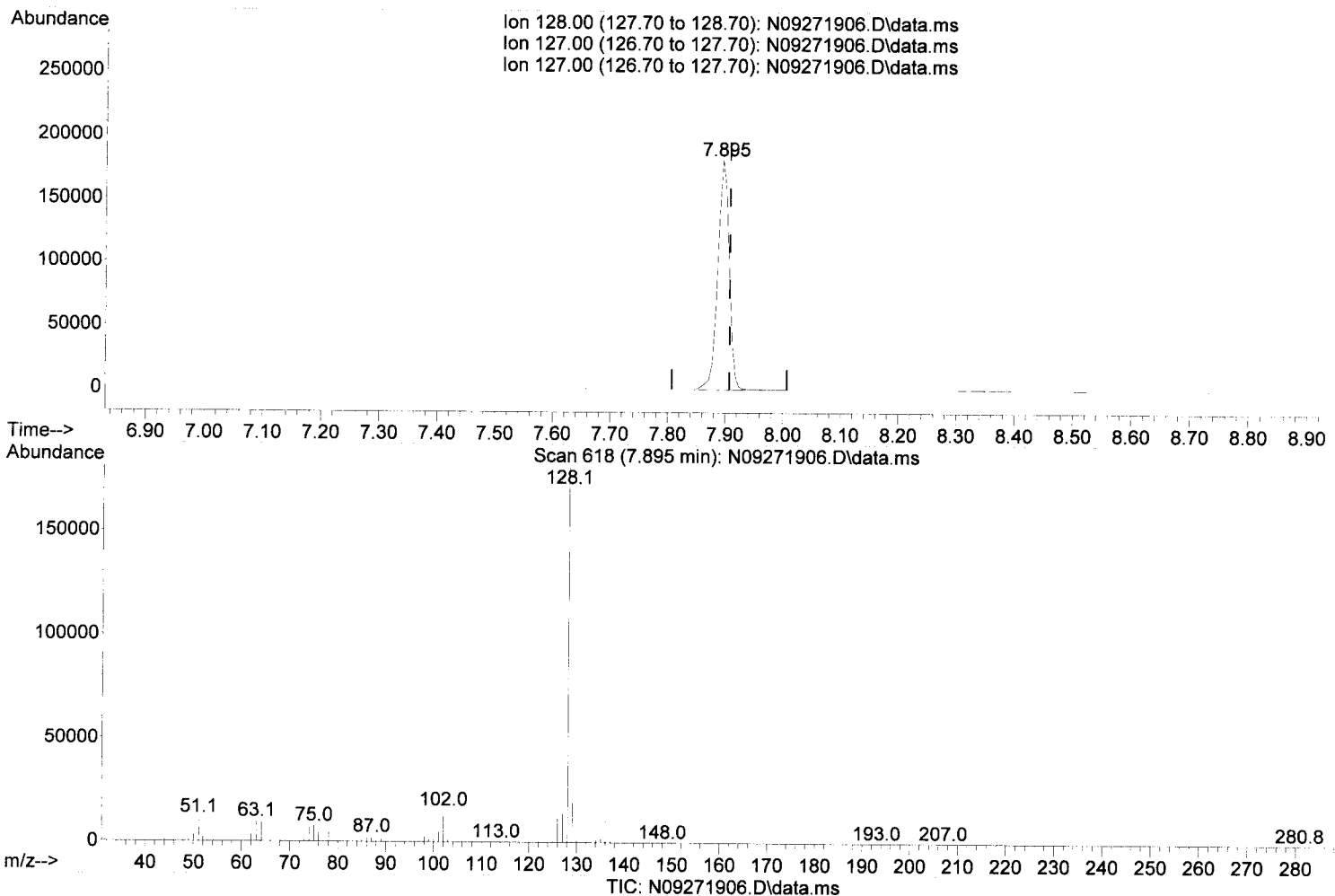
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.877	136	184721	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.632	162	133196	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.141	188	251875	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.901	240	203084	100.00	ng/ml	0.00
29) Perylene-d12 (ISTD)	18.369	264	175759	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthracene-d...	20.759	292	135611	100.00	ng/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.242	82	52	0.08	ng/ml	0.06
10) 2-Fluorobiphenyl (Surr)	0.000	172	0	0.00	ng/ml	
11) Acenaphthylene d-8 (Surr)	9.474	160	3467	-1.00	ng/ml	0.00
26) Terphenyl-d14 (Surr)	12.919	244	126	0.06	ng/ml	-0.01
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml	
Target Compounds						
3) Decalin	0.000		0	N.D.		Qvalue
4) Naphthalene	7.895	128	253893	124.62	ng/ml	100
5) 2-Methylnaphthalene	8.582	142	47888	27.74	ng/ml	98
6) 1-Methylnaphthalene	8.682	142	29557	17.12	ng/ml	98
7) 1,1'-Biphenyl	9.049	154	19133	8.24	ng/ml	98
8) 2,6-Dimethylnaphthalene	9.212	156	11478	6.77	ng/ml	95
12) Acenaphthylene	9.492	152	8644	2.99	ng/ml	95
13) Acenaphthene	9.667	153	59504	31.42	ng/ml	99
14) Dibenzofuran	9.841	168	5717	2.41	ng/ml	97
15) 1,6,7-Trimethylnaphtha...	10.051	170	3265	2.06	ng/ml	96
16) Fluorene	10.185	166	27681	14.28	ng/ml	99
18) Dibenzothiopene	11.036	184	25089	9.52	ng/ml	98
19) Phenanthrene	11.165	178	241410	81.91	ng/ml	100
20) Anthracene	11.217	178	42783	15.61	ng/ml	98
21) Carbazole	11.374	167	7011	3.16	ng/ml	96
22) 1-Methylphenanthrene	11.788	192	14117	6.89	ng/ml	97
23) Fluoranthene	12.429	202	164327	55.34	ng/ml	98
25) Pyrene	12.715	202	194926	61.44	ng/ml	100
27) Benz(a)anthracene	14.877	228	39950	16.94	ng/ml	86
28) Chrysene	14.953	228	47880	21.46	ng/ml	98
30) Benzo(b)fluoranthene	17.459	252	43480	21.44	ng/ml	96
31) Benzo(k)fluoranthene	17.459	252	54256	27.17	ng/ml	94
32) Benzo(b+k)fluoranthene	17.459	252	62839	30.29	ng/ml	94
34) Benzo(e)pyrene	18.106	252	26784	13.06	ng/ml	97
35) Benzo(a)pyrene	18.223	252	40367	23.25	ng/ml	97
36) Perylene	18.427	252	12480	5.84	ng/ml	98
38) Indeno(1,2,3-cd)Pyrene	20.753	276	25546	15.27	ng/ml	88
39) Dibenz(a,h)anthracene	20.817	278	2474	1.57	ng/ml	85
40) Benzo(g,h,i)perylene	21.289	276	29652	16.71	ng/ml	87

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I27028\
 Data File : N09271906.D
 Acq On : 27 Sep 2019 12:46 pm
 Operator :
 Sample : 9091304-DUP2@10000
 Misc : 10000x, #4, 5, 13, 19, 23, 25
 ALS Vial : 6 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 15:58:26 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(4) Naphthalene (T)

7.895min (-0.012) 124.62 ng/ml

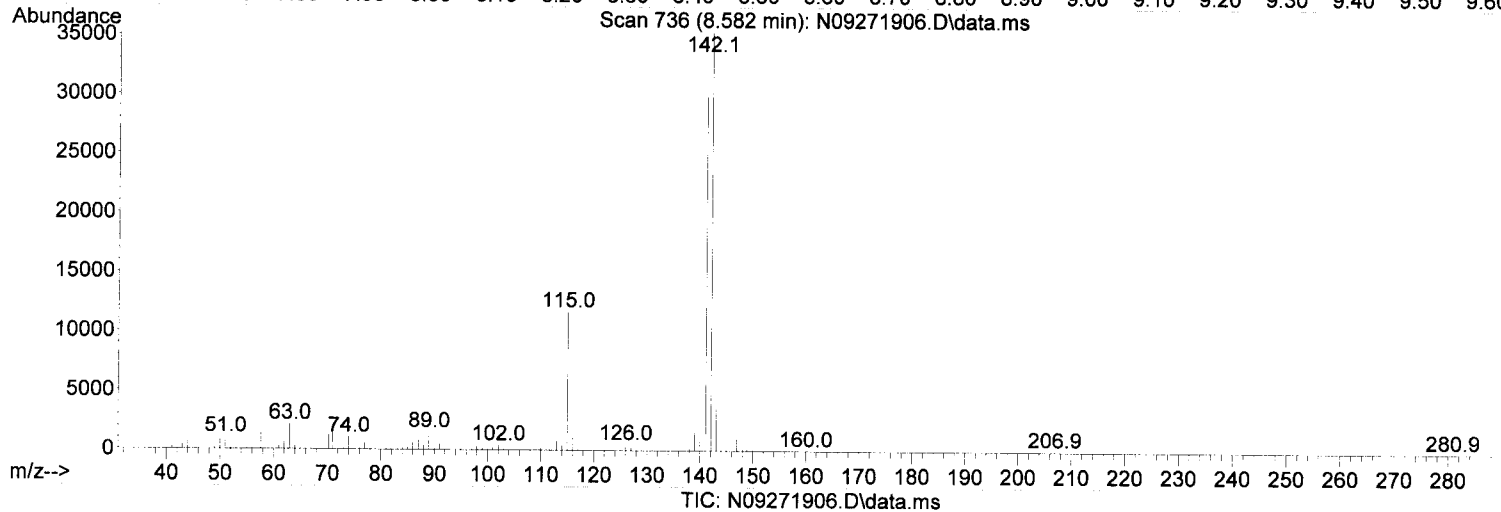
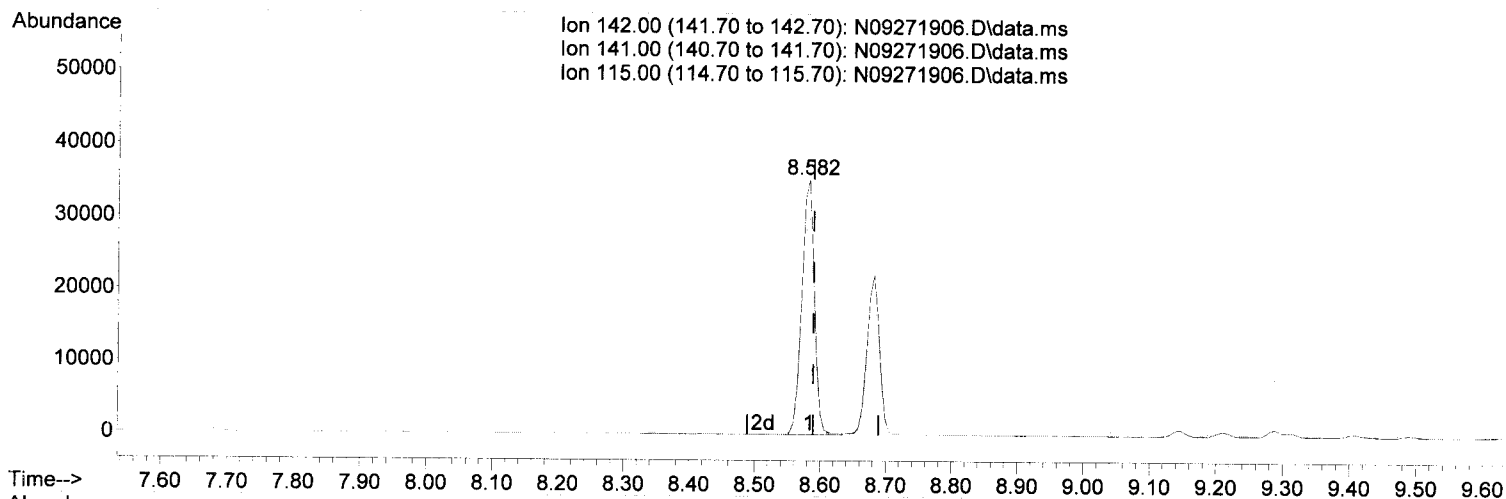
response 253893

Ion	Exp%	Act%
128.00	100.00	100.00
127.00	12.60	12.61
127.00	12.60	12.61
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I27028\
 Data File : N09271906.D
 Acq On : 27 Sep 2019 12:46 pm
 Operator :
 Sample : 9091304-DUP2@10000
 Misc : 10000x, #4, 5, 13, 19, 23, 25
 ALS Vial : 6 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 15:58:26 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(5) 2-Methylnaphthalene (T)

8.582min (-0.006) 27.74 ng/ml

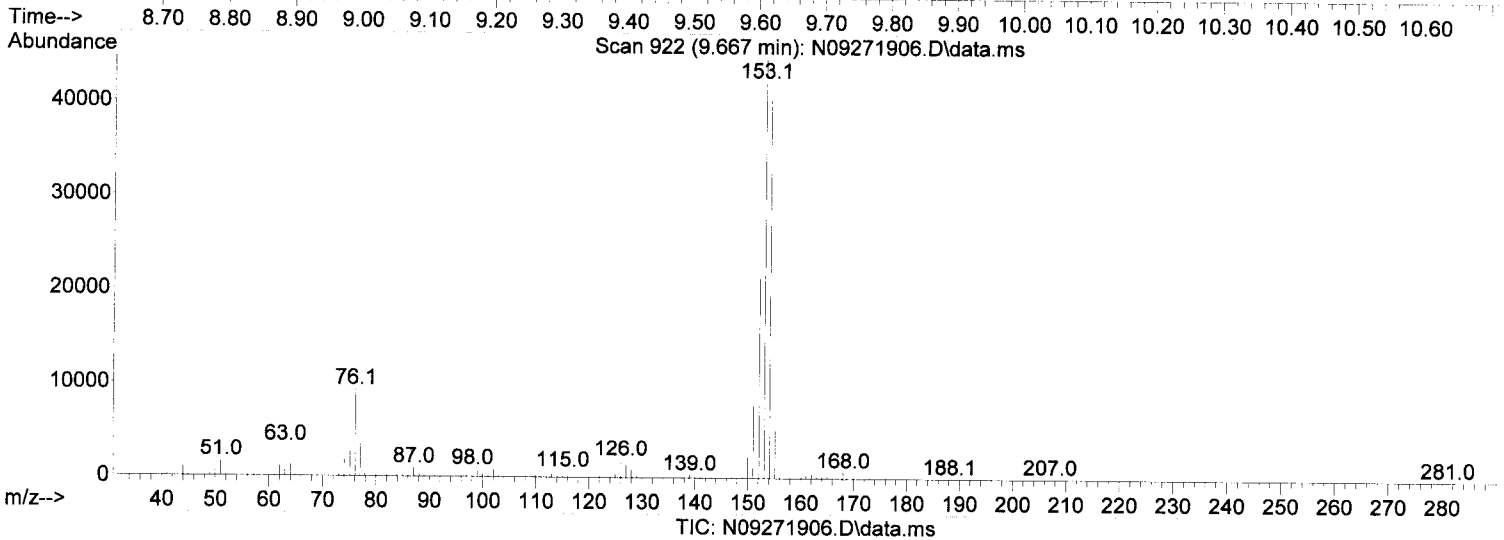
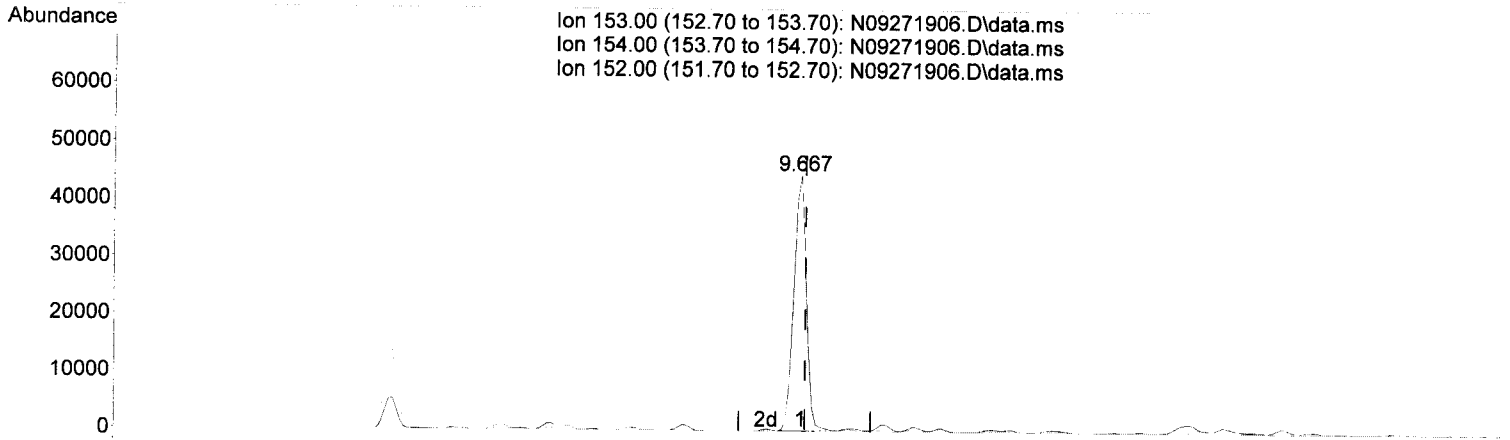
response 47888

Ion	Exp%	Act%
142.00	100.00	100.00
141.00	86.60	85.25
115.00	35.70	33.10
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I27028\
 Data File : N09271906.D
 Acq On : 27 Sep 2019 12:46 pm
 Operator :
 Sample : 9091304-DUP2@10000
 Misc : 10000x, #4, 5, 13, 19, 23, 25
 ALS Vial : 6 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 15:58:26 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(13) Acenaphthene (T)

9.667min (-0.006) 31.42 ng/ml

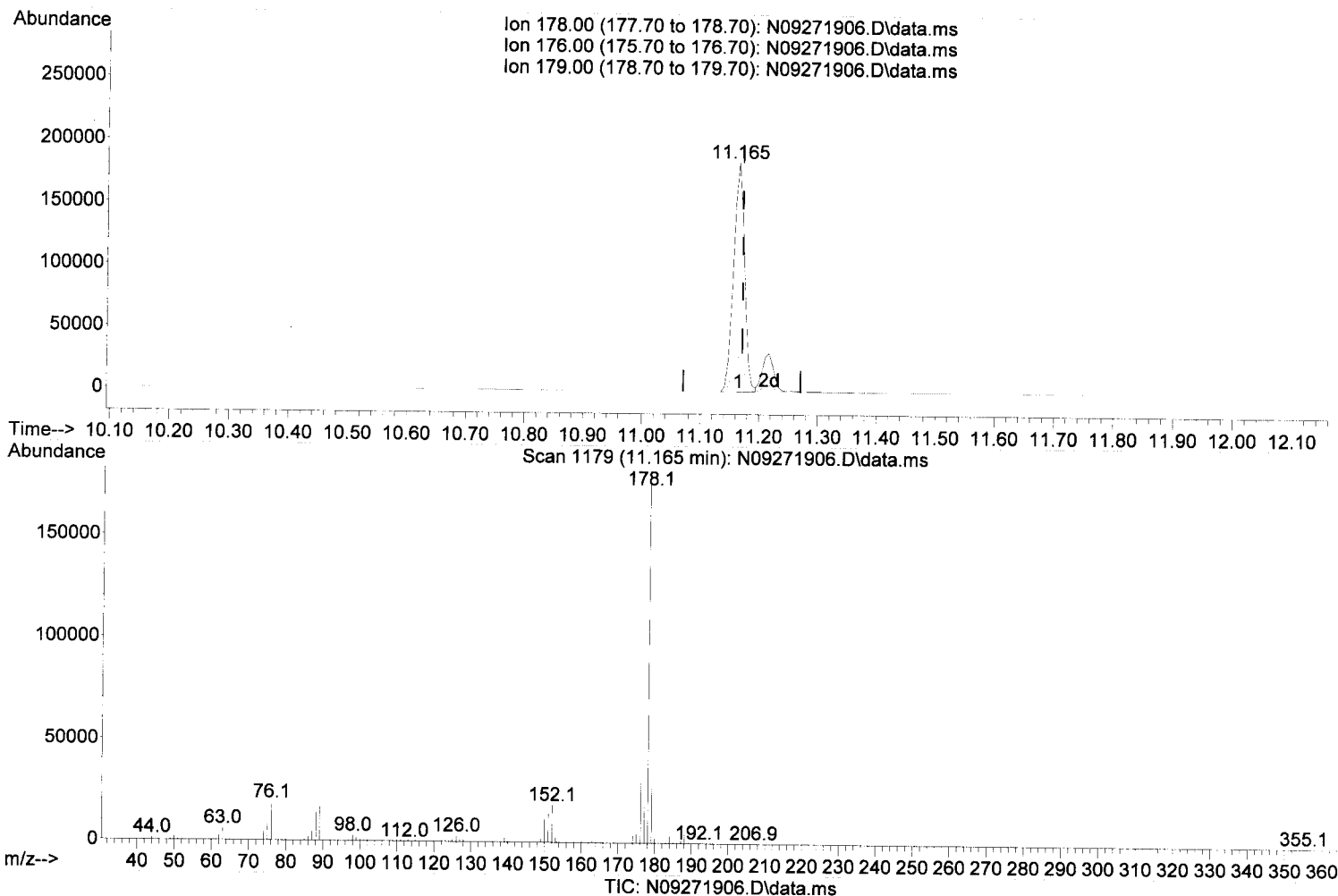
response 59504

Ion	Exp%	Act%
153.00	100.00	100.00
154.00	90.70	90.89
152.00	46.80	47.60
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I27028\
 Data File : N09271906.D
 Acq On : 27 Sep 2019 12:46 pm
 Operator :
 Sample : 9091304-DUP2@10000
 Misc : 10000x, #4, 5, 13, 19, 23, 25
 ALS Vial : 6 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 15:58:26 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(19) Phenanthrene (T)

11.165min (-0.006) 81.91 ng/ml

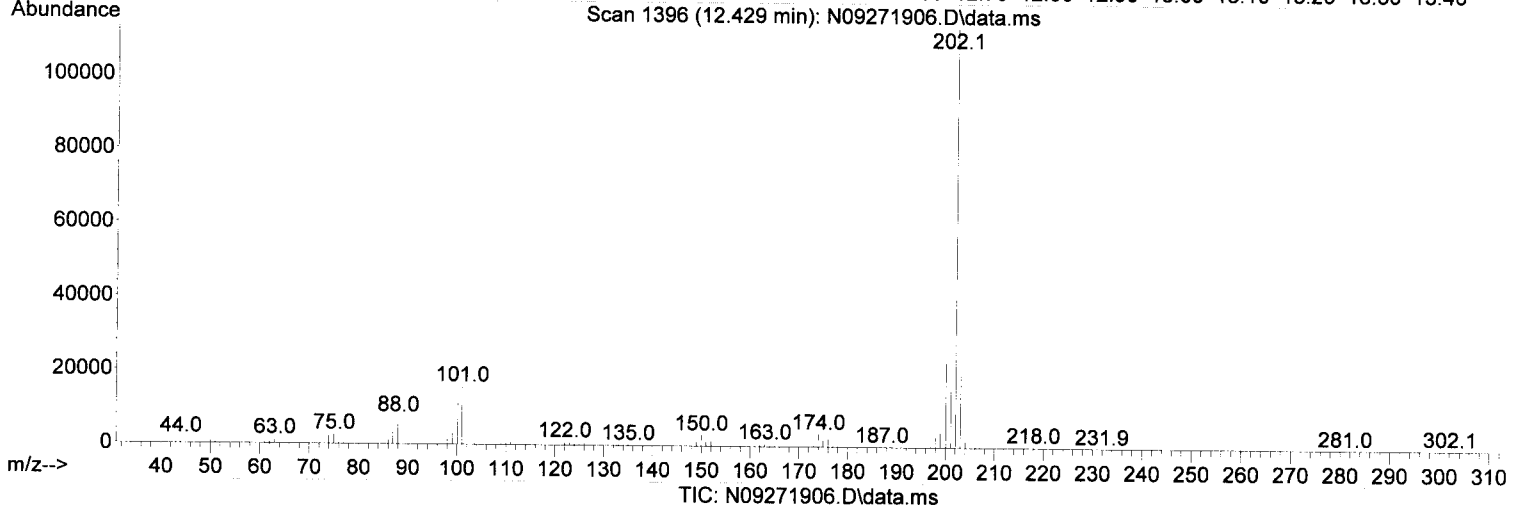
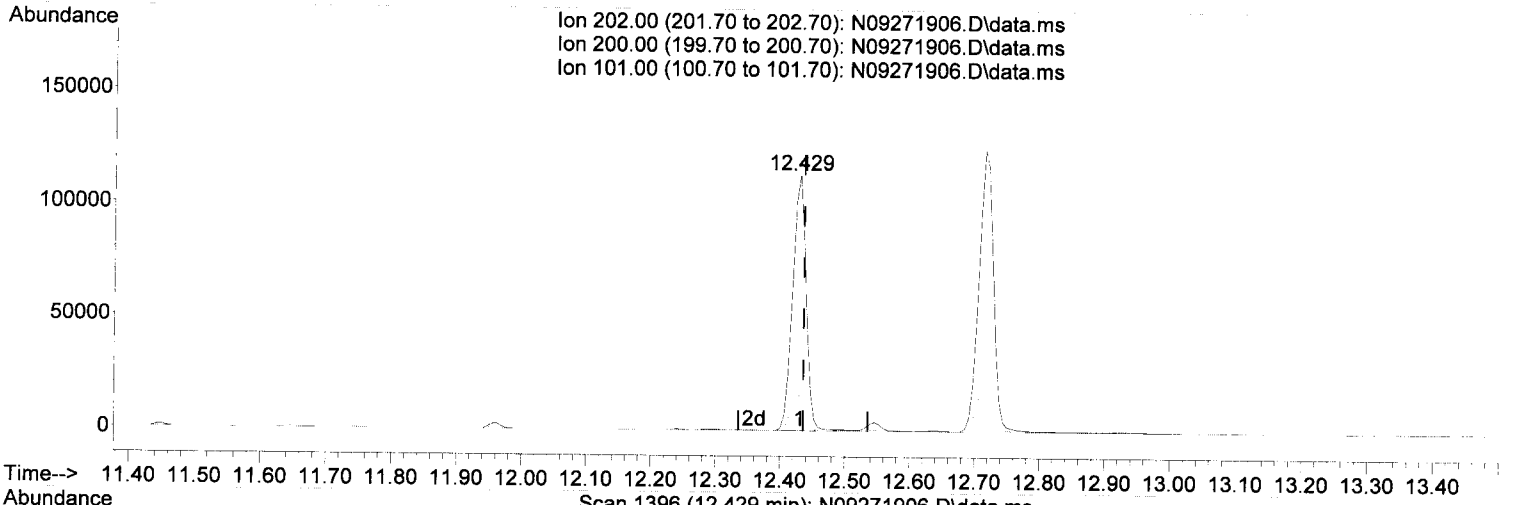
response 241410

Ion	Exp%	Act%
178.00	100.00	100.00
176.00	19.00	18.87
179.00	15.10	15.40
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I27028\
 Data File : N09271906.D
 Acq On : 27 Sep 2019 12:46 pm
 Operator :
 Sample : 9091304-DUP2@10000
 Misc : 10000x, #4, 5, 13, 19, 23, 25
 ALS Vial : 6 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 15:58:26 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(23) Fluoranthene (T)

12.429min (-0.006) 55.34 ng/ml

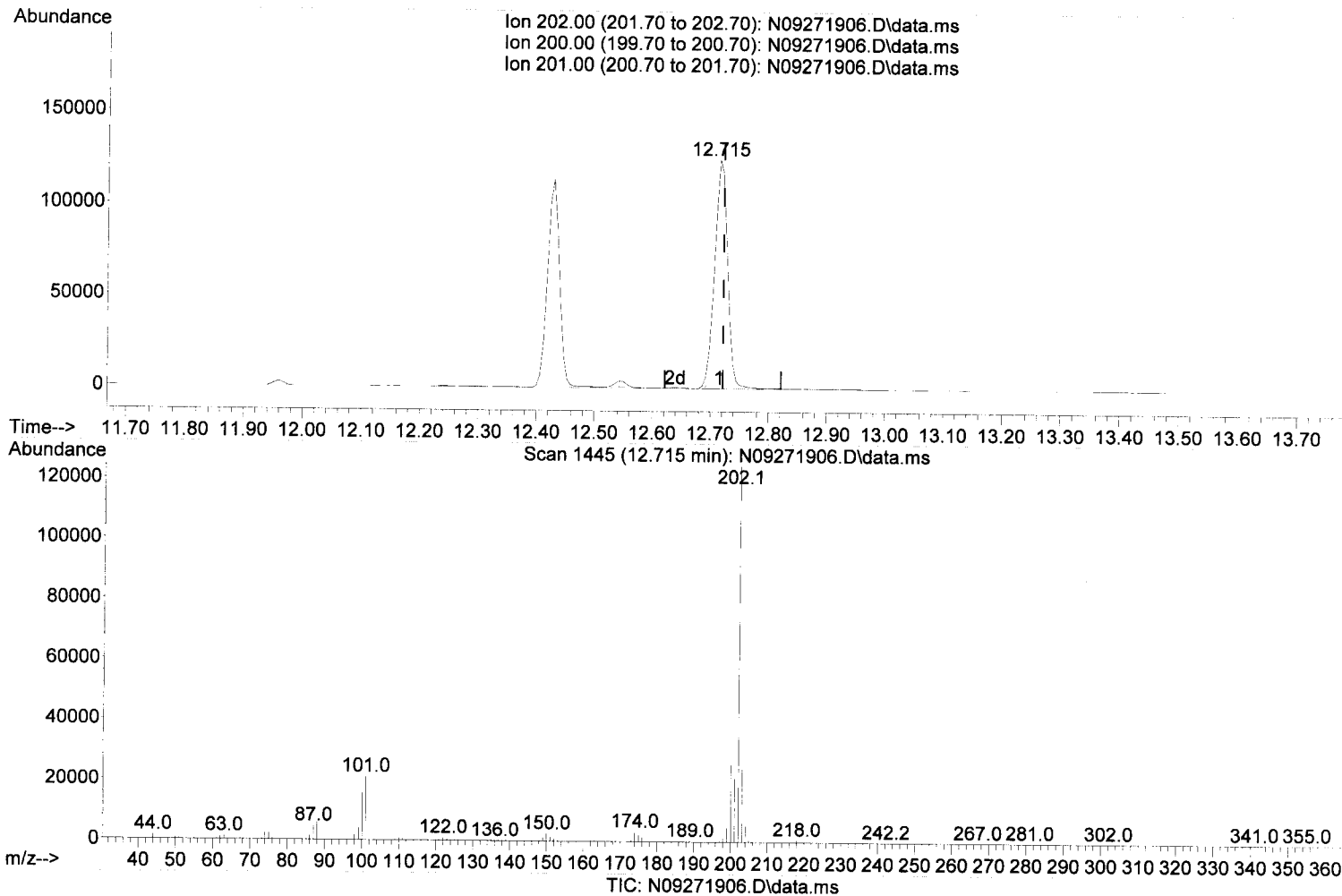
response 164327

Ion	Exp%	Act%
202.00	100.00	100.00
200.00	19.70	20.28
101.00	15.30	13.85
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I27028\
 Data File : N09271906.D
 Acq On : 27 Sep 2019 12:46 pm
 Operator :
 Sample : 9091304-DUP2@10000
 Misc : 10000x, #4, 5, 13, 19, 23, 25
 ALS Vial : 6 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 15:58:26 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(25) Pyrene (T)

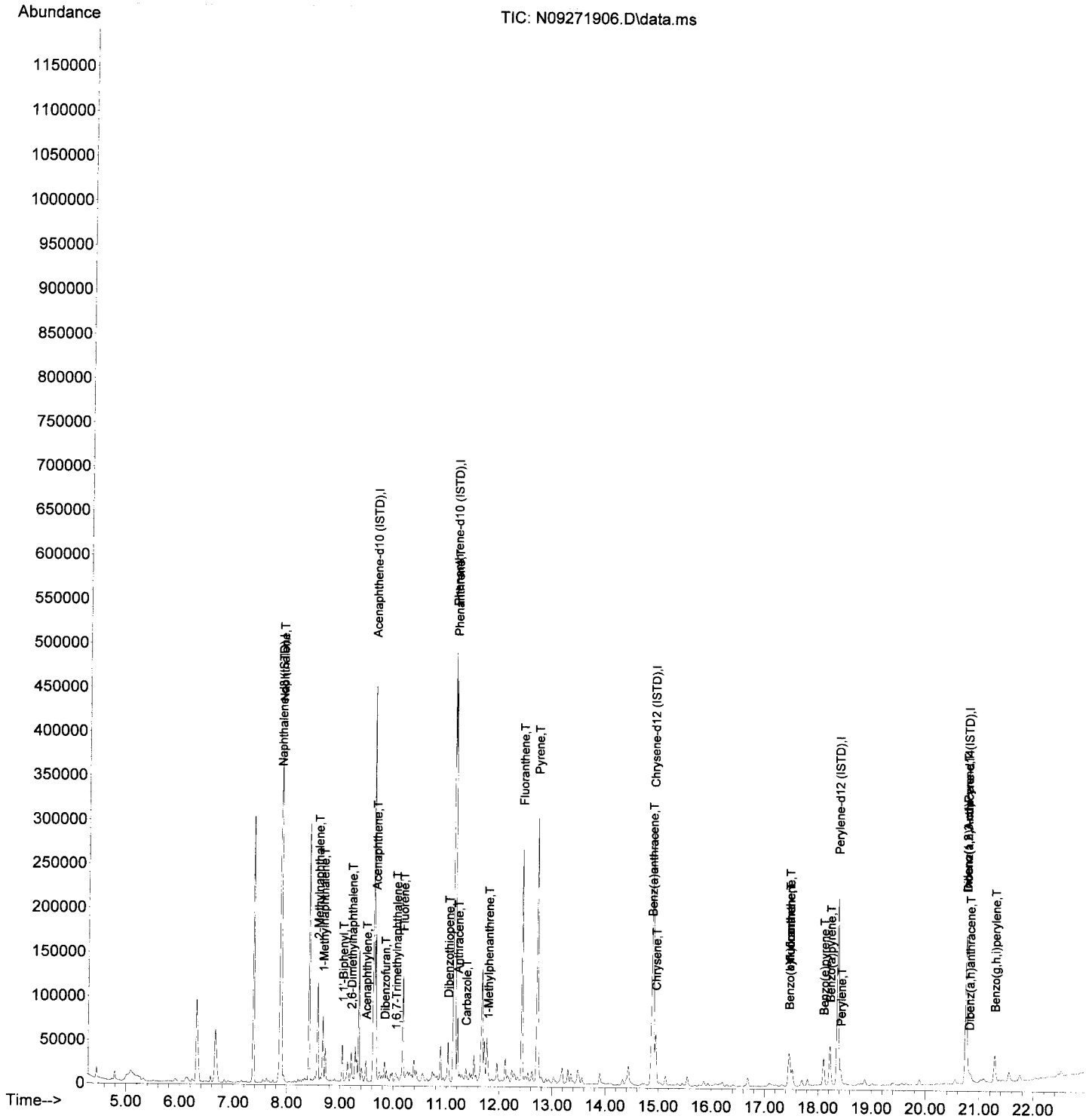
12.715min (-0.006) 61.44 ng/ml

response 194926

Ion	Exp%	Act%
202.00	100.00	100.00
200.00	20.70	20.64
201.00	16.80	16.87
0.00	0.00	0.00

Data Path : U:\data\2019-09\9I27028\
 Data File : N09271906.D
 Acq On : 27 Sep 2019 12:46 pm
 Operator :
 Sample : 9091304-DUP2@10000
 Misc : 10000x, #4, 5, 13, 19, 23, 25
 ALS Vial : 6 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 15:58:26 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



Data Path : U:\data\2019-09\9I27028\
 Data File : N09271907.D
 Acq On : 27 Sep 2019 01:18 pm
 Operator :
 Sample : A9I0771-02RE1@10000
 Misc : 10000x, #4, 19
 ALS Vial : 7 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

JEM 9/27/19

Quant Time: Sep 27 15:58:30 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

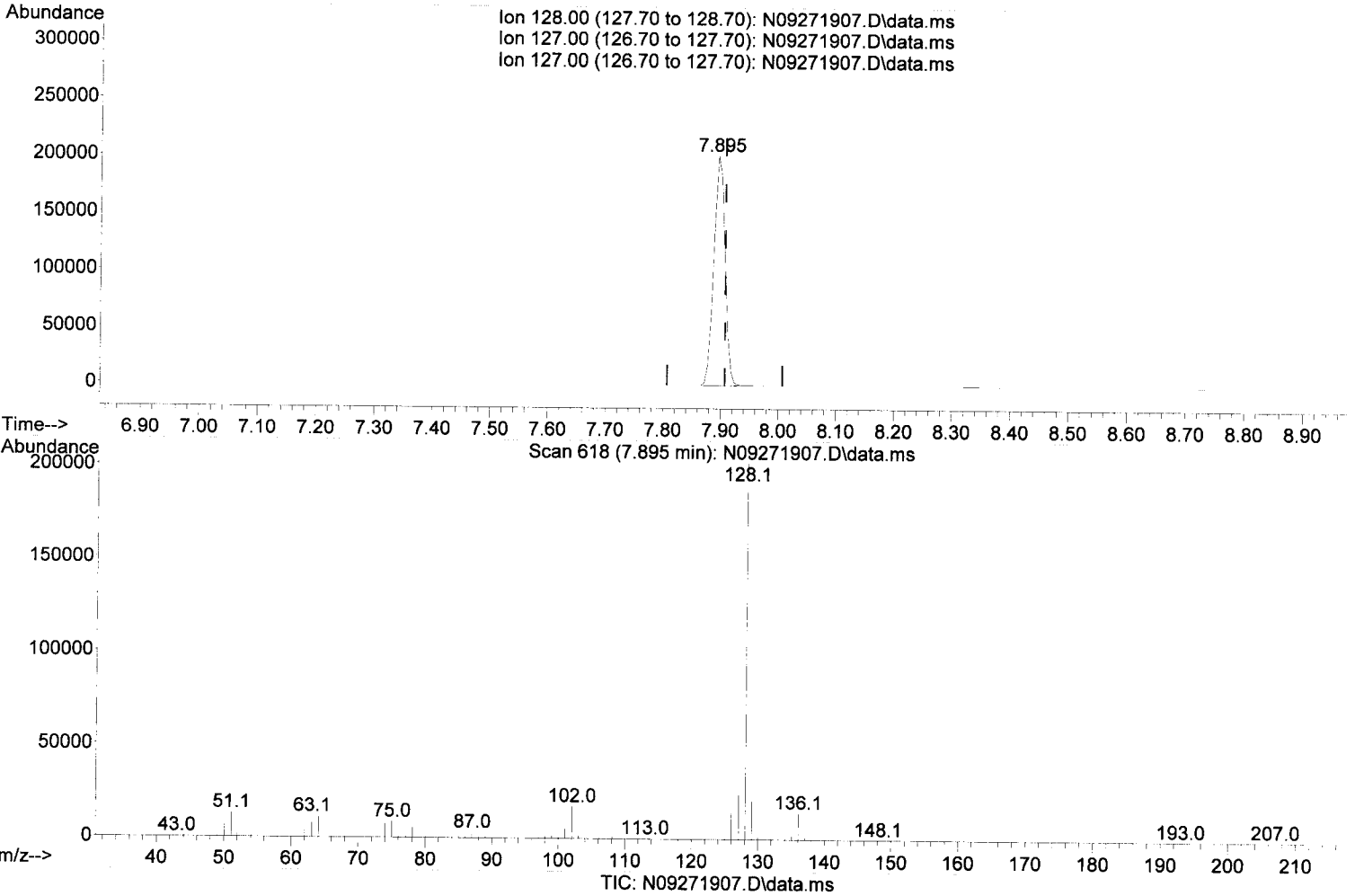
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Naphthalene-d8 (ISTD)	7.877	136	174302	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.632	162	128022	100.00	ng/ml	0.00	
17) Phenanthrene-d10 (ISTD)	11.141	188	238229	100.00	ng/ml	0.00	
24) Chrysene-d12 (ISTD)	14.901	240	183411	100.00	ng/ml	0.00	
29) Perylene-d12 (ISTD)	18.369	264	155509	100.00	ng/ml	0.00	
37) Dibenz(a,h)Anthracene-d...	20.759	292	117513	100.00	ng/ml	0.00	
System Monitoring Compounds							
2) Nitrobenzene-d5 (Surr)	7.254	82	63	0.11	ng/ml	0.07	
10) 2-Fluorobiphenyl (Surr)	0.000	172	0	0.00	ng/ml		
11) Acenaphthylene d-8 (Surr)	9.474	160	3846	0.04	ng/ml	0.00	
26) Terphenyl-d14 (Surr)	12.925	244	84	0.04	ng/ml	0.00	
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml		
Target Compounds							
3) Decalin	0.000		0	N.D.			Qvalue
4) Naphthalene	7.895	128	276165	143.65	ng/ml	100	
5) 2-Methylnaphthalene	8.583	142	35344	21.70	ng/ml	98	
6) 1-Methylnaphthalene	8.682	142	21897	13.44	ng/ml	98	
7) 1,1'-Biphenyl	9.049	154	14846	6.78	ng/ml	98	
8) 2,6-Dimethylnaphthalene	9.212	156	8807	5.50	ng/ml	96	
12) Acenaphthylene	9.492	152	7251	2.61	ng/ml	95	
13) Acenaphthene	9.667	153	44082	24.22	ng/ml	99	
14) Dibenzofuran	9.842	168	4031	1.77	ng/ml	93	
15) 1,6,7-Trimethylnaphtha...	10.051	170	2527	1.66	ng/ml	87	
16) Fluorene	10.185	166	20487	11.00	ng/ml	97	
18) Dibenzothiopene	11.036	184	18816	7.55	ng/ml	97	
19) Phenanthrene	11.165	178	167213	59.98	ng/ml	99	
20) Anthracene	11.217	178	26456	10.20	ng/ml	99	
21) Carbazole	11.374	167	2995	1.43	ng/ml	97	
22) 1-Methylphenanthrene	11.788	192	4654	2.40	ng/ml	97	
23) Fluoranthene	12.429	202	81628	29.06	ng/ml	97	
25) Pyrene	12.715	202	100644	35.12	ng/ml	100	
27) Benz(a)anthracene	14.877	228	16203	7.61	ng/ml	75	
28) Chrysene	14.953	228	19716	9.78	ng/ml	96	
30) Benzo(b)fluoranthene	17.460	252	15139	8.44	ng/ml	94	
31) Benzo(k)fluoranthene	17.460	252	18917	10.71	ng/ml	92	
32) Benzo(b+k)fluoranthene	17.460	252	21486	11.71	ng/ml	92	
34) Benzo(e)pyrene	18.107	252	10113	5.57	ng/ml	97	
35) Benzo(a)pyrene	18.229	252	14411	9.38	ng/ml	96	
36) Perylene	18.427	252	4851	2.56	ng/ml	98	
38) Indeno(1,2,3-cd)Pyrene	20.753	276	9406	6.49	ng/ml	95	
39) Dibenz(a,h)anthracene	20.817	278	1111	0.82	ng/ml	89	
40) Benzo(g,h,i)perylene	21.289	276	11326	7.37	ng/ml	86	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I27028\
 Data File : N09271907.D
 Acq On : 27 Sep 2019 01:18 pm
 Operator :
 Sample : A9I0771-02RE1@10000
 Misc : 10000x, #4, 19
 ALS Vial : 7 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 15:58:30 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(4) Naphthalene (T)

7.895min (-0.012) 143.65 ng/ml

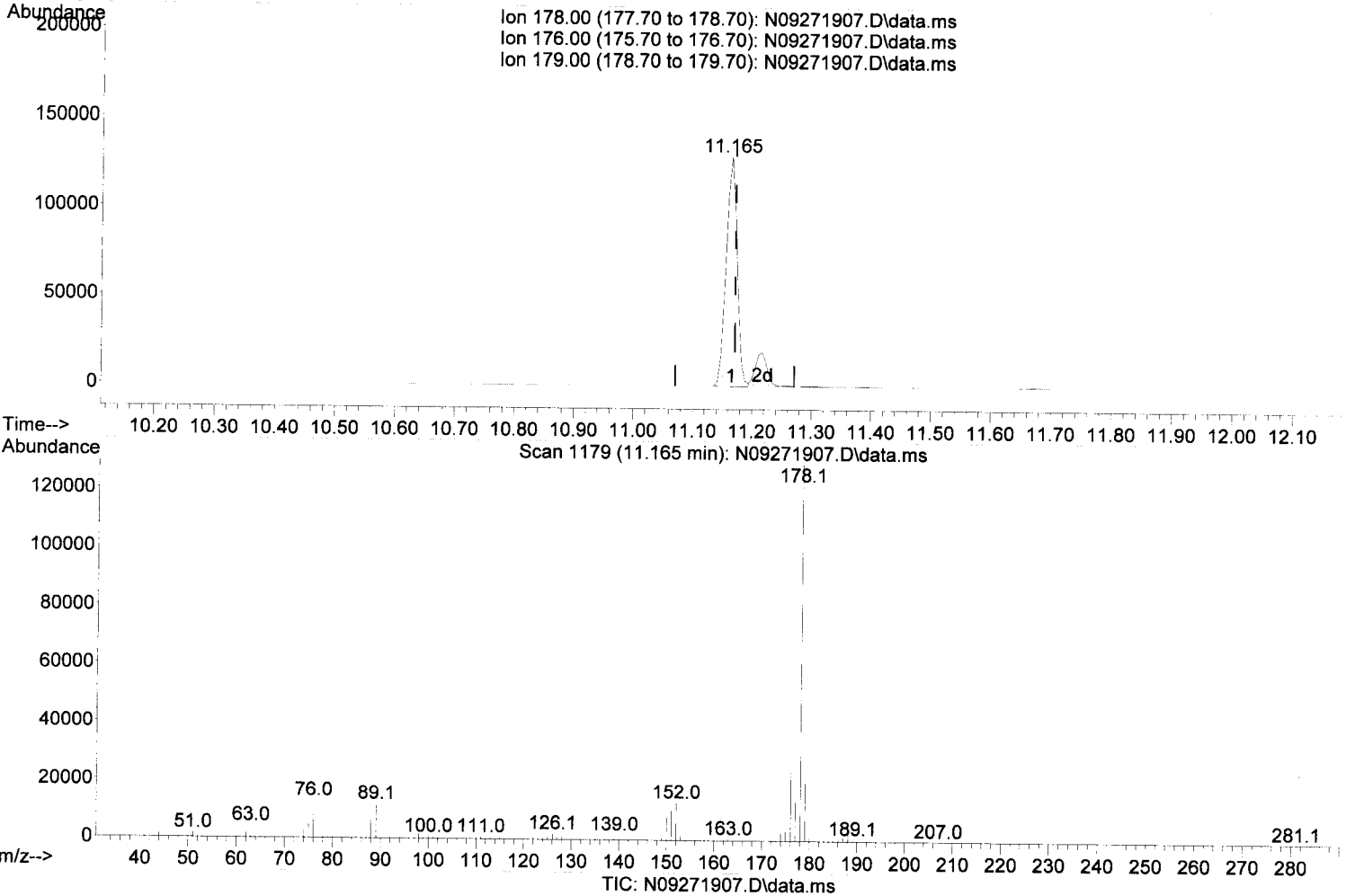
response 276165

Ion	Exp%	Act%
128.00	100.00	100.00
127.00	12.60	12.71
127.00	12.60	12.71
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I27028\
 Data File : N09271907.D
 Acq On : 27 Sep 2019 01:18 pm
 Operator :
 Sample : A9I0771-02RE1@10000
 Misc : 10000x, #4, 19
 ALS Vial : 7 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 15:58:30 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(19) Phenanthrene (T)

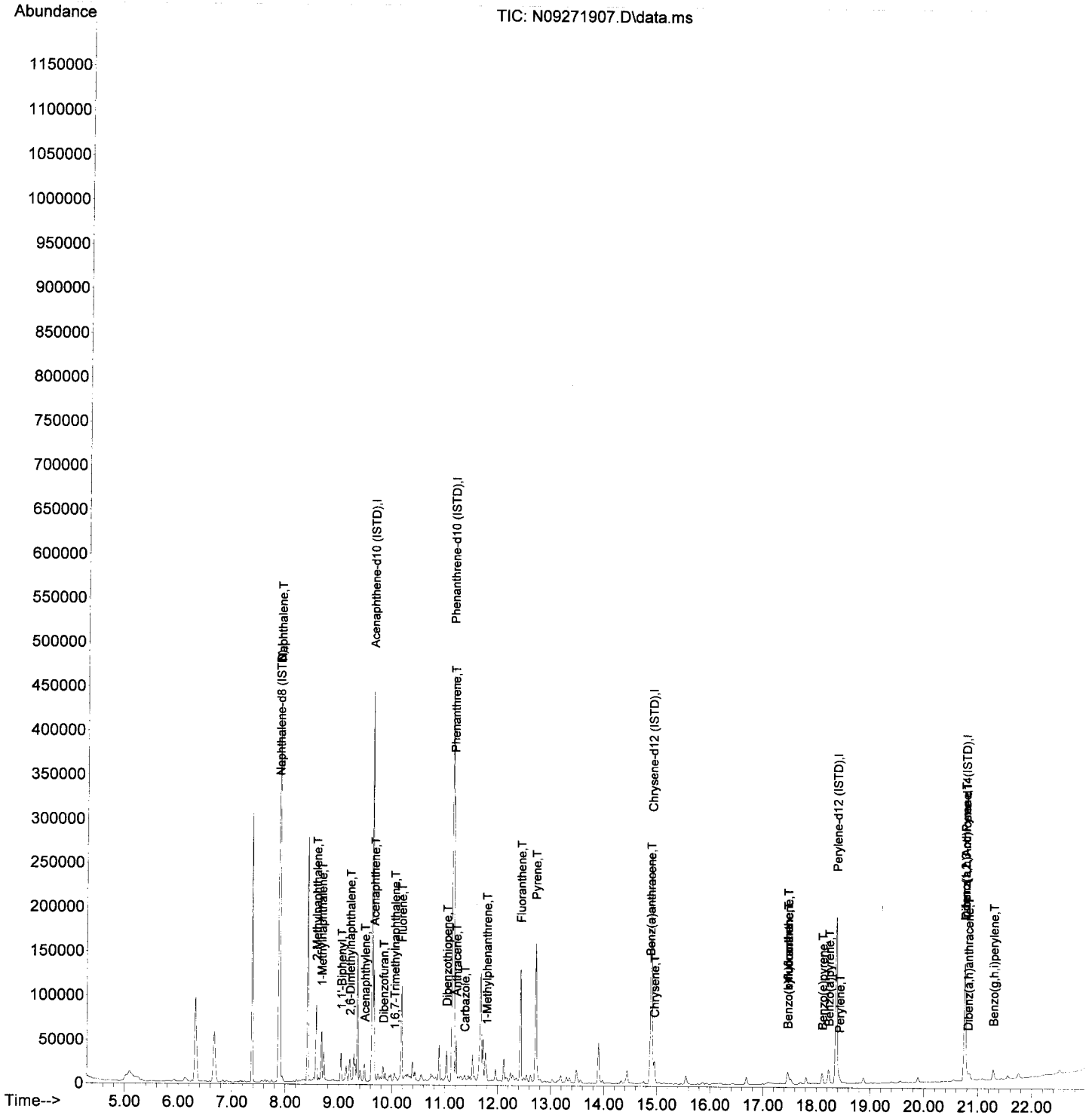
11.165min (-0.006) 59.98 ng/ml

response 167213

Ion	Exp%	Act%
178.00	100.00	100.00
176.00	19.00	18.83
179.00	15.10	15.58
0.00	0.00	0.00

Data Path : U:\data\2019-09\9I27028\
 Data File : N09271907.D
 Acq On : 27 Sep 2019 01:18 pm
 Operator :
 Sample : A9I0771-02RE1@10000
 Misc : 10000x, #4, 19
 ALS Vial : 7 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 15:58:30 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



Data Path : U:\data\2019-09\9I27028\
 Data File : N09271908.D
 Acq On : 27 Sep 2019 01:50 pm
 Operator :
 Sample : A9I0771-03RE1@10000
 Misc : 10000x, #4, 19
 ALS Vial : 8 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

John 9/27/19

Quant Time: Sep 27 15:58:34 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

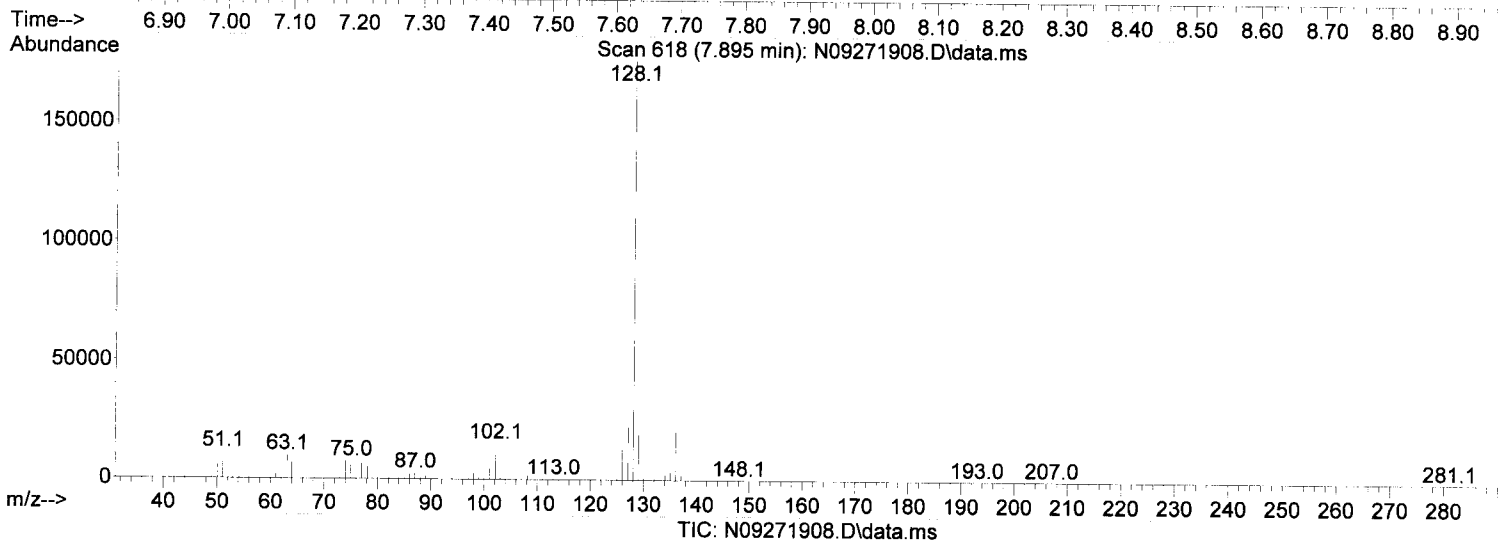
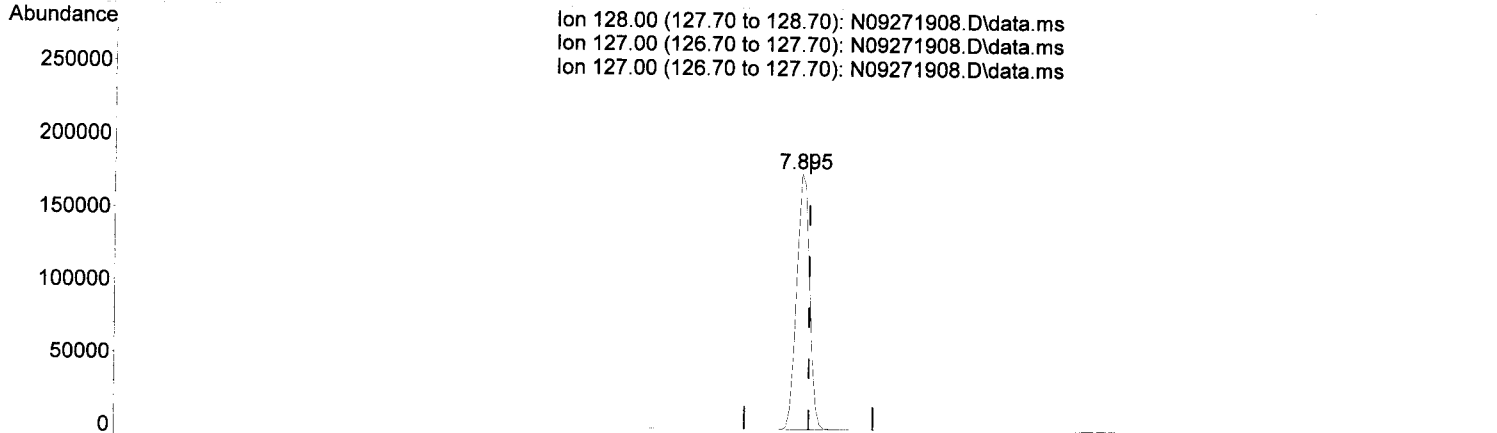
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.877	136	198344	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.632	162	124576	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.141	188	217244	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.895	240	170129	100.00	ng/ml	-0.01
29) Perylene-d12 (ISTD)	18.369	264	145724	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthracene-d...	20.753	292	111269	100.00	ng/ml	-0.01
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.242	82	70	0.11	ng/ml	0.06
10) 2-Fluorobiphenyl (Surr)	0.000	172	0	0.00	ng/ml	
11) Acenaphthylene d-8 (Surr)	9.475	160	6178	1.02	ng/ml	0.00
26) Terphenyl-d14 (Surr)	0.000	244	0	0.00	ng/ml	
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml	
Target Compounds						
3) Decalin	0.000		0			Qvalue
4) Naphthalene	7.895	128	249391	N.D.		
5) 2-Methylnaphthalene	8.583	142	44289	114.00	ng/ml	100
6) 1-Methylnaphthalene	8.682	142	26742	23.89	ng/ml	96
7) 1,1'-Biphenyl	9.049	154	17997	14.43	ng/ml	98
8) 2,6-Dimethylnaphthalene	9.212	156	10136	7.22	ng/ml	98
12) Acenaphthylene	9.492	152	8300	5.57	ng/ml	98
13) Acenaphthene	9.667	153	49803	3.07	ng/ml	94
14) Dibenzofuran	9.842	168	4383	28.11	ng/ml	99
15) 1,6,7-Trimethylnaphtha...	10.052	170	3069	1.98	ng/ml	89
16) Fluorene	10.186	166	21642	2.07	ng/ml	93
18) Dibenzothiopene	10.186	166	21642	11.94	ng/ml	100
19) Phenanthrene	11.037	184	19633	8.64	ng/ml	97
20) Anthracene	11.165	178	164405	64.67	ng/ml	100
21) Carbazole	11.217	178	26079	11.03	ng/ml	99
22) 1-Methylphenanthrene	11.375	167	3259	1.70	ng/ml	96
23) Fluoranthene	11.788	192	4498	2.55	ng/ml	98
25) Pyrene	12.430	202	75978	29.66	ng/ml	98
27) Benz(a)anthracene	12.715	202	94415	35.52	ng/ml	99
28) Chrysene	14.872	228	14302	7.24	ng/ml	67
30) Benzo(b)fluoranthene	14.953	228	18873	10.10	ng/ml	100
31) Benzo(k)fluoranthene	17.460	252	13602	8.09	ng/ml	94
32) Benzo(b+k)fluoranthene	17.460	252	16921	10.22	ng/ml	92
34) Benzo(e)pyrene	17.460	252	19646	11.42	ng/ml	92
35) Benzo(a)pyrene	18.107	252	9500	5.59	ng/ml	95
36) Perylene	18.223	252	13142	9.13	ng/ml	97
38) Indeno(1,2,3-cd)Pyrene	18.427	252	4272	2.41	ng/ml	99
39) Dibenz(a,h)anthracene	20.753	276	9007	6.56	ng/ml	94
40) Benzo(g,h,i)perylene	20.817	278	954	0.74	ng/ml	91
	21.289	276	10518	7.23	ng/ml	84

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I27028\
 Data File : N09271908.D
 Acq On : 27 Sep 2019 01:50 pm
 Operator :
 Sample : A9I0771-03RE1@10000
 Misc : 10000x, #4, 19
 ALS Vial : 8 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 15:58:34 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(4) Naphthalene (T)

7.895min (-0.012) 114.00 ng/ml

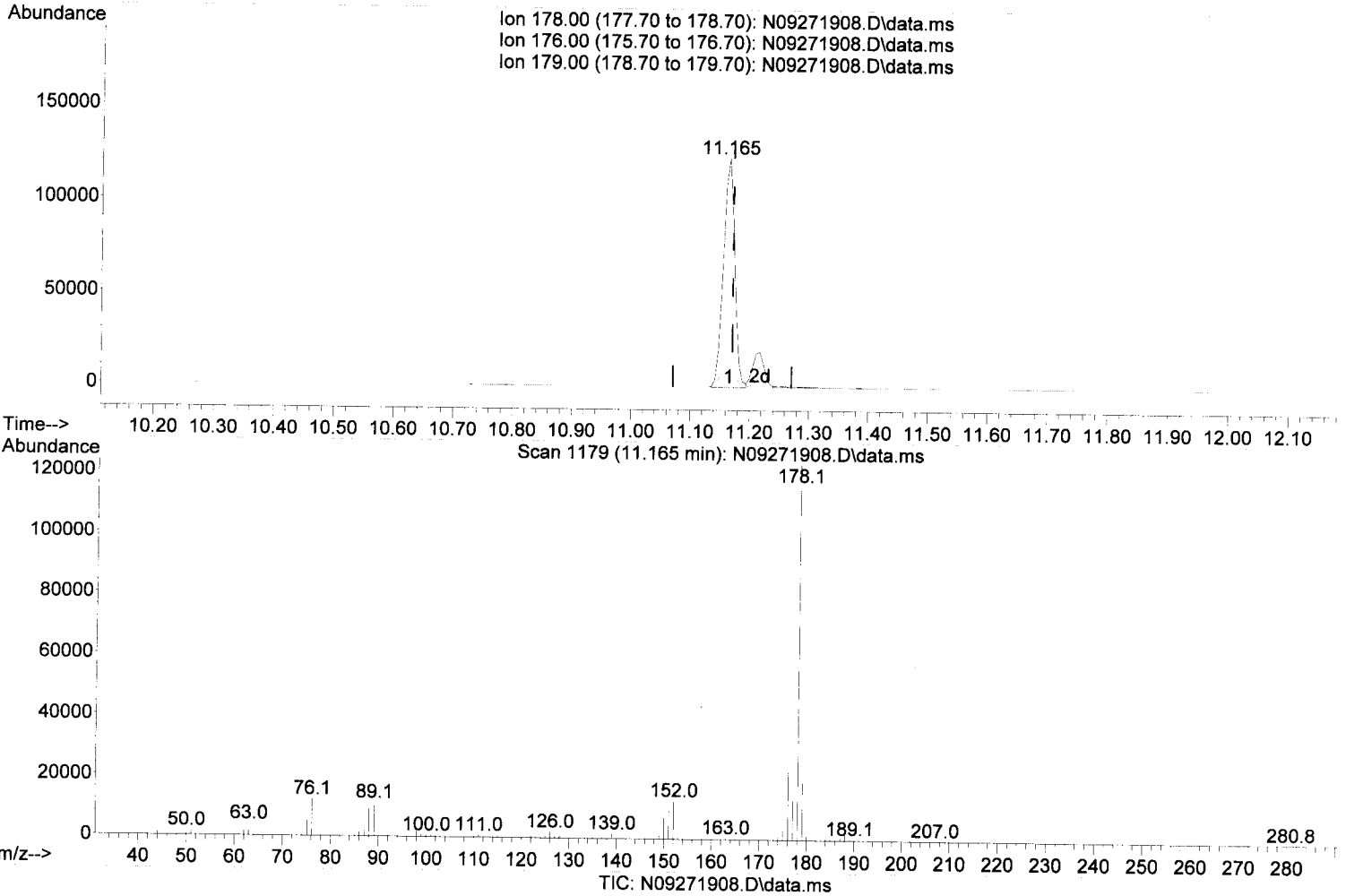
response 249391

Ion	Exp%	Act%
128.00	100.00	100.00
127.00	12.60	12.60
127.00	12.60	12.60
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-09\9I27028\
 Data File : N09271908.D
 Acq On : 27 Sep 2019 01:50 pm
 Operator :
 Sample : A9I0771-03RE1@10000
 Misc : 10000x, #4, 19
 ALS Vial : 8 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 15:58:34 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(19) Phenanthrene (T)

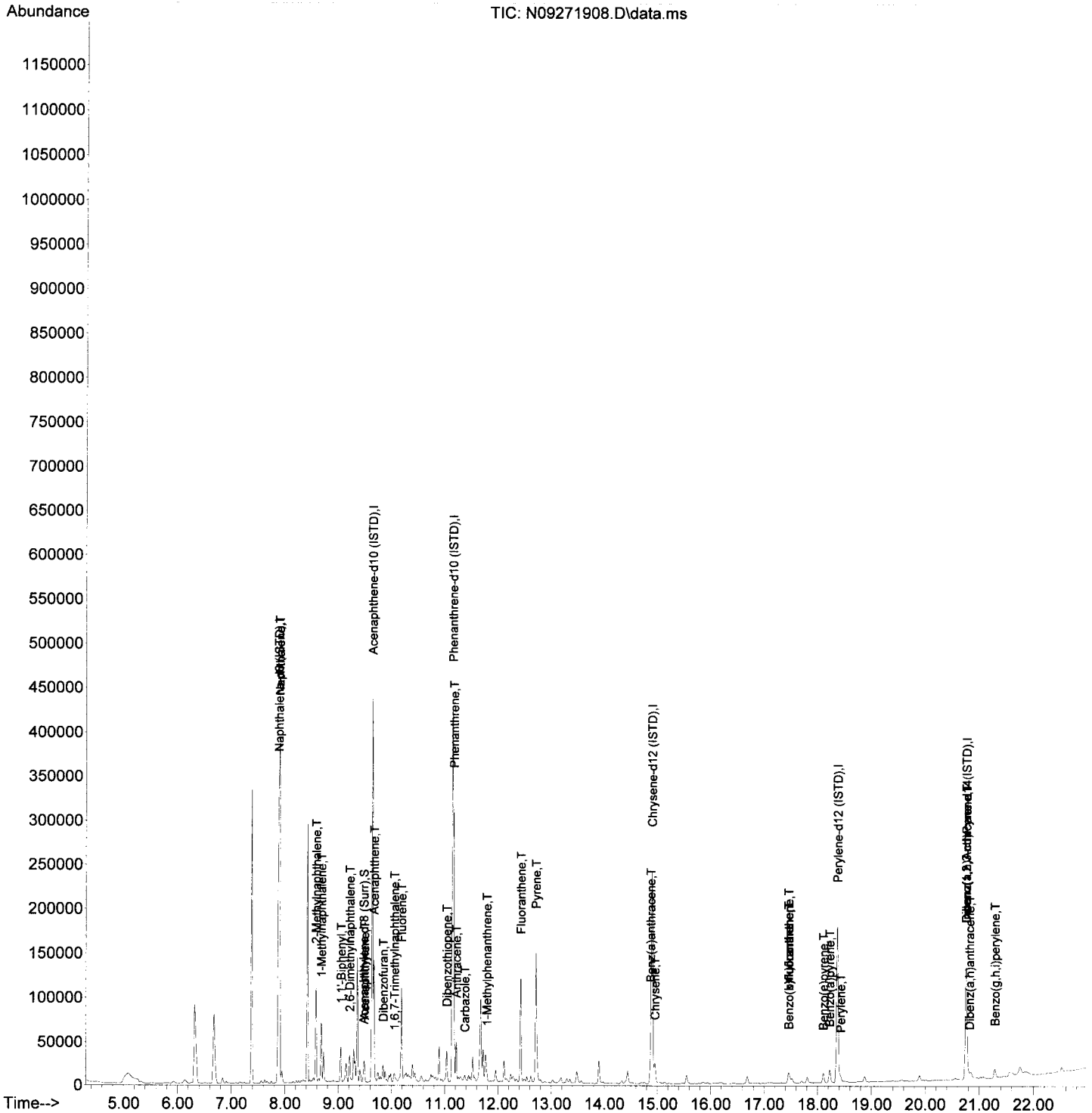
11.165min (-0.006) 64.67 ng/ml

response 164405

Ion	Exp%	Act%
178.00	100.00	100.00
176.00	19.00	18.93
179.00	15.10	15.28
0.00	0.00	0.00

Data Path : U:\data\2019-09\9I27028\
 Data File : N09271908.D
 Acq On : 27 Sep 2019 01:50 pm
 Operator :
 Sample : A9I0771-03RE1@10000
 Misc : 10000x, #4, 19
 ALS Vial : 8 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 15:58:34 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



Quantitation Report (Not Reviewed)

Data Path : U:\data\2019-09\9I27028\
 Data File : N09271909.D
 Acq On : 27 Sep 2019 02:34 pm
 Operator :
 Sample : A9I0771-04RE1@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 9 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

RM 9/27/19
909: Mary IS

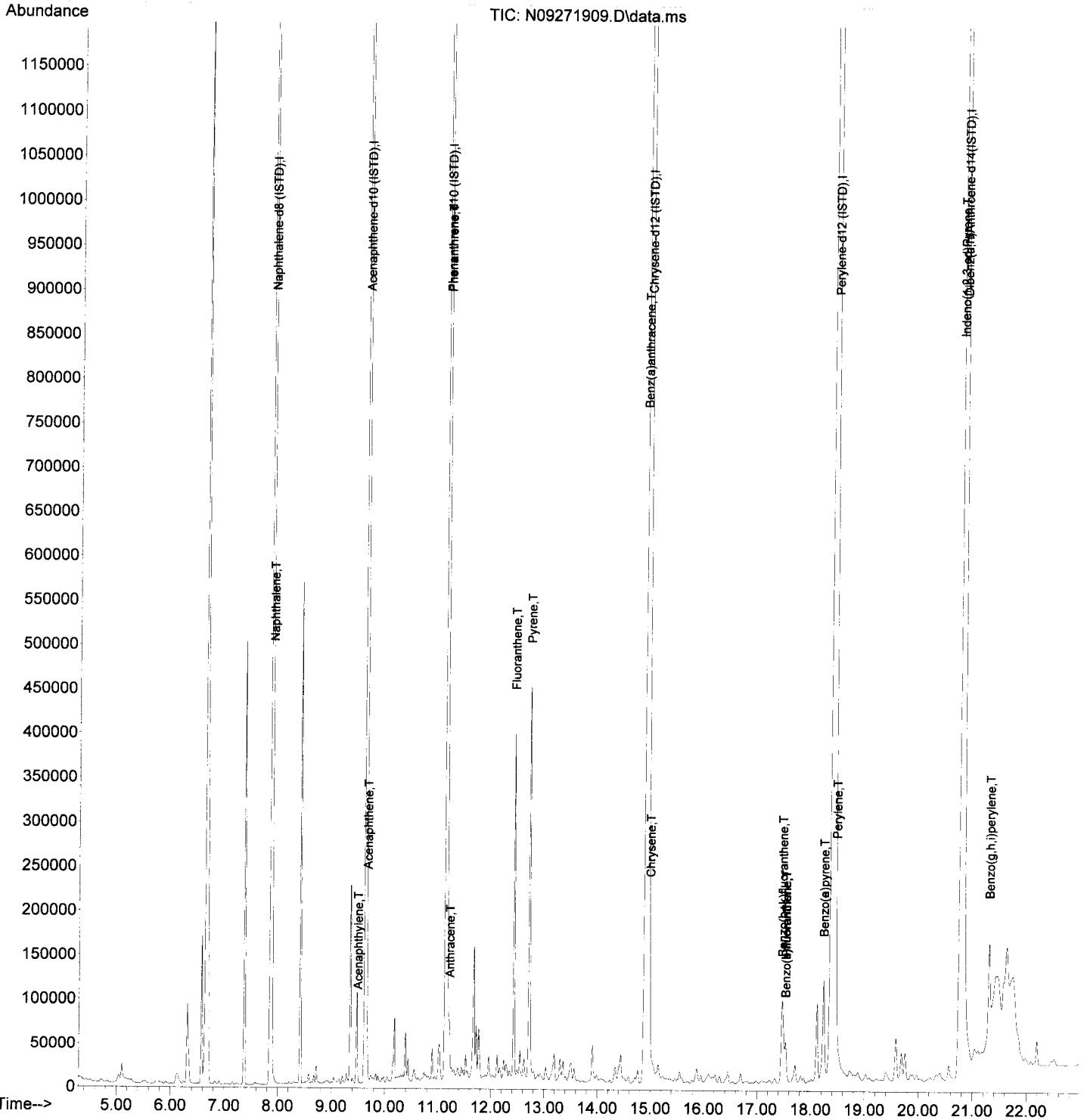
Quant Time: Sep 27 15:58:38 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Naphthalene-d8 (ISTD)	7.877	136	2990166	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.644	162	2157066	100.00	ng/ml	0.00	
17) Phenanthrene-d10 (ISTD)	11.153	188	4188581	100.00	ng/ml	0.00	
24) Chrysene-d12 (ISTD)	14.942	240	4612180	100.00	ng/ml	0.04	
29) Perylene-d12 (ISTD)	18.439	264	4770549	100.00	ng/ml	0.06	
37) Dibenz(a,h)Anthrcene-d...	20.817	292	3830577	100.00	ng/ml	0.05	
System Monitoring Compounds							
2) Nitrobenzene-d5 (Surr)	7.172	82	385	0.04	ng/ml	-0.01	
10) 2-Fluorobiphenyl (Surr)	8.944	172	1073	0.03	ng/ml	0.00	
11) Acenaphthylene d-8 (Surr)	9.475	160	54446	-1.00	ng/ml	0.00	
26) Terphenyl-d14 (Surr)	12.925	244	1382	0.03	ng/ml	0.00	
33) Benzo(a)pyrene d-12 (S...	18.182	264	116	0.00	ng/ml	0.00	
Target Compounds							
3) Decalin	0.000		0	N.D.			Qvalue
4) Naphthalene	7.895	128	22029	0.67	ng/ml	98	
5) 2-Methylnaphthalene	8.583	142	4523	N.D.			
6) 1-Methylnaphthalene	8.682	142	3201	N.D.			
7) 1,1'-Biphenyl	9.049	154	2086	N.D.			
8) 2,6-Dimethylnaphthalene	9.212	156	2858	N.D.			
12) Acenaphthylene	9.492	152	26228	0.56	ng/ml	98	
13) Acenaphthene	9.667	153	17780	0.58	ng/ml	100	
14) Dibenzofuran	9.842	168	1393	N.D.			
15) 1,6,7-Trimethylnaphtha...	10.052	170	1952	N.D.			
16) Fluorene	10.186	166	11281	N.D.			
18) Dibenzothiopene	11.037	184	16718	N.D.			
19) Phenanthrene	11.171	178	132349	(2.70)	ng/ml	99	j
20) Anthracene	11.217	178	24785	0.54	ng/ml	98	
21) Carbazole	11.375	167	2346	N.D.			
22) 1-Methylphenanthrene	11.788	192	8627	N.D.			
23) Fluoranthene	12.430	202	241048	(4.88)	ng/ml	99	j
25) Pyrene	12.721	202	301439	(4.18)	ng/ml	99	j
27) Benz(a)anthracene	14.889	228	88191	1.65	ng/ml	81	
28) Chrysene	14.983	228	97020	1.91	ng/ml	98	
30) Benzo(b)fluoranthene	17.530	252	34452	0.63	ng/ml	97	
31) Benzo(k)fluoranthene	17.530	252	35658	0.66	ng/ml	95	
32) Benzo(b+k)fluoranthene	17.466	252	169829	3.02	ng/ml	94	
34) Benzo(e)pyrene	18.235	252	110066	1.98	ng/ml	91	
35) Benzo(a)pyrene	18.235	252	68507	1.45	ng/ml	98	
36) Perylene	18.468	252	53934	0.93	ng/ml	99	
38) Indeno(1,2,3-cd)Pyrene	20.765	276	78371	1.66	ng/ml	89	
39) Dibenz(a,h)anthracene	20.852	278	8793	N.D.			
40) Benzo(g,h,i)perylene	21.307	276	92242	1.84	ng/ml	86	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : U:\data\2019-09\9I27028\
 Data File : N09271909.D
 Acq On : 27 Sep 2019 02:34 pm
 Operator :
 Sample : A9I0771-04RE1@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 9 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 15:58:38 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



Quantitation Report (Not Reviewed)

Data Path : U:\data\2019-09\9I27028\
 Data File : N09271910.D
 Acq On : 27 Sep 2019 03:06 pm
 Operator :
 Sample : A9I0771-05RE1@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 10 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Handwritten: Jean 9/27/19
 001 Wang JS

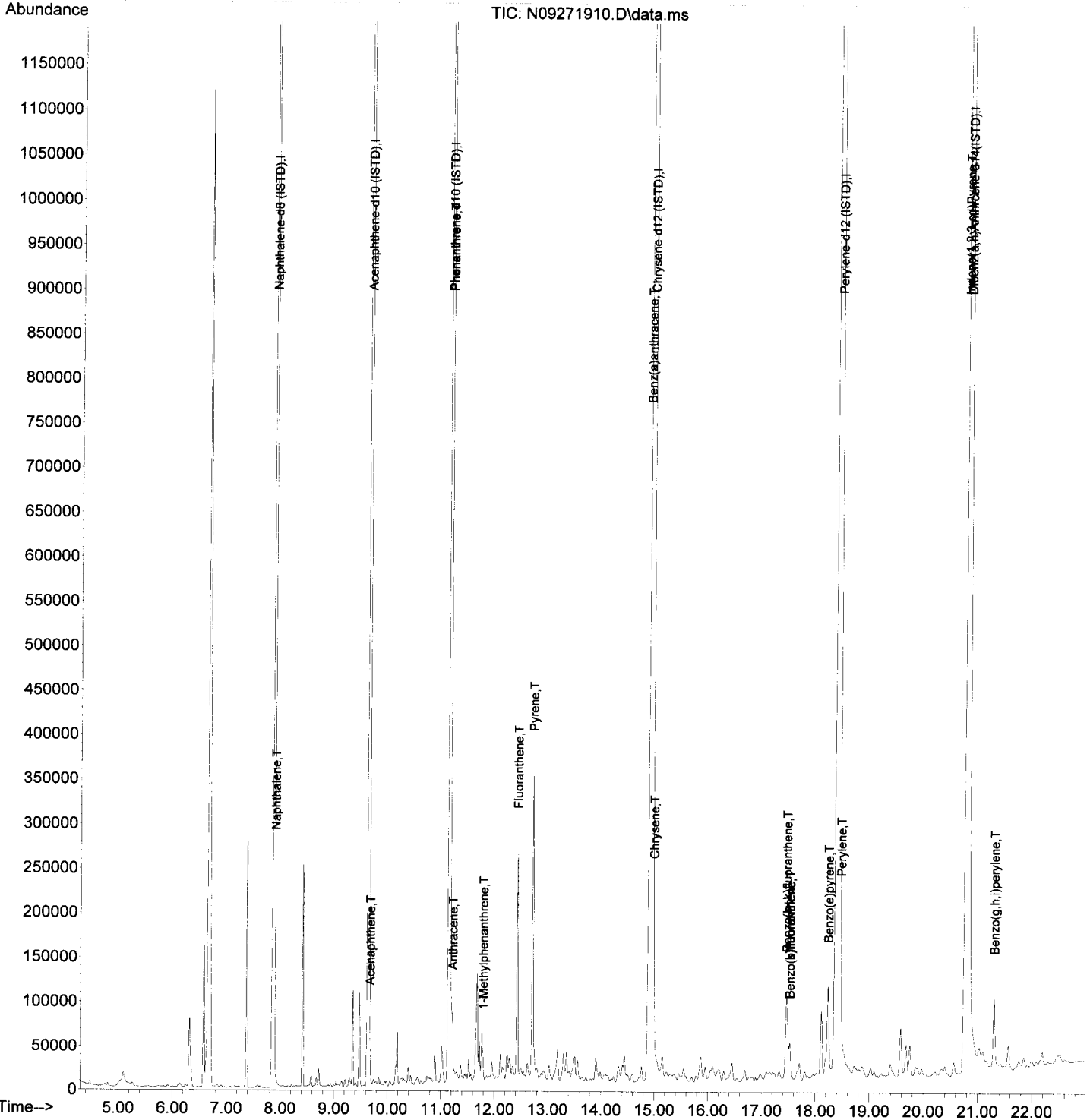
Quant Time: Sep 27 15:58:42 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.877	136	3023658	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.643	162	2241211	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.153	188	4371980	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.947	240	4936781	100.00	ng/ml	0.04
29) Perylene-d12 (ISTD)	18.439	264	5002016	100.00	ng/ml	0.06
37) Dibenz(a,h)Anthracene-d...	20.817	292	4102593	100.00	ng/ml	0.05
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.178	82	462	0.05	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.944	172	1373	0.04	ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	9.474	160	61874	-1.00	ng/ml	0.00
26) Terphenyl-d14 (Surr)	12.925	244	1873	0.04	ng/ml	0.00
33) Benzo(a)pyrene d-12 (S...	18.171	264	54	0.00	ng/ml	0.00
Target Compounds						
3) Decalin	0.000		0	N.D.		Qvalue
4) Naphthalene	7.901	128	19576	0.59	ng/ml	99
5) 2-Methylnaphthalene	8.583	142	5707	N.D.		
6) 1-Methylnaphthalene	8.682	142	3794	N.D.		
7) 1,1'-Biphenyl	9.049	154	2154	N.D.		
8) 2,6-Dimethylnaphthalene	9.212	156	2940	N.D.		
12) Acenaphthylene	9.492	152	6429	N.D.		
13) Acenaphthene	9.673	153	15814	0.50	ng/ml	99
14) Dibenzofuran	9.842	168	1905	N.D.		
15) 1,6,7-Trimethylnaphtha...	10.051	170	1763	N.D.		
16) Fluorene	10.185	166	9154	N.D.		
18) Dibenzothiopene	11.036	184	12000	N.D.		
19) Phenanthrene	11.171	178	114580	2.24	ng/ml	99
20) Anthracene	11.217	178	31628	0.66	ng/ml	98
21) Carbazole	11.375	167	5305	N.D.		
22) 1-Methylphenanthrene	11.788	192	21441	0.60	ng/ml	98
23) Fluoranthene	12.430	202	158102	(3.07)	ng/ml	98
25) Pyrene	12.715	202	223455	(2.90)	ng/ml	99
27) Benz(a)anthracene	14.889	228	84989	1.48	ng/ml	88
28) Chrysene	14.982	228	103265	1.90	ng/ml	97
30) Benzo(b)fluoranthene	17.524	252	32033	0.55	ng/ml	96
31) Benzo(k)fluoranthene	17.524	252	32475	0.57	ng/ml	94
32) Benzo(b+k)fluoranthene	17.465	252	146821	2.49	ng/ml	93
34) Benzo(e)pyrene	18.235	252	98969	1.70	ng/ml	91
35) Benzo(a)pyrene	0.000		0	N.D.		
36) Perylene	18.468	252	44947	0.74	ng/ml	97
38) Indeno(1,2,3-cd)Pyrene	20.764	276	62975	1.24	ng/ml	93
39) Dibenz(a,h)anthracene	20.852	278	9254	N.D.		
40) Benzo(g,h,i)perylene	21.301	276	72395	1.35	ng/ml	86

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : U:\data\2019-09\9I27028\
 Data File : N09271910.D
 Acq On : 27 Sep 2019 03:06 pm
 Operator :
 Sample : A9I0771-05RE1@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 10 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 27 15:58:42 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



Data Path : R:\data\2019-09\9I27028\
 Data File : N09271911.D
 Acq On : 27 Sep 2019 03:38 pm
 Operator :
 Sample : A9I0771-06RE1@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 11 Sample Multiplier: 1

fail 9/30/19

801 : wrong IS

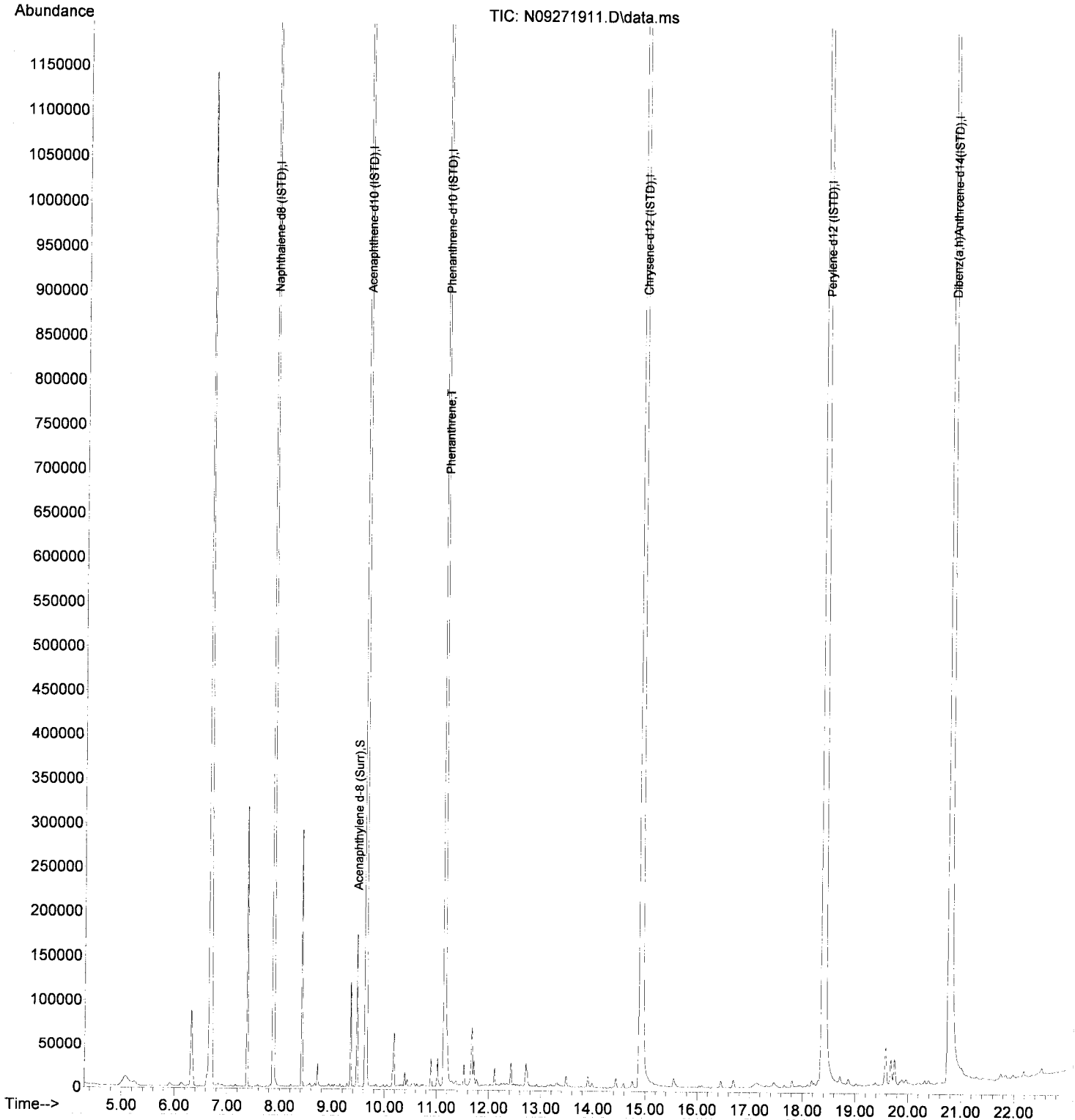
Quant Time: Sep 30 15:07:05 2019
 Quant Method : R:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.877	136	3195881	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.643	162	2179995	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.153	188	3959166	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.936	240	4113975	100.00	ng/ml	0.03
29) Perylene-d12 (ISTD)	18.427	264	4178716	100.00	ng/ml	0.05
37) Dibenz(a,h)Anthracene-d...	20.805	292	3168846	100.00	ng/ml	0.04
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.178	82	417	0.04	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.944	172	1153	0.04	ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	9.474	160	102103	0.88	ng/ml	0.00
26) Terphenyl-d14 (Surr)	12.925	244	1633	0.04	ng/ml	0.00
33) Benzo(a)pyrene d-12 (S...	18.165	264	74	0.00	ng/ml	-0.01
Target Compounds						
3) Decalin	0.000		0	N.D.		Qvalue
4) Naphthalene	7.901	128	4330	N.D.		
5) 2-Methylnaphthalene	8.583	142	1317	N.D.		
6) 1-Methylnaphthalene	8.682	142	902	N.D.		
7) 1,1'-Biphenyl	9.049	154	596	N.D.		
8) 2,6-Dimethylnaphthalene	9.206	156	511	N.D.		
12) Acenaphthylene	9.486	152	1860	N.D.		
13) Acenaphthene	9.667	153	11138	N.D.		
14) Dibenzofuran	9.836	168	1094	N.D.		
15) 1,6,7-Trimethylnaphtha...	10.046	170	363	N.D.		
16) Fluorene	10.186	166	6804	N.D.		
18) Dibenzothiopene	11.037	184	2055	N.D.		
19) Phenanthrene	11.171	178	31080	0.67	ng/ml	98
20) Anthracene	11.217	178	6398	N.D.		
21) Carbazole	11.375	167	520	N.D.		
22) 1-Methylphenanthrene	11.788	192	1830	N.D.		
23) Fluoranthene	12.430	202	15806	N.D.		
25) Pyrene	12.715	202	16537	N.D.		
27) Benz(a)anthracene	14.936	228	15519	N.D.		
28) Chrysene	14.971	228	3764	N.D.		
30) Benzo(b)fluoranthene	17.518	252	1225	N.D.		
31) Benzo(k)fluoranthene	17.518	252	1061	N.D.		
32) Benzo(b+k)fluoranthene	17.699	252	608	N.D.		
34) Benzo(e)pyrene	18.229	252	3081	N.D.		
35) Benzo(a)pyrene	18.229	252	1952	N.D.		
36) Perylene	18.427	252	15277	N.D.		
38) Indeno(1,2,3-cd)Pyrene	20.805	276	988	N.D.		
39) Dibenz(a,h)anthracene	20.840	278	350	N.D.		
40) Benzo(g,h,i)perylene	21.382	276	74	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : R:\data\2019-09\9I27028\
Data File : N09271911.D
Acq On : 27 Sep 2019 03:38 pm
Operator :
Sample : A9I0771-06RE1@100
Misc : 100x, 8270D LL PAH ONLY
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 30 15:07:05 2019
Quant Method : R:\methods\SV14_090619_PAH.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Sep 09 14:58:53 2019
Response via : Initial Calibration
InstName : SV-GCMS14



Data Path : R:\data\2019-09\9I27028\
 Data File : N09271913.D
 Acq On : 27 Sep 2019 04:42 pm
 Operator :
 Sample : A9I0771-04RE2@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 12 Sample Multiplier: 1

HEM 9/30/19
 MMS

Quant Time: Sep 30 15:07:09 2019
 Quant Method : R:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

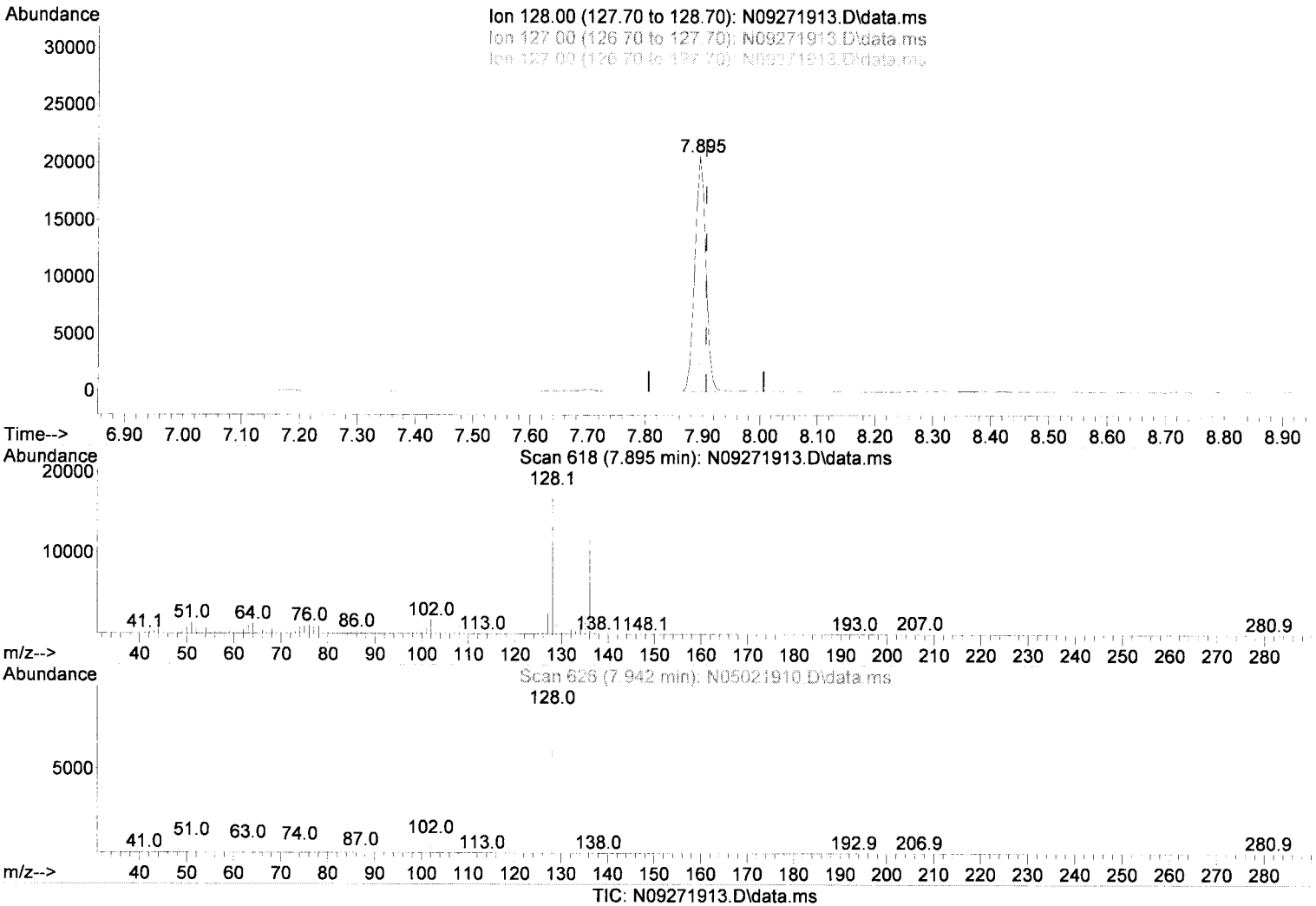
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.877	136	182432	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.632	162	131088	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.141	188	247982	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.895	240	222975	100.00	ng/ml	-0.01
29) Perylene-d12 (ISTD)	18.369	264	205143	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthracene-d...	20.759	292	158588	100.00	ng/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.178	82	467	0.77	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.944	172	1048	0.54	ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	9.474	160	3277	-1.00	ng/ml	0.00
26) Terphenyl-d14 (Surr)	12.919	244	1540	0.66	ng/ml	-0.01
33) Benzo(a)pyrene d-12 (S...	18.182	264	136	0.08	ng/ml	0.00
Target Compounds						
3) Decalin	0.000		0	N.D.		Qvalue
4) Naphthalene	7.895	128	27716	13.77	ng/ml	99
5) 2-Methylnaphthalene	8.583	142	5297	3.11	ng/ml	96
6) 1-Methylnaphthalene	8.682	142	3421	2.01	ng/ml	98
7) 1,1'-Biphenyl	9.049	154	2115	0.92	ng/ml	97
8) 2,6-Dimethylnaphthalene	9.212	156	3206	1.91	ng/ml	97
12) Acenaphthylene	9.486	152	25723	9.04	ng/ml	98
13) Acenaphthene	9.667	153	18578	9.97	ng/ml	98
14) Dibenzofuran	9.836	168	1372	0.59	ng/ml	73
15) 1,6,7-Trimethylnaphtha...	10.046	170	2071	1.32	ng/ml	88
16) Fluorene	10.185	166	12122	6.36	ng/ml	99
18) Dibenzothiopene	11.036	184	18076	6.97	ng/ml	97
19) Phenanthrene	11.165	178	142652	49.16	ng/ml	100
20) Anthracene	11.217	178	26002	9.63	ng/ml	99
21) Carbazole	11.374	167	2840	1.30	ng/ml	95
22) 1-Methylphenanthrene	11.788	192	18751	9.30	ng/ml	95
23) Fluoranthene	12.429	202	257644	88.12	ng/ml	97
25) Pyrene	12.715	202	322775	92.66	ng/ml	99
27) Benz(a)anthracene	14.878	228	81908	31.64	ng/ml	81
28) Chrysene	14.953	228	92497	37.76	ng/ml	97
30) Benzo(b)fluoranthene	17.460	252	111229	46.99	ng/ml	94
31) Benzo(k)fluoranthene	17.460	252	138253	59.32	ng/ml	93
32) Benzo(b+k)fluoranthene	17.460	252	158271	65.37	ng/ml	93
34) Benzo(e)pyrene	18.107	252	75467	31.53	ng/ml	99
35) Benzo(a)pyrene	18.223	252	111256	54.91	ng/ml	99
36) Perylene	18.427	252	33719	13.51	ng/ml	99
38) Indeno(1,2,3-cd)Pyrene	20.753	276	75449	38.58	ng/ml	86
39) Dibenz(a,h)anthracene	20.817	278	8371	4.55	ng/ml	90
40) Benzo(g,h,i)perylene	21.289	276	93613	45.12	ng/ml	89

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : R:\data\2019-09\9I27028\
 Data File : N09271913.D
 Acq On : 27 Sep 2019 04:42 pm
 Operator :
 Sample : A9I0771-04RE2@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 30 15:07:09 2019
 Quant Method : R:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(4) Naphthalene (T)

7.895min (-0.012) 13.77 ng/ml

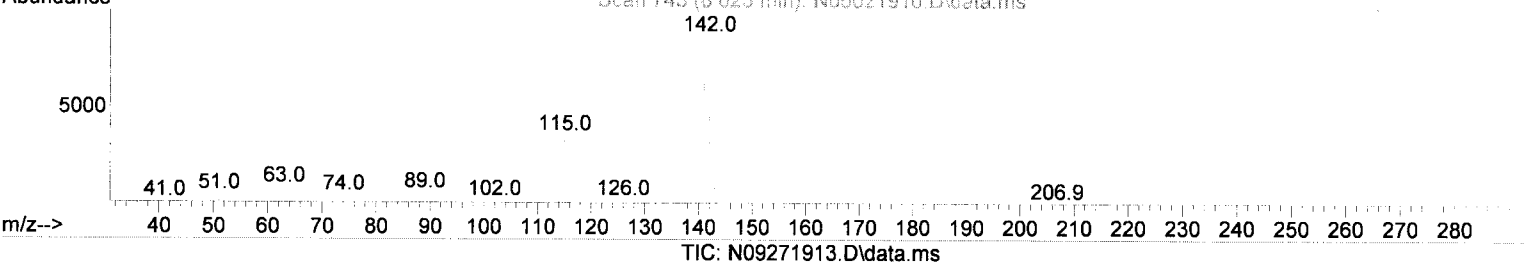
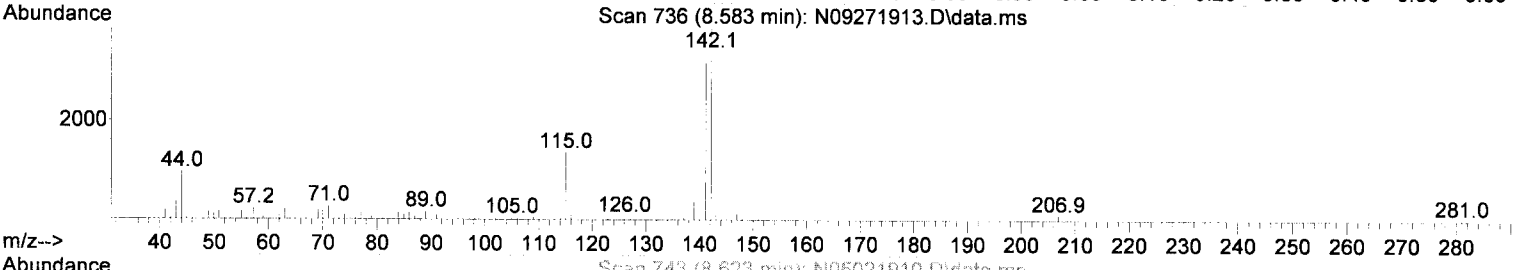
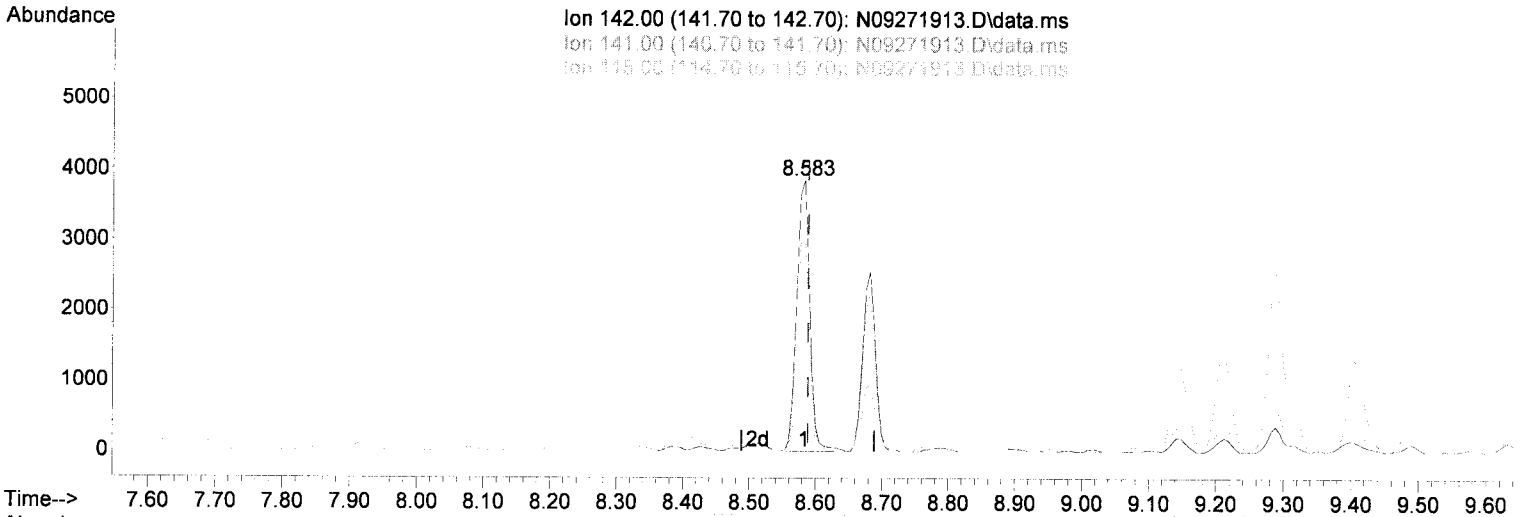
response 27716

Ion	Exp%	Act%
128.00	100.00	100.00
127.00	12.60	12.23
127.00	12.60	12.23
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : R:\data\2019-09\9I27028\
 Data File : N09271913.D
 Acq On : 27 Sep 2019 04:42 pm
 Operator :
 Sample : A9I0771-04RE2@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 30 15:07:09 2019
 Quant Method : R:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(5) 2-Methylnaphthalene (T)

8.583min (-0.006) 3.11 ng/ml

J

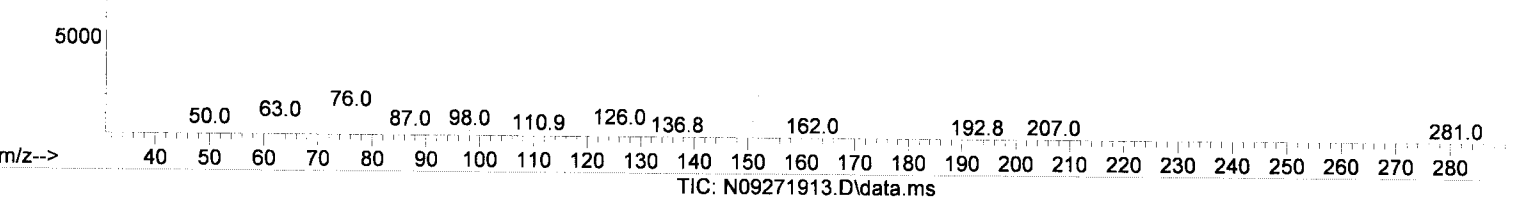
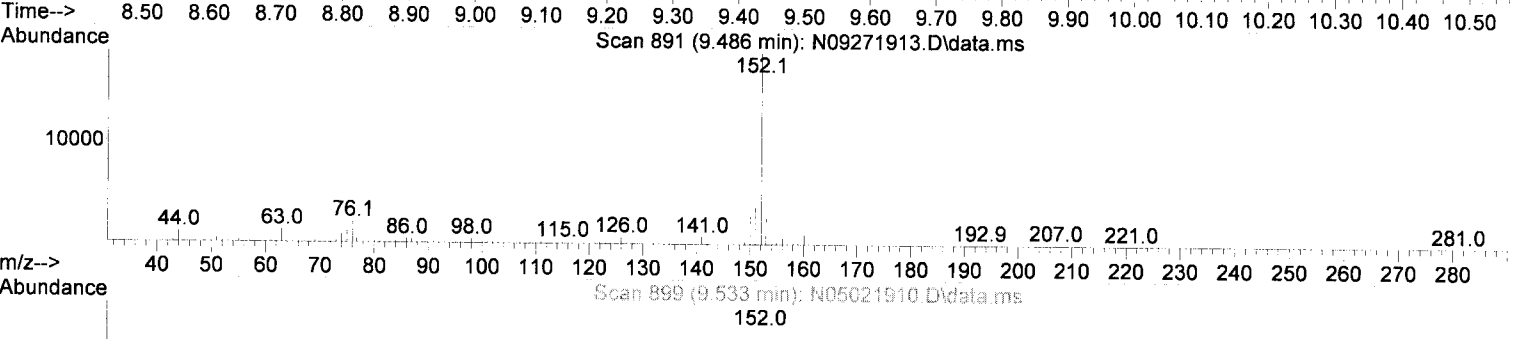
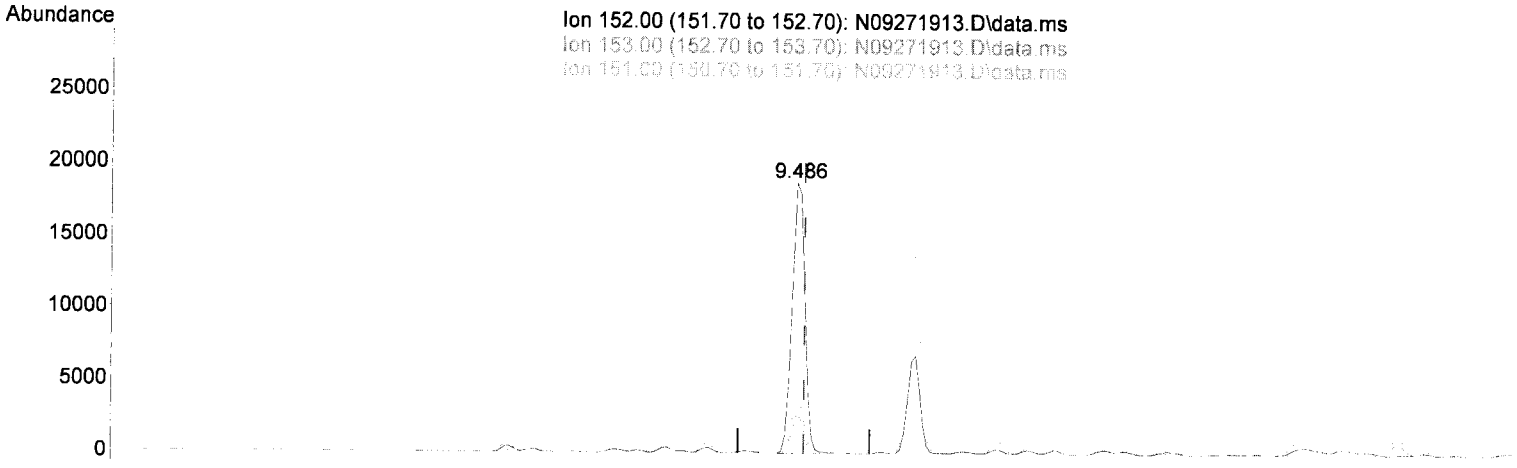
response 5297

Ion	Exp%	Act%
142.00	100.00	100.00
141.00	86.60	81.50
115.00	35.70	35.39
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : R:\data\2019-09\9I27028\
 Data File : N09271913.D
 Acq On : 27 Sep 2019 04:42 pm
 Operator :
 Sample : A9I0771-04RE2@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 30 15:07:09 2019
 Quant Method : R:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(12) Acenaphthylene (T)

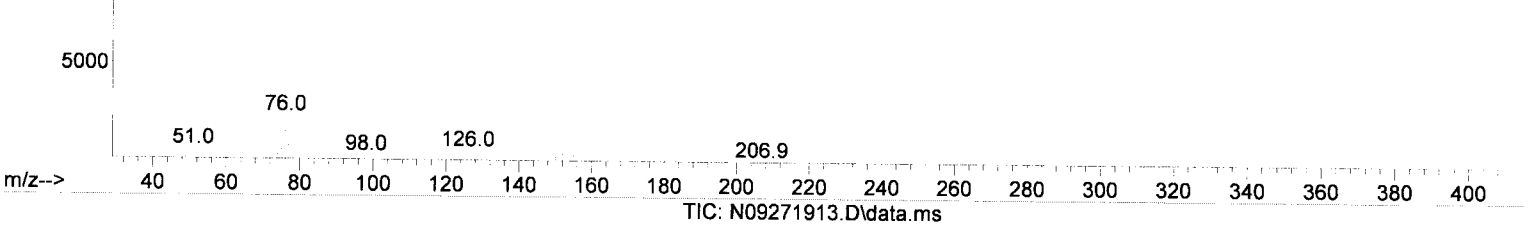
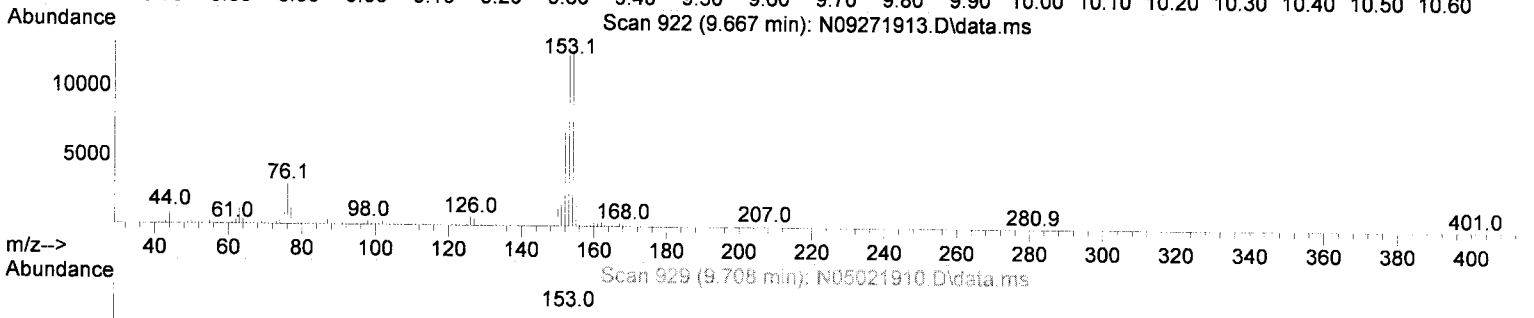
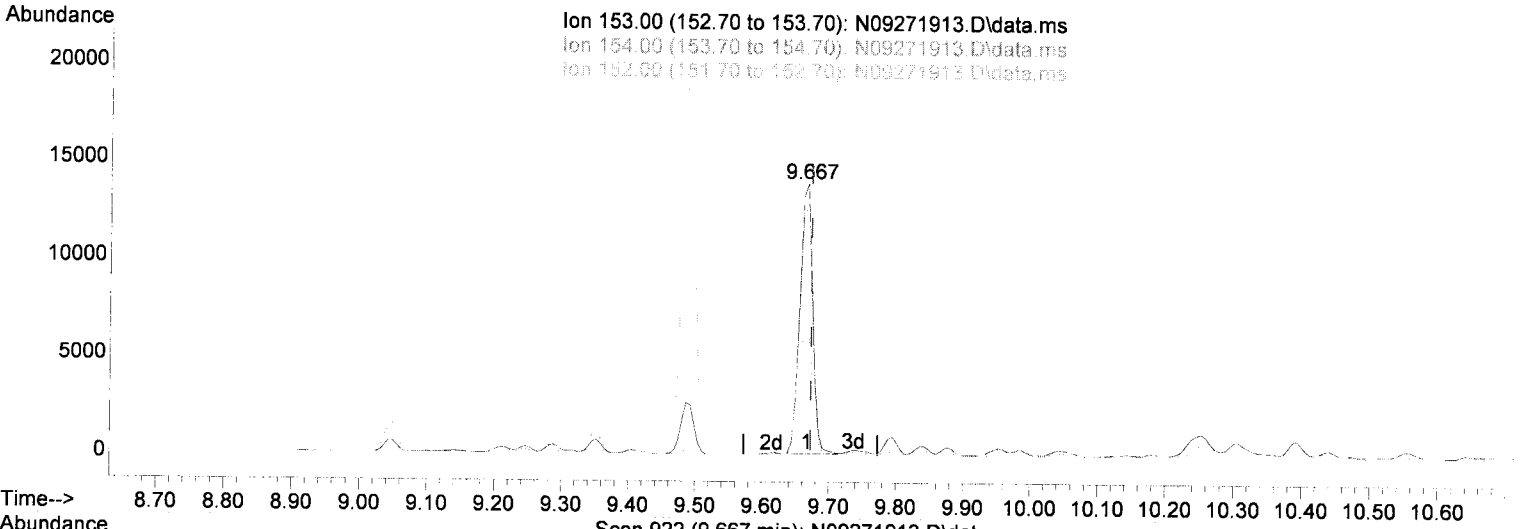
9.486min (-0.012) 9.04 ng/ml

response	25723	
Ion	Exp%	Act%
152.00	100.00	100.00
153.00	12.70	14.05
151.00	19.30	19.56
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : R:\data\2019-09\9I27028\
 Data File : N09271913.D
 Acq On : 27 Sep 2019 04:42 pm
 Operator :
 Sample : A9I0771-04RE2@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 30 15:07:09 2019
 Quant Method : R:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(13) Acenaphthene (T)

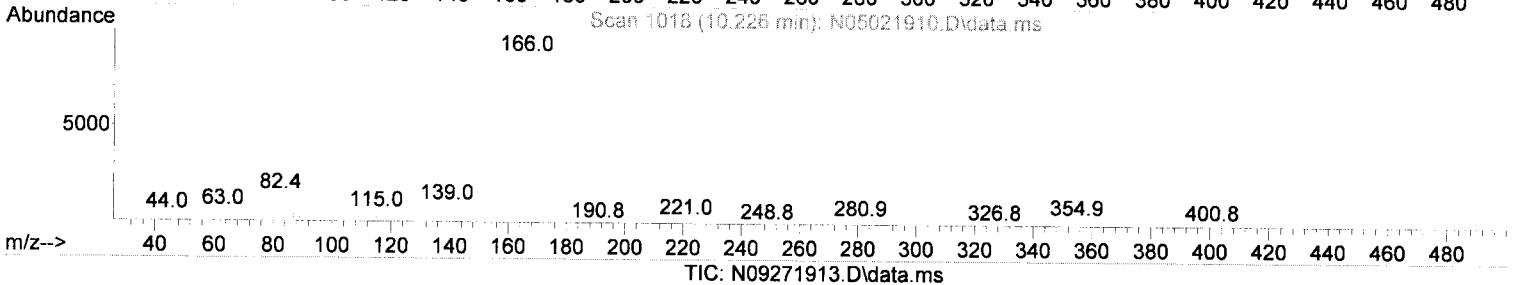
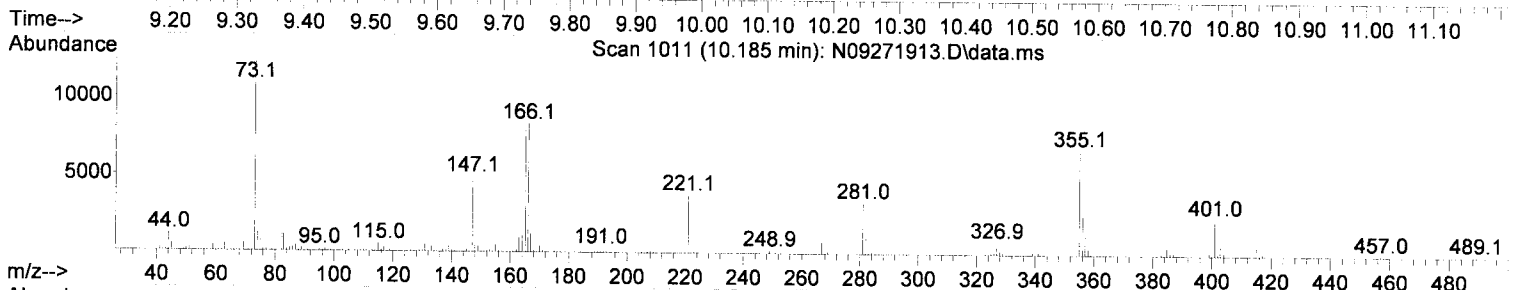
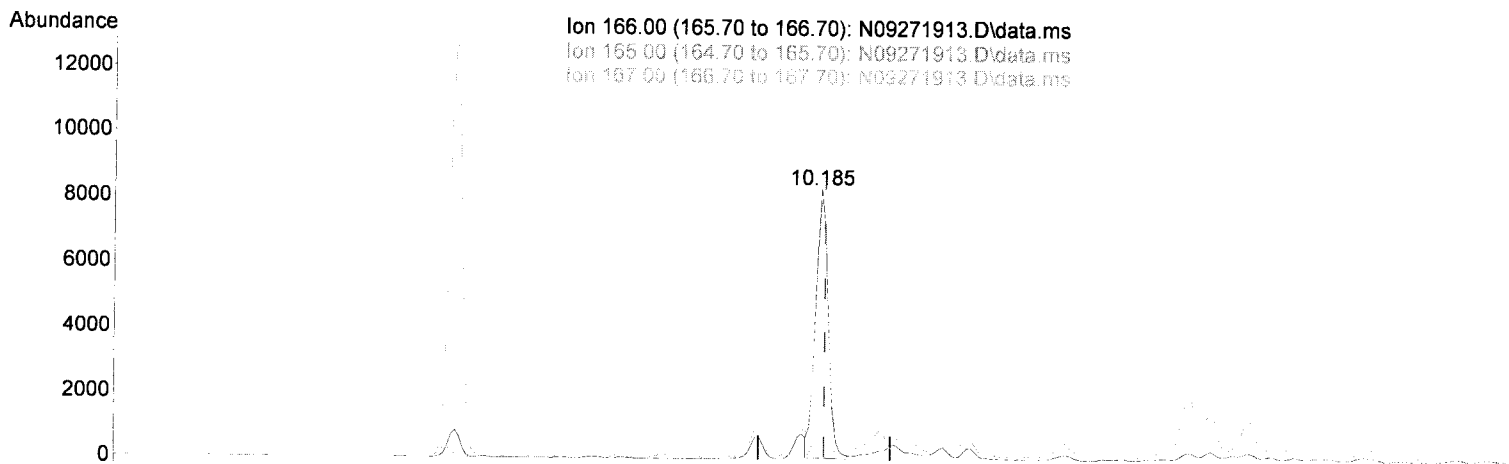
9.667min (-0.006) 9.97 ng/ml

response	18578
Ion	Exp% Act%
153.00	100.00 100.00
154.00	90.70 91.94
152.00	46.80 49.24
0.00	0.00 0.00

Quantitation Report (Qedit)

Data Path : R:\data\2019-09\9I27028\
 Data File : N09271913.D
 Acq On : 27 Sep 2019 04:42 pm
 Operator :
 Sample : A9I0771-04RE2@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 30 15:07:09 2019
 Quant Method : R:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(16) Fluorene (T)

10.185min (-0.006) 5.82 ng/ml m

RAM 9/30/19

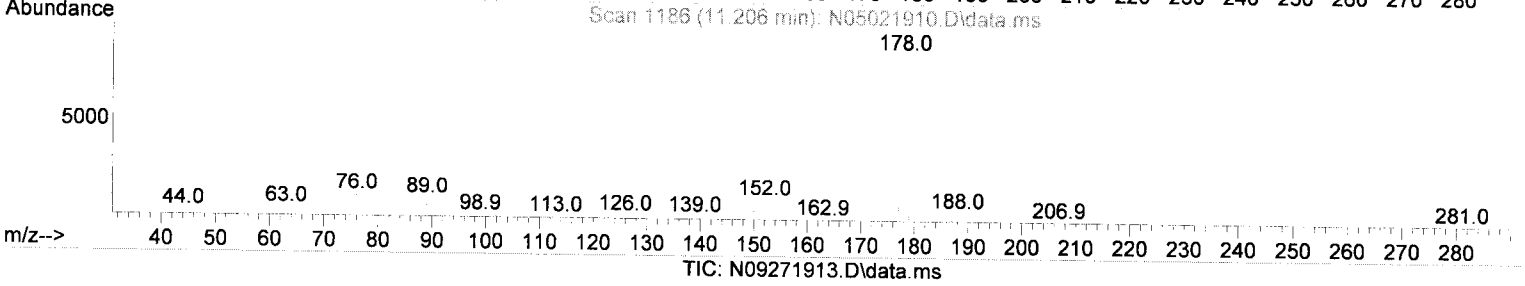
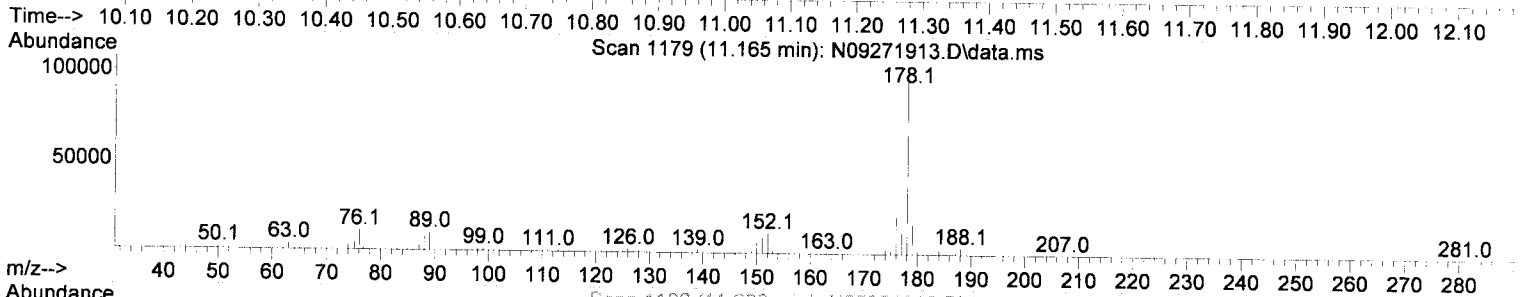
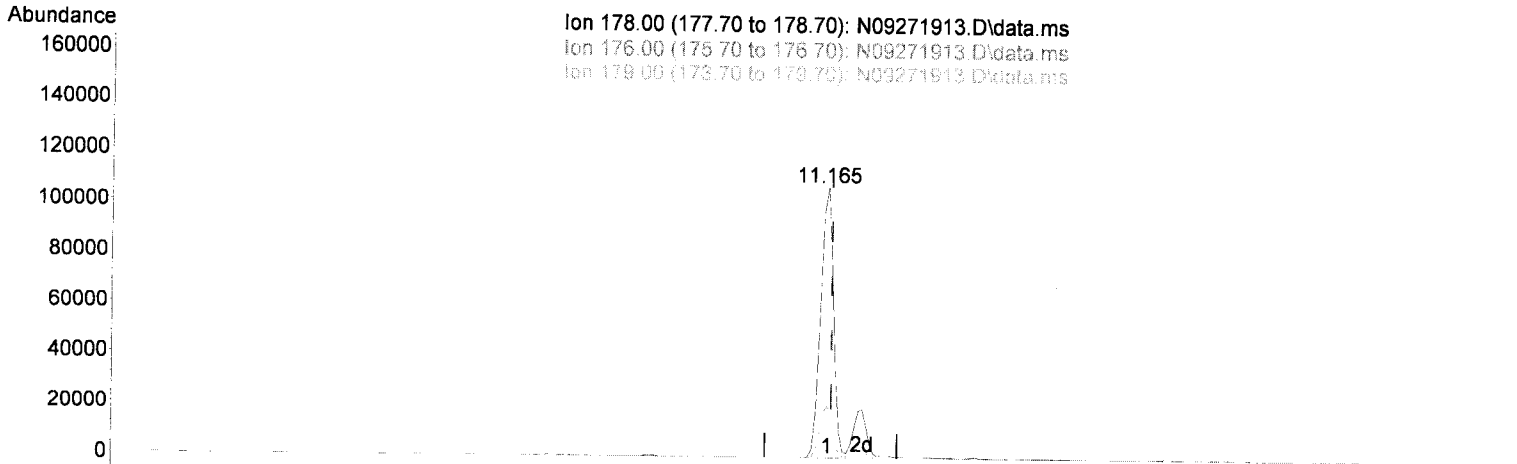
response 11097 ✓

Ion	Exp%	Act%
166.00	100.00	100.00
165.00	95.70	95.12
167.00	13.60	14.57
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : R:\data\2019-09\9I27028\
 Data File : N09271913.D
 Acq On : 27 Sep 2019 04:42 pm
 Operator :
 Sample : A9I0771-04RE2@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 30 15:07:09 2019
 Quant Method : R:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(19) Phenanthrene (T)

11.165min (-0.006) 49.16 ng/ml

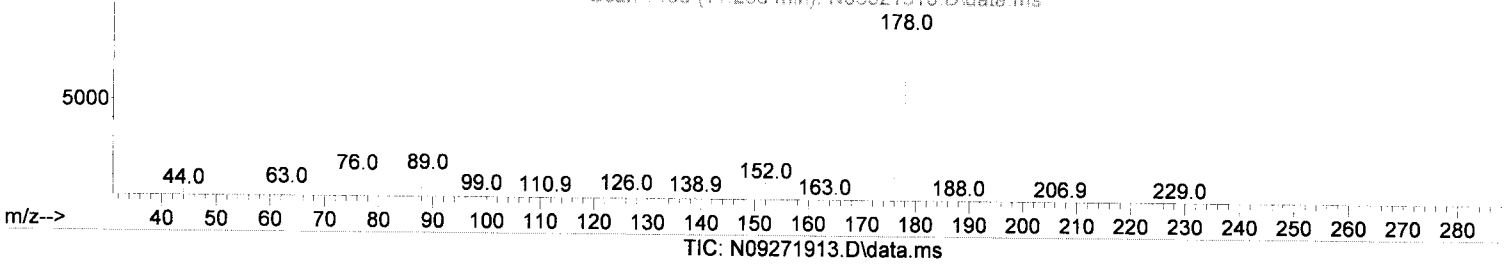
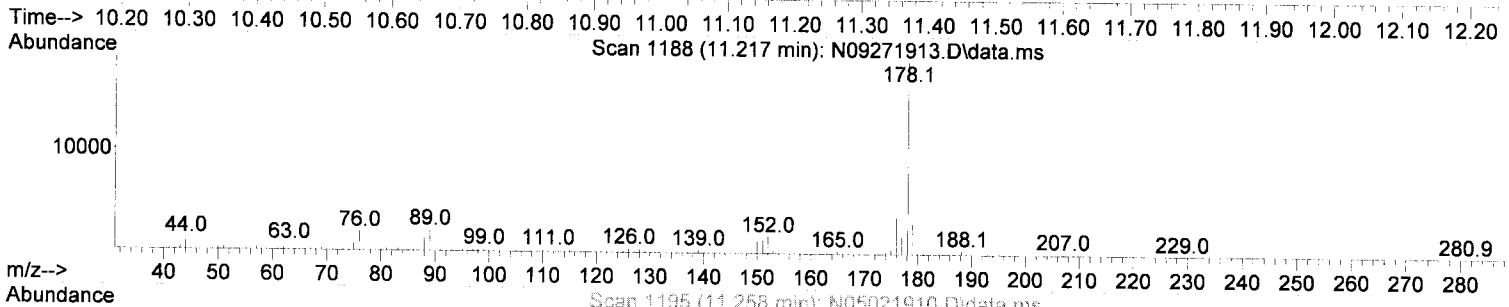
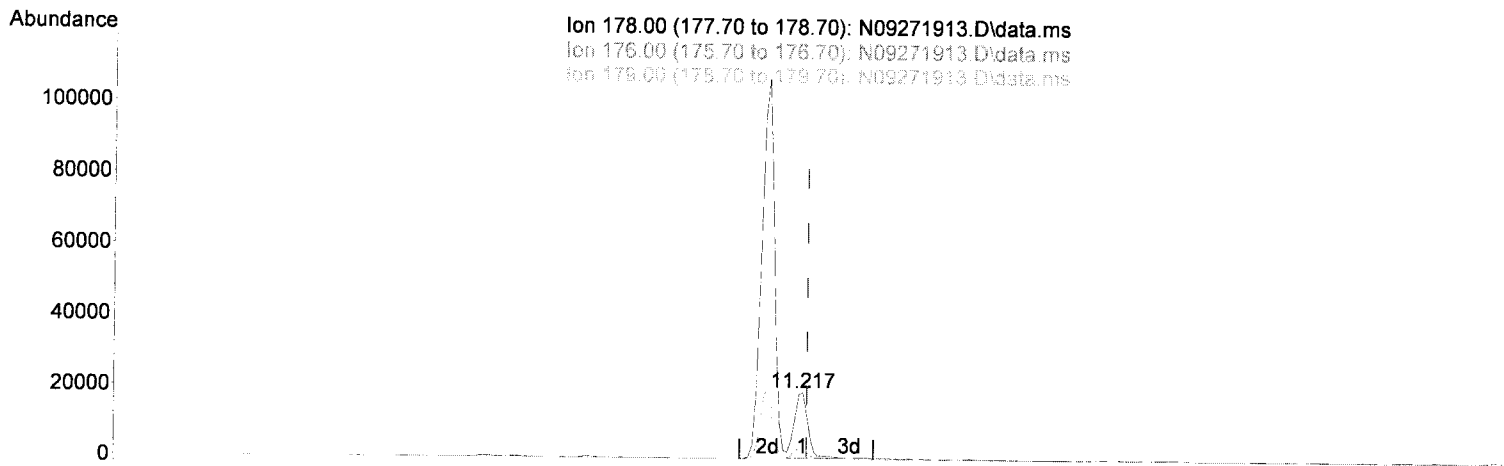
response 142652

Ion	Exp%	Act%
178.00	100.00	100.00
176.00	19.00	19.09
179.00	15.10	15.34
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : R:\data\2019-09\9I27028\
 Data File : N09271913.D
 Acq On : 27 Sep 2019 04:42 pm
 Operator :
 Sample : A9I0771-04RE2@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 30 15:07:09 2019
 Quant Method : R:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(20) Anthracene (T)

11.217min (-0.006) 9.63 ng/ml

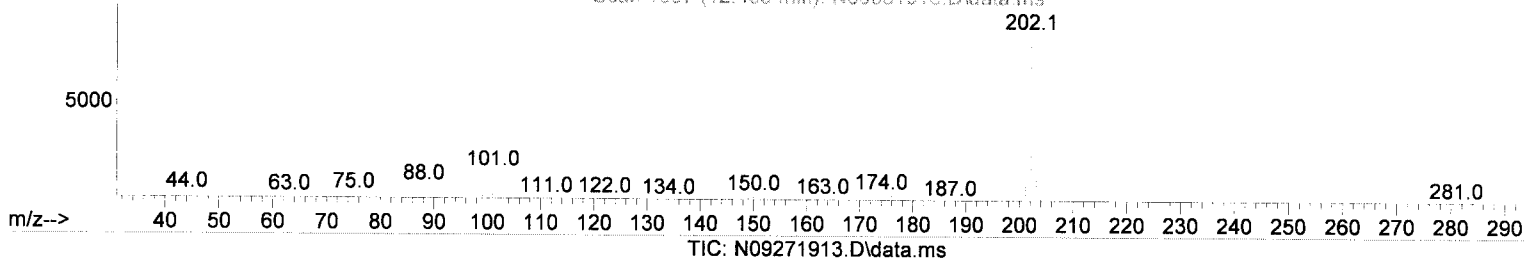
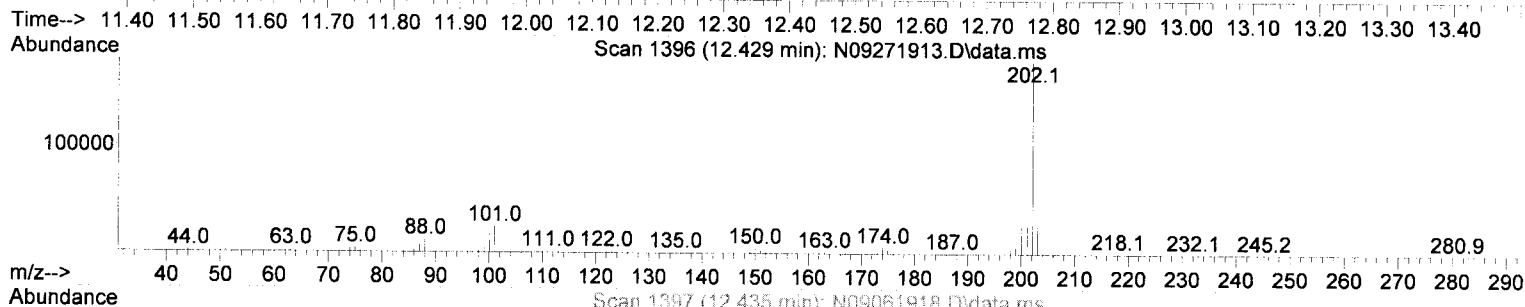
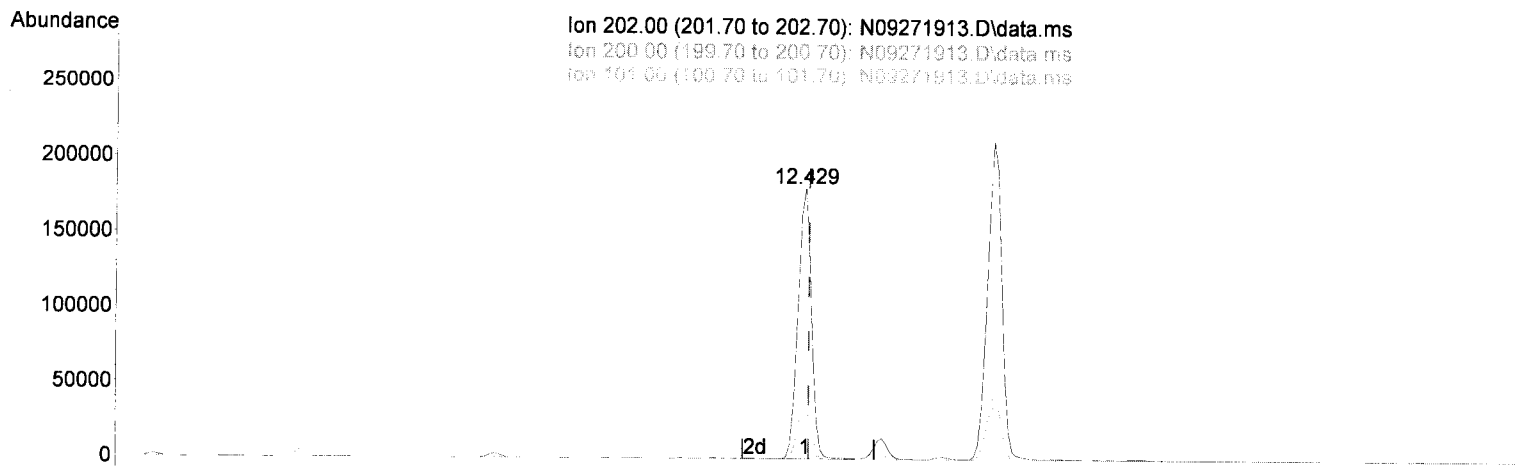
response 26002

Ion	Exp%	Act%
178.00	100.00	100.00
176.00	18.90	18.98
179.00	15.30	15.76
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : R:\data\2019-09\9I27028\
 Data File : N09271913.D
 Acq On : 27 Sep 2019 04:42 pm
 Operator :
 Sample : A9I0771-04RE2@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 30 15:07:09 2019
 Quant Method : R:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(23) Fluoranthene (T)

12.429min (-0.006) 88.12 ng/ml

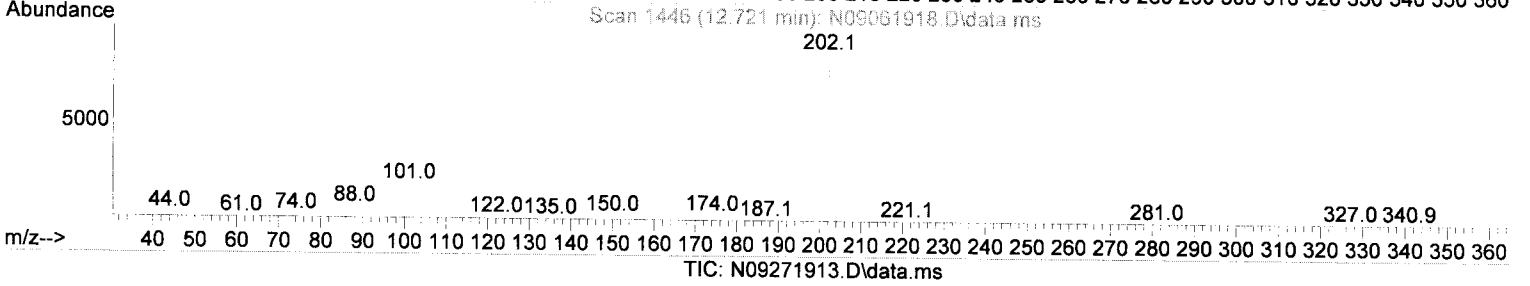
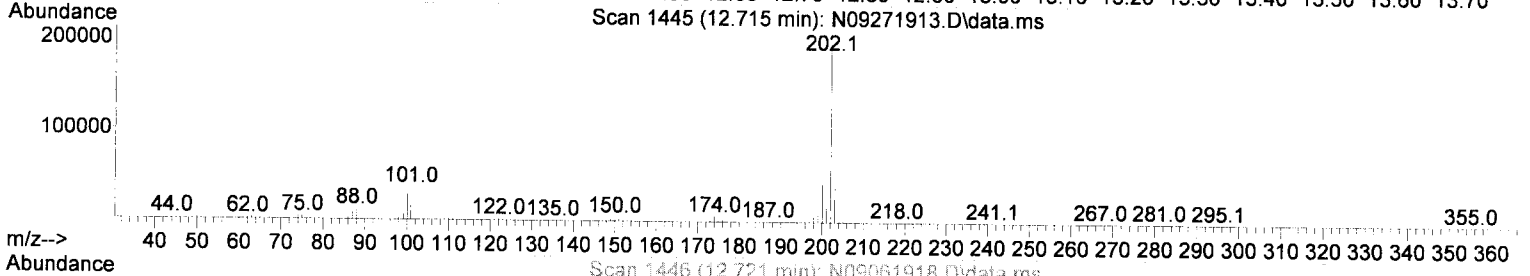
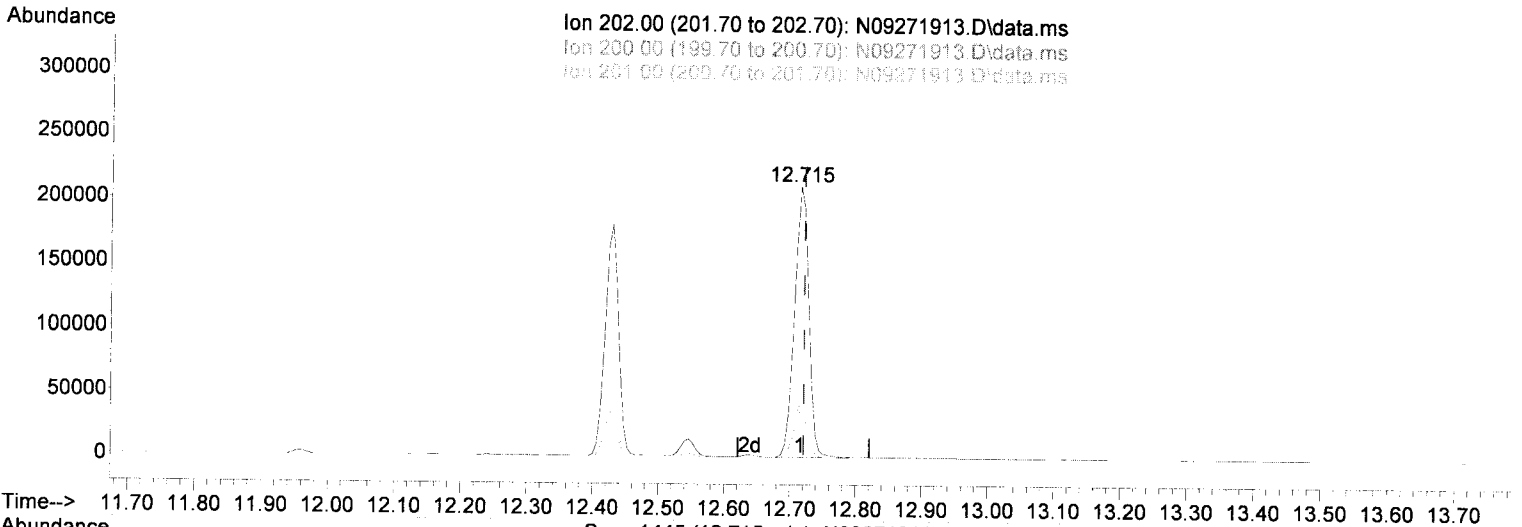
response 257644

Ion	Exp%	Act%
202.00	100.00	100.00
200.00	19.70	20.15
101.00	15.30	13.42
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : R:\data\2019-09\9I27028\
 Data File : N09271913.D
 Acq On : 27 Sep 2019 04:42 pm
 Operator :
 Sample : A9I0771-04RE2@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 30 15:07:09 2019
 Quant Method : R:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(25) Pyrene (T)

12.715min (-0.006) 92.66 ng/ml

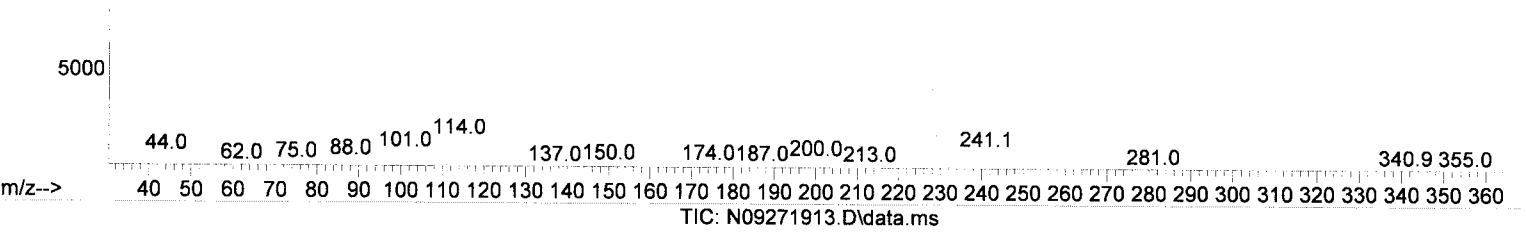
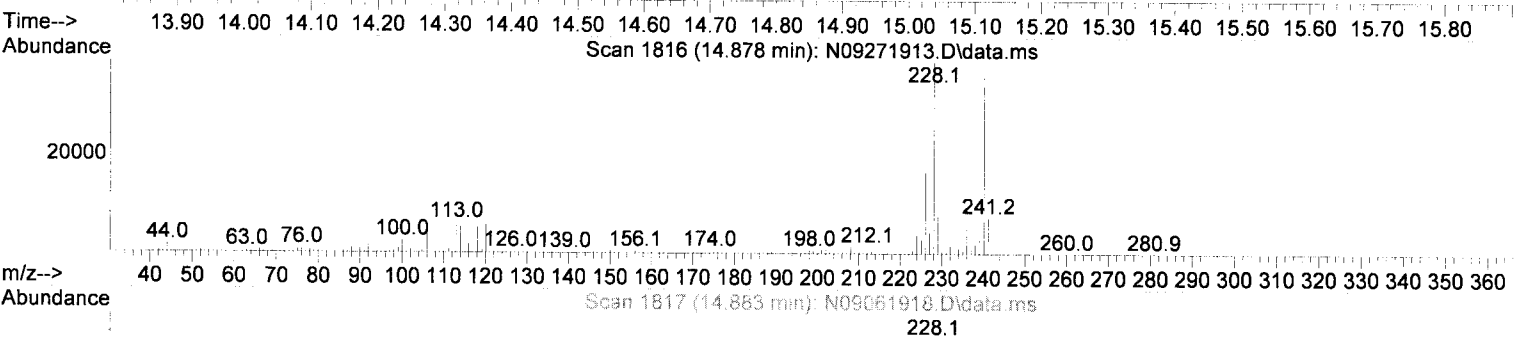
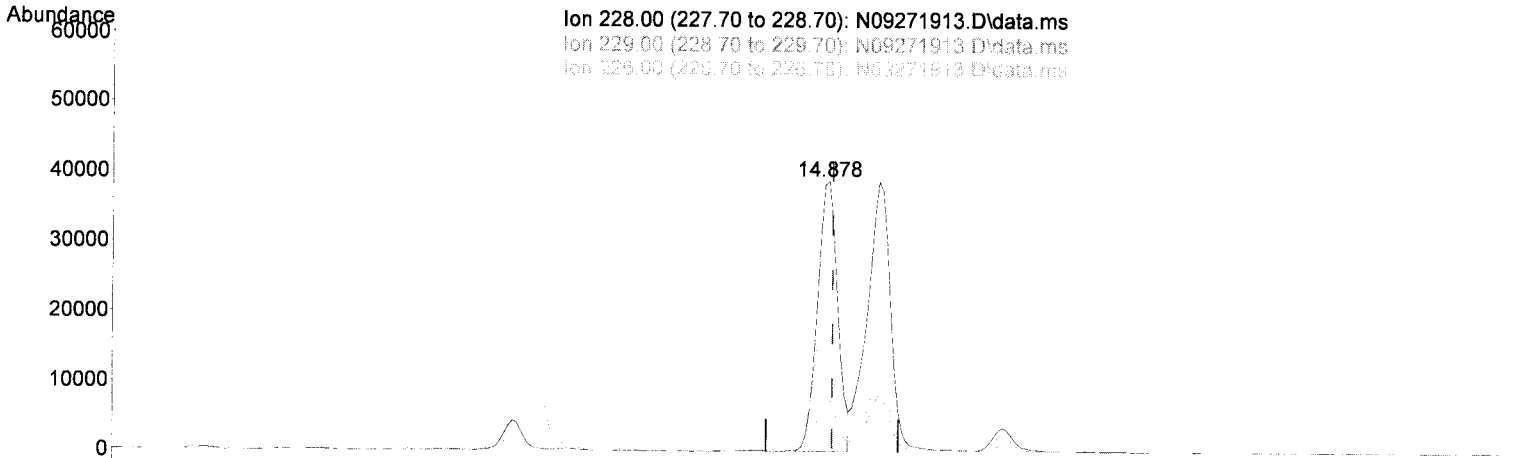
response 322775

Ion	Exp%	Act%
202.00	100.00	100.00
200.00	20.70	20.34
201.00	16.80	17.16
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : R:\data\2019-09\9I27028\
 Data File : N09271913.D
 Acq On : 27 Sep 2019 04:42 pm
 Operator :
 Sample : A9I0771-04RE2@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 30 15:07:09 2019
 Quant Method : R:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(27) Benz(a)anthracene (T)

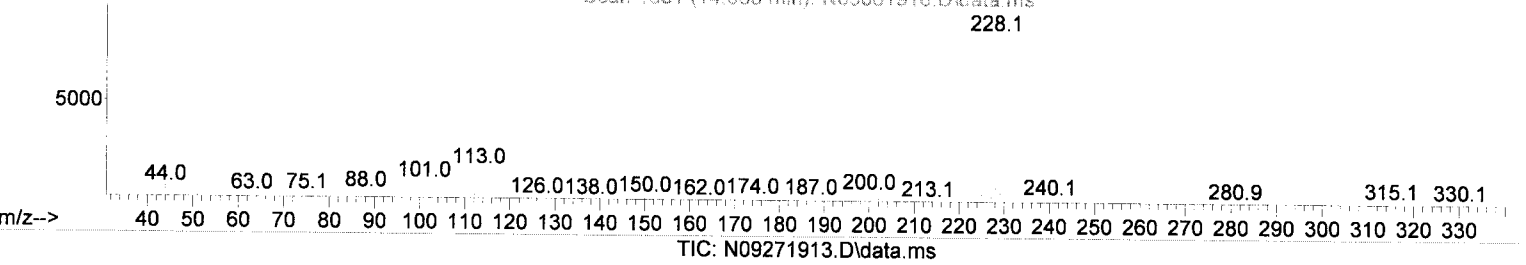
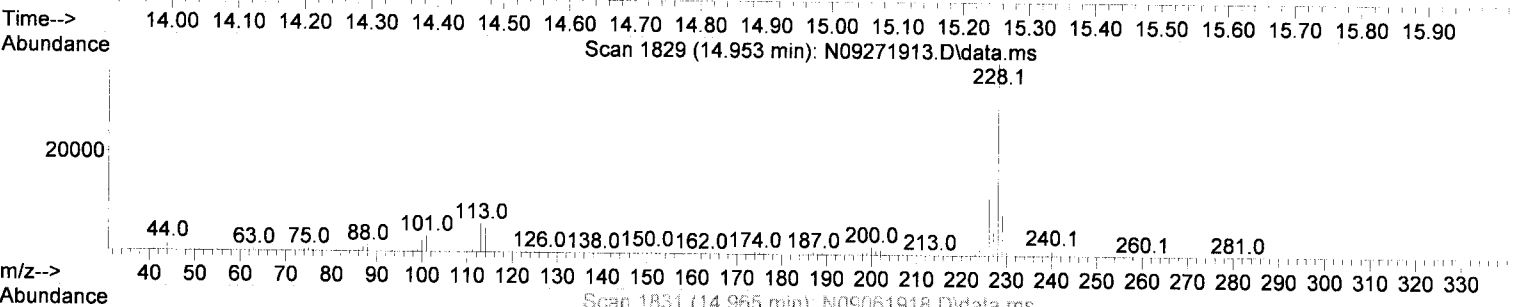
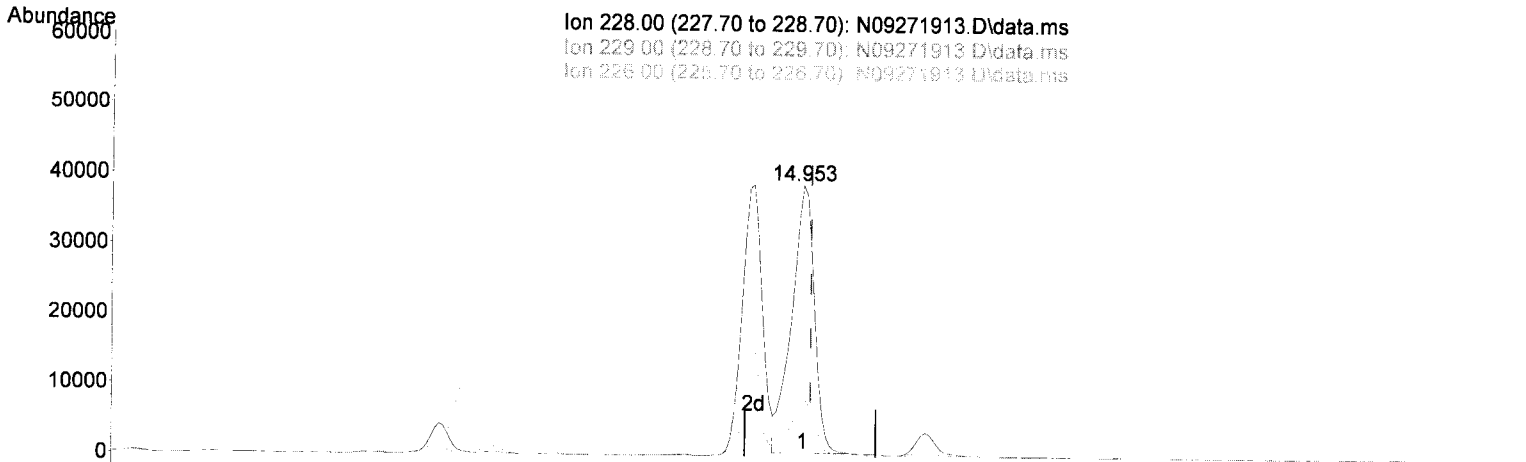
14.878min (-0.005) 31.64 ng/ml

response	81908
Ion	Exp% Act%
228.00	100.00 100.00
229.00	19.40 19.67
226.00	26.20 42.75
0.00	0.00 0.00

Quantitation Report (Qedit)

Data Path : R:\data\2019-09\9I27028\
 Data File : N09271913.D
 Acq On : 27 Sep 2019 04:42 pm
 Operator :
 Sample : A9I0771-04RE2@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 30 15:07:09 2019
 Quant Method : R:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(28) Chrysene (T)

14.953min (-0.012) 37.76 ng/ml

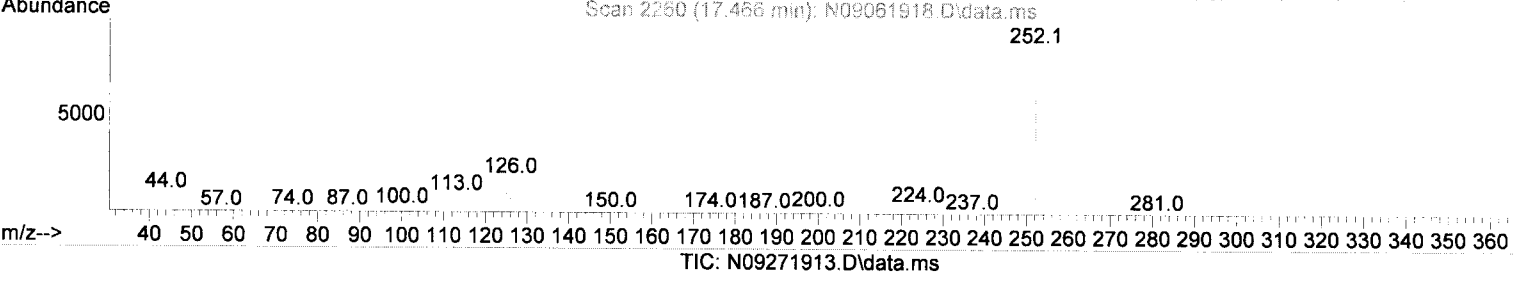
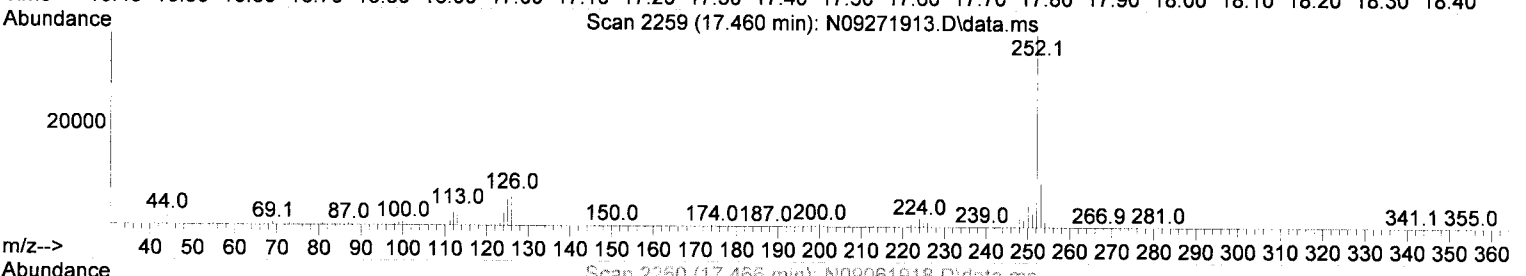
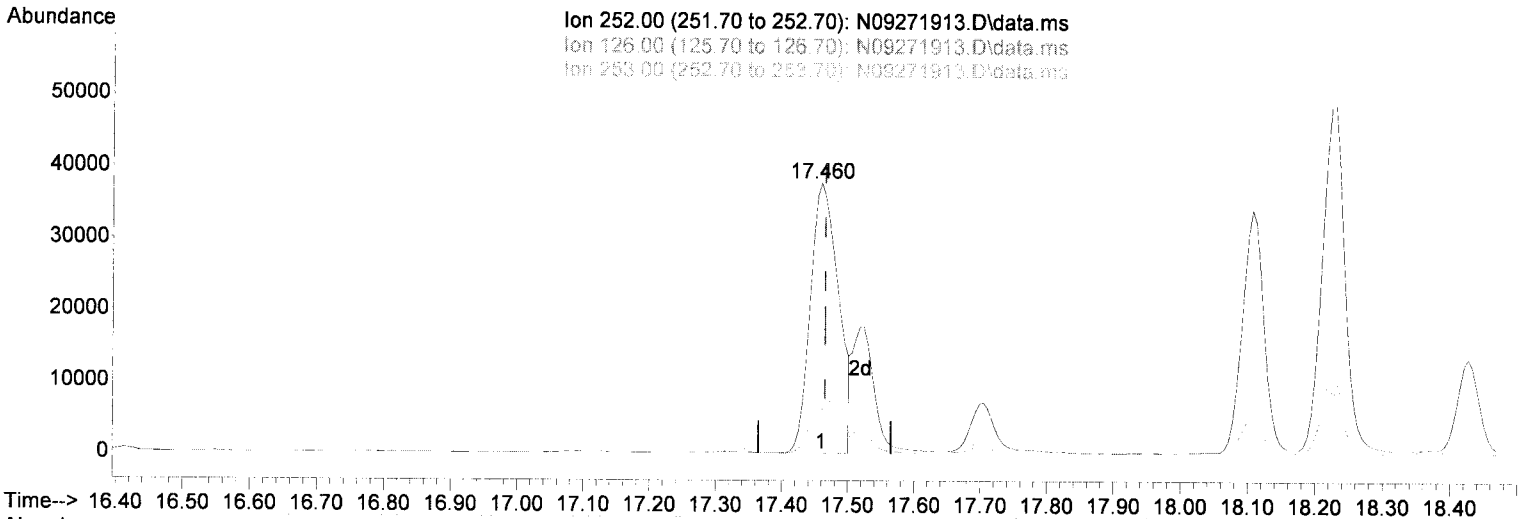
response 92497

Ion	Exp%	Act%
228.00	100.00	100.00
229.00	19.60	21.09
226.00	28.60	29.89
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : R:\data\2019-09\9I27028\
 Data File : N09271913.D
 Acq On : 27 Sep 2019 04:42 pm
 Operator :
 Sample : A9I0771-04RE2@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 30 15:07:09 2019
 Quant Method : R:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(30) Benzo(b)fluoranthene (T)

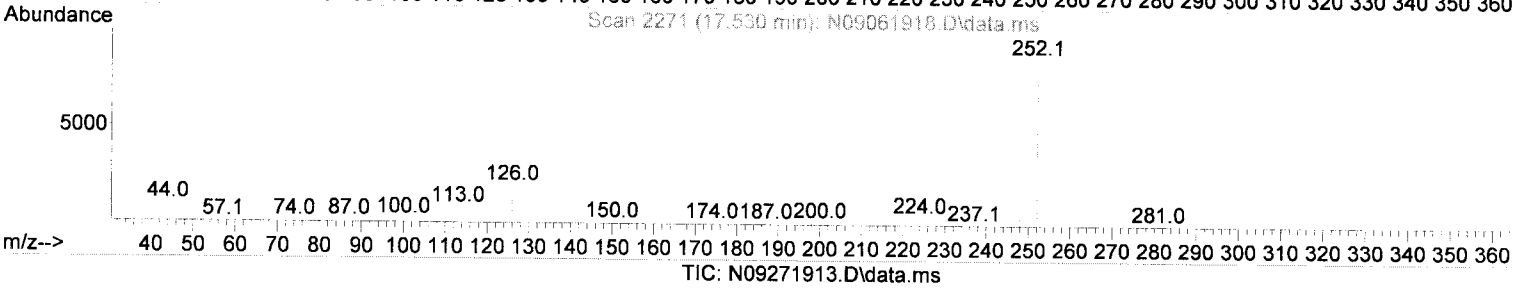
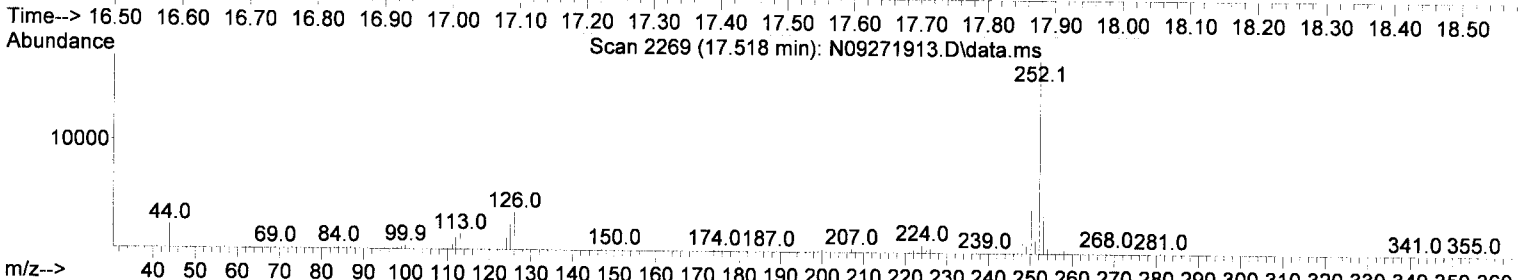
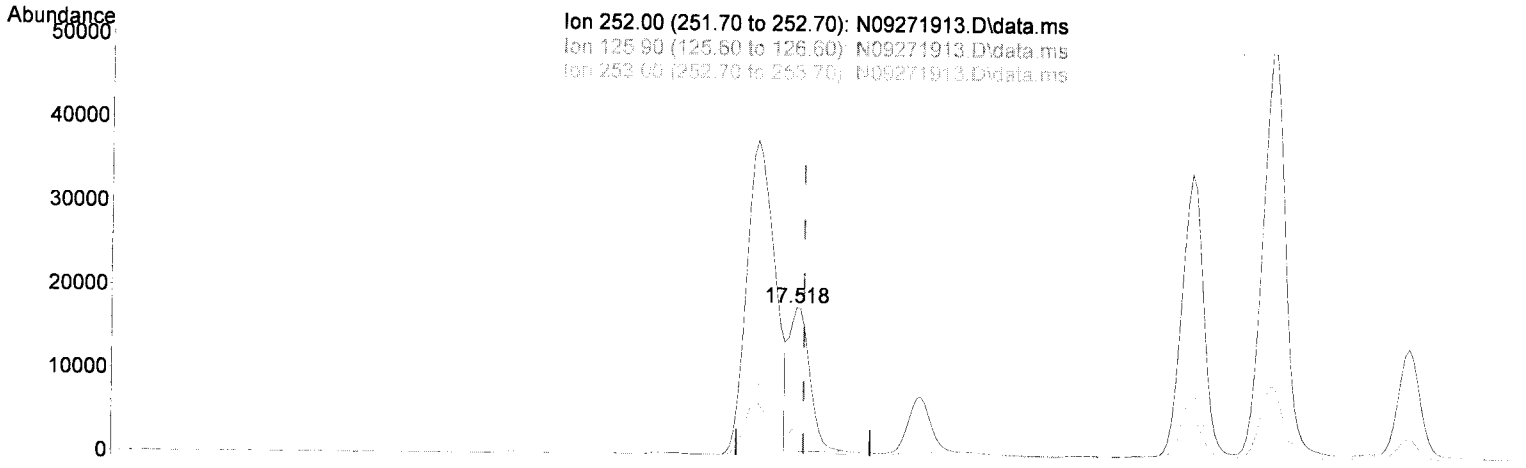
17.460min (-0.005) 46.99 ng/ml

response	111229
Ion	Exp% Act%
252.00	100.00 100.00
126.00	20.00 16.83
253.00	21.10 23.07
0.00	0.00 0.00

Quantitation Report (Qedit)

Data Path : R:\data\2019-09\9I27028\
 Data File : N09271913.D
 Acq On : 27 Sep 2019 04:42 pm
 Operator :
 Sample : A9I0771-04RE2@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 30 15:07:09 2019
 Quant Method : R:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(31) Benzo(k)fluoranthene (T)

17.518min (-0.011) 16.04 ng/ml (m)
 response 37379

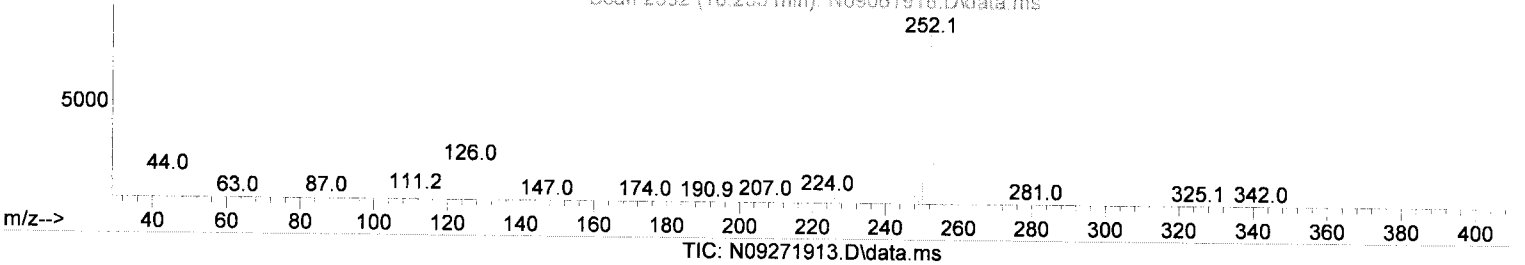
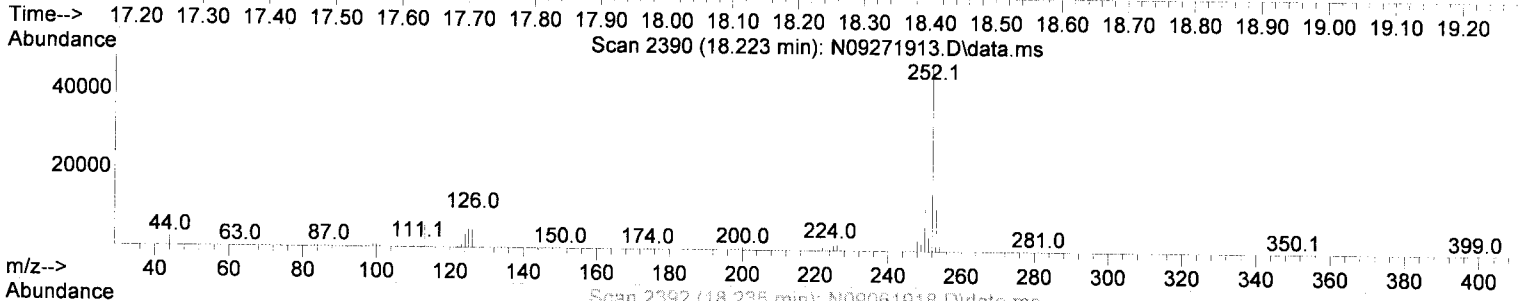
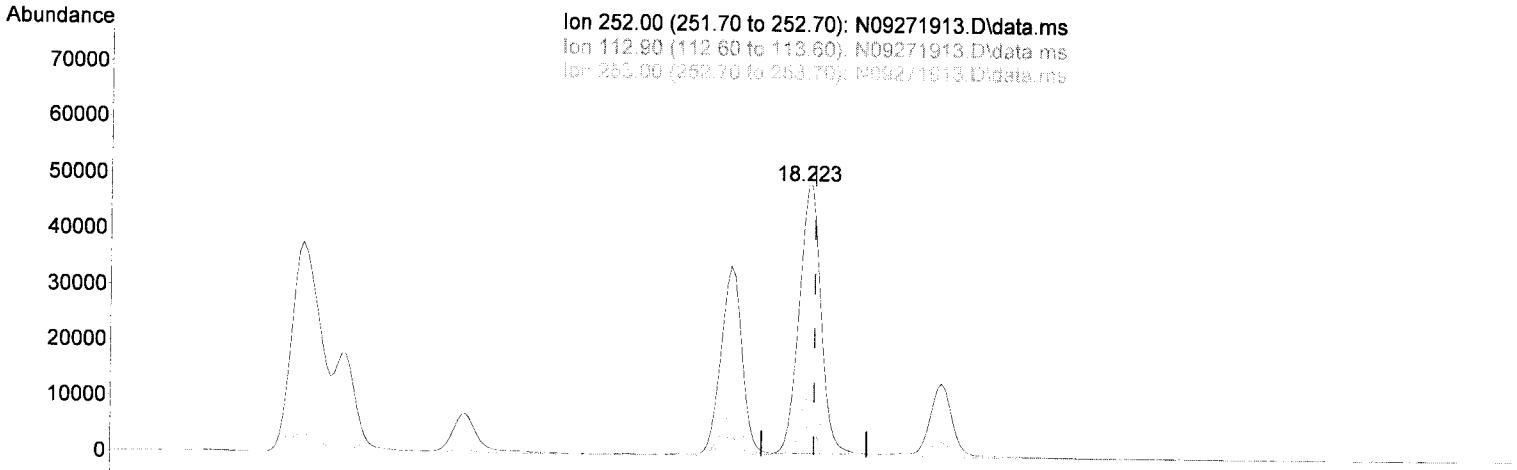
Handwritten: HML 9/30/19 MWS ✓

Ion	Exp%	Act%
252.00	100.00	100.00
125.90	22.10	19.58
253.00	21.50	23.34
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : R:\data\2019-09\9I27028\
 Data File : N09271913.D
 Acq On : 27 Sep 2019 04:42 pm
 Operator :
 Sample : A9I0771-04RE2@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 30 15:07:09 2019
 Quant Method : R:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(35) Benzo(a)pyrene (T)

18.223min (-0.011) 54.91 ng/ml

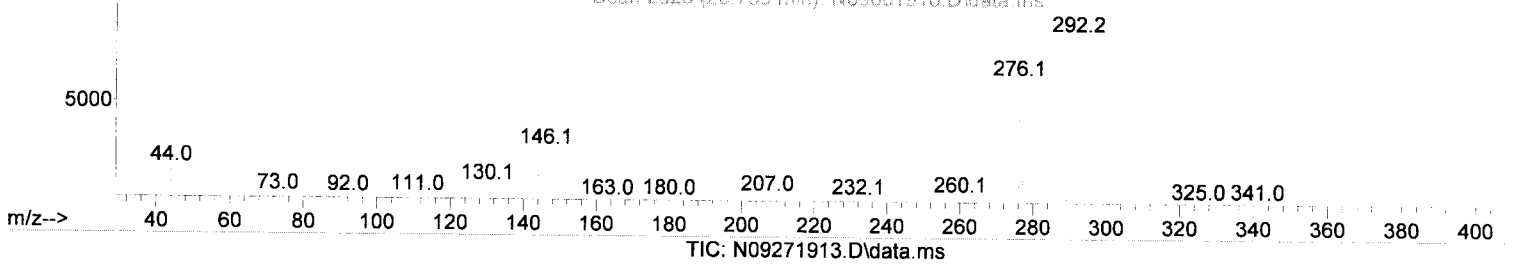
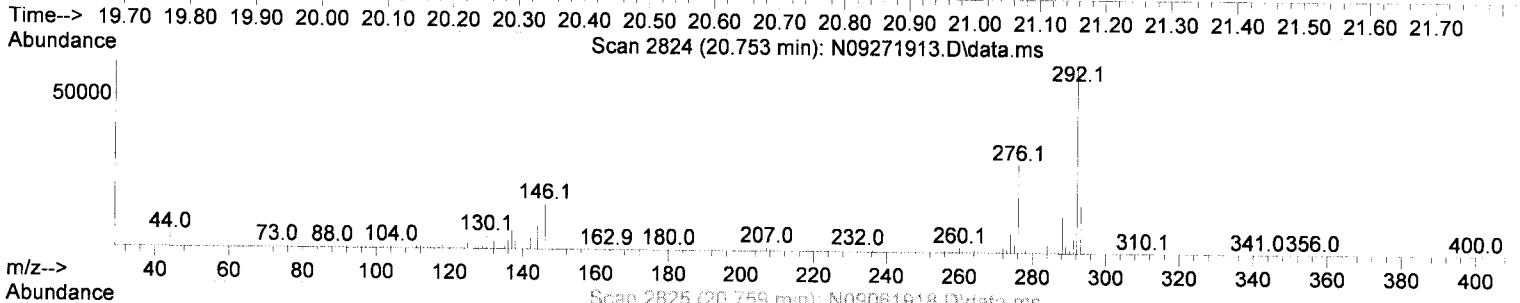
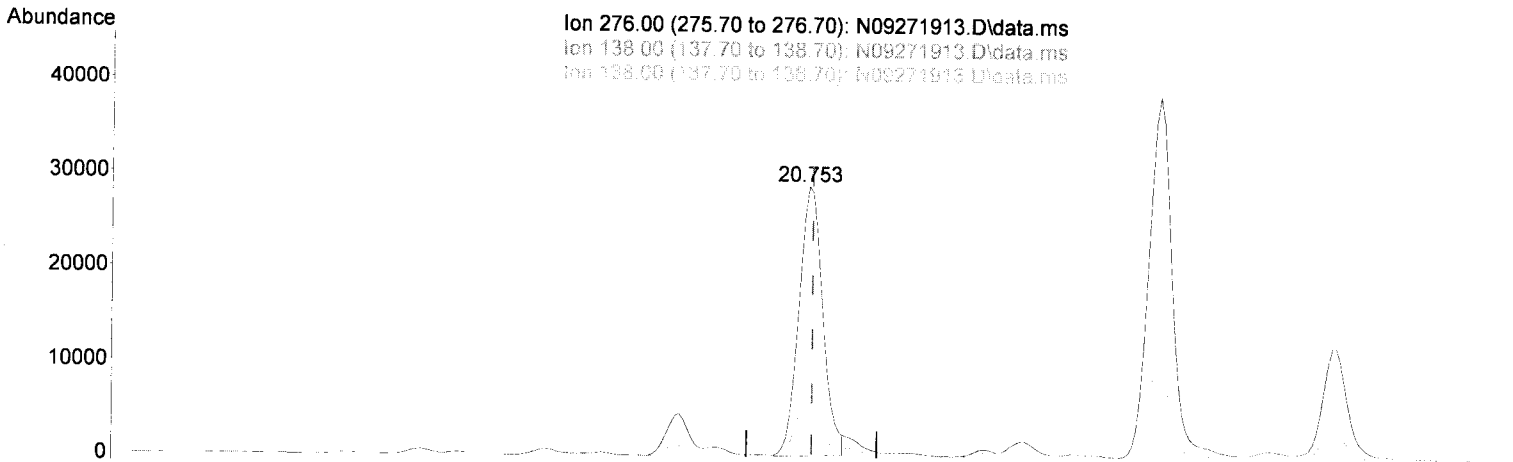
response 111256

Ion	Exp%	Act%
252.00	100.00	100.00
112.90	12.70	11.16
253.00	21.90	21.87
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : R:\data\2019-09\9I27028\
 Data File : N09271913.D
 Acq On : 27 Sep 2019 04:42 pm
 Operator :
 Sample : A9I0771-04RE2@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 30 15:07:09 2019
 Quant Method : R:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(38) Indeno (1,2,3-cd) Pyrene (T)

20.753min (-0.005) 37.33 ng/ml (m)

Handwritten: Jean 9/30/19

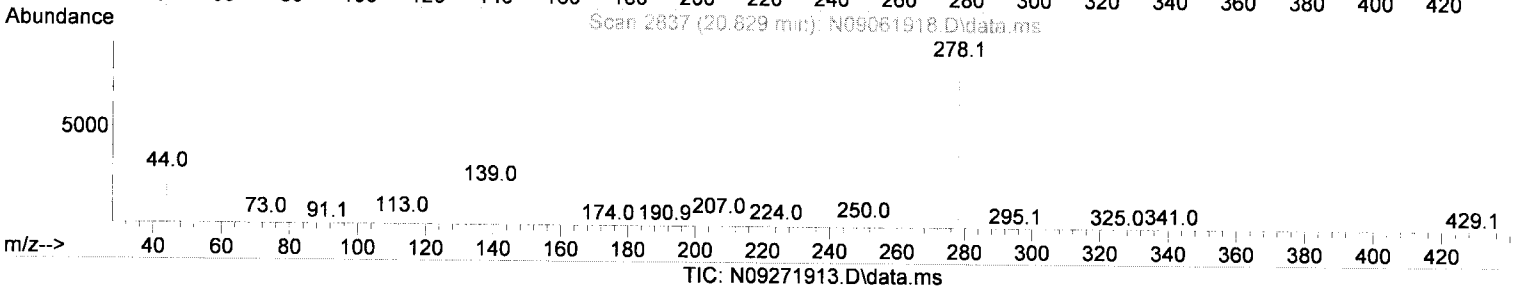
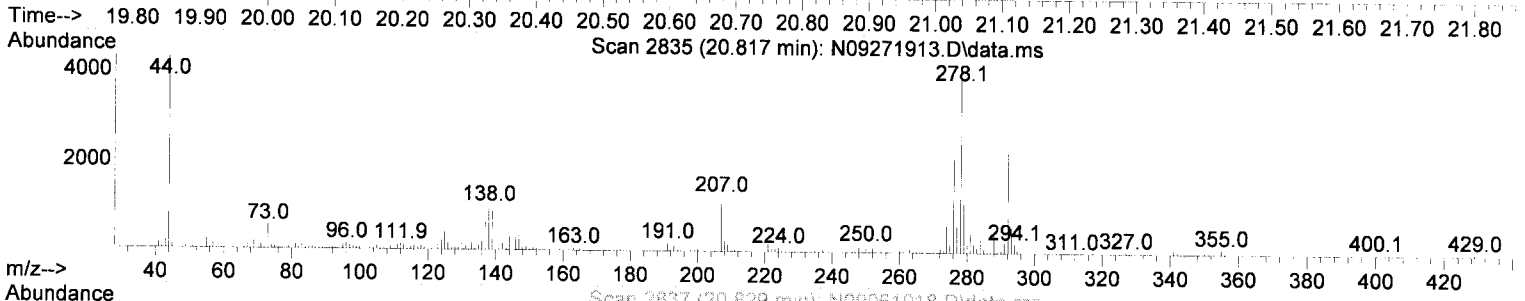
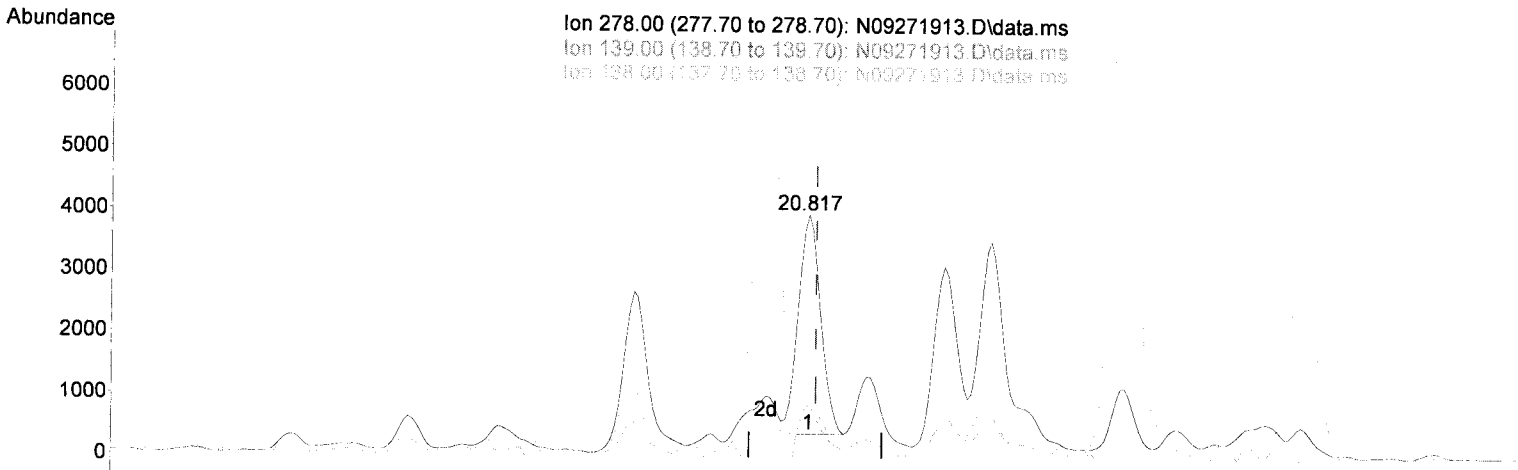
response 73022

Ion	Exp%	Act%
276.00	100.00	100.00
138.00	31.60	24.09
138.00	31.60	24.09
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : R:\data\2019-09\9I27028\
 Data File : N09271913.D
 Acq On : 27 Sep 2019 04:42 pm
 Operator :
 Sample : A9I0771-04RE2@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 30 15:07:09 2019
 Quant Method : R:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(39) Dibenz(a,h)anthracene (T)

20.817min (-0.011) 4.55 ng/ml

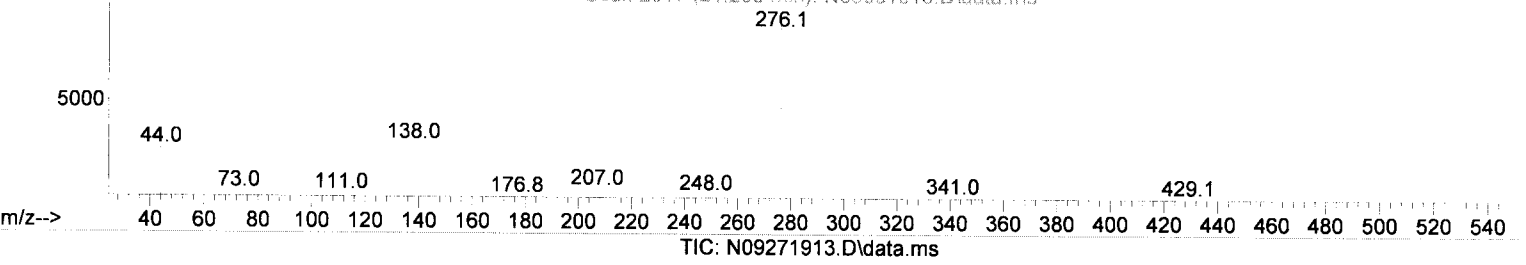
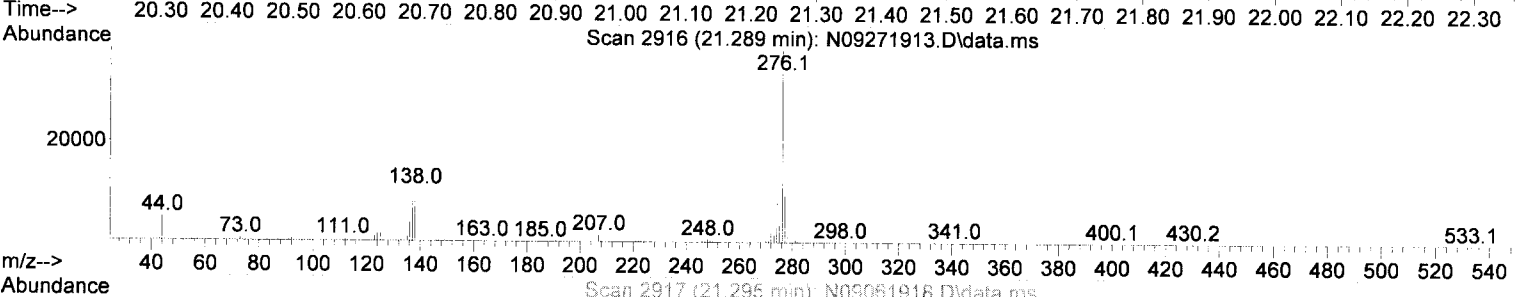
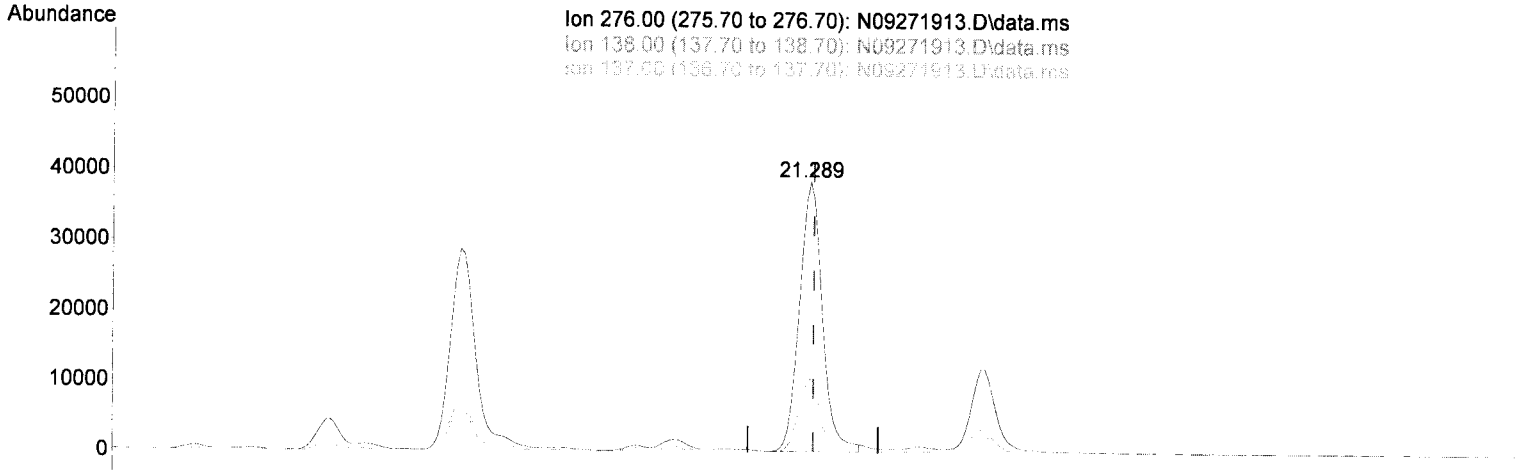
response 8371

Ion	Exp%	Act%
278.00	100.00	100.00
139.00	26.00	21.92
138.00	19.90	25.25
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : R:\data\2019-09\9I27028\
 Data File : N09271913.D
 Acq On : 27 Sep 2019 04:42 pm
 Operator :
 Sample : A9I0771-04RE2@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 30 15:07:09 2019
 Quant Method : R:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



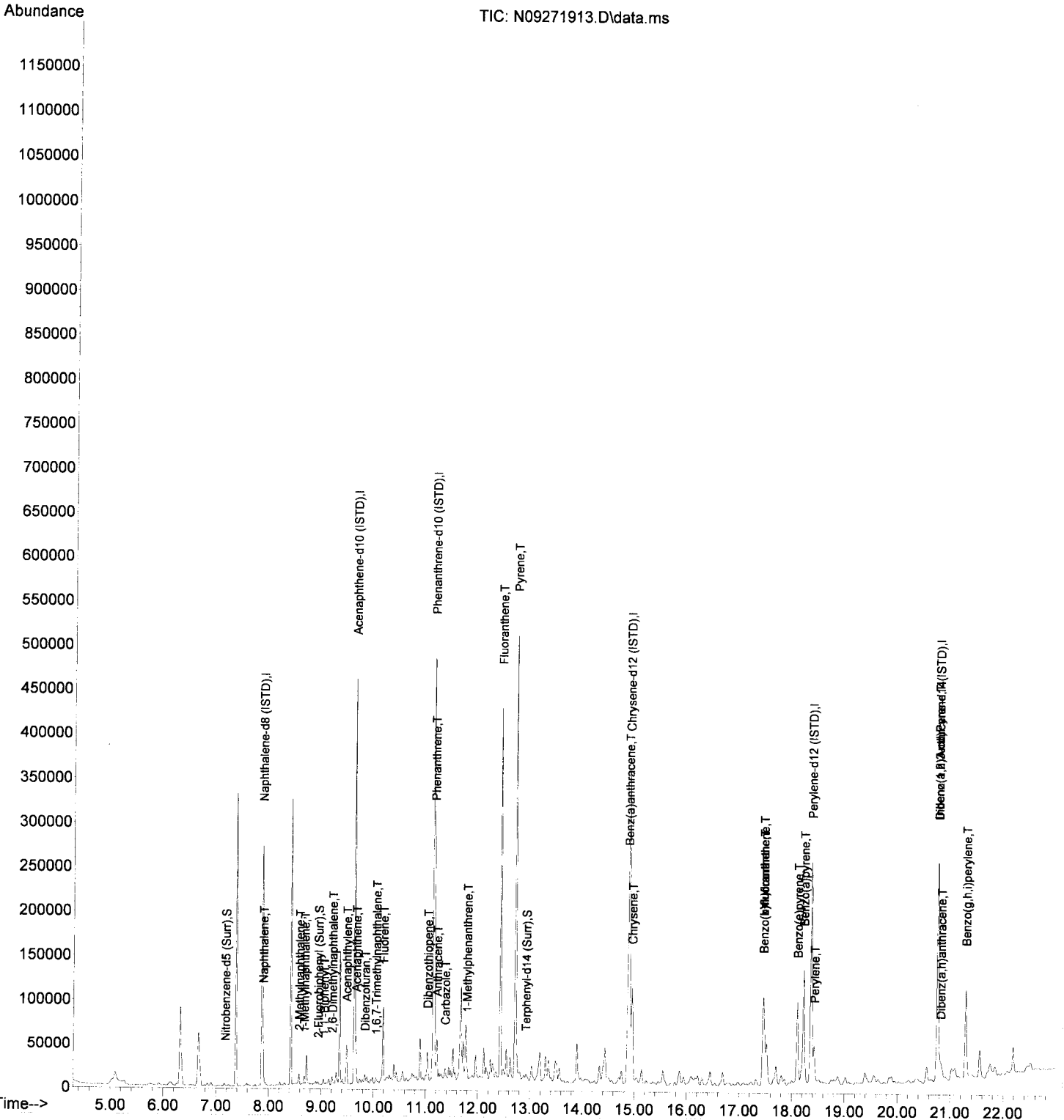
(40) Benzo(g,h,i)perylene (T)

21.289min (-0.005) 45.12 ng/ml

response	93613	
Ion	Exp%	Act%
276.00	100.00	100.00
138.00	34.40	27.37
137.00	28.60	23.27
0.00	0.00	0.00

Data Path : R:\data\2019-09\9I27028\
 Data File : N09271913.D
 Acq On : 27 Sep 2019 04:42 pm
 Operator :
 Sample : A9I0771-04RE2@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 30 15:07:09 2019
 Quant Method : R:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



Data Path : R:\data\2019-09\9I27028\
 Data File : N09271914.D
 Acq On : 27 Sep 2019 05:14 pm
 Operator :
 Sample : A9I0771-05RE2@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 13 Sample Multiplier: 1

Team 9/30/19
MOS

Quant Time: Sep 30 15:07:14 2019
 Quant Method : R:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	Qvalue
Internal Standards							
1) Naphthalene-d8 (ISTD)	7.877	136	184635	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.632	162	133483	100.00	ng/ml	0.00	
17) Phenanthrene-d10 (ISTD)	11.141	188	253233	100.00	ng/ml	0.00	
24) Chrysene-d12 (ISTD)	14.901	240	225279	100.00	ng/ml	0.00	
29) Perylene-d12 (ISTD)	18.369	264	209097	100.00	ng/ml	0.00	
37) Dibenz(a,h)Anthracene-d...	20.759	292	161006	100.00	ng/ml	0.00	
System Monitoring Compounds							
2) Nitrobenzene-d5 (Surr)	7.178	82	445	0.73	ng/ml	0.00	
10) 2-Fluorobiphenyl (Surr)	8.944	172	1314	0.66	ng/ml	0.00	
11) Acenaphthylene d-8 (Surr)	9.474	160	2843	-1.00	ng/ml	0.00	
26) Terphenyl-d14 (Surr)	12.925	244	1749	0.74	ng/ml	0.00	
33) Benzo(a)pyrene d-12 (S...	18.182	264	112	0.07	ng/ml	0.00	
Target Compounds							
3) Decalin	0.000		0	N.D.			
4) Naphthalene	7.895	128	22533	11.07	ng/ml		100
5) 2-Methylnaphthalene	8.583	142	5732	8.32	ng/ml		99
6) 1-Methylnaphthalene	8.682	142	3730	2.16	ng/ml		97
7) 1,1'-Biphenyl	9.049	154	1928	0.83	ng/ml		84
8) 2,6-Dimethylnaphthalene	9.212	156	2605	1.54	ng/ml		98
12) Acenaphthylene	9.486	152	6198	2.14	ng/ml		96
13) Acenaphthene	9.667	153	15526	8.18	ng/ml		97
14) Dibenzofuran	9.842	168	1700	0.72	ng/ml		78
15) 1,6,7-Trimethylnaphtha...	10.051	170	1713	1.08	ng/ml		88
16) Fluorene	10.185	166	8733	4.50	ng/ml		97
18) Dibenzothiopene	11.036	184	11828	4.47	ng/ml		97
19) Phenanthrene	11.165	178	117856	39.77	ng/ml		99
20) Anthracene	11.217	178	30975	11.24	ng/ml		99
21) Carbazole	11.375	167	5527	2.48	ng/ml		94
22) 1-Methylphenanthrene	11.788	192	9954	4.84	ng/ml		99
23) Fluoranthene	12.430	202	158677	53.15	ng/ml		98
25) Pyrene	12.715	202	223803	63.59	ng/ml		99
27) Benz(a)anthracene	14.878	228	72928	27.88	ng/ml		86
28) Chrysene	14.953	228	91415	36.93	ng/ml		98
30) Benzo(b)fluoranthene	17.460	252	91401	37.88	ng/ml		95
31) Benzo(k)fluoranthene	17.460	252	109724	46.19	ng/ml		93
32) Benzo(b+k)fluoranthene	17.460	252	125013	50.66	ng/ml		93
34) Benzo(e)pyrene	18.107	252	61637	25.26	ng/ml		99
35) Benzo(a)pyrene	18.229	252	91034	44.08	ng/ml		98
36) Perylene	18.427	252	23649	9.30	ng/ml		100
38) Indeno(1,2,3-cd)Pyrene	20.753	276	55214	27.81	ng/ml		89
39) Dibenz(a,h)anthracene	20.817	278	7844	4.20	ng/ml		90
40) Benzo(g,h,i)perylene	21.289	276	69274	32.89	ng/ml		89

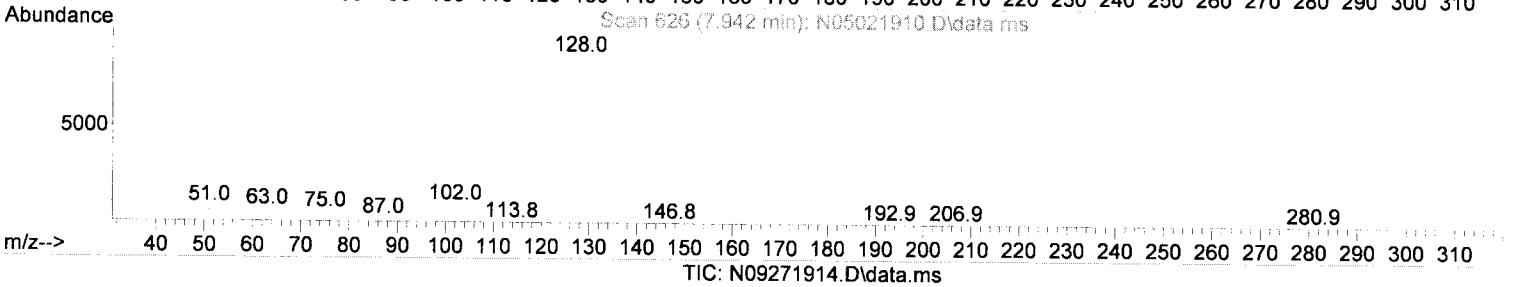
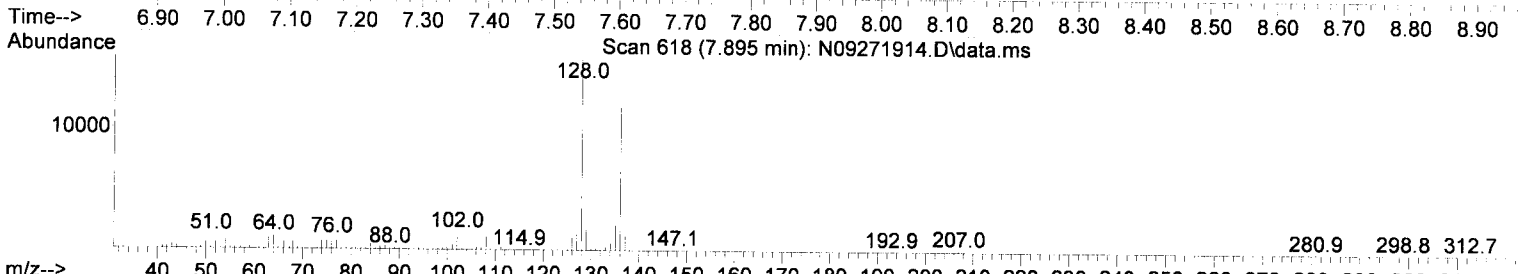
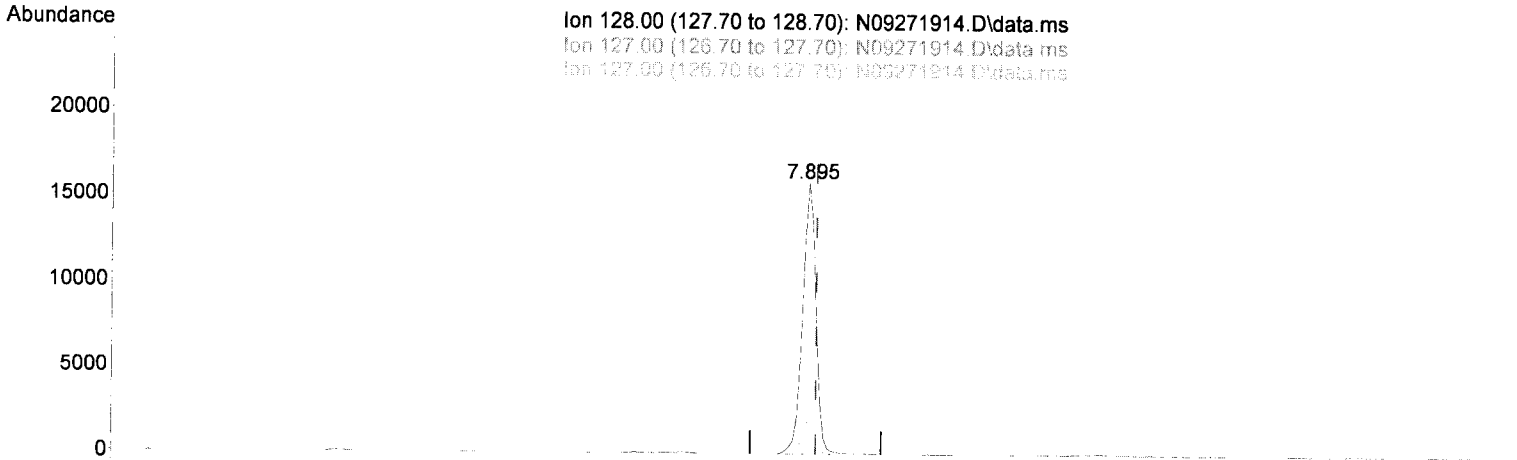
ME - MOS
ME
ME

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : R:\data\2019-09\9I27028\
 Data File : N09271914.D
 Acq On : 27 Sep 2019 05:14 pm
 Operator :
 Sample : A9I0771-05RE2@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 30 15:07:14 2019
 Quant Method : R:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(4) Naphthalene (T)

7.895min (-0.012) 11.07 ng/ml

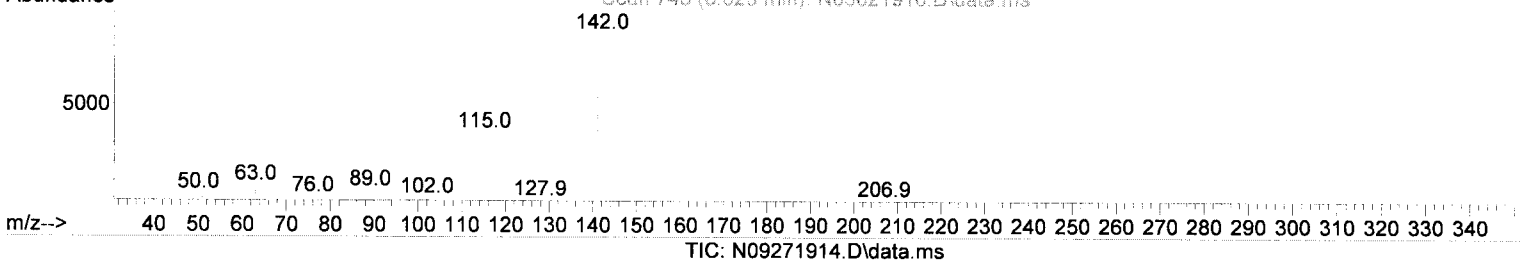
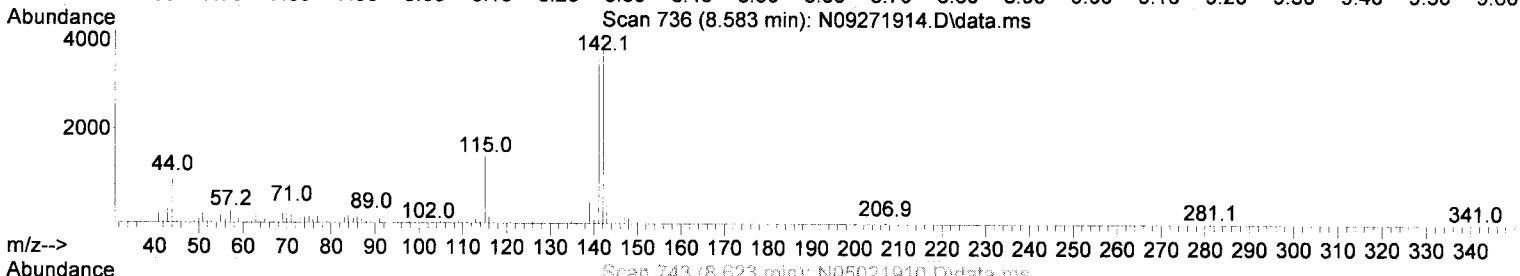
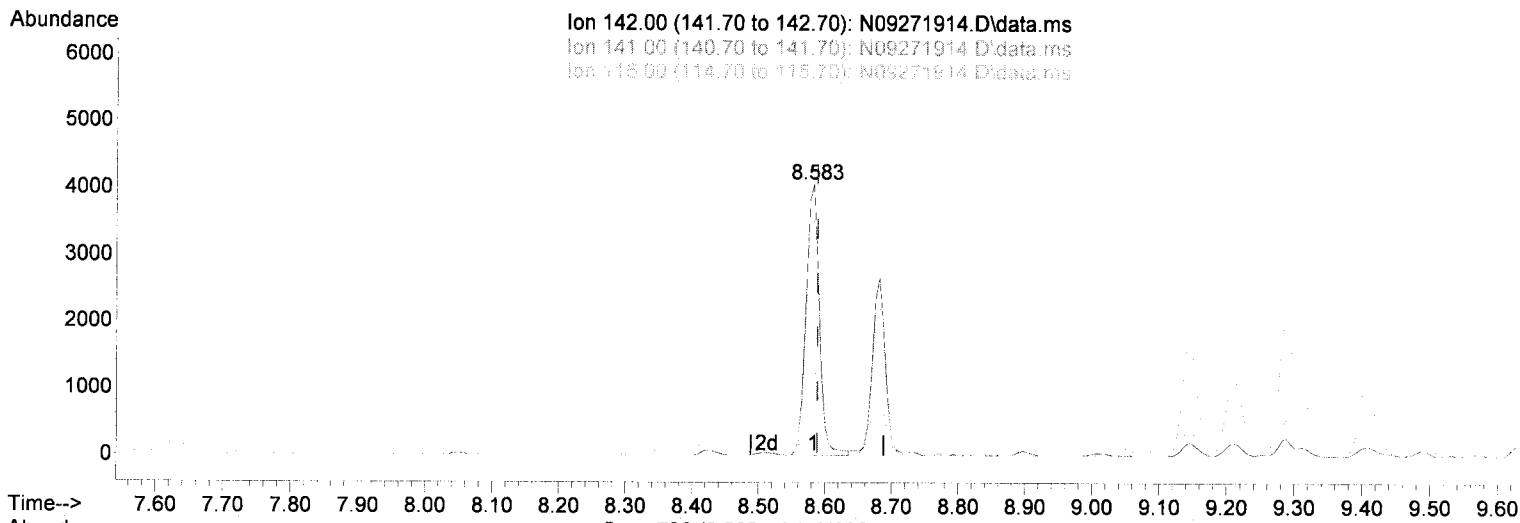
response 22533

Ion	Exp%	Act%
128.00	100.00	100.00
127.00	12.60	12.66
127.00	12.60	12.66
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : R:\data\2019-09\9I27028\
 Data File : N09271914.D
 Acq On : 27 Sep 2019 05:14 pm
 Operator :
 Sample : A9I0771-05RE2@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 30 15:07:14 2019
 Quant Method : R:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(5) 2-Methylnaphthalene (T)

8.583min (-0.006) 3.32 ng/ml

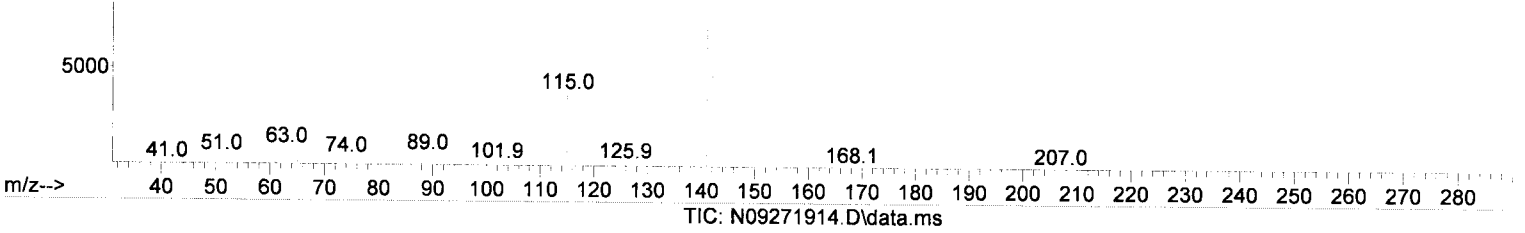
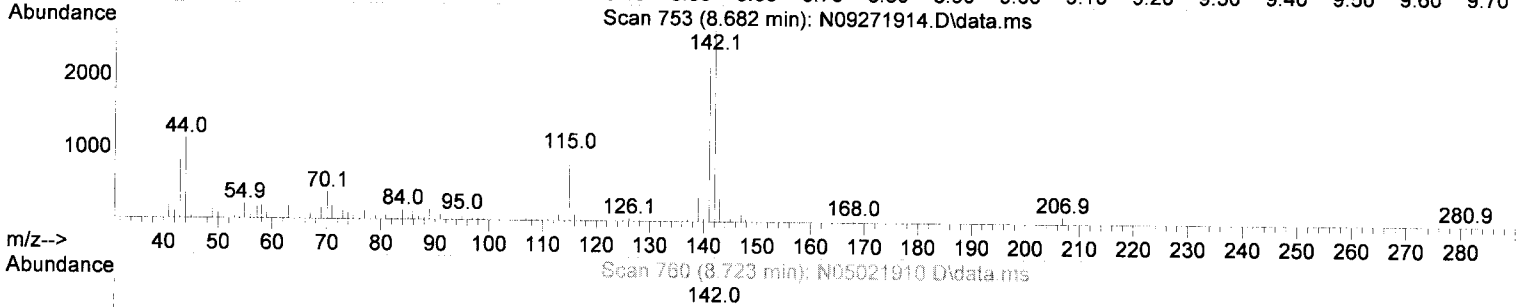
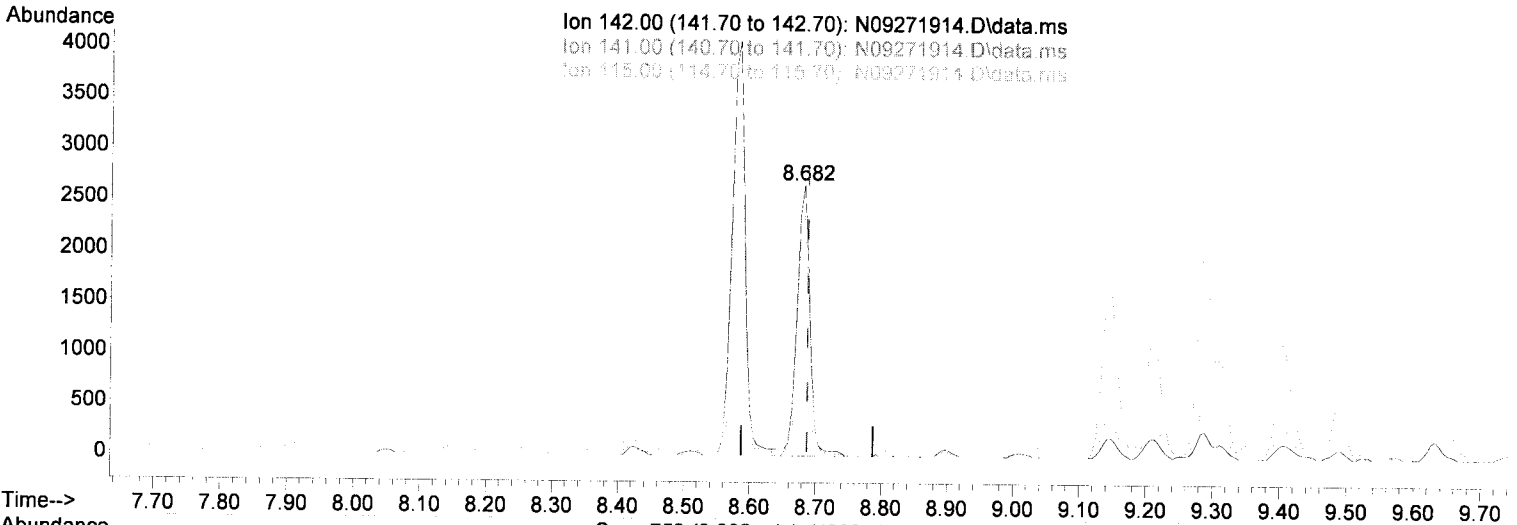
response 5732

Ion	Exp%	Act%
142.00	100.00	100.00
141.00	86.60	86.90
115.00	35.70	34.76
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : R:\data\2019-09\9I27028\
 Data File : N09271914.D
 Acq On : 27 Sep 2019 05:14 pm
 Operator :
 Sample : A9I0771-05RE2@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 30 15:07:14 2019
 Quant Method : R:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(6) 1-Methylnaphthalene (T)

8.682min (-0.006) 2.16 ng/ml

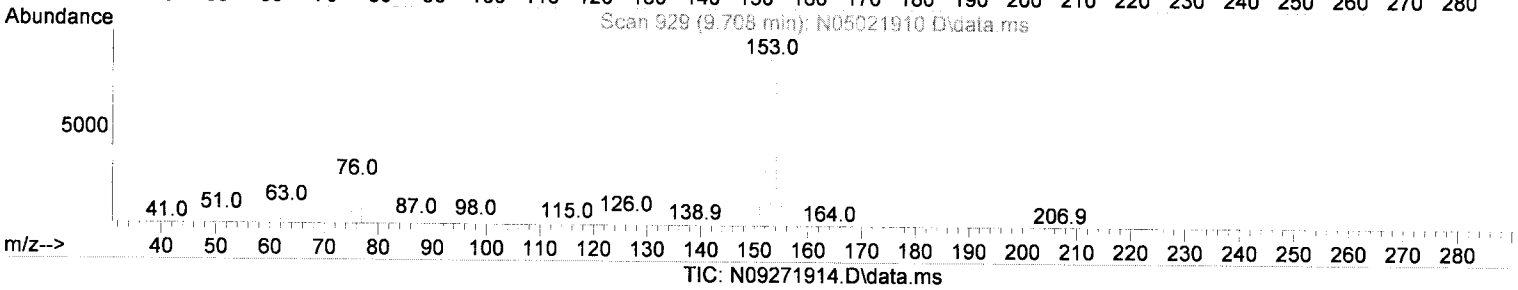
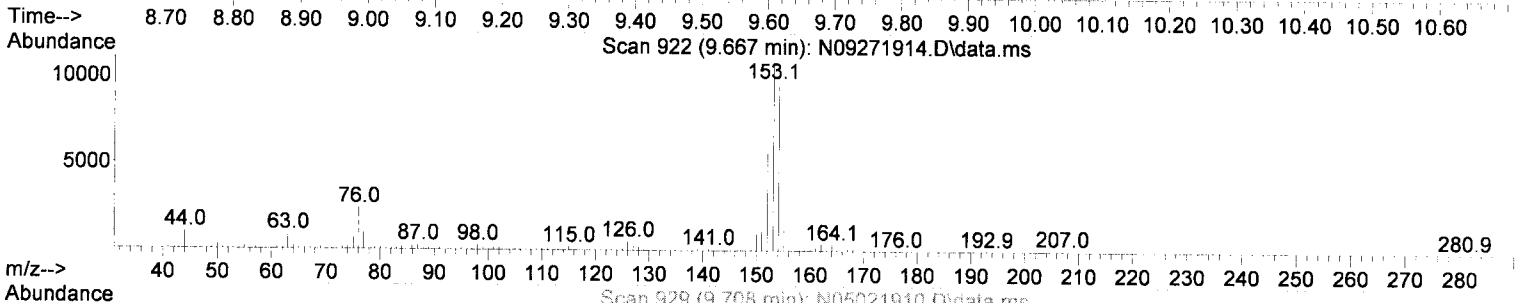
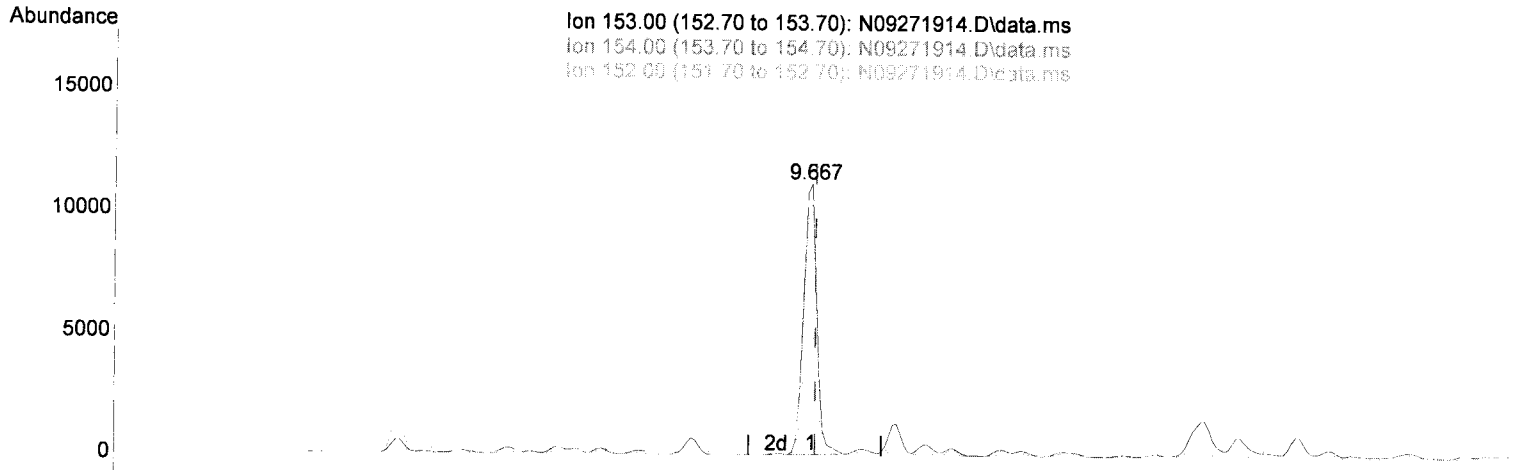
response 3730

Ion	Exp%	Act%
142.00	100.00	100.00
141.00	90.70	88.35
115.00	37.80	35.73
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : R:\data\2019-09\9I27028\
 Data File : N09271914.D
 Acq On : 27 Sep 2019 05:14 pm
 Operator :
 Sample : A9I0771-05RE2@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 30 15:07:14 2019
 Quant Method : R:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(13) Acenaphthene (T)

9.667min (-0.006) 8.18 ng/ml

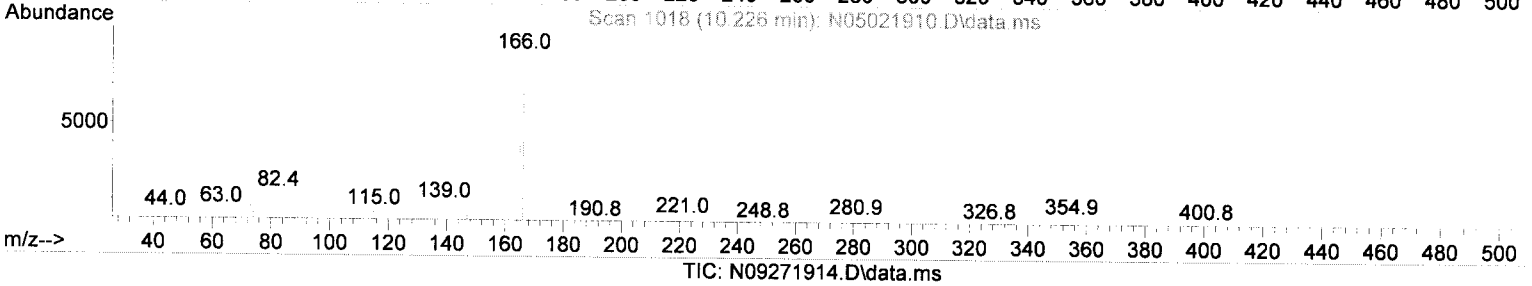
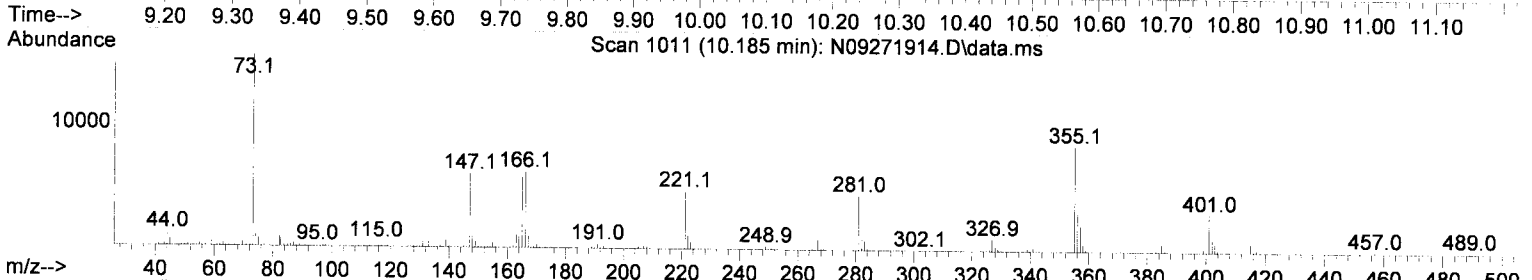
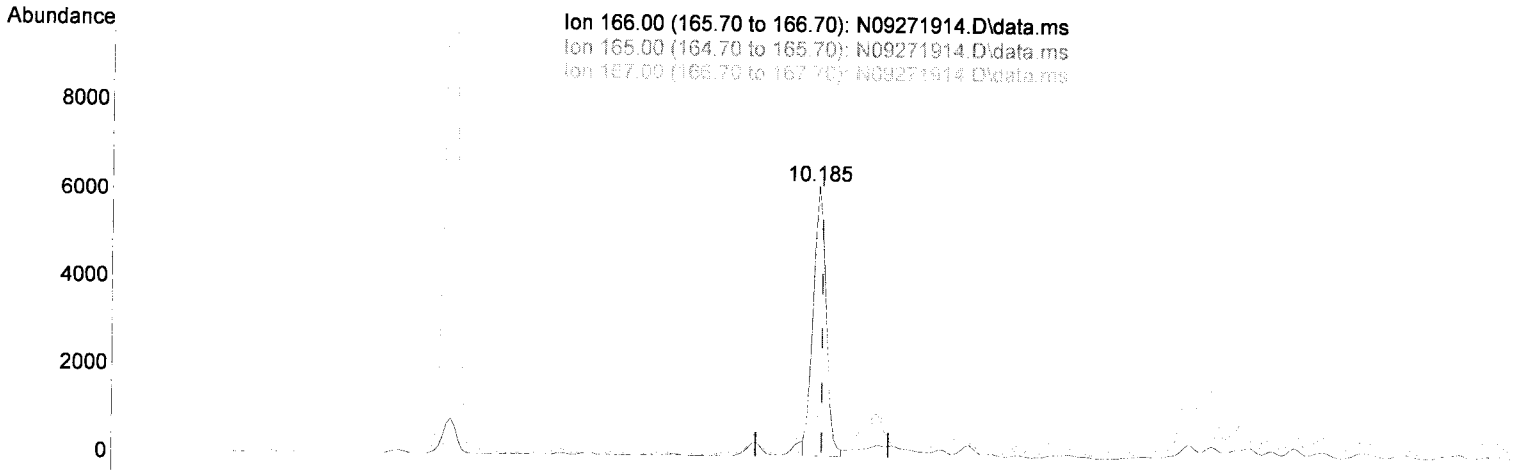
response 15526

Ion	Exp%	Act%
153.00	100.00	100.00
154.00	90.70	92.56
152.00	46.80	50.74
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : R:\data\2019-09\9I27028\
 Data File : N09271914.D
 Acq On : 27 Sep 2019 05:14 pm
 Operator :
 Sample : A9I0771-05RE2@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 30 15:07:14 2019
 Quant Method : R:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(16) Fluorene (T)

10.185min (-0.006) 4.32 ng/ml m

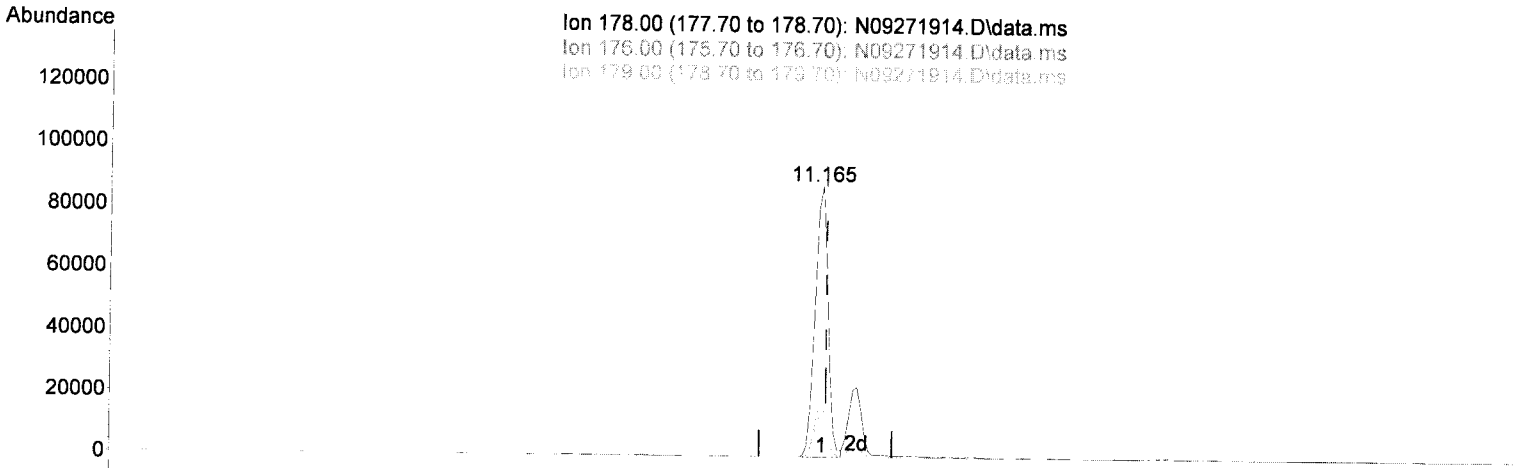
response 8400

Ion	Exp%	Act%
166.00	100.00	100.00
165.00	95.70	93.31
167.00	13.60	15.36
0.00	0.00	0.00

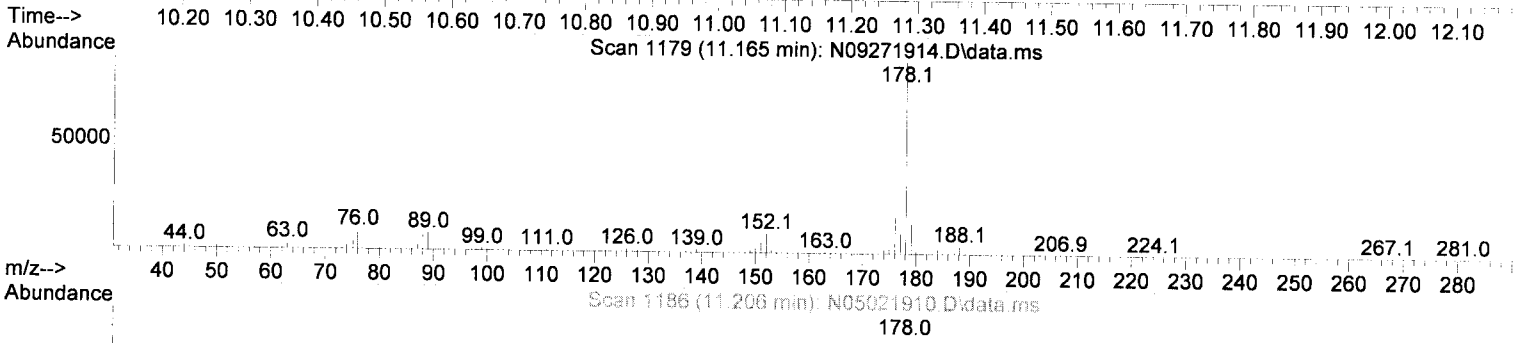
Quantitation Report (Qedit)

Data Path : R:\data\2019-09\9I27028\
 Data File : N09271914.D
 Acq On : 27 Sep 2019 05:14 pm
 Operator :
 Sample : A9I0771-05RE2@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 13 Sample Multiplier: 1

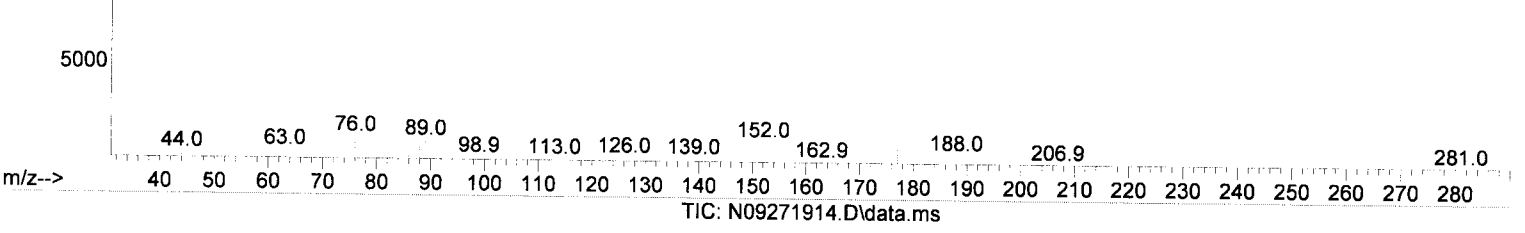
Quant Time: Sep 30 15:07:14 2019
 Quant Method : R:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



Ion 178.00 (177.70 to 178.70): N09271914.D\data.ms
 Ion 176.00 (175.70 to 176.70): N09271914.D\data.ms
 Ion 179.00 (178.70 to 179.70): N09271914.D\data.ms



Scan 1179 (11.165 min): N09271914.D\data.ms



Scan 1186 (11.206 min): N05021910.D\data.ms

TIC: N09271914.D\data.ms

(19) Phenanthrene (T)

11.165min (-0.006) 39.77 ng/ml

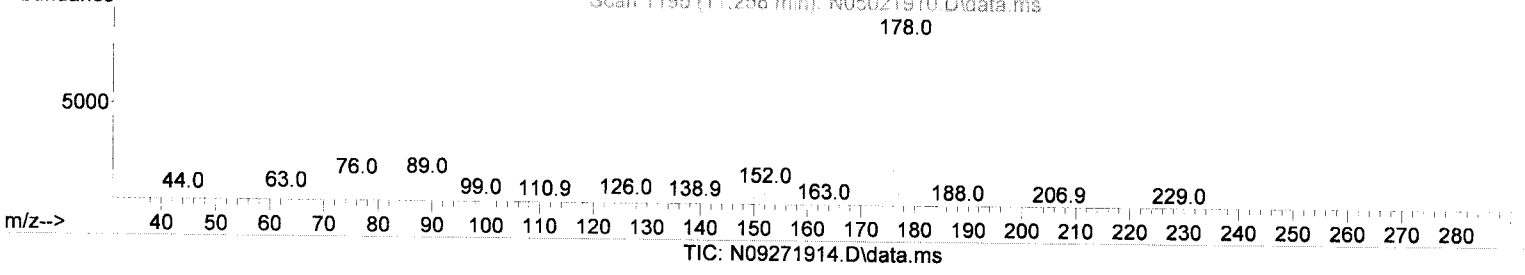
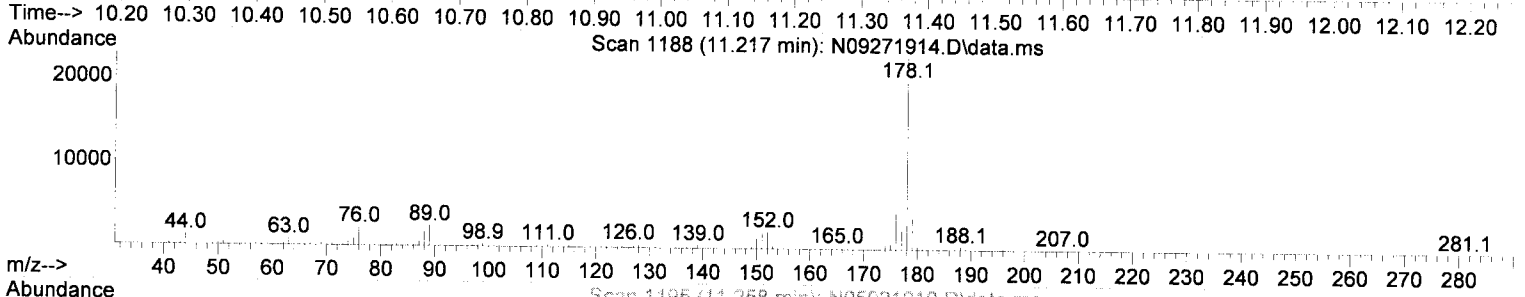
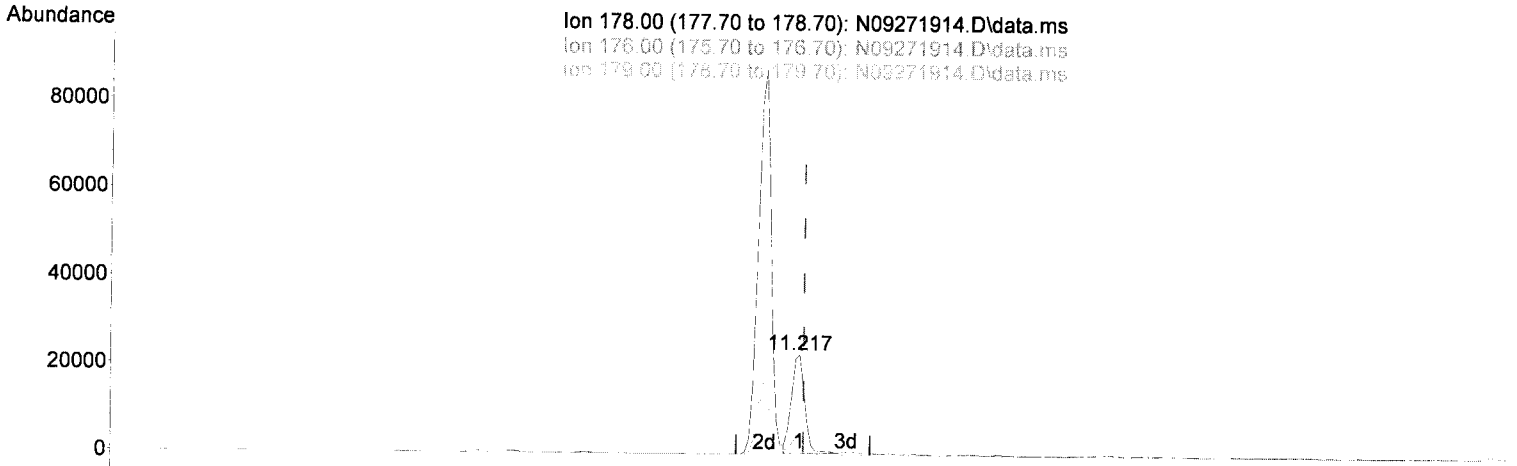
response 117856

Ion	Exp%	Act%
178.00	100.00	100.00
176.00	19.00	19.25
179.00	15.10	15.55
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : R:\data\2019-09\9I27028\
 Data File : N09271914.D
 Acq On : 27 Sep 2019 05:14 pm
 Operator :
 Sample : A9I0771-05RE2@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 30 15:07:14 2019
 Quant Method : R:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(20) Anthracene (T)

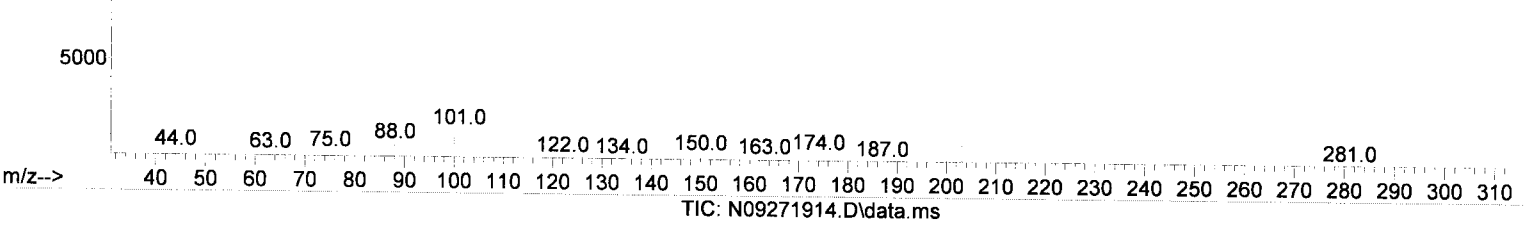
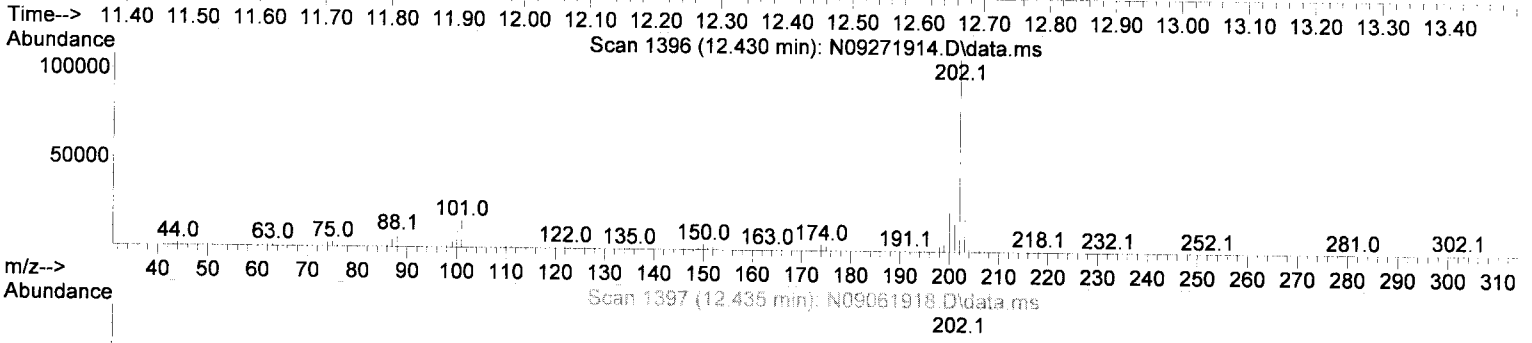
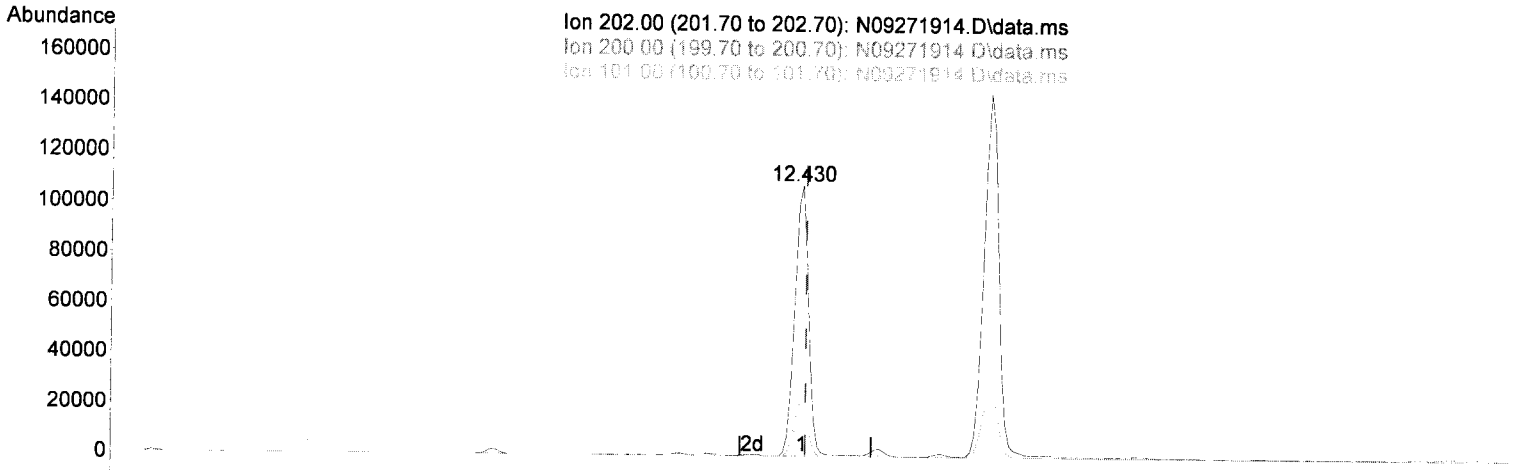
11.217min (-0.006) 11.24 ng/ml

response	30975	
Ion	Exp%	Act%
178.00	100.00	100.00
176.00	18.90	18.66
179.00	15.30	16.19
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : R:\data\2019-09\9I27028\
 Data File : N09271914.D
 Acq On : 27 Sep 2019 05:14 pm
 Operator :
 Sample : A9I0771-05RE2@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 30 15:07:14 2019
 Quant Method : R:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(23) Fluoranthene (T)

12.430min (-0.005) 53.15 ng/ml

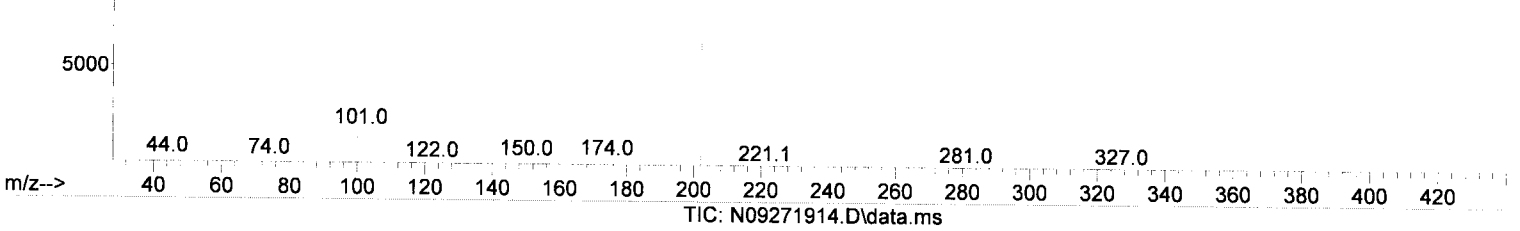
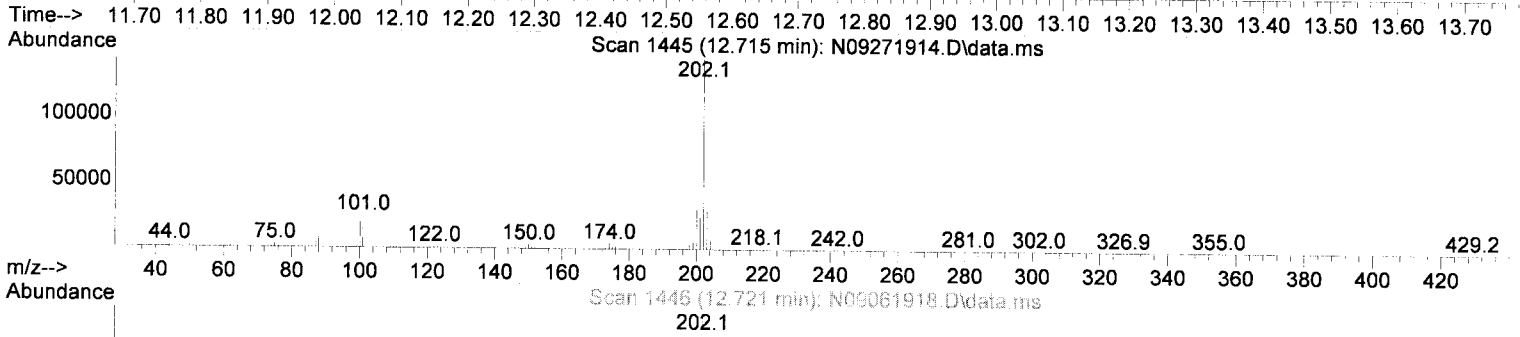
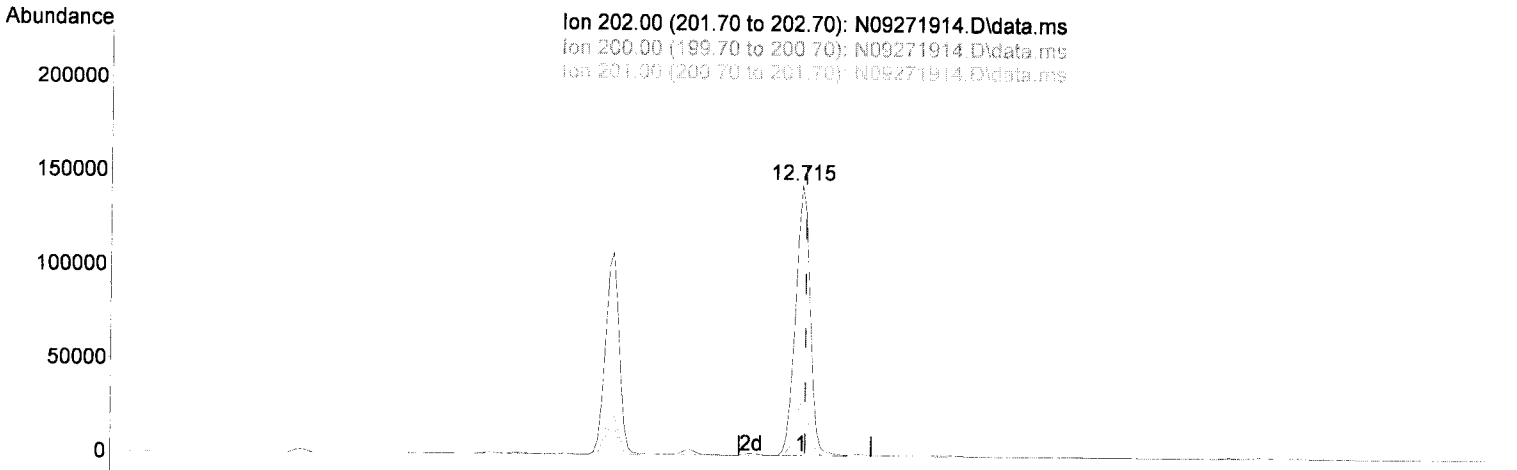
response 158677

Ion	Exp%	Act%
202.00	100.00	100.00
200.00	19.70	20.46
101.00	15.30	13.90
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : R:\data\2019-09\9I27028\
 Data File : N09271914.D
 Acq On : 27 Sep 2019 05:14 pm
 Operator :
 Sample : A9I0771-05RE2@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 30 15:07:14 2019
 Quant Method : R:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(25) Pyrene (T)

12.715min (-0.006) 63.59 ng/ml

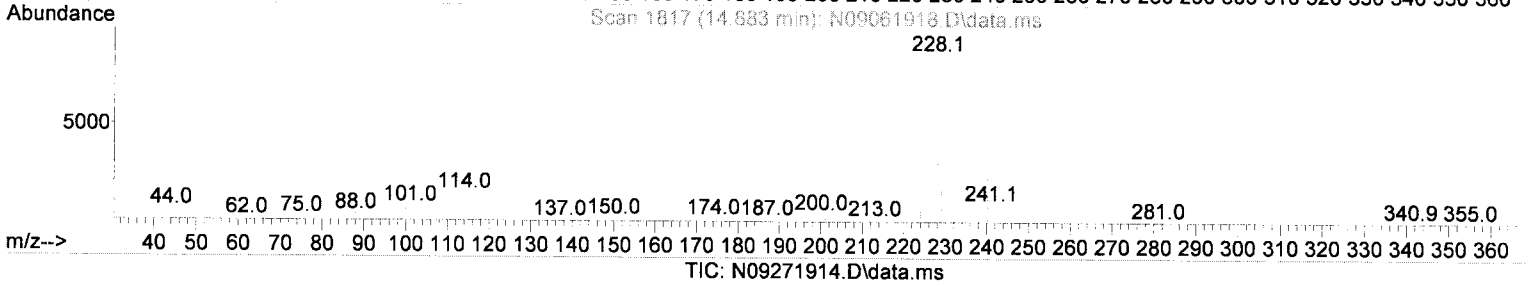
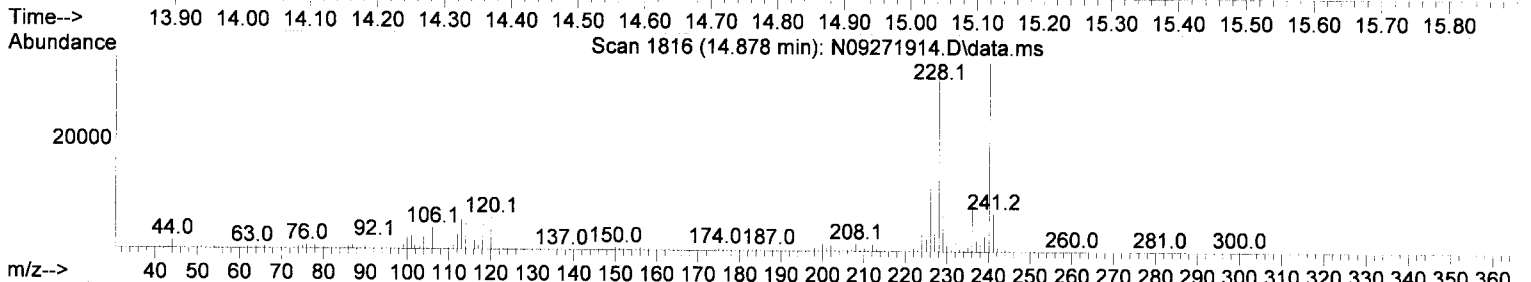
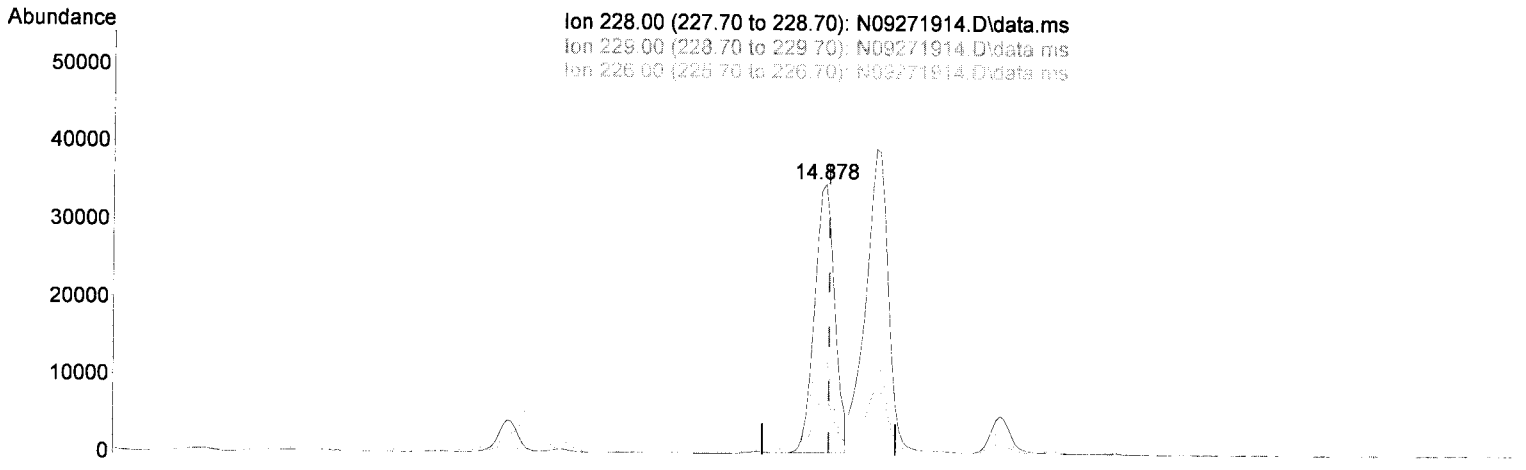
response 223803

Ion	Exp%	Act%
202.00	100.00	100.00
200.00	20.70	20.38
201.00	16.80	16.92
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : R:\data\2019-09\9I27028\
 Data File : N09271914.D
 Acq On : 27 Sep 2019 05:14 pm
 Operator :
 Sample : A9I0771-05RE2@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 30 15:07:14 2019
 Quant Method : R:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(27) Benz(a)anthracene (T)

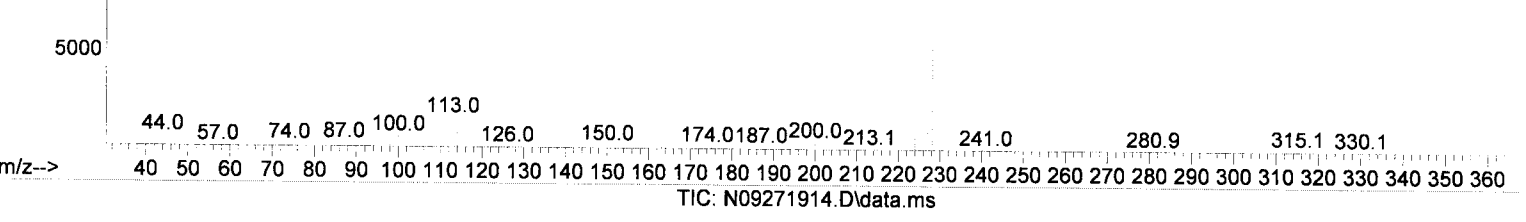
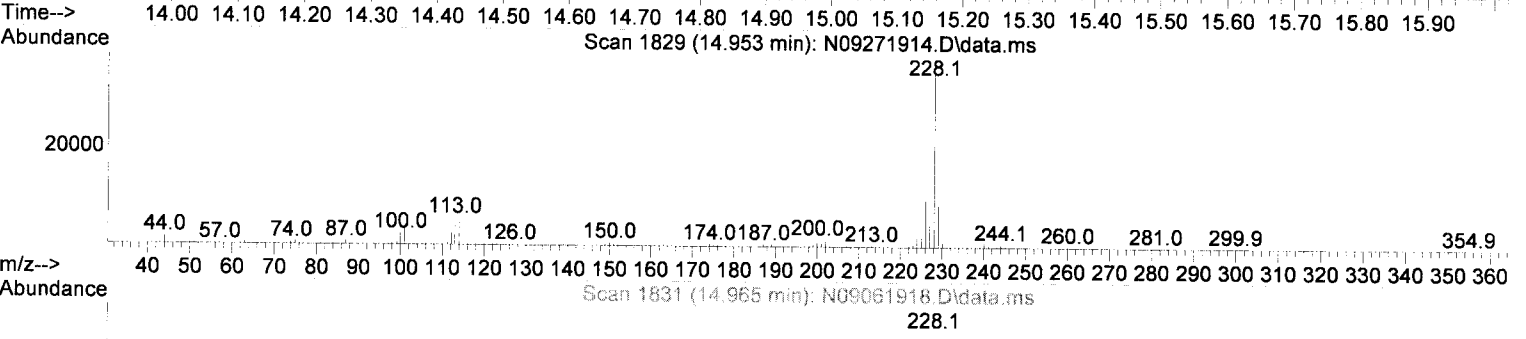
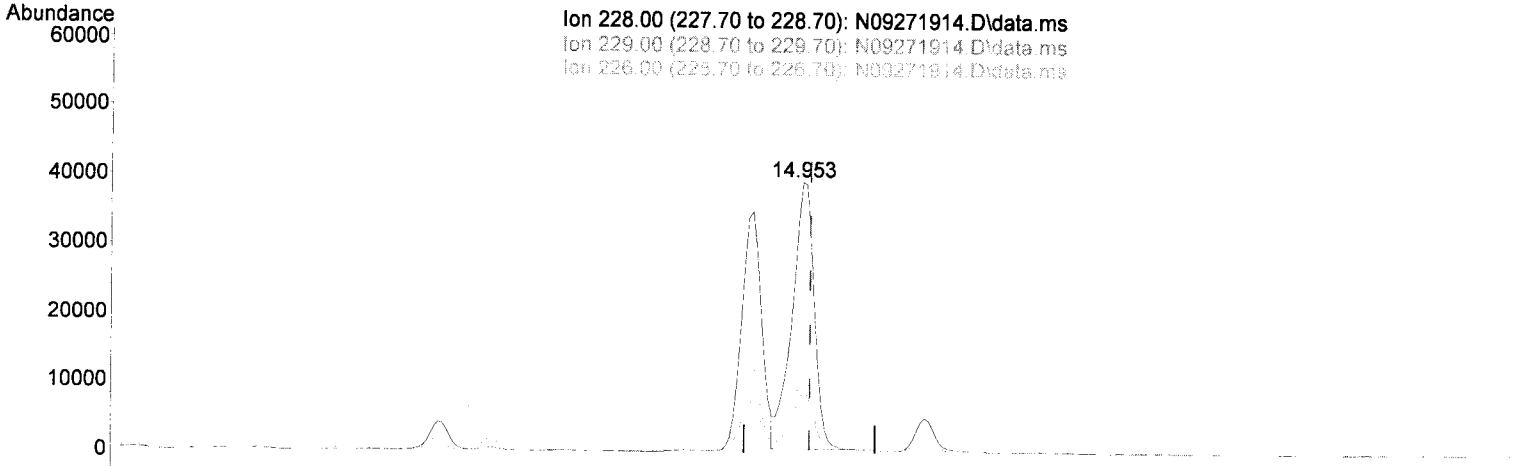
14.878min (-0.005) 27.88 ng/ml

response	72928	
Ion	Exp%	Act%
228.00	100.00	100.00
229.00	19.40	21.35
226.00	26.20	37.33
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : R:\data\2019-09\9I27028\
 Data File : N09271914.D
 Acq On : 27 Sep 2019 05:14 pm
 Operator :
 Sample : A9I0771-05RE2@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 30 15:07:14 2019
 Quant Method : R:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(28) Chrysene (T)

14.953min (-0.012) 36.93 ng/ml

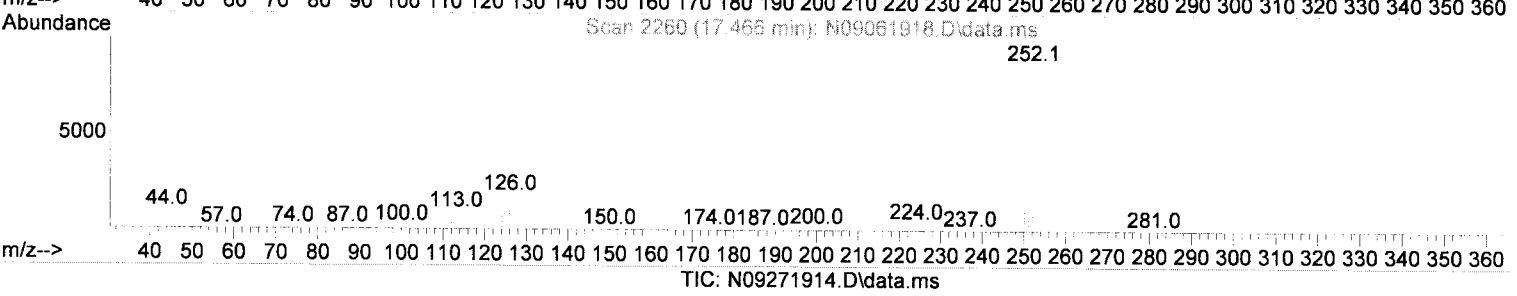
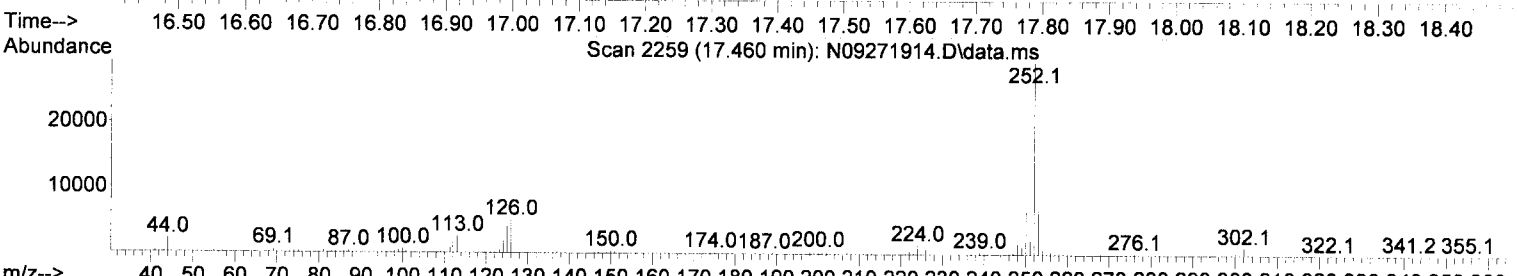
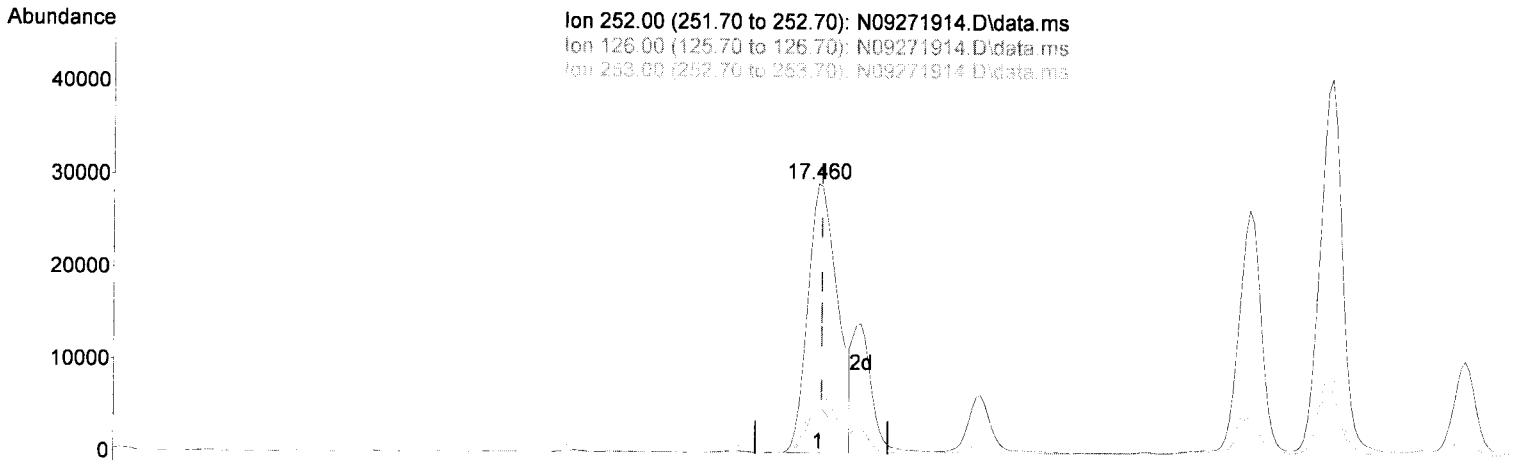
response 91415

Ion	Exp%	Act%
228.00	100.00	100.00
229.00	19.60	22.06
226.00	28.60	28.71
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : R:\data\2019-09\9I27028\
 Data File : N09271914.D
 Acq On : 27 Sep 2019 05:14 pm
 Operator :
 Sample : A9I0771-05RE2@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 30 15:07:14 2019
 Quant Method : R:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(30) Benzo(b)fluoranthene (T)

17.460min (-0.005) 37.88 ng/ml

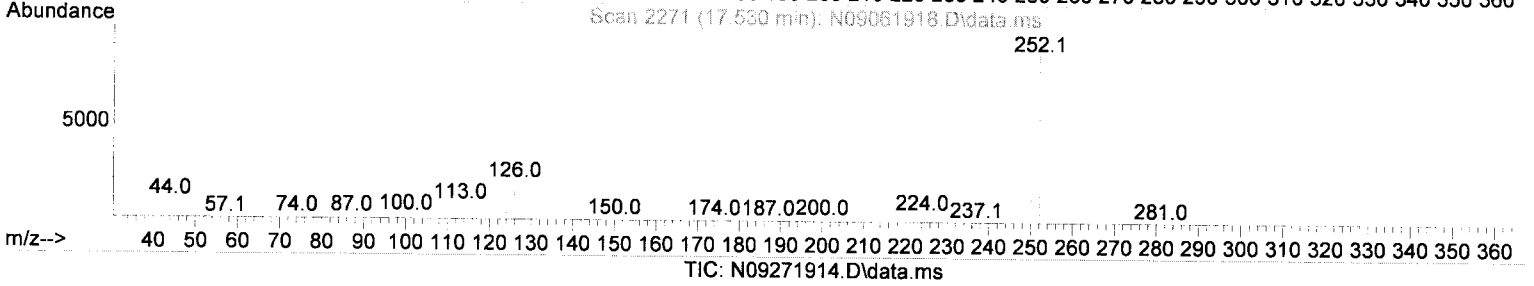
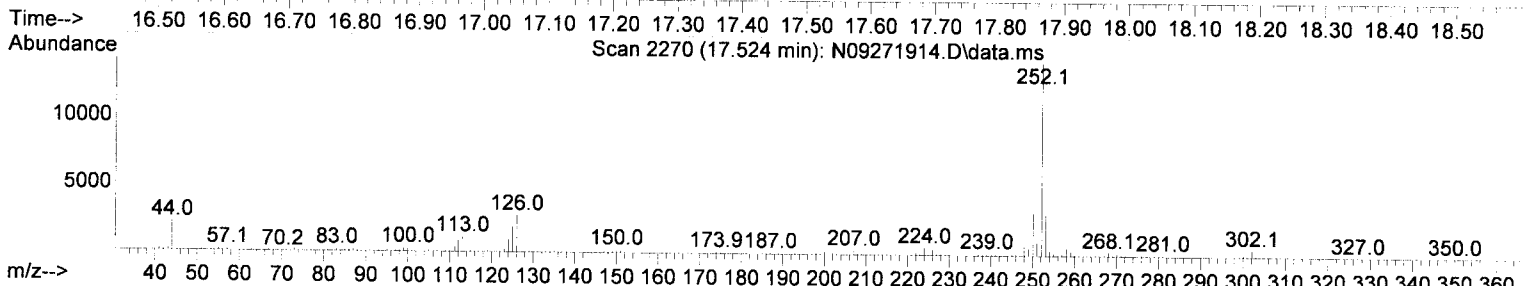
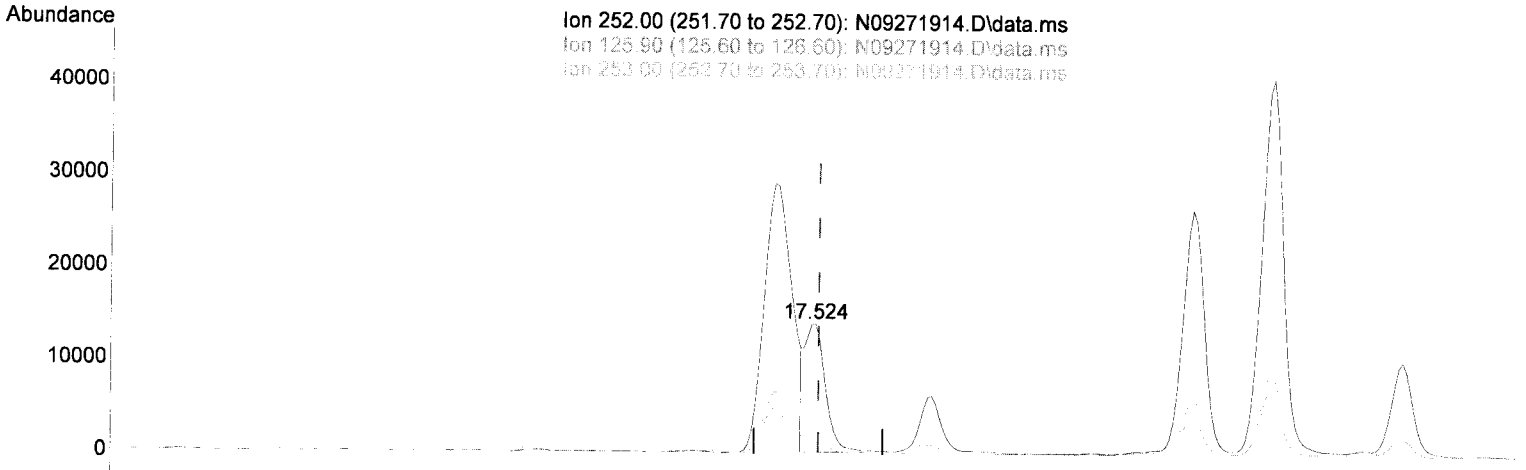
response 91401

Ion	Exp%	Act%
252.00	100.00	100.00
126.00	20.00	17.22
253.00	21.10	23.07
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : R:\data\2019-09\9I27028\
 Data File : N09271914.D
 Acq On : 27 Sep 2019 05:14 pm
 Operator :
 Sample : A9I0771-05RE2@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 30 15:07:14 2019
 Quant Method : R:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(31) Benzo(k)fluoranthene (T)

17.524min (-0.005) 13.30 ng/ml m

MI - MOS

response 31583

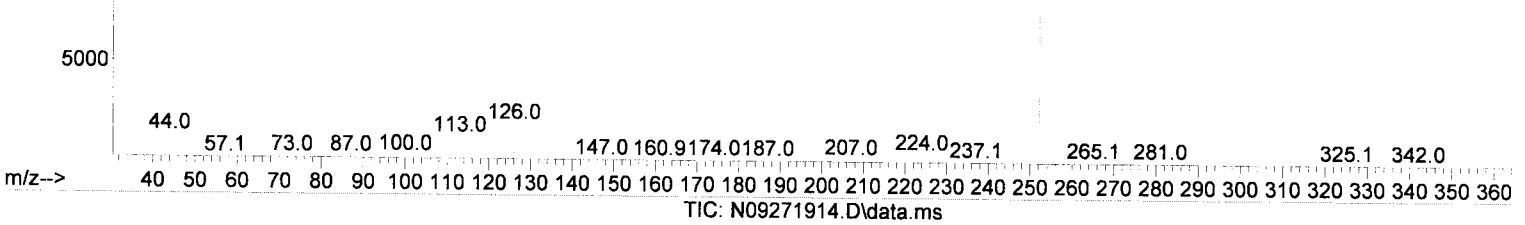
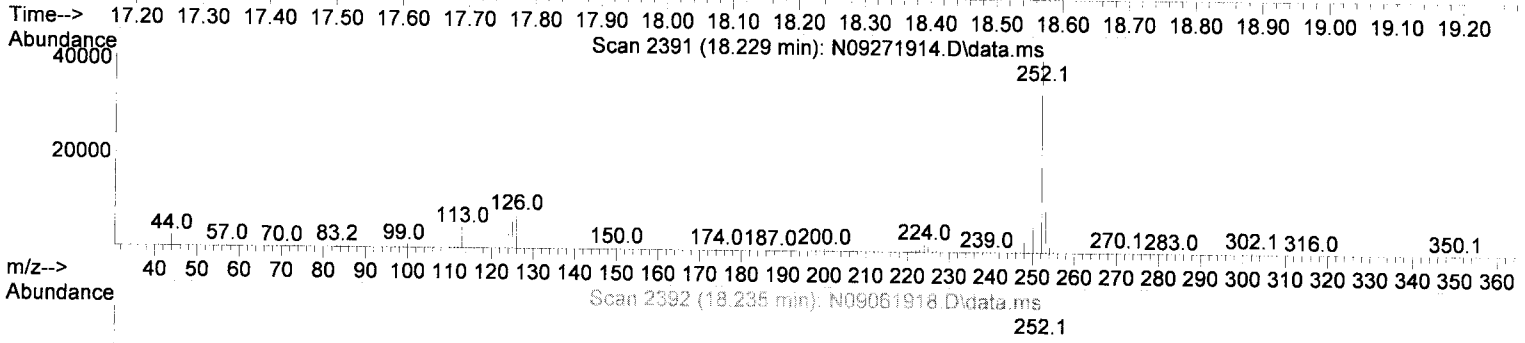
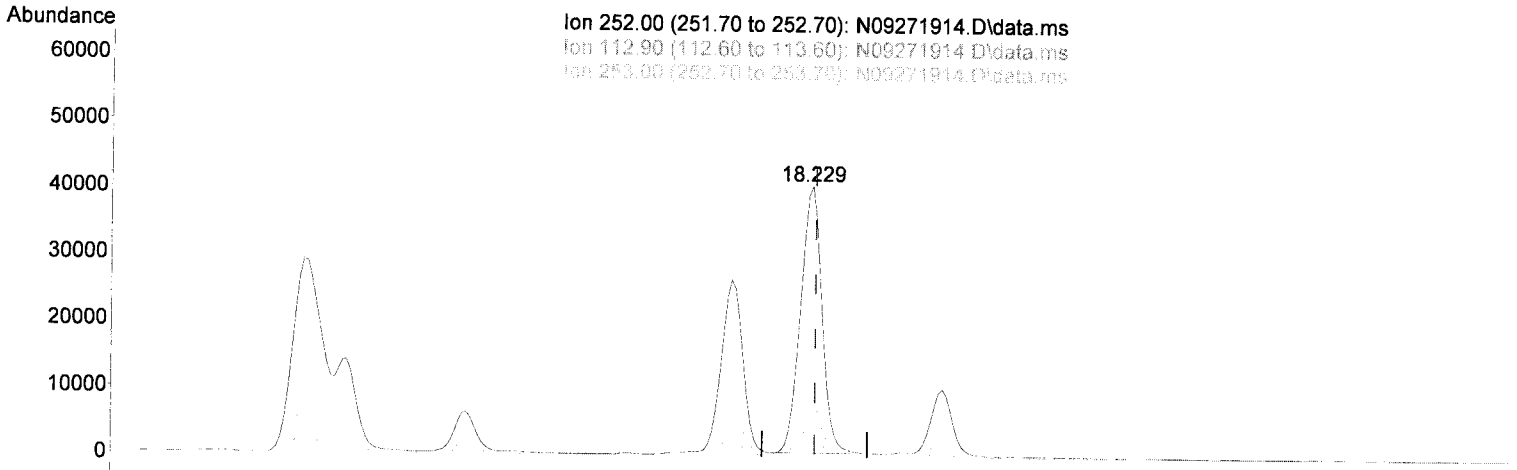
rem 9/30/19

Ion	Exp%	Act%
252.00	100.00	100.00
125.90	22.10	19.47
253.00	21.50	21.93
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : R:\data\2019-09\9I27028\
 Data File : N09271914.D
 Acq On : 27 Sep 2019 05:14 pm
 Operator :
 Sample : A9I0771-05RE2@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 30 15:07:14 2019
 Quant Method : R:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(35) Benzo(a)pyrene (T)

18.229min (-0.005) 44.08 ng/ml

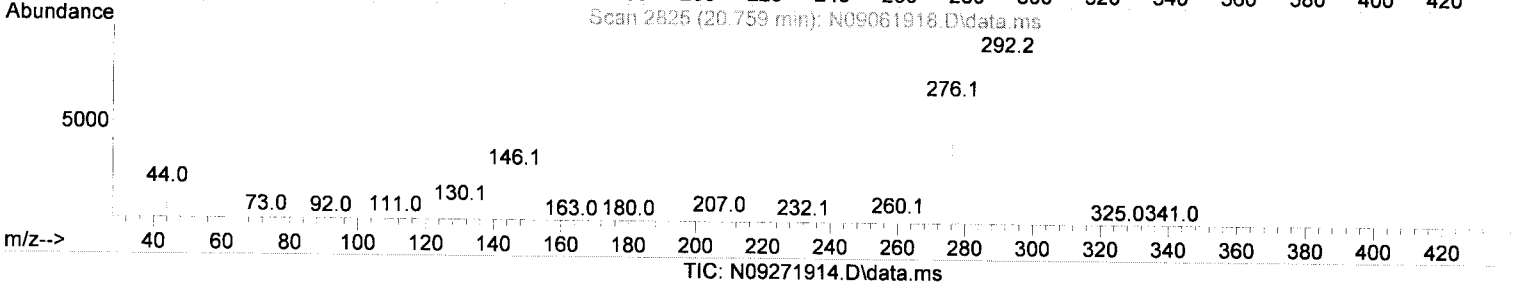
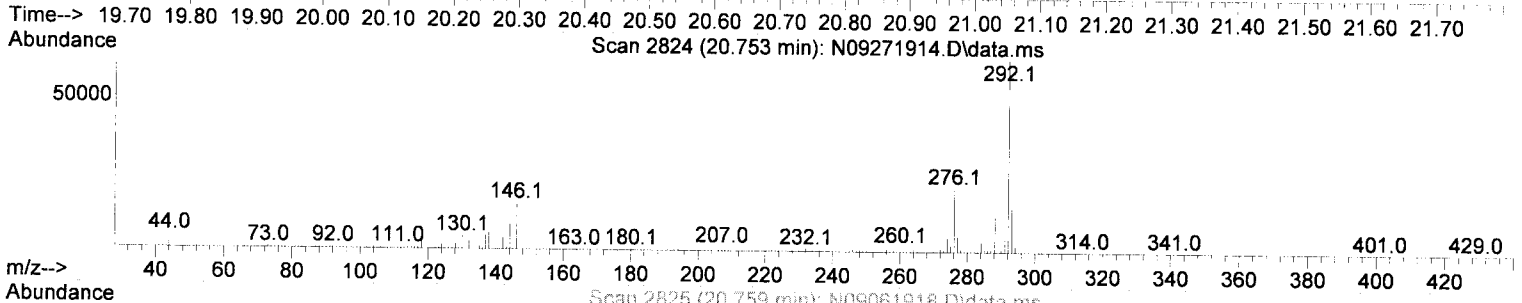
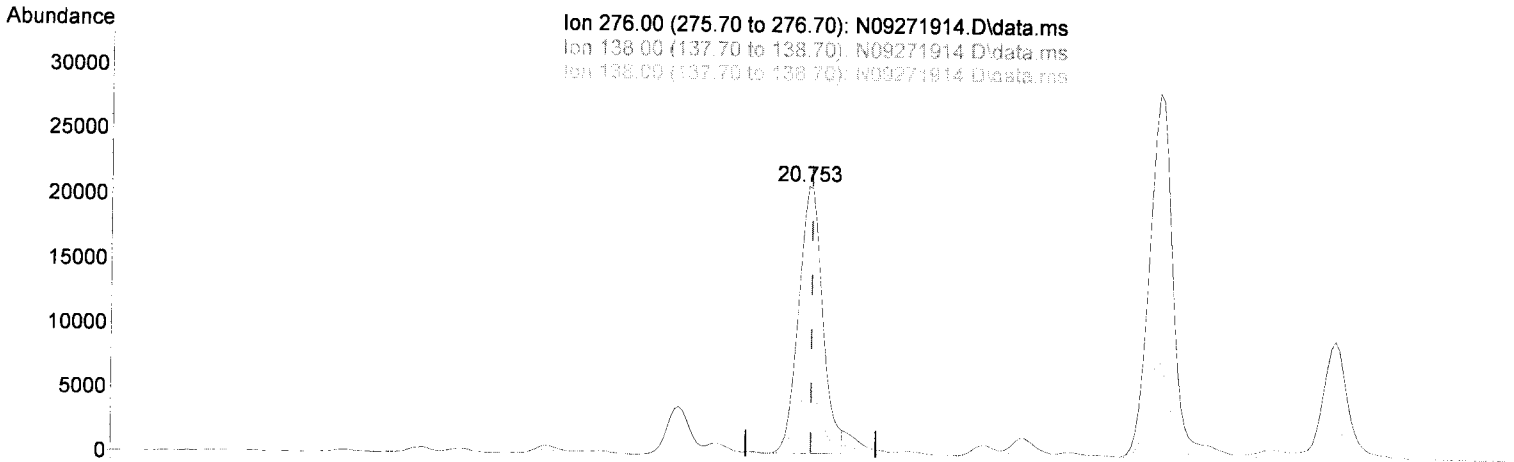
response 91034

Ion	Exp%	Act%
252.00	100.00	100.00
112.90	12.70	10.79
253.00	21.90	21.99
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : R:\data\2019-09\9I27028\
 Data File : N09271914.D
 Acq On : 27 Sep 2019 05:14 pm
 Operator :
 Sample : A9I0771-05RE2@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 30 15:07:14 2019
 Quant Method : R:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(38) Indeno (1,2,3-cd) Pyrene (T)

20.753min (-0.005) 26.78 ng/ml/m

Handwritten: rem 9/30/19

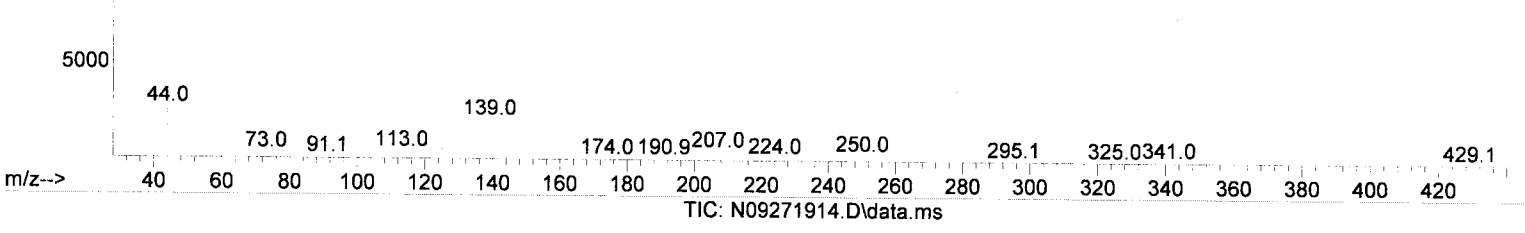
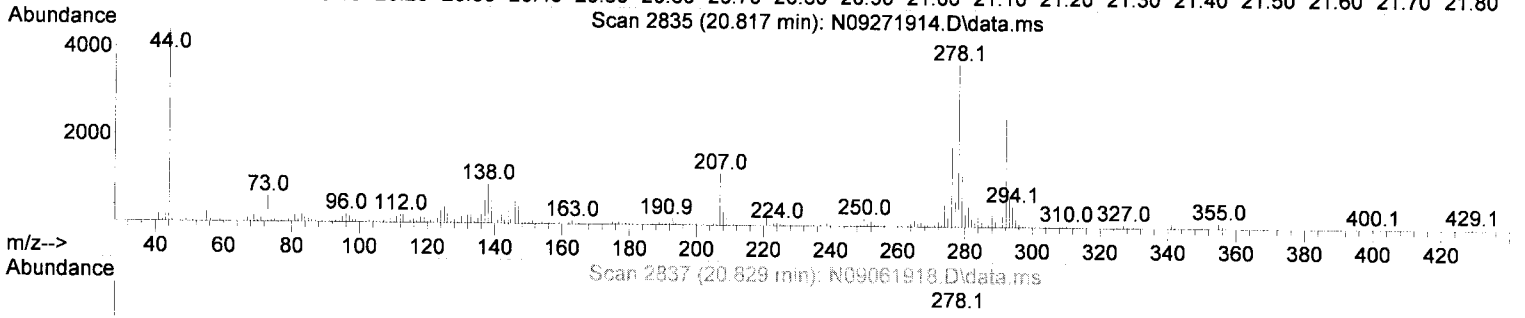
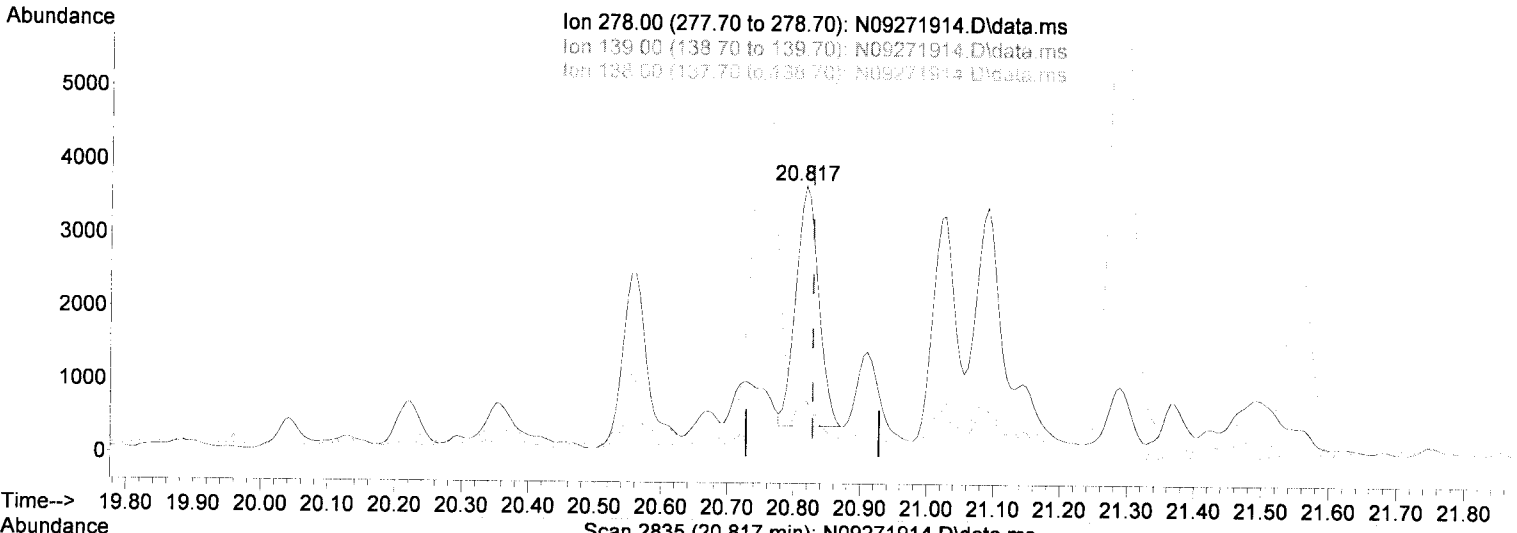
response 53184

Ion	Exp%	Act%
276.00	100.00	100.00
138.00	31.60	25.38
138.00	31.60	25.38
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : R:\data\2019-09\9I27028\
 Data File : N09271914.D
 Acq On : 27 Sep 2019 05:14 pm
 Operator :
 Sample : A9I0771-05RE2@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 30 15:07:14 2019
 Quant Method : R:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(39) Dibenz(a,h)anthracene (T)

20.817min (-0.011) 4.20 ng/ml

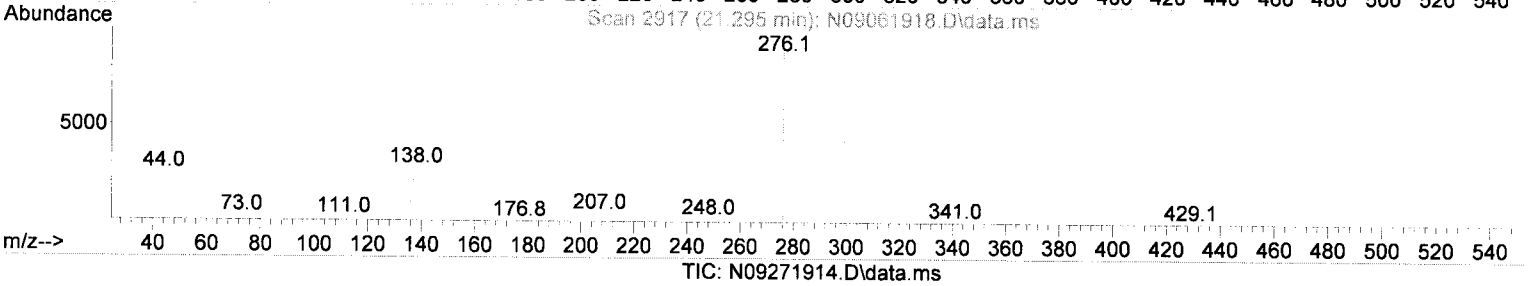
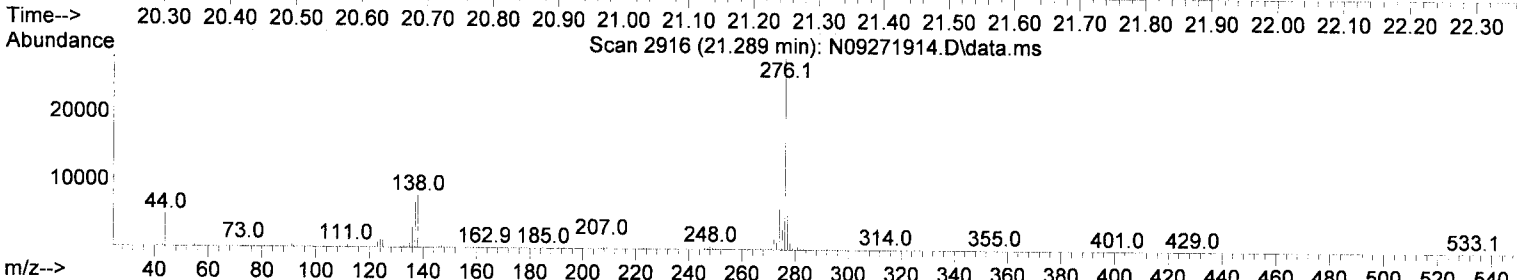
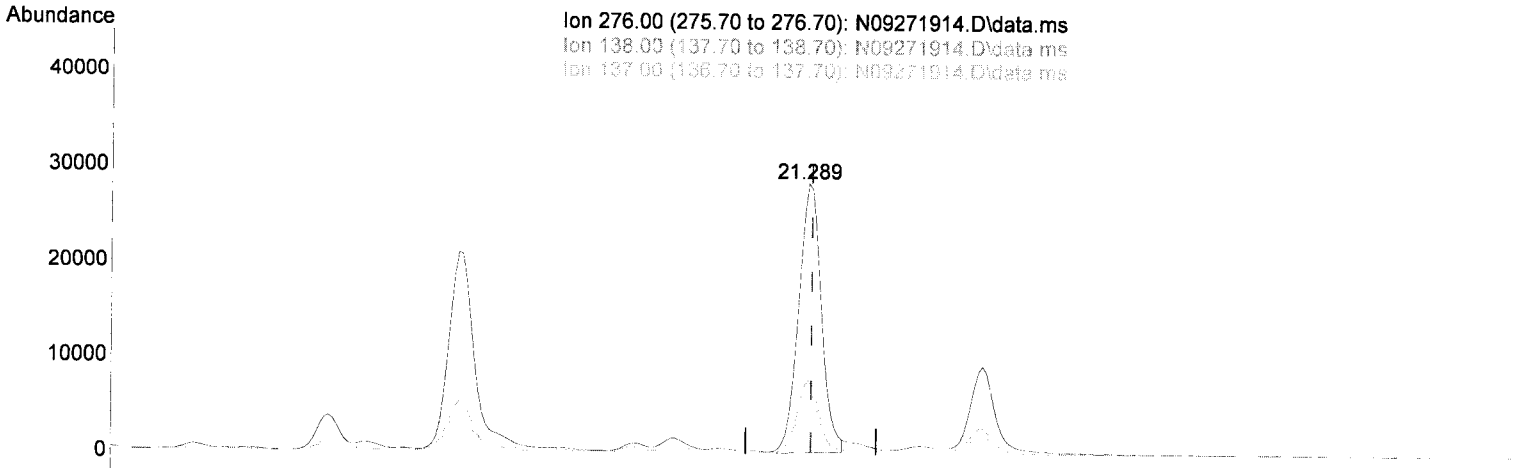
response 7844

Ion	Exp%	Act%
278.00	100.00	100.00
139.00	26.00	20.58
138.00	19.90	24.27
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : R:\data\2019-09\9I27028\
 Data File : N09271914.D
 Acq On : 27 Sep 2019 05:14 pm
 Operator :
 Sample : A9I0771-05RE2@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 30 15:07:14 2019
 Quant Method : R:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(40) Benzo(g,h,i)perylene (T)

21.289min (-0.005) 32.42 ng/ml (m)

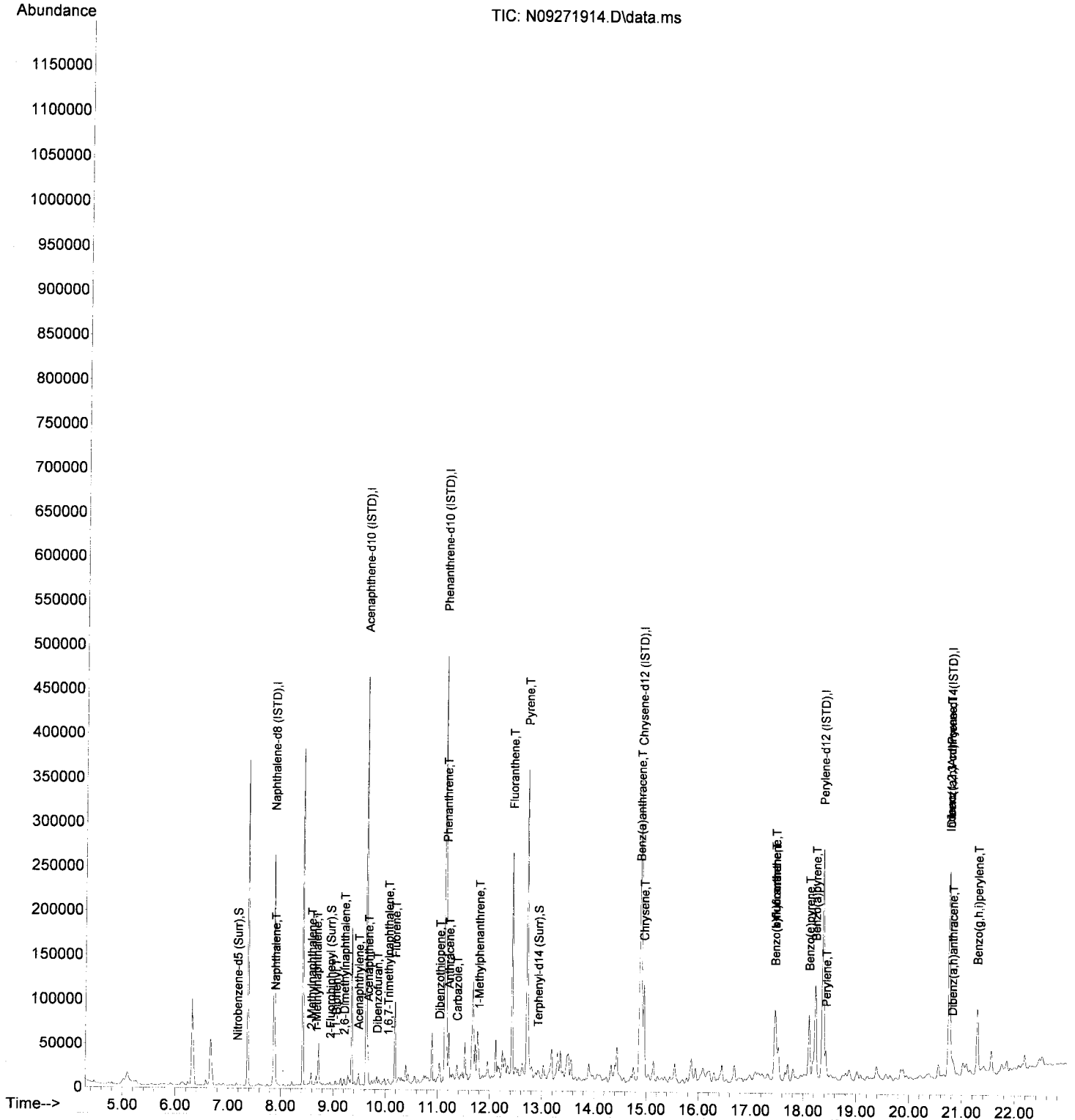
Handwritten: Rem 9/30/19

response 68288

Ion	Exp%	Act%
276.00	100.00	100.00
138.00	34.40	27.41
137.00	28.60	23.53
0.00	0.00	0.00

Data Path : R:\data\2019-09\9I27028\
 Data File : N09271914.D
 Acq On : 27 Sep 2019 05:14 pm
 Operator :
 Sample : A9I0771-05RE2@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 30 15:07:14 2019
 Quant Method : R:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



Data Path : R:\data\2019-09\9I27028\
 Data File : N09271915.D
 Acq On : 27 Sep 2019 05:46 pm
 Operator :
 Sample : A9I0771-06RE2@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 14 Sample Multiplier: 1

feul 9/30/19

*PO1 : reextracted due to Blank
 contamination*

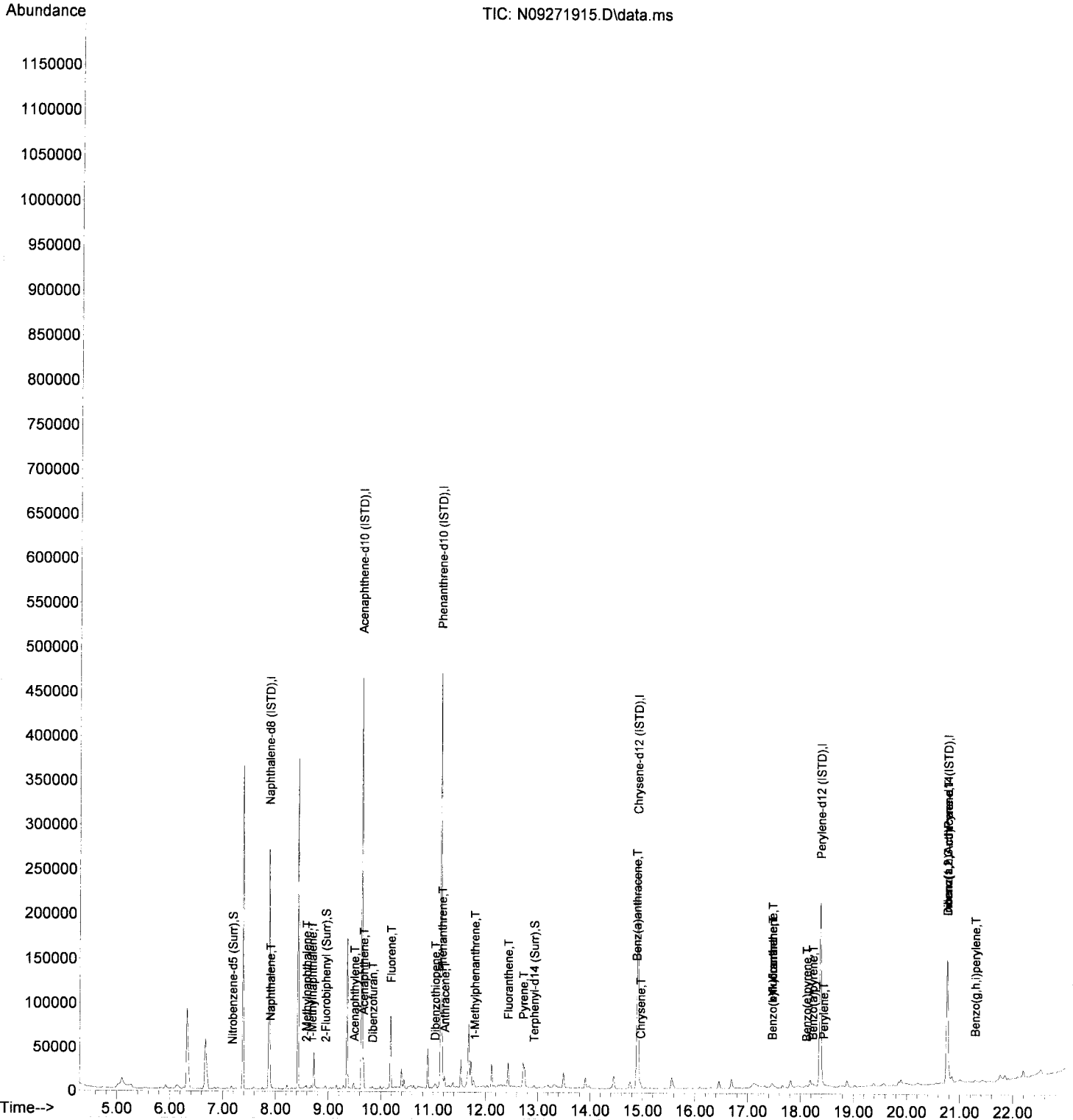
Quant Time: Sep 30 15:07:17 2019
 Quant Method : R:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Naphthalene-d8 (ISTD)	7.877	136	184260	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.637	162	134397	100.00	ng/ml	0.00	
17) Phenanthrene-d10 (ISTD)	11.141	188	244282	100.00	ng/ml	0.00	
24) Chrysene-d12 (ISTD)	14.901	240	192115	100.00	ng/ml	0.00	
29) Perylene-d12 (ISTD)	18.375	264	168099	100.00	ng/ml	0.00	
37) Dibenz(a,h)Anthracene-d...	20.758	292	127952	100.00	ng/ml	0.00	
System Monitoring Compounds							
2) Nitrobenzene-d5 (Surr)	7.184	82	436	0.71	ng/ml	0.00	
10) 2-Fluorobiphenyl (Surr)	8.950	172	1261	0.63	ng/ml	0.00	
11) Acenaphthylene d-8 (Surr)	9.480	160	3101	-1.00	ng/ml	0.00	
26) Terphenyl-d14 (Surr)	12.925	244	1703	0.84	ng/ml	0.00	
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml		
Target Compounds							
3) Decalin	0.000		0	N.D.			Qvalue
4) Naphthalene	7.901	128	4608	2.27	ng/ml	100	
5) 2-Methylnaphthalene	8.582	142	1279	0.74	ng/ml	94	
6) 1-Methylnaphthalene	8.687	142	720	0.42	ng/ml	97	
7) 1,1'-Biphenyl	9.049	154	525	N.D.			
8) 2,6-Dimethylnaphthalene	9.212	156	502	N.D.			
12) Acenaphthylene	9.492	152	1576	0.54	ng/ml	91	
13) Acenaphthene	9.667	153	11429	5.98	ng/ml	99	
14) Dibenzofuran	9.841	168	985	0.41	ng/ml	88	
15) 1,6,7-Trimethylnaphtha...	10.051	170	385	N.D.			
16) Fluorene	10.191	166	7411	3.79	ng/ml	95	J
18) Dibenzothiopene	11.036	184	2110	0.83	ng/ml	94	
19) Phenanthrene	11.165	178	32101	11.23	ng/ml	100	
20) Anthracene	11.217	178	6888	2.59	ng/ml	97	J
21) Carbazole	11.380	167	581	N.D.			
22) 1-Methylphenanthrene	11.788	192	2127	1.07	ng/ml	91	
23) Fluoranthene	12.429	202	16825	5.84	ng/ml	98	
25) Pyrene	12.721	202	17193	5.73	ng/ml	99	
27) Benz(a)anthracene	14.883	228	4155	1.86	ng/ml	85	
28) Chrysene	14.959	228	4717	2.23	ng/ml	95	
30) Benzo(b)fluoranthene	17.465	252	3044	1.57	ng/ml	99	
31) Benzo(k)fluoranthene	17.465	252	4035	2.11	ng/ml	98	
32) Benzo(b+k)fluoranthene	17.465	252	4246	2.14	ng/ml	98	
34) Benzo(e)pyrene	18.112	252	1958	1.00	ng/ml	98	
35) Benzo(a)pyrene	18.229	252	2485	1.50	ng/ml	96	
36) Perylene	18.433	252	1059	0.52	ng/ml	94	
38) Indeno(1,2,3-cd)Pyrene	20.758	276	1752	1.11	ng/ml	75	
39) Dibenz(a,h)anthracene	20.817	278	286	N.D.			
40) Benzo(g,h,i)perylene	21.289	276	1990	1.19	ng/ml	92	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : R:\data\2019-09\9I27028\
 Data File : N09271915.D
 Acq On : 27 Sep 2019 05:46 pm
 Operator :
 Sample : A9I0771-06RE2@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 30 15:07:17 2019
 Quant Method : R:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



**Semivolatile Organic Compounds (PAHs) by EPA 8270D
Benchsheet & Analysis Sequence Data**

Batch 9100550
Sequence 9J02028 (A9I0771-04RE3,05RE3,06RE3)



Apex Laboratories
PREPARATION BENCH SHEET

BATCH #: 9100550 (Sediment)

Prep Method: EPA 3546

#	Lab Number	Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH		
												<2	2-11	>11
	9100550-BLK1	QC	10/02/19 11:20	11	5				100					
	9100550-BS1	QC	10/02/19 11:20	10	5	A19H078		100	100					
	A910771-04RE3	B 8270D LL PAH Only (Scan)	10/02/19 11:20	10.96	5				100	PDI-022SG-00-01-190924	Due to blank contamination. Sample has high hits. Added 10/1/2019 By jk			
	A910771-05RE3	B 8270D LL PAH Only (Scan)	10/02/19 11:20	10.63	5				100	PDI-101SG-00-01-190923	Due to blank contamination. Sample has high hits. Added 10/1/2019 By jk			
	A910771-06RE3	F 8270D LL PAH Only (Scan)	10/02/19 11:20	10.59	5				100	PDI-102SG-00-01-190923	MS/MSD BLK contamination, Added 9/30/2019 By hml			
	9100550-MS1	QC	10/02/19 11:20	10.5	5	A19H078	A910771-06RE3	100	100					
	9100550-MSD1	QC	10/02/19 11:21	10.52	5	A19H078	A910771-06RE3	100	100					
	A910936-01	B 8270D LL PAH Only (Scan)	10/02/19 11:20	10.9	5				100	PDI-021SC-A-13-14-190927				
	A910936-02	B 8270D LL PAH Only (Scan)	10/02/19 11:20	10.16	5				100	PDI-021SC-A-14-15.4-190927				
	A910936-03	B 8270D LL PAH Only (Scan)	10/02/19 11:20	10.39	5				100	PDI-024SC-A-10-11-190927				
	A910936-04	B 8270D LL PAH Only (Scan)	10/02/19 11:20	10.35	5				100	PDI-024SC-A-11-12.1-190927				
	A910936-11	B 8270D LL PAH Only (Scan)	10/02/19 11:20	10.75	5				100	PDI-025SC-A-06-07-190927				
	A910936-12	B 8270D LL PAH Only (Scan)	10/02/19 11:20	10.18	5				100	PDI-025SC-A-07-08-190927				
	A910936-13	B 8270D LL PAH Only (Scan)	10/02/19 11:20	10.6	5				100	PDI-030SC-A-00-01-190929				
	A910936-14	B 8270D LL PAH Only (Scan)	10/02/19 11:20	10.21	5				100	PDI-030SC-A-10-11-190929				
	A910936-15	B 8270D LL PAH Only (Scan)	10/02/19 11:20	10.76	5				100	PDI-030SC-A-11-11.8-190929				
	A910936-16	B 8270D LL PAH Only (Scan)	10/02/19 11:20	10.13	5				100	PDI-036SC-A-11-12-190929				
	A910936-17	B 8270D LL PAH Only (Scan)	10/02/19 11:20	10.42	5				100	PDI-036SC-A-12-13.4-190929				
	A910936-18	B 8270D LL PAH Only (Scan)	10/02/19 11:20	10.2	5				100	PDI-064SC-A-14-15-190929				

AMS

10/7/19

Prepared By: _____ Date _____

Reviewed By: _____ Date _____

Apex Laboratories
PREPARATION BENCH SHEET

BATCH #: 9100550 (Sediment)

Prep Method: EPA 3546

#	Lab Number	Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH	
												<2	>11
	A9I0936-19	B 8270D LL PAH Only (Scan)	10/02/19 11:20	10.99	5				100	PDI-064SC-A-15-15.8-190929			
	A9I0936-20	F 8270D LL PAH Only (Scan)	10/02/19 11:20	10.94	5				100	PDI-064SC-B-00-02-190929			
	A9I0936-21	F 8270D LL PAH Only (Scan)	10/02/19 11:20	10.56	5				100	PDI-064SC-B-02-04-190929			
	A9I0936-22	H 8270D LL PAH Only (Scan)	10/02/19 11:20	10.18	5				100	PDI-064SC-B-04-06-190929	MS/MSD		
	9100550-MS2	QC	10/02/19 11:20	10.08	5	A19H078	A9I0936-22	100	100				
	9100550-MSD2	QC	10/02/19 11:22	10.09	5	A19H078	A9I0936-22	100	100				
	A9I0936-23	D 8270D LL PAH Only (Scan)	10/02/19 11:20	10.39	5				100	PDI-064SC-B-06-08-190929			

Standards/Reagents

Reagent(s)			Analyte Spike(s)			Surrogate(s)		
Std ID	Exp. Date	Description	Std ID	Exp. Date	Description	Std ID	Exp. Date	Description
A13L219	11/30/23	Extractions Balance	A19H078	02/02/20	LVI PAH Spike @2000ng/ml	A19I094	03/03/20	8270D LL PAH Only Surr. (5ppm)
A18K311	12/31/20	Glass Wool						
A19H436	07/31/21	Sodium Sulfate Lot # 190116						
A19I262	08/30/22	DCM CHEM PROD. 186806						

Method 3546 digestion time and temperture achieved.

Initial:

Witness: _____

Prepared By: _____ Date _____

Reviewed By: _____ Date _____



Apex Laboratories
PREPARATION BENCH SHEET

BATCH #: **9100550 (Sediment)**

Prep Method: EPA 3546

#	Lab Number	Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH	
												<2	>11
1	9100550-BLK1	QC	10/02/19 11:20	10	5				100				
2	9100550-BS1	QC	10/02/19 11:20	10	5	A19H078		100	100				
3	A910771-04RE3	A 8270D LL PAH Only (Scan) B	10/02/19 11:20	10 10.96	5				100	PDI-022SG-00-01-190924	Due to blank contamination. Sample has high hits. Added 10/1/2019 By jk <i>md</i>		
4	A910771-05RE3	A 8270D LL PAH Only (Scan) B	10/02/19 11:20	10 10.63	5				100	PDI-101SG-00-01-190923	Due to blank contamination. Sample has high hits. Added 10/1/2019 By jk <i>md</i>		
5	A910771-06RE3	A 8270D LL PAH Only (Scan) D	10/02/19 11:20	10 10.39	5				100	PDI-102SG-00-01-190923	MS/MSD BLK contamination, Added 9/30/2019 <i>md</i>		
6	9100550-MS1	F QC	10/02/19 11:20	10 10.50	5	A19H078	A910771-06RE3	100	100				
7	9100550-MSD1	F QC	10/02/19 11:21	10 10.52	5	A19H078	A910771-06RE3	100	100				
8	A910936-01	A 8270D LL PAH Only (Scan) B	10/02/19 11:20	10 10.90	5				100	PDI-021SC-A-13-14-190927	<i>Dirt</i>		
9	A910936-02	A 8270D LL PAH Only (Scan) B	10/02/19 11:20	10 10.16	5				100	PDI-021SC-A-14-15.4-190927	<i>Dirt</i>		
10	A910936-03	A 8270D LL PAH Only (Scan) B	10/02/19 11:20	10 10.39	5				100	PDI-024SC-A-10-11-190927	<i>Dirt</i>		
11	A910936-04	A 8270D LL PAH Only (Scan) B	10/02/19 11:20	10 10.35	5				100	PDI-024SC-A-11-12.1-190927	<i>Dirt</i>		
12	A910936-11	A 8270D LL PAH Only (Scan) B	10/02/19 11:20	10 10.75	5				100	PDI-025SC-A-06-07-190927	<i>Dirt</i>		
13	A910936-12	A 8270D LL PAH Only (Scan) B	10/02/19 11:20	10 10.18	5				100	PDI-025SC-A-07-08-190927	<i>Dirt</i>		
14	A910936-13	A 8270D LL PAH Only (Scan) B	10/02/19 11:20	10 10.60	5				100	PDI-030SC-A-00-01-190929	<i>Dirt</i>		
15	A910936-14	A 8270D LL PAH Only (Scan) B	10/02/19 11:20	10 10.21	5				100	PDI-030SC-A-10-11-190929	<i>Dirt</i>		
16	A910936-15	A 8270D LL PAH Only (Scan) B	10/02/19 11:20	10 10.76	5				100	PDI-030SC-A-11-11.8-190929	<i>Dirt</i>		
17	A910936-16	A 8270D LL PAH Only (Scan) B	10/02/19 11:20	10 10.13	5				100	PDI-036SC-A-11-12-190929	<i>Dirt</i>		
18	A910936-17	A 8270D LL PAH Only (Scan) B	10/02/19 11:20	10 10.42	5				100	PDI-036SC-A-12-13.4-190929	<i>Dirt</i>		
19	A910936-18	A 8270D LL PAH Only (Scan) B	10/02/19 11:20	10 10.20	5				100	PDI-064SC-A-14-15-190929	<i>md</i>		

md 10-02-19

Prepared By: *SLG* Date: 10-02-19
10/2/19

Reviewed By: *CSU* Date: 10/2/19

Apex Laboratories
PREPARATION BENCH SHEET

BATCH #: 9100550 (Sediment)

Prep Method: EPA 3546

#	Lab Number	Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH	
												<2	>11
20	A910936-19	A B 8270D LL PAH Only (Scan)	10/02/19 11:20	10 10.29	5 ✓				100	PDI-064SC-A-15-15.8-190929	und		
21	A910936-20	A F 8270D LL PAH Only (Scan)	10/02/19 11:20	10 10.94	5 ✓				100	PDI-064SC-B-00-02-190929	und		
22	A910936-21	A F 8270D LL PAH Only (Scan)	10/02/19 11:20	10 10.56	5 ✓				100	PDI-064SC-B-02-04-190929	und		
23	A910936-22	A H 8270D LL PAH Only (Scan)	10/02/19 11:20	10 10.18	5 ✓				100	PDI-064SC-B-04-06-190929	MS/MSD und		
24	9100550-MS2	H QC	10/02/19 11:20	10 10.08	5 ✓	A19H078	A910936-22	100	100		und		
25	9100550-MSD2	H QC	10/02/19 11:22	10 10.09	5 ✓	A19H078	A910936-22	100	100		und		
26	A910936-23	A D 8270D LL PAH Only (Scan)	10/02/19 11:20	10 10.39	5 ✓				100	PDI-064SC-B-06-08-190929	und		

Standards/Reagents *can* 10-02-19

Reagent(s)			Analyte Spike(s)			Surrogate(s)		
Std ID	Exp. Date	Description	Std ID	Exp. Date	Description	Std ID	Exp. Date	Description
A13L219	11/30/23	Extractions Balance	A19H078	02/02/20	LVI PAH Spike @2000ng/ml	A19I094	03/03/20	8270D LL PAH Only Surr. (5ppm)
A18K311	12/31/20	Glass Wool						
A19H436	07/31/21	Sodium Sulfate Lot # 190116						
A19I262	08/30/22	DCM CHEM PROD. 186806						

Method 3546 digestion time and temperature achieved.
Initial: *can*

Witness: *SCG* 10/2/2019

can _____ 10-02-19
Prepared By: _____ Date

Reviewed By: _____ Date



ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence: **9J02028**
Date: **10/02/19 08:07**

Instrument: **SV-GCMS14**
Calibration: **A91001**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	9J02028-TUN1	Water	QC	QC			A19I102	A19I165
2	9J02028-CCV1	Water	QC	QC			A19I102	A19I020
3	9J02028-CCB1	Water	QC	QC			A19I102	
4	9100550-BLK1	Sediment	QC	QC		9100550	A19I102	
5	9100550-BS1	Sediment	QC	QC		9100550	A19I102	
6	A9I0771-06RE3	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	10/08/19	9100550	A19I102	
7	9100550-MS1	Sediment	QC	QC		9100550	A19I102	
8	9100550-MSD1	Sediment	QC	QC		9100550	A19I102	
9	A9I0771-04RE3	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	10/08/19	9100550	A19I102	
10	A9I0771-05RE3	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	10/08/19	9100550	A19I102	
11	A9I0936-22	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	10/11/19	9100550	A19I102	
12	9100550-MS2	Sediment	QC	QC		9100550		
13	9100550-MSD2	Sediment	QC	QC		9100550		
14	A9I0936-20	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	10/11/19	9100550	A19I102	
15	A9I0936-21	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	10/11/19	9100550	A19I102	
16	A9I0936-23	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	10/11/19	9100550	A19I102	
17	A9I0936-02	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	10/11/19	9100550	A19I102	
18	A9I0936-13	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	10/11/19	9100550	A19I102	
19	A9I0936-18	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	10/11/19	9100550	A19I102	
20	A9I0936-19	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	10/11/19	9100550	A19I102	
21	A9I0936-01	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	10/11/19	9100550	A19I102	
22	A9I0936-03	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	10/11/19	9100550	A19I102	
23	A9I0936-04	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	10/11/19	9100550	A19I102	
24	9J02028-IBL1	Water	QC	QC			A19I102	

Data Entered By: 10/4/19
Data Reviewed By: 10/4/19

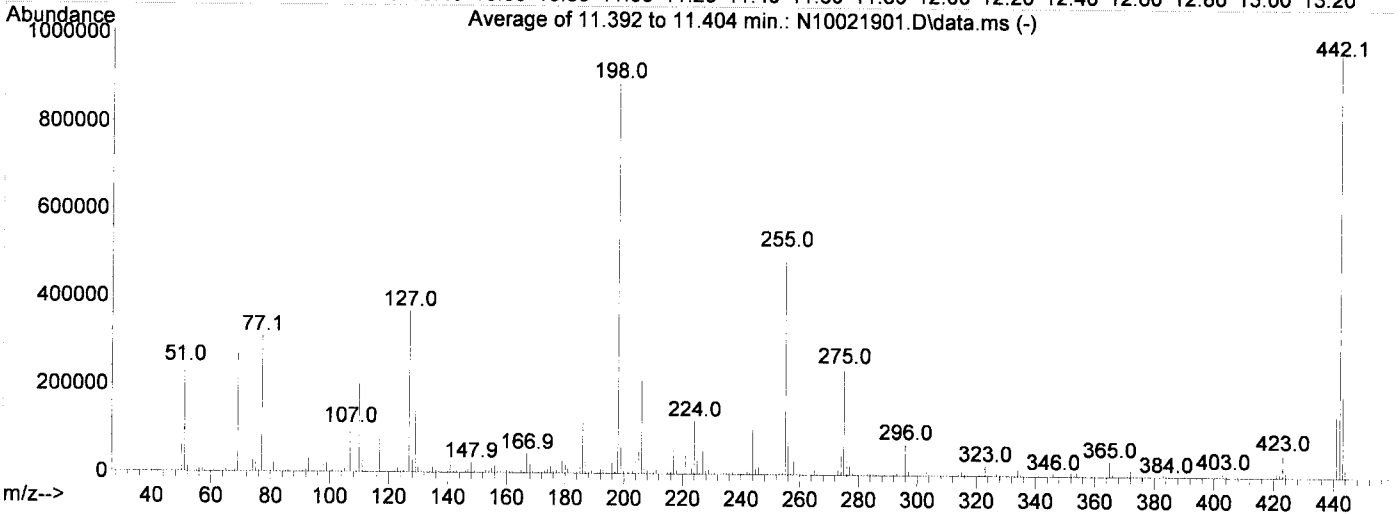
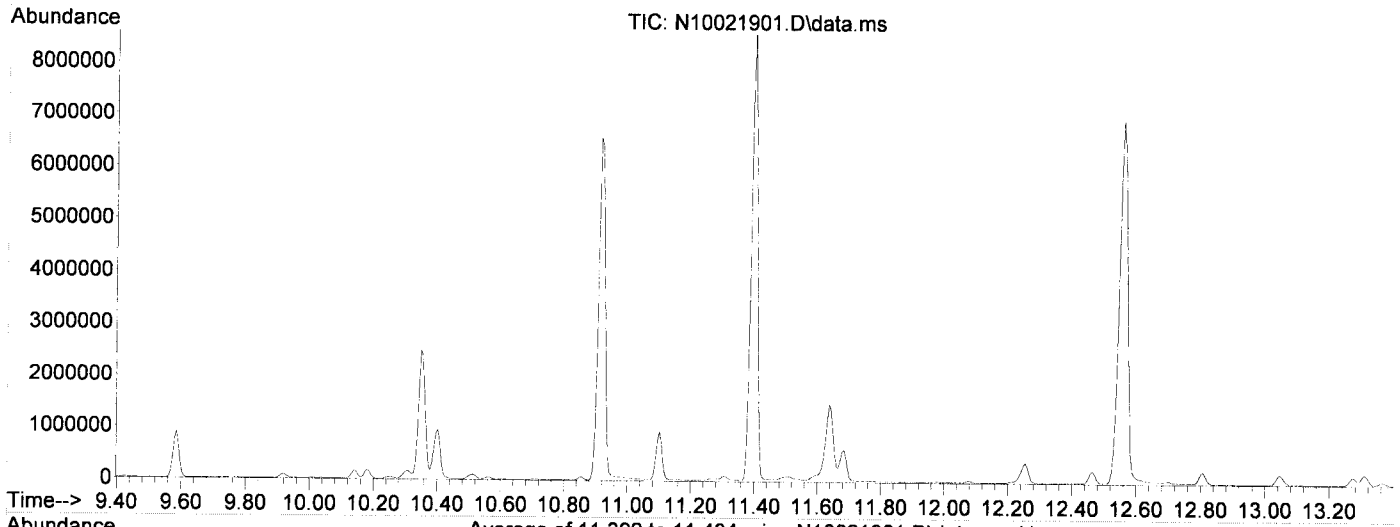
Comments:

Data Path : U:\data\2019-10\9J02028\
 Data File : N10021901.D
 Acq On : 02 Oct 2019 02:36 pm
 Operator : JK/ AMS/ DTH
 Sample : 9J02028-TUN1
 Misc : 1x, A19I165 DFTPP@45
 ALS Vial : 1 Sample Multiplier: 1

AMS
 10/3/19

Integration File: rteint.p

Method : U:\methods\DFTPP.M
 Title : 8270 DFTPP Tune Method
 Last Update : Thu Sep 05 08:50:46 2019



AutoFind: Scans 1218, 1219, 1220; Background Corrected with Scan 1212

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	1.5	4059	PASS
69	69	100	100	100.0	269119	PASS
70	69	0.00	2	0.5	1394	PASS
197	198	0.00	2	0.5	4037	PASS
198	198	100	100	100.0	891373	PASS
199	198	5	9	6.8	60861	PASS
365	198	1	100	3.9	34552	PASS
441	443	0.01	150	77.4	143152	PASS
442	198	0.10	200	107.6	959403	PASS
443	442	15	24	19.3	184960	PASS

Data Path : U:\data\2019-10\9J02028\
 Data File : N10021901.D
 Acq On : 02 Oct 2019 02:36 pm
 Operator : JK/ AMS/ DTH
 Sample : 9J02028-TUN1
 Misc : 1x, A19I165 DFTPP@45
 ALS Vial : 1 Sample Multiplier: 1
 DataAcq Meth:DFTPP.M

Quant Time: Oct 03 09:01:25 2019
 Quant Method : U:\methods\DFTPP.M
 Quant Title : 8270 DFTPP Tune Method
 QLast Update : Thu Sep 05 08:50:46 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.607	150	155122	2.00	ug/mL	0.00
2) Naphthalene-d8	7.819	136	448229	2.00	ug/mL	0.00
3) Acenaphthene-d10	9.585	162	253130	2.00	ug/mL	0.00
5) Phenanthrene-d10	11.100	188	460268	2.00	ug/mL	0.00
11) Chrysene-d12	14.778	240	411483	2.00	ug/mL	# 0.00
12) Perylene-d12	16.824	264	378090	2.00	ug/mL	#-0.01
13) Dibenz(a,h)anthracene-...	18.054	292	315134	2.00	ug/mL	#-0.01

Target Compounds						
4) Pentachlorophenol	10.920	266	1183047	49.49	ug/mL	Qvalue 89
6) DFTPP	11.398	442	1471749	39.61	ug/mL	92
7) Benzidine	12.558	184	5144658	31.42	ug/mL	97
8) 4,4-DDE	12.808	TIC	317988	No Calib		
9) 4,4-DDD	13.309	TIC	289843	No Calib		
10) 4,4-DDT	13.869	TIC	16451707	34.86	ug/mL	97

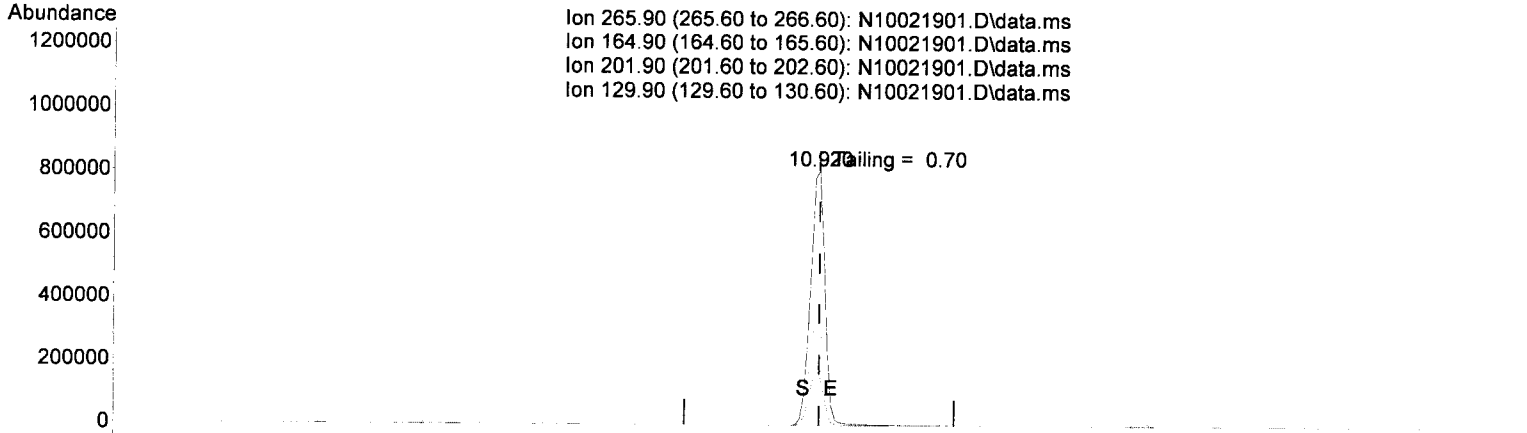
(#) = qualifier out of range (m) = manual integration (+) = signals summed

✓

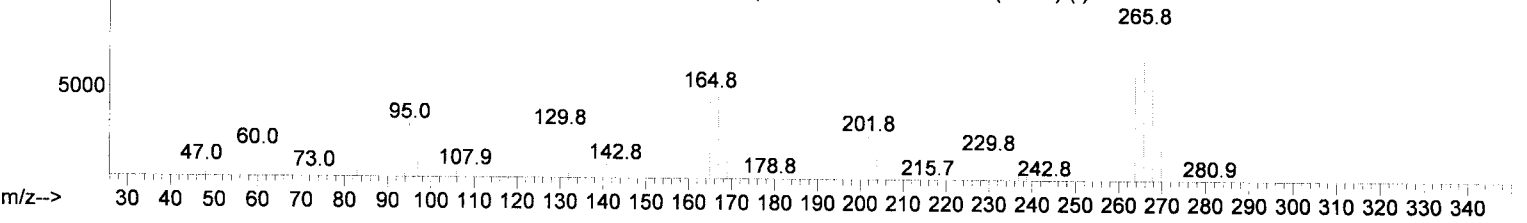
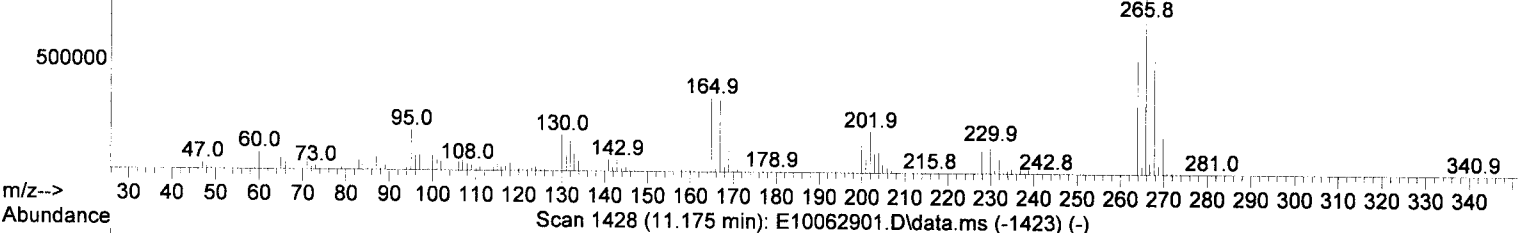
Quantitation Report (Qedit)

Data Path : U:\data\2019-10\9J02028\
 Data File : N10021901.D
 Acq On : 02 Oct 2019 02:36 pm
 Operator : JK/ AMS/ DTH
 Sample : 9J02028-TUN1
 Misc : 1x, A19I165 DFTPP@45
 ALS Vial : 1 Sample Multiplier: 1
 DataAcq Meth:DFTPP.M

Quant Time: Oct 03 09:01:25 2019
 Quant Method : U:\methods\DFTPP.M
 Quant Title : 8270 DFTPP Tune Method
 QLast Update : Thu Sep 05 08:50:46 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



Time--> 9.90 10.00 10.10 10.20 10.30 10.40 10.50 10.60 10.70 10.80 10.90 11.00 11.10 11.20 11.30 11.40 11.50 11.60 11.70 11.80 11.90
 Abundance
 Scan 1137 (10.920 min): N10021901.D\data.ms



TIC: N10021901.D\data.ms

(4) Pentachlorophenol

10.920min (-0.000) 49.49 ug/mL

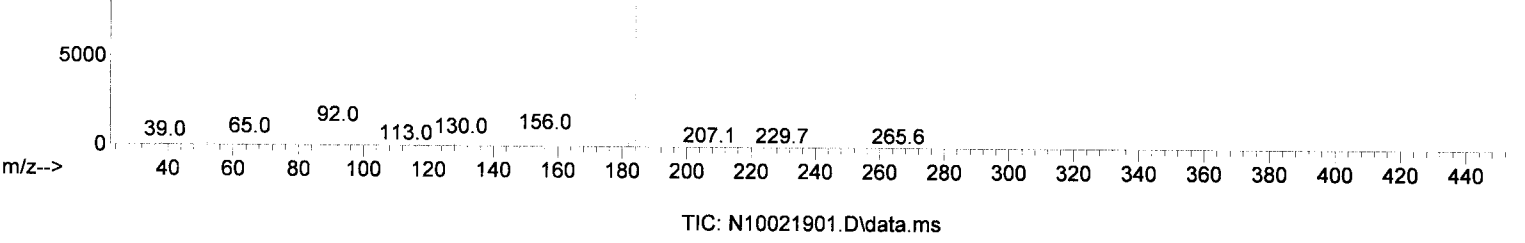
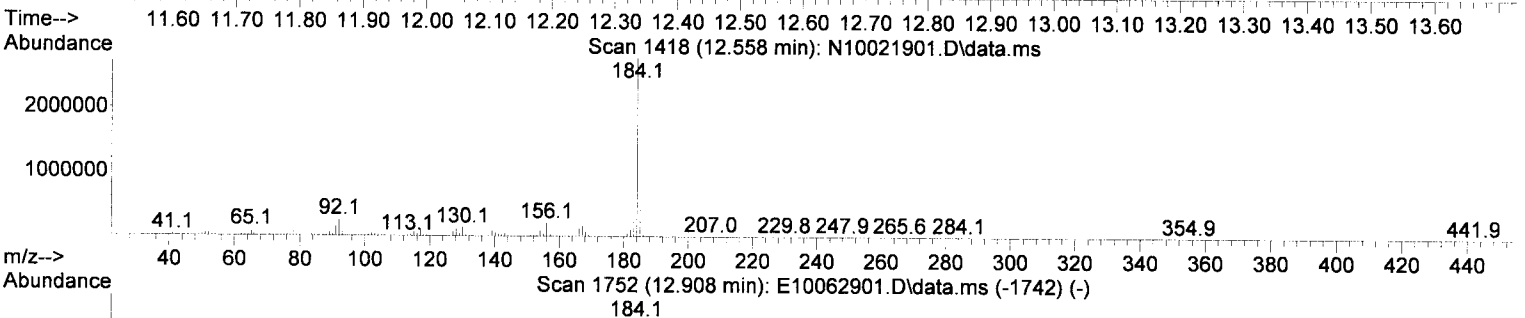
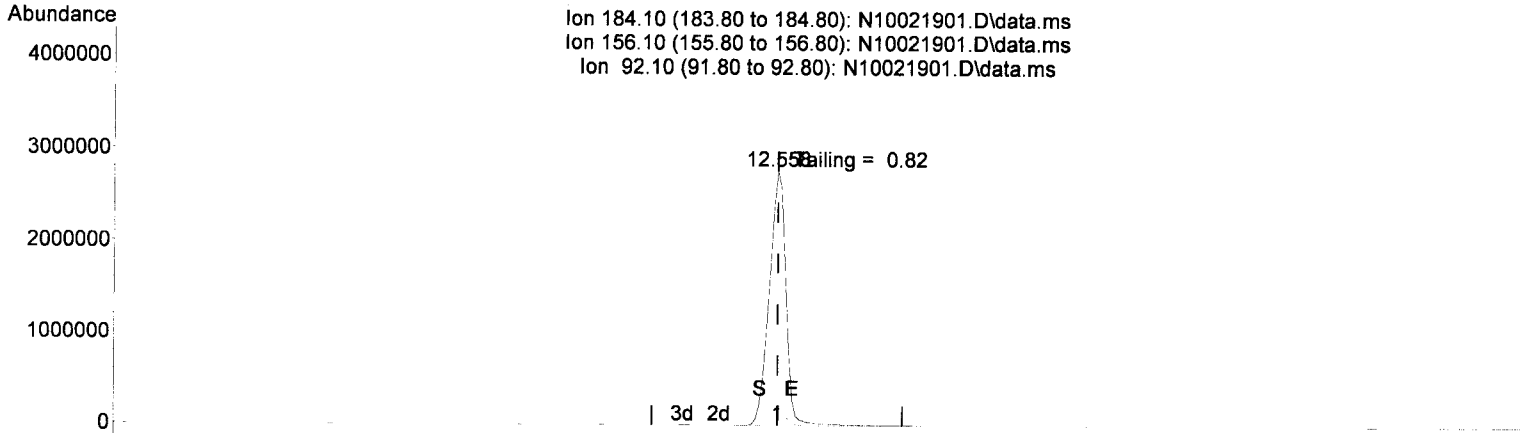
response 1183047

Ion	Exp%	Act%
265.90	100.00	100.00
164.90	50.60	41.54
201.90	25.80	23.04
129.90	27.30	20.32

Quantitation Report (Qedit)

Data Path : U:\data\2019-10\9J02028\
 Data File : N10021901.D
 Acq On : 02 Oct 2019 02:36 pm
 Operator : JK/ AMS/ DTH
 Sample : 9J02028-TUN1
 Misc : 1x, A19I165 DFTPP@45
 ALS Vial : 1 Sample Multiplier: 1
 DataAcq Meth:DFTPP.M

Quant Time: Oct 03 09:01:25 2019
 Quant Method : U:\methods\DFTPP.M
 Quant Title : 8270 DFTPP Tune Method
 QLast Update : Thu Sep 05 08:50:46 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



TIC: N10021901.D\data.ms

(7) Benzidine

12.558min (-0.000) 31.42 ug/mL

response 5144658

Ion	Exp%	Act%
184.10	100.00	100.00
156.10	8.50	7.43
92.10	8.20	9.06
0.00	0.00	0.00

DDT Breakdown Check (Validated 5/1/2013)

From:
9J02028-TUN1
SV-GCMS14

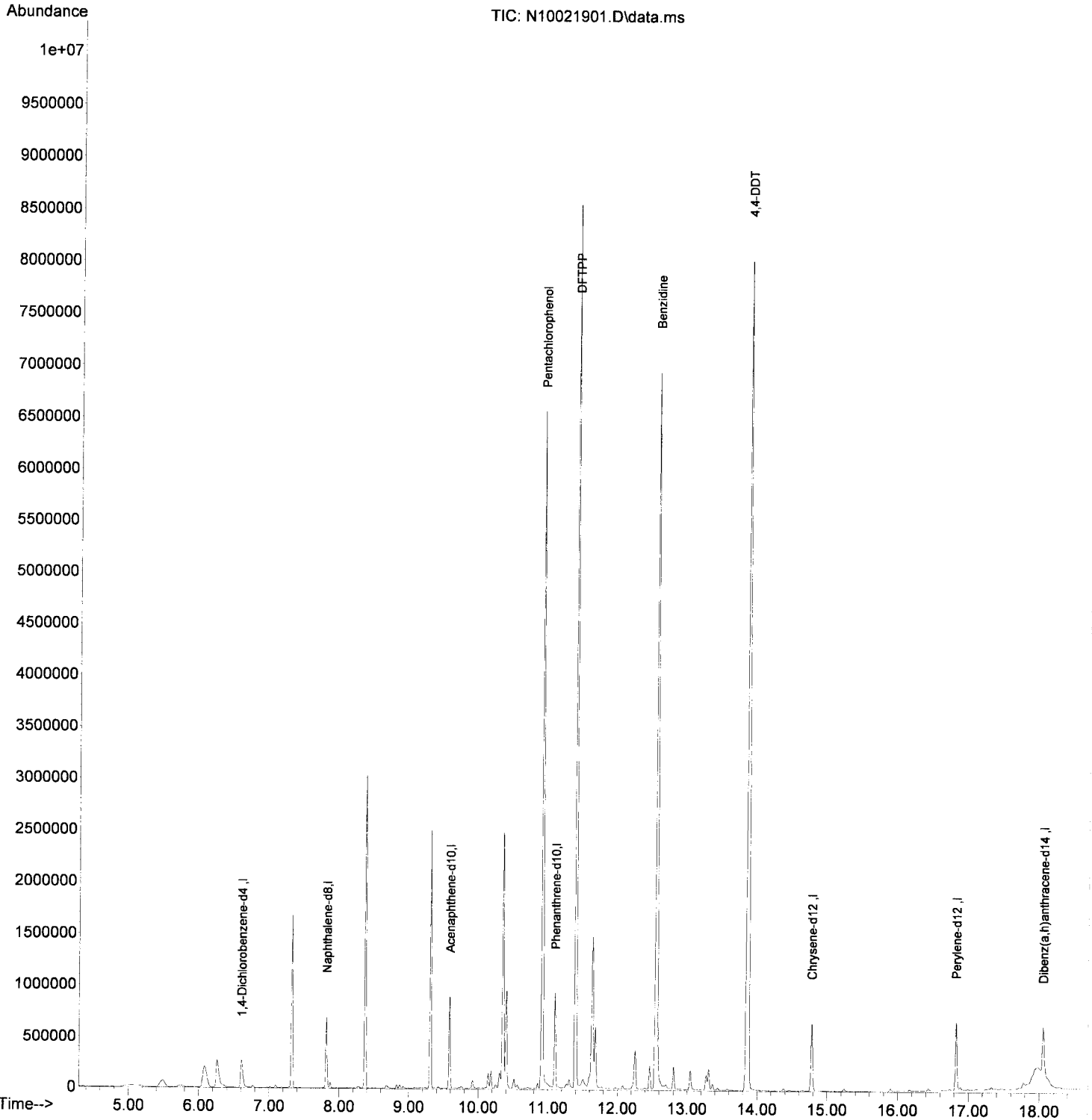
First Column Area Counts	Percent Breakdown	
DDE	317988	
DDD	289843	
DDT	16451707	3.56 PASS

Breakdown must be less than 20% to accept sample data.

✓

Data Path : U:\data\2019-10\9J02028\
Data File : N10021901.D
Acq On : 02 Oct 2019 02:36 pm
Operator : JK/ AMS/ DTH
Sample : 9J02028-TUN1
Misc : 1x, A19I165 DFTPP@45
ALS Vial : 1 Sample Multiplier: 1
DataAcq Meth:DFTPP.M

Quant Time: Oct 03 09:01:25 2019
Quant Method : U:\methods\DFTPP.M
Quant Title : 8270 DFTPP Tune Method
QLast Update : Thu Sep 05 08:50:46 2019
Response via : Initial Calibration
InstName : SV-GCMS14



Evaluate Continuing Calibration Report

Data Path : U:\data\2019-10\9J02028\
 Data File : N10021902.D
 Acq On : 02 Oct 2019 03:03 pm
 Operator : JK/ AMS/ DTH
 Sample : 9J02028-CCV1
 Misc : 1x, A19I020@50
 ALS Vial : 2 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

AMS
10/3/19

Quant Time: Oct 03 09:02:54 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound		Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Naphthalene-d8 (ISTD)	100.000	100.000	0.0	125	0.00
2 S	Nitrobenzene-d5 (Surr)	50.000	56.201	-12.4	144	0.00
3 T	Decalin	50.000	40.655	18.7	101	-0.01
4 T	Naphthalene	50.000	48.567	2.9	124	-0.01
5 T	2-Methylnaphthalene	50.000	45.719	8.6	114	0.00
6 T	1-Methylnaphthalene	50.000	47.475	5.0	115	0.00
7 T	1,1'-Biphenyl	50.000	45.495	9.0	114	0.00
8 T	2,6-Dimethylnaphthalene	50.000	45.666	8.7	111	0.00
9 I	Acenaphthene-d10 (ISTD)	100.000	100.000	0.0	114	0.00
10 S	2-Fluorobiphenyl (Surr)	50.000	49.117	1.8	113	0.00
11 S	Acenaphthylene d-8 (Surr)	50.000	48.270	3.5	112	0.00
12 T	Acenaphthylene	50.000	49.476	1.0	113	0.00
13 T	Acenaphthene	50.000	49.693	0.6	116	0.00
14 T	Dibenzofuran	50.000	49.617	0.8	113	0.00
15 T	1,6,7-Trimethylnaphthalene	50.000	49.234	1.5	115	0.00
16 T	Fluorene	50.000	50.490	-1.0	116	0.00
17 I	Phenanthrene-d10 (ISTD)	100.000	100.000	0.0	119	0.00
18 T	Dibenzothiopene	50.000	48.928	2.1	118	0.00
19 T	Phenanthrene	50.000	49.407	1.2	119	0.00
20 T	Anthracene	50.000	48.357	3.3	116	0.00
21 T	Carbazole	50.000	45.539	8.9	109	-0.02
22 T	1-Methylphenanthrene	50.000	50.152	-0.3	120	0.00
23 T	Fluoranthene	50.000	50.741	-1.5	121	0.00
24 I	Chrysene-d12 (ISTD)	100.000	100.000	0.0	130	0.00
25 T	Pyrene	50.000	46.894	6.2	121	0.00
26 S	Terphenyl-d14 (Surr)	50.000	47.859	4.3	125	0.00
27 T	Benz(a)anthracene	50.000	46.621	6.8	128	0.00
28 T	Chrysene	50.000	49.001	2.0	129	0.00
29 I	Perylene-d12 (ISTD)	100.000	100.000	0.0	135	0.00
30 T	Benzo(b)fluoranthene	50.000	49.356	1.3	132	0.00
31 T	Benzo(k)fluoranthene	50.000	50.511	-1.0	138	0.00
32 T	Benzo(b+k)fluoranthene	100.000	100.291	-0.3	135	0.00
33 S	Benzo(a)pyrene d-12 (Surr)	50.000	50.908	-1.8	136	0.00
34 T	Benzo(e)pyrene	50.000	48.798	2.4	133	0.00
35 T	Benzo(a)pyrene	50.000	50.084	-0.2	133	0.00
36 T	Perylene	50.000	50.364	-0.7	136	0.00
37 I	Dibenz(a,h)Anthracene-d14 (IS	100.000	100.000	0.0	147	0.00
38 T	Indeno(1,2,3-cd)Pyrene	50.000	47.163	5.7	140	0.00
39 T	Dibenz(a,h)anthracene	50.000	48.502	3.0	145	0.00
40 T	Benzo(g,h,i)perylene	50.000	47.795	4.4	139	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : U:\data\2019-10\9J02028\
 Data File : N10021902.D
 Acq On : 02 Oct 2019 03:03 pm
 Operator : JK/ AMS/ DTH
 Sample : 9J02028-CCV1
 Misc : 1x, A19I020@50
 ALS Vial : 2 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

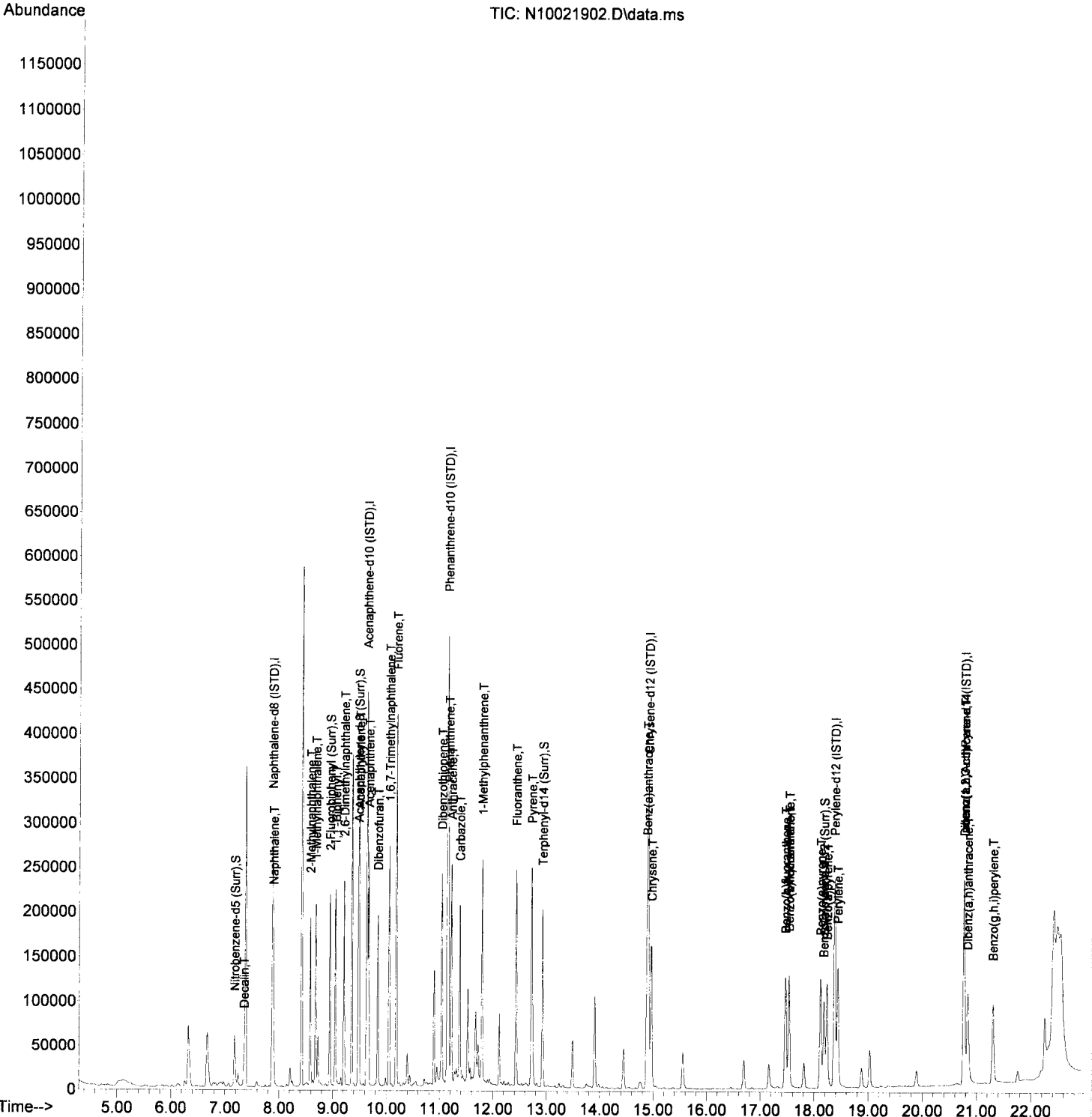
Quant Time: Oct 03 09:02:54 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Naphthalene-d8 (ISTD)	7.877	136	185509	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.632	162	134579	100.00	ng/ml	0.00	
17) Phenanthrene-d10 (ISTD)	11.141	188	260602	100.00	ng/ml	0.00	
24) Chrysene-d12 (ISTD)	14.907	240	220436	100.00	ng/ml	0.00	
29) Perylene-d12 (ISTD)	18.375	264	191913	100.00	ng/ml	0.00	
37) Dibenz(a,h)Anthracene-d...	20.764	292	137197	100.00	ng/ml	0.00	
System Monitoring Compounds							
2) Nitrobenzene-d5 (Surr)	7.178	82	34644	56.20	ng/ml	0.00	
10) 2-Fluorobiphenyl (Surr)	8.944	172	98612	49.12	ng/ml	0.00	
11) Acenaphthylene d-8 (Surr)	9.474	160	133535	48.27	ng/ml	0.00	
26) Terphenyl-d14 (Surr)	12.925	244	110955	47.86	ng/ml	0.00	
33) Benzo(a)pyrene d-12 (S...	18.176	264	78130	50.91	ng/ml	0.00	
Target Compounds							
							Qvalue
3) Decalin	7.353	138	5615	40.65	ng/ml		93
4) Naphthalene	7.895	128	99370	48.57	ng/ml		100
5) 2-Methylnaphthalene	8.583	142	79268	45.72	ng/ml		98
6) 1-Methylnaphthalene	8.682	142	82297	47.47	ng/ml		97
7) 1,1'-Biphenyl	9.049	154	106088	45.49	ng/ml		98
8) 2,6-Dimethylnaphthalene	9.206	156	77769	45.67	ng/ml		99
12) Acenaphthylene	9.492	152	144553	49.48	ng/ml		99
13) Acenaphthene	9.667	153	95096	49.69	ng/ml		100
14) Dibenzofuran	9.842	168	118928	49.62	ng/ml		97
15) 1,6,7-Trimethylnaphtha...	10.051	170	79015	49.23	ng/ml		99
16) Fluorene	10.185	166	98872	50.49	ng/ml		98
18) Dibenzothiopene	11.036	184	133356	48.93	ng/ml		98
19) Phenanthrene	11.165	178	150665	49.41	ng/ml		100
20) Anthracene	11.217	178	137164	48.36	ng/ml		100
21) Carbazole	11.374	167	104521	45.54	ng/ml		98
22) 1-Methylphenanthrene	11.794	192	106241	50.15	ng/ml		99
23) Fluoranthene	12.429	202	155899	50.74	ng/ml		97
25) Pyrene	12.721	202	161501	46.89	ng/ml		99
27) Benz(a)anthracene	14.883	228	119318	46.62	ng/ml		100
28) Chrysene	14.965	228	118677	49.00	ng/ml		99
30) Benzo(b)fluoranthene	17.465	252	109297	49.36	ng/ml		95
31) Benzo(k)fluoranthene	17.530	252	110129	50.51	ng/ml		95
32) Benzo(b+k)fluoranthene	17.530	252	227166	100.29	ng/ml		95
34) Benzo(e)pyrene	18.118	252	109267	48.80	ng/ml		98
35) Benzo(a)pyrene	18.235	252	94930	50.08	ng/ml		98
36) Perylene	18.433	252	117575	50.36	ng/ml		99
38) Indeno(1,2,3-cd)Pyrene	20.764	276	79803	47.16	ng/ml		85
39) Dibenz(a,h)anthracene	20.829	278	77114	48.50	ng/ml		86
40) Benzo(g,h,i)perylene	21.295	276	85790	47.80	ng/ml		85

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : U:\data\2019-10\9J02028\
 Data File : N10021902.D
 Acq On : 02 Oct 2019 03:03 pm
 Operator : JK/ AMS/ DTH
 Sample : 9J02028-CCV1
 Misc : 1x, A19I020@50
 ALS Vial : 2 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 03 09:02:54 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



Data Path : U:\data\2019-10\9J02028\
 Data File : N10021903.D
 Acq On : 02 Oct 2019 03:35 pm
 Operator : JK/ AMS/ DTH
 Sample : 9J02028-CCB1
 Misc : 1x, DCM + ISTD
 ALS Vial : 3 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

AMS
10/3/19
AMS
10/3/19

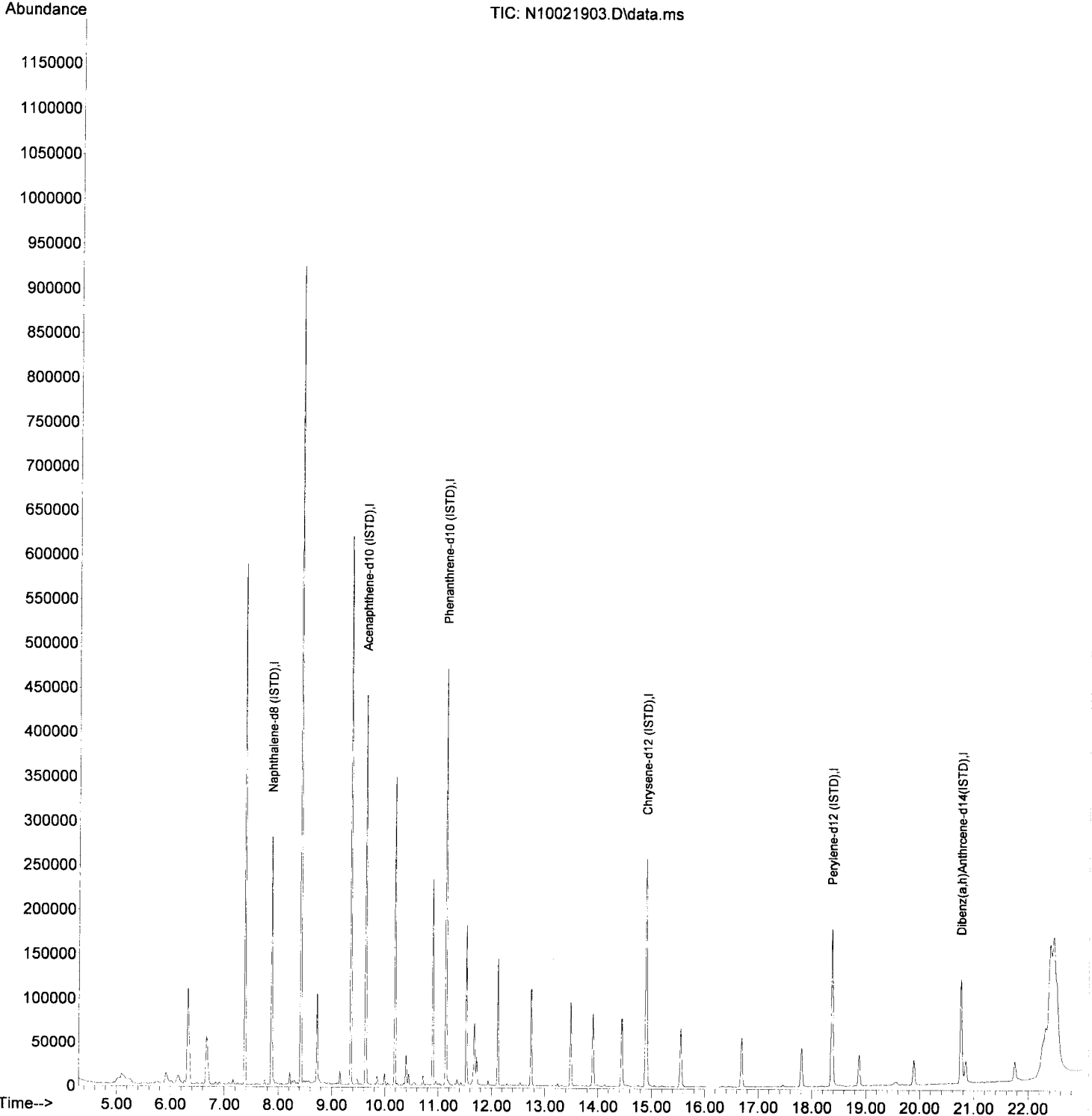
Quant Time: Oct 03 09:03:17 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Naphthalene-d8 (ISTD)	7.877	136	191493	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.632	162	132515	100.00	ng/ml	0.00	
17) Phenanthrene-d10 (ISTD)	11.142	188	249370	100.00	ng/ml	0.00	
24) Chrysene-d12 (ISTD)	14.901	240	183878	100.00	ng/ml	0.00	
29) Perylene-d12 (ISTD)	18.369	264	148234	100.00	ng/ml	0.00	
37) Dibenz(a,h)Anthracene-d...	20.759	292	109385	100.00	ng/ml	0.00	
System Monitoring Compounds							
2) Nitrobenzene-d5 (Surr)	7.079	82	134	0.21	ng/ml	-0.10	
10) 2-Fluorobiphenyl (Surr)	0.000	172	0	0.00	ng/ml		
11) Acenaphthylene d-8 (Surr)	9.475	160	4355	0.18	ng/ml	0.00	
26) Terphenyl-d14 (Surr)	0.000	244	0	0.00	ng/ml		
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml		
Target Compounds							
3) Decalin	0.000		0	N.D.			Qvalue
4) Naphthalene	7.907	128	232	N.D.			
5) 2-Methylnaphthalene	0.000		0	N.D.			
6) 1-Methylnaphthalene	0.000		0	N.D.			
7) 1,1'-Biphenyl	9.049	154	88	N.D.			
8) 2,6-Dimethylnaphthalene	0.000		0	N.D.			
12) Acenaphthylene	9.492	152	50	N.D.			
13) Acenaphthene	0.000		0	N.D.			
14) Dibenzofuran	0.000		0	N.D.			
15) 1,6,7-Trimethylnaphtha...	0.000		0	N.D.			
16) Fluorene	0.000		0	N.D.			
18) Dibenzothiopene	0.000		0	N.D.			
19) Phenanthrene	11.147	178	194	N.D.			
20) Anthracene	11.147	178	181	N.D.			
21) Carbazole	11.142	167	72	N.D.			
22) 1-Methylphenanthrene	0.000		0	N.D.			
23) Fluoranthene	0.000		0	N.D.			
25) Pyrene	0.000		0	N.D.			
27) Benz(a)anthracene	14.901	228	512	N.D.			
28) Chrysene	14.953	228	50	N.D.			
30) Benzo(b)fluoranthene	0.000		0	N.D.			
31) Benzo(k)fluoranthene	0.000		0	N.D.			
32) Benzo(b+k)fluoranthene	0.000		0	N.D.			
34) Benzo(e)pyrene	18.369	252	489	N.D.			
35) Benzo(a)pyrene	0.000		0	N.D.			
36) Perylene	18.369	252	530	N.D.			
38) Indeno(1,2,3-cd)Pyrene	0.000		0	N.D.			
39) Dibenz(a,h)anthracene	0.000		0	N.D.			
40) Benzo(g,h,i)perylene	0.000		0	N.D.			

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : U:\data\2019-10\9J02028\
Data File : N10021903.D
Acq On : 02 Oct 2019 03:35 pm
Operator : JK/ AMS/ DTH
Sample : 9J02028-CCB1
Misc : 1x, DCM + ISTD
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 03 09:03:17 2019
Quant Method : U:\methods\SV14_090619_PAH.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Sep 09 14:58:53 2019
Response via : Initial Calibration
InstName : SV-GCMS14



Data Path : U:\data\2019-10\9J02028\
 Data File : N10021904.D
 Acq On : 02 Oct 2019 04:07 pm
 Operator : JK/ AMS/ DTH
 Sample : 9100550-BLK1
 Misc : 1x, 8270D LL PAH ONLY
 ALS Vial : 4 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

AMS
10/3/19

Quant Time: Oct 03 09:03:20 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

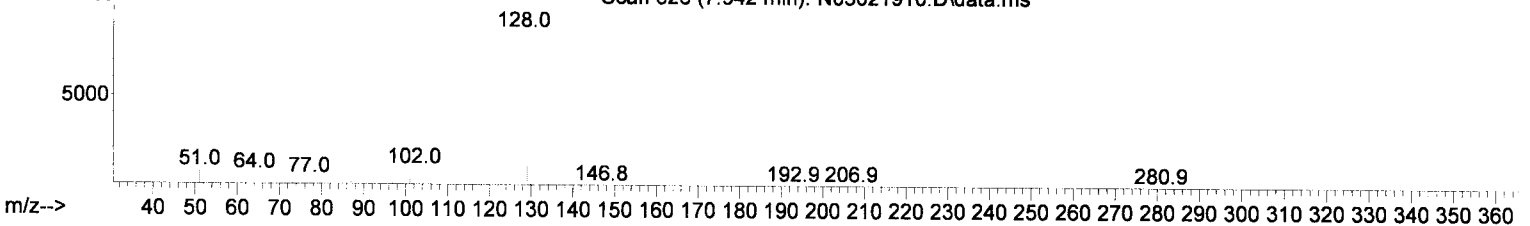
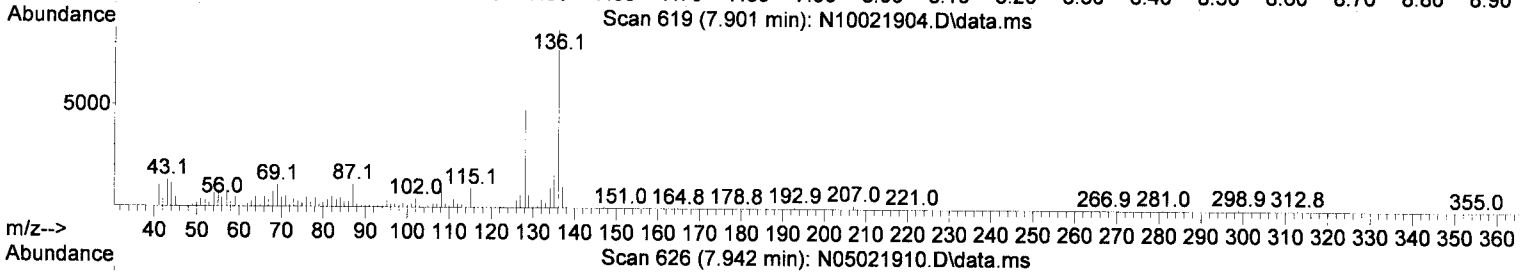
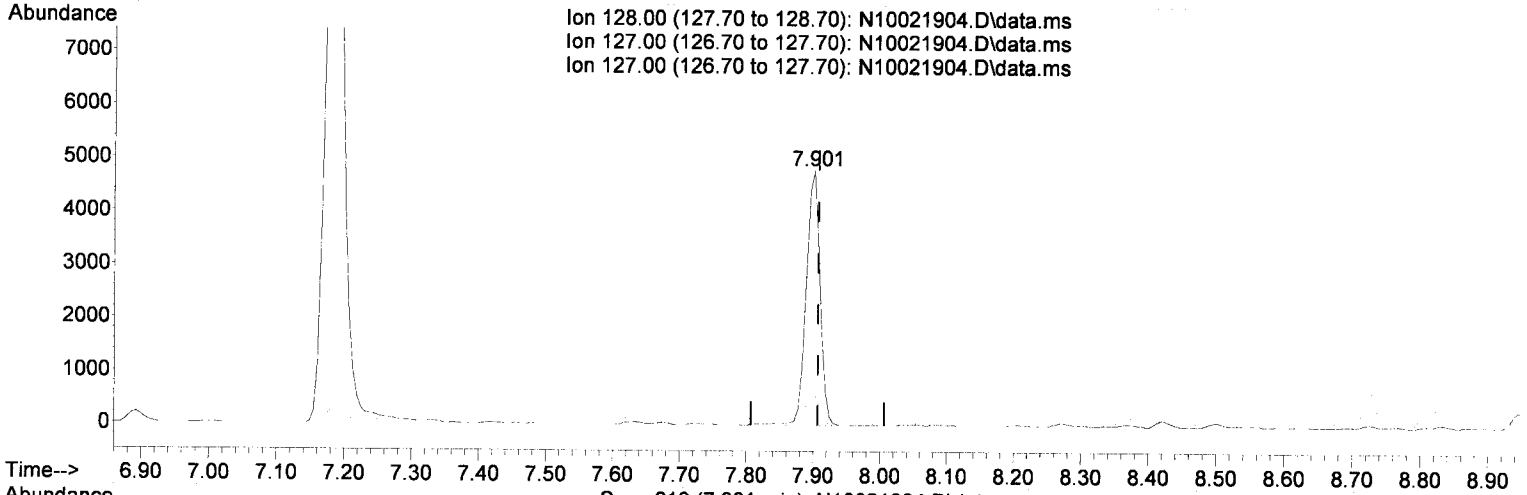
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	Qvalue
Internal Standards							
1) Naphthalene-d8 (ISTD)	7.877	136	211503	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.632	162	132291	100.00	ng/ml	0.00	
17) Phenanthrene-d10 (ISTD)	11.141	188	236423	100.00	ng/ml	0.00	
24) Chrysene-d12 (ISTD)	14.901	240	178757	100.00	ng/ml	0.00	
29) Perylene-d12 (ISTD)	18.369	264	148852	100.00	ng/ml	0.00	
37) Dibenz(a,h)Anthracene-d...	20.759	292	110247	100.00	ng/ml	0.00	
System Monitoring Compounds							
2) Nitrobenzene-d5 (Surr)	7.184	82	50604	72.00	ng/ml	0.00	
10) 2-Fluorobiphenyl (Surr)	8.944	172	143316	72.62	ng/ml	0.00	
11) Acenaphthylene d-8 (Surr)	9.474	160	7500	1.38	ng/ml	0.00	
26) Terphenyl-d14 (Surr)	12.925	244	147603	78.51	ng/ml	0.00	
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml		
Target Compounds							
3) Decalin	0.000		0	N.D.			
4) Naphthalene	7.901	128	6860	(2.94)	ng/ml	100	J - P02
5) 2-Methylnaphthalene	8.582	142	670	N.D.			
6) 1-Methylnaphthalene	8.682	142	370	N.D.			
7) 1,1'-Biphenyl	9.049	154	513	N.D.			
8) 2,6-Dimethylnaphthalene	9.212	156	316	N.D.			
12) Acenaphthylene	9.492	152	661	N.D.			
13) Acenaphthene	9.667	153	765	0.41	ng/ml	95	
14) Dibenzofuran	9.841	168	199	N.D.			
15) 1,6,7-Trimethylnaphtha...	10.051	170	323	N.D.			
16) Fluorene	10.185	166	538	N.D.			
18) Dibenzothiopene	11.036	184	423	N.D.			
19) Phenanthrene	11.165	178	3059	1.11	ng/ml	95	
20) Anthracene	11.217	178	543	N.D.			
21) Carbazole	11.374	167	254	N.D.			
22) 1-Methylphenanthrene	11.788	192	585	N.D.			
23) Fluoranthene	12.429	202	4279	1.54	ng/ml	97	
25) Pyrene	12.715	202	5369	1.92	ng/ml	98	
27) Benz(a)anthracene	14.883	228	1649	0.79	ng/ml	98	
28) Chrysene	14.953	228	1712	0.87	ng/ml	99	
30) Benzo(b)fluoranthene	17.465	252	1231	0.72	ng/ml	97	
31) Benzo(k)fluoranthene	17.465	252	1722	1.02	ng/ml	95	
32) Benzo(b+k)fluoranthene	17.465	252	1775	1.01	ng/ml	95	
34) Benzo(e)pyrene	18.112	252	837	0.48	ng/ml	94	
35) Benzo(a)pyrene	18.229	252	1184	0.81	ng/ml	85	
36) Perylene	18.427	252	294	N.D.			
38) Indeno(1,2,3-cd)Pyrene	20.759	276	837	0.62	ng/ml#	37	
39) Dibenz(a,h)anthracene	20.828	278	124	N.D.			
40) Benzo(g,h,i)perylene	21.289	276	776	0.54	ng/ml	94	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : N:\data\2019-10\9J02028\
 Data File : N10021904.D
 Acq On : 02 Oct 2019 04:07 pm
 Operator : JK/ AMS/ DTH
 Sample : 9100550-BLK1
 Misc : 1x, 8270D LL PAH ONLY
 ALS Vial : 4 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 03 09:03:20 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



TIC: N10021904.D\data.ms

(4) Naphthalene (T)

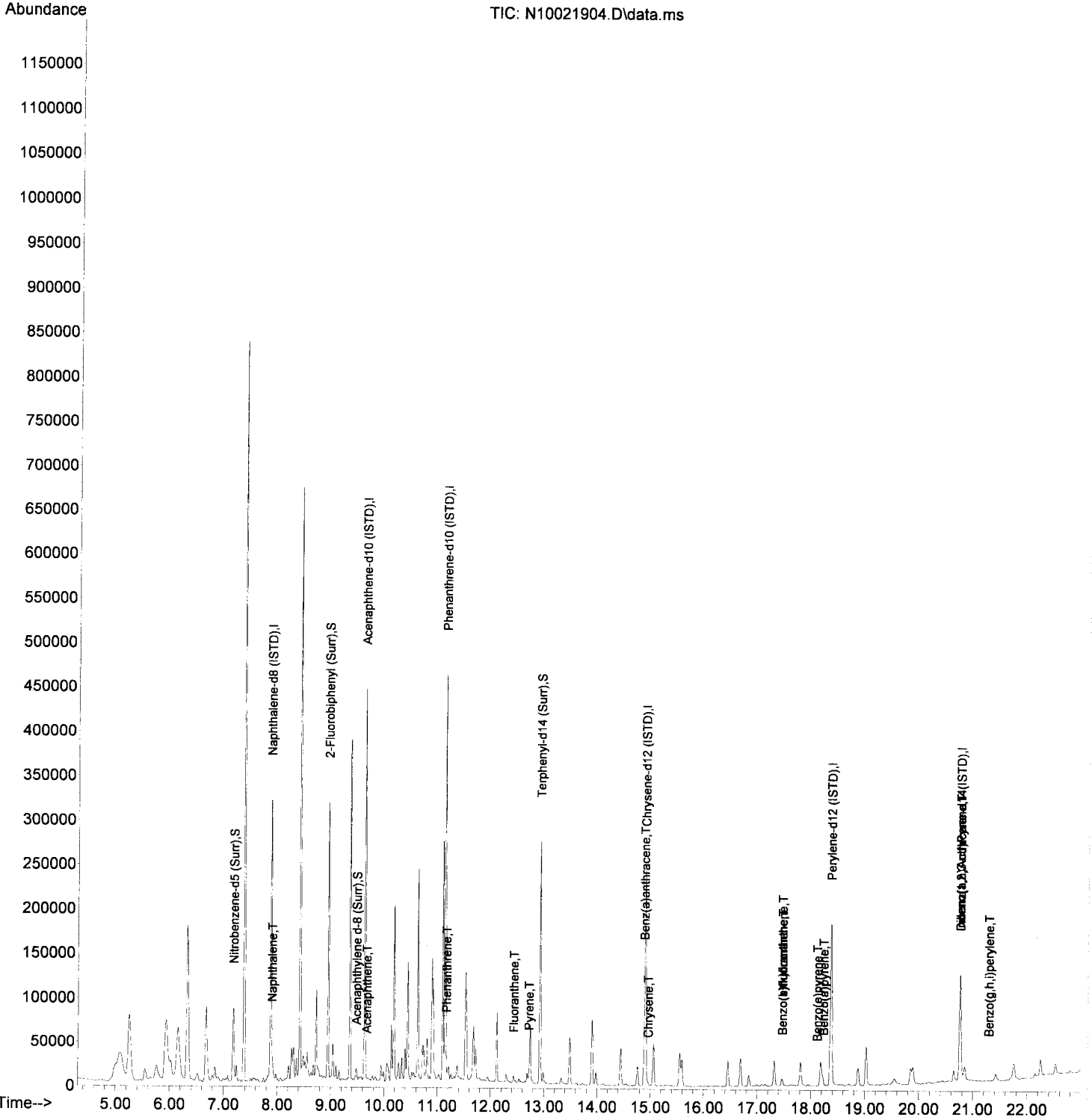
7.901min (-0.006) 2.94 ng/ml

B-02

response	6860	
Ion	Exp%	Act%
128.00	100.00	100.00
127.00	12.60	12.72
127.00	12.60	12.72
0.00	0.00	0.00

Data Path : U:\data\2019-10\9J02028\
 Data File : N10021904.D
 Acq On : 02 Oct 2019 04:07 pm
 Operator : JK/ AMS/ DTH
 Sample : 9100550-BLK1
 Misc : 1x, 8270D LL PAH ONLY
 ALS Vial : 4 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 03 09:03:20 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



Data Path : U:\data\2019-10\9J02028\
 Data File : N10021905.D
 Acq On : 02 Oct 2019 04:39 pm
 Operator : JK/ AMS/ DTH
 Sample : 9100550-BS1
 Misc : 1x, 8270D LL PAH ONLY
 ALS Vial : 5 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

AMS
10/3/19

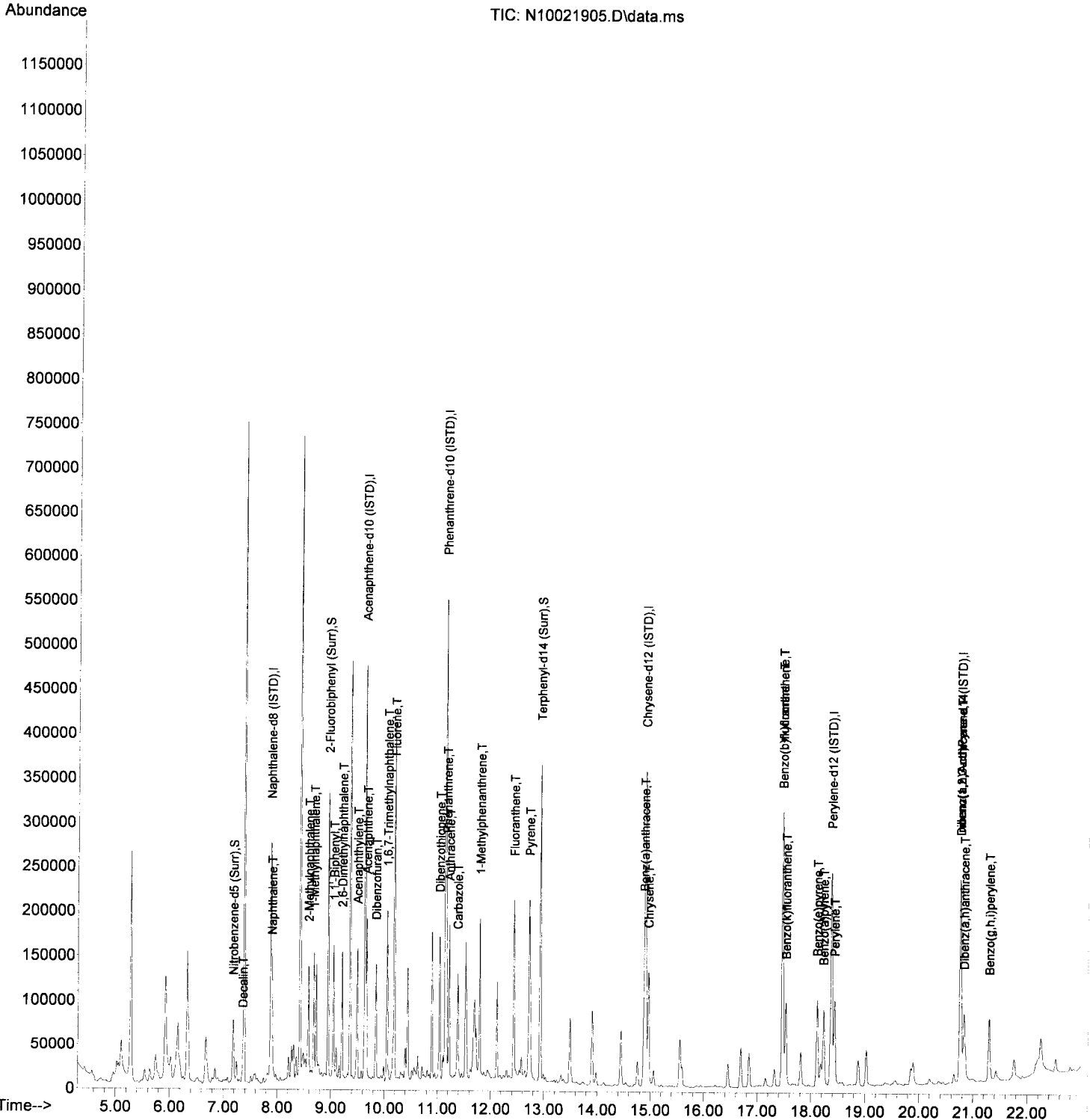
Quant Time: Oct 03 09:03:23 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Naphthalene-d8 (ISTD)	7.877	136	175574	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.638	162	141554	100.00	ng/ml	0.00	
17) Phenanthrene-d10 (ISTD)	11.141	188	275822	100.00	ng/ml	0.00	
24) Chrysene-d12 (ISTD)	14.901	240	235476	100.00	ng/ml	0.00	
29) Perylene-d12 (ISTD)	18.375	264	202037	100.00	ng/ml	0.00	
37) Dibenz(a,h)Anthracene-d...	20.759	292	146077	100.00	ng/ml	0.00	
System Monitoring Compounds							
2) Nitrobenzene-d5 (Surr)	7.178	82	40345	69.15	ng/ml	0.00	
10) 2-Fluorobiphenyl (Surr)	8.950	172	149398	70.75	ng/ml	0.00	
11) Acenaphthylene d-8 (Surr)	9.474	160	3407	-1.00	ng/ml	0.00	
26) Terphenyl-d14 (Surr)	12.925	244	194451	78.52	ng/ml	0.00	
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml		
Target Compounds							
							Qvalue
3) Decalin	7.359	138	2519	19.27	ng/ml		94
4) Naphthalene	7.901	128	63401	32.74	ng/ml		98 - Boz
5) 2-Methylnaphthalene	8.583	142	49430	30.12	ng/ml		98
6) 1-Methylnaphthalene	8.682	142	50809	30.97	ng/ml		98
7) 1,1'-Biphenyl	9.049	154	67156	30.43	ng/ml		96
8) 2,6-Dimethylnaphthalene	9.206	156	49772	30.88	ng/ml		99
12) Acenaphthylene	9.492	152	92390	30.06	ng/ml		99
13) Acenaphthene	9.667	153	63134	31.37	ng/ml		99
14) Dibenzofuran	9.842	168	75673	30.02	ng/ml		98 ✓
15) 1,6,7-Trimethylnaphtha...	10.052	170	52999	31.40	ng/ml	100	
16) Fluorene	10.191	166	66738	32.40	ng/ml		99
18) Dibenzothiopene	11.037	184	88246	30.59	ng/ml		97
19) Phenanthrene	11.165	178	115549	35.80	ng/ml	100	
20) Anthracene	11.217	178	96080	32.00	ng/ml		99
21) Carbazole	11.375	167	73267	30.16	ng/ml		99
22) 1-Methylphenanthrene	11.794	192	74874	33.39	ng/ml		99
23) Fluoranthene	12.430	202	125535	38.60	ng/ml		98
25) Pyrene	12.721	202	131573	35.76	ng/ml	100	
27) Benz(a)anthracene	14.878	228	92649	33.89	ng/ml		98
28) Chrysene	14.959	228	94659	36.59	ng/ml		99
30) Benzo(b)fluoranthene	17.460	252	87038	37.33	ng/ml		96
31) Benzo(k)fluoranthene	17.530	252	81600	35.55	ng/ml		96
32) Benzo(b+k)fluoranthene	17.460	252	174517	73.19	ng/ml		94
34) Benzo(e)pyrene	18.113	252	82434	34.97	ng/ml		98
35) Benzo(a)pyrene	18.229	252	72091	36.13	ng/ml		98
36) Perylene	18.433	252	82080	33.40	ng/ml		99
38) Indeno(1,2,3-cd)Pyrene	20.759	276	60809	33.75	ng/ml		87
39) Dibenz(a,h)anthracene	20.829	278	53233	31.45	ng/ml		88
40) Benzo(g,h,i)perylene	21.295	276	66444	34.77	ng/ml		86

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : U:\data\2019-10\9J02028\
 Data File : N10021905.D
 Acq On : 02 Oct 2019 04:39 pm
 Operator : JK/ AMS/ DTH
 Sample : 9100550-BS1
 Misc : 1x, 8270D LL PAH ONLY
 ALS Vial : 5 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 03 09:03:23 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



Data Path : U:\data\2019-10\9J02028\
 Data File : N10021906.D
 Acq On : 02 Oct 2019 05:15 pm
 Operator : JK/ AMS/ DTH
 Sample : A9I0771-06RE3@10
 Misc : 10x, 8270D LL PAH ONLY
 ALS Vial : 6 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

AMS
 10/3/19 MOS

Quant Time: Oct 03 09:03:26 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

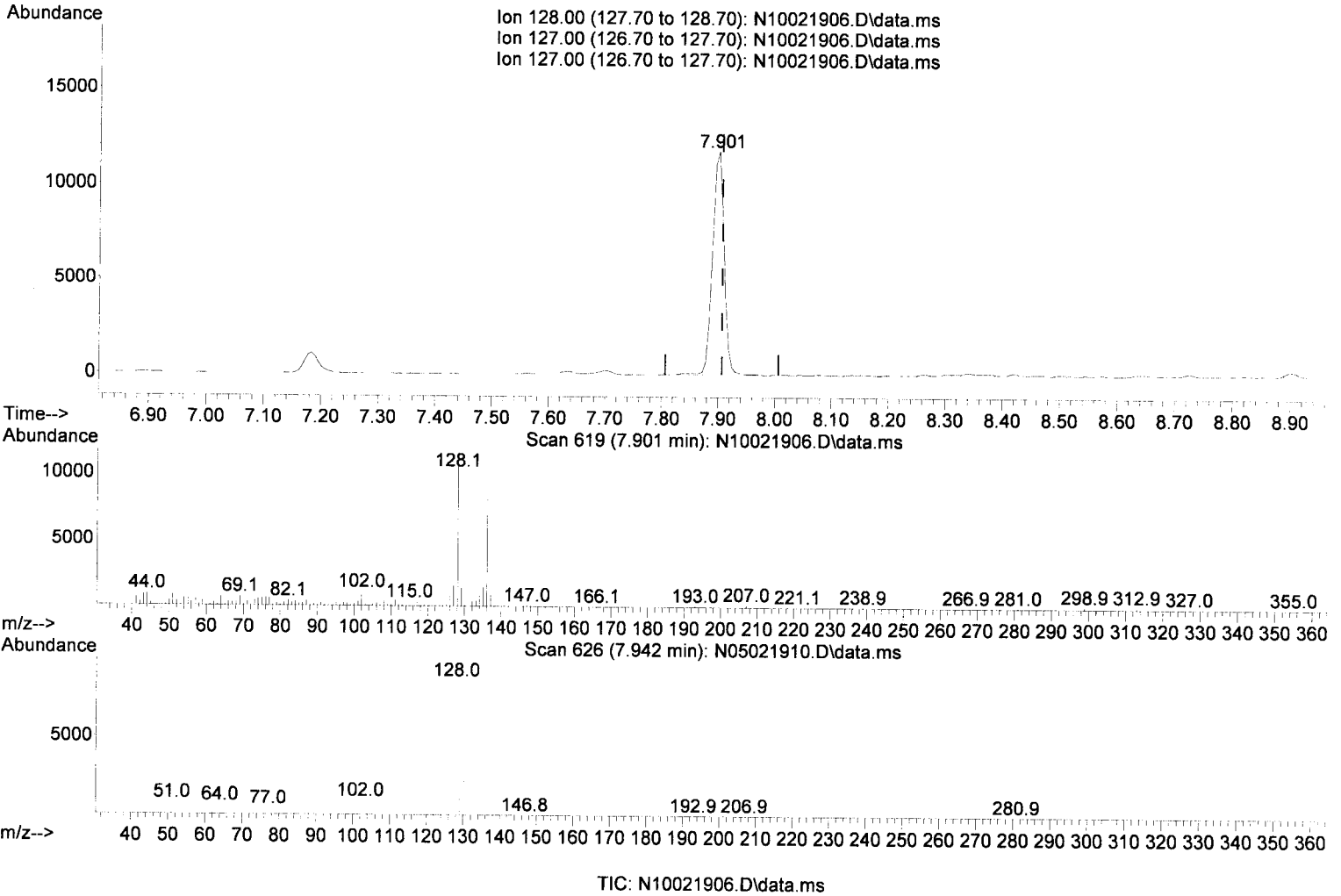
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	Qvalue
Internal Standards							
1) Naphthalene-d8 (ISTD)	7.877	136	223686	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.632	162	137552	100.00	ng/ml	0.00	
17) Phenanthrene-d10 (ISTD)	11.141	188	250380	100.00	ng/ml	0.00	
24) Chrysene-d12 (ISTD)	14.901	240	216049	100.00	ng/ml	0.00	
29) Perylene-d12 (ISTD)	18.375	264	207077	100.00	ng/ml	0.00	
37) Dibenz(a,h)Anthrcene-d...	20.765	292	155310	100.00	ng/ml	0.00	
System Monitoring Compounds							
2) Nitrobenzene-d5 (Surr)	7.184	82	3708	4.99	ng/ml	0.00	
10) 2-Fluorobiphenyl (Surr)	8.944	172	10534	5.13	ng/ml	0.00	
11) Acenaphthylene d-8 (Surr)	9.474	160	4664	0.24	ng/ml	0.00	
26) Terphenyl-d14 (Surr)	12.925	244	17380	7.65	ng/ml	0.00	
33) Benzo(a)pyrene d-12 (S...	18.223	264	51	0.03	ng/ml	0.05	
Target Compounds							
3) Decalin	0.000		0	N.D.			
4) Naphthalene	7.901	128	16846	6.83	ng/ml	99	- 802
5) 2-Methylnaphthalene	8.583	142	7962	3.81	ng/ml	96	
6) 1-Methylnaphthalene	8.682	142	2846	1.36	ng/ml	96	
7) 1,1'-Biphenyl	9.049	154	1682	0.60	ng/ml	90	
8) 2,6-Dimethylnaphthalene	9.212	156	3947	1.92	ng/ml	95	
12) Acenaphthylene	9.492	152	14674	4.91	ng/ml	94	
13) Acenaphthene	9.667	153	111748	57.13	ng/ml	100	
14) Dibenzofuran	9.842	168	6958	2.84	ng/ml	96	
15) 1,6,7-Trimethylnaphtha...	10.046	170	3781	2.30	ng/ml	84	
16) Fluorene	10.186	166	69141	34.54	ng/ml	98	
18) Dibenzothiopene	11.037	184	17616	6.73	ng/ml	98	
19) Phenanthrene	11.165	178	294003	100.35	ng/ml	99	
20) Anthracene	11.217	178	28715	10.54	ng/ml	97	
21) Carbazole	11.375	167	1891	0.86	ng/ml	69	
22) 1-Methylphenanthrene	11.788	192	20090	9.87	ng/ml	92	
23) Fluoranthene	12.430	202	183608	62.20	ng/ml	98	
25) Pyrene	12.721	202	180795	53.56	ng/ml	99	
27) Benz(a)anthracene	14.883	228	38882	15.50	ng/ml	85	
28) Chrysene	14.959	228	42230	17.79	ng/ml	96	
30) Benzo(b)fluoranthene	17.465	252	43074	18.03	ng/ml	94	
31) Benzo(k)fluoranthene	17.465	252	54447	23.14	ng/ml	92	MI-MOS
32) Benzo(b+k)fluoranthene	17.465	252	61876	25.32	ng/ml	92	
34) Benzo(e)pyrene	18.112	252	24994	10.34	ng/ml	99	
35) Benzo(a)pyrene	18.235	252	34965	17.10	ng/ml	99	
36) Perylene	18.433	252	12981	5.15	ng/ml	99	
38) Indeno(1,2,3-cd)Pyrene	20.759	276	21309	11.12	ng/ml	93	
39) Dibenz(a,h)anthracene	20.823	278	3116	1.73	ng/ml	76	
40) Benzo(g,h,i)perylene	21.295	276	26601	13.09	ng/ml	89	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : U:\data\2019-10\9J02028\
 Data File : N10021906.D
 Acq On : 02 Oct 2019 05:15 pm
 Operator : JK/ AMS/ DTH
 Sample : A9I0771-06RE3@10
 Misc : 10x, 8270D LL PAH ONLY
 ALS Vial : 6 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 03 09:03:26 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(4) Naphthalene (T)

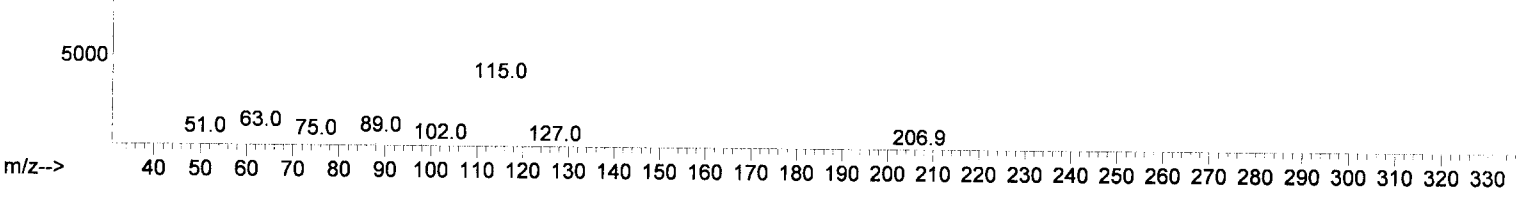
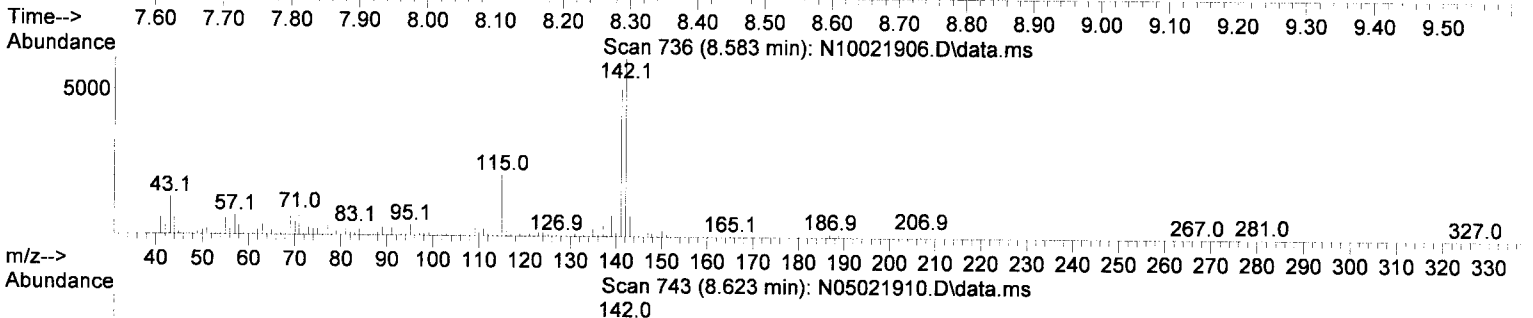
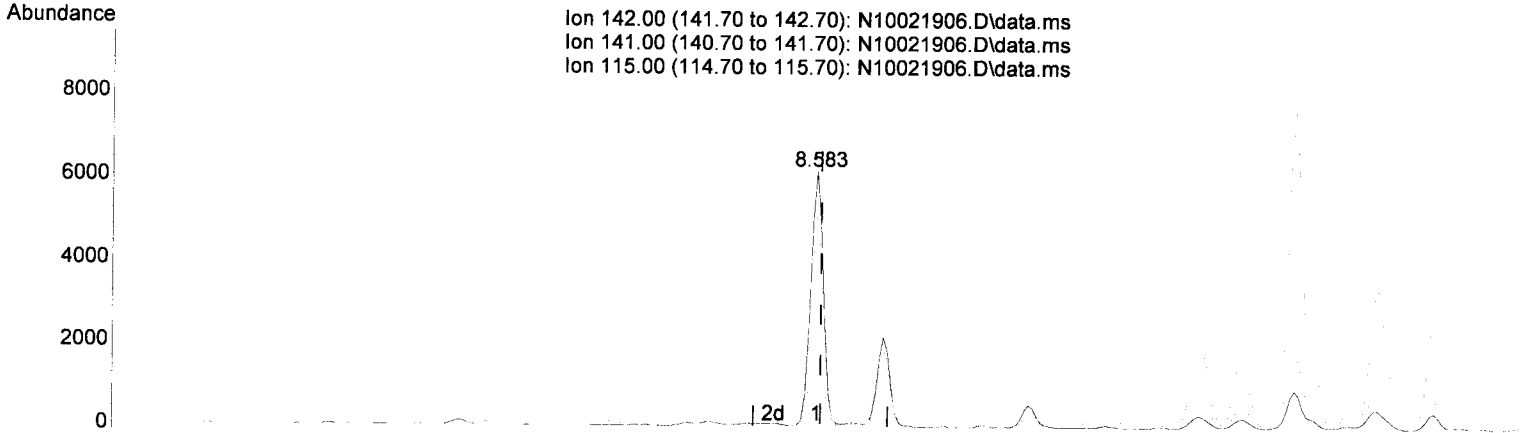
7.901min (-0.006) 6.83 ng/ml

response	16846
Ion	Exp% Act%
128.00	100.00 100.00
127.00	12.60 12.92
127.00	12.60 12.92
0.00	0.00 0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-10\9J02028\
 Data File : N10021906.D
 Acq On : 02 Oct 2019 05:15 pm
 Operator : JK/ AMS/ DTH
 Sample : A9I0771-06RE3@10
 Misc : 10x, 8270D LL PAH ONLY
 ALS Vial : 6 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 03 09:03:26 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



TIC: N10021906.D\data.ms

(5) 2-Methylnaphthalene (T)

8.583min (-0.006) 3.81 ng/ml

response 7962

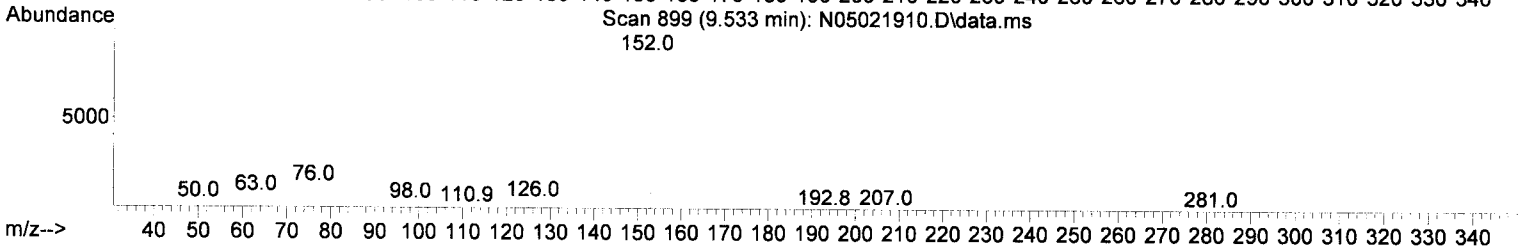
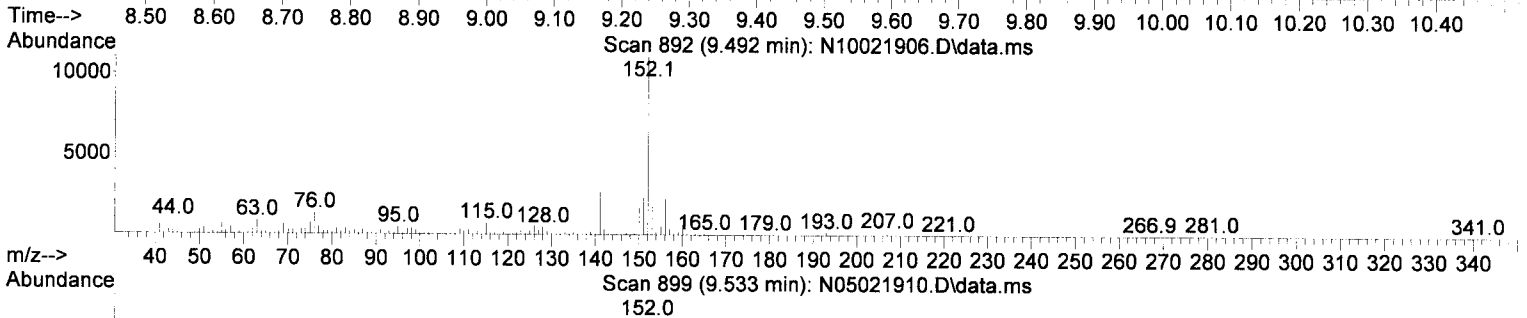
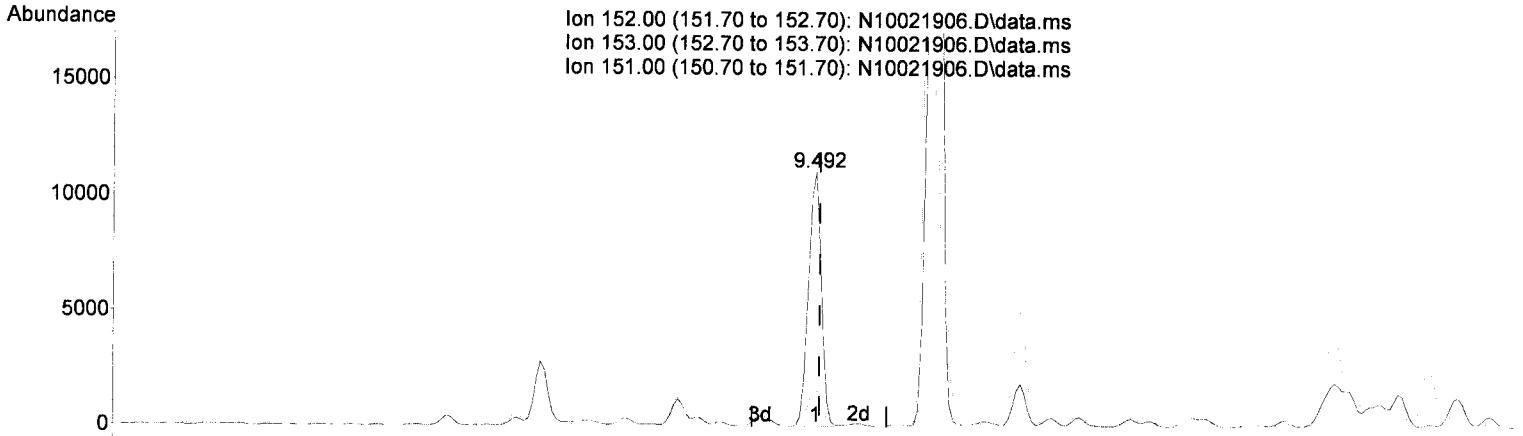
Ion	Exp%	Act%
142.00	100.00	100.00
141.00	86.60	82.59
115.00	35.70	34.43
0.00	0.00	0.00

J

Quantitation Report (Qedit)

Data Path : U:\data\2019-10\9J02028\
 Data File : N10021906.D
 Acq On : 02 Oct 2019 05:15 pm
 Operator : JK/ AMS/ DTH
 Sample : A9I0771-06RE3@10
 Misc : 10x, 8270D LL PAH ONLY
 ALS Vial : 6 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 03 09:03:26 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



TIC: N10021906.D\data.ms

(12) Acenaphthylene (T)

9.492min (-0.006) 4.91 ng/ml

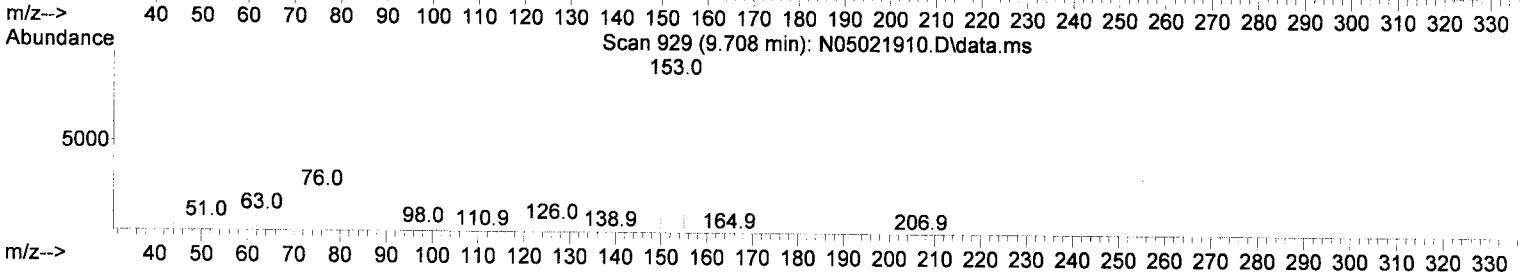
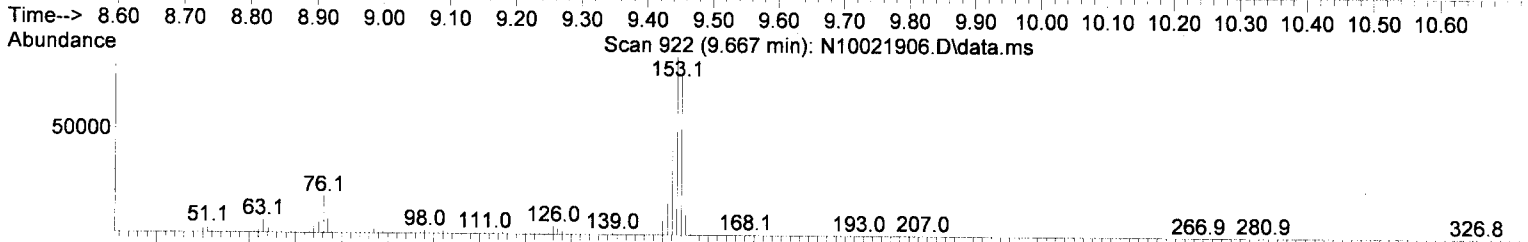
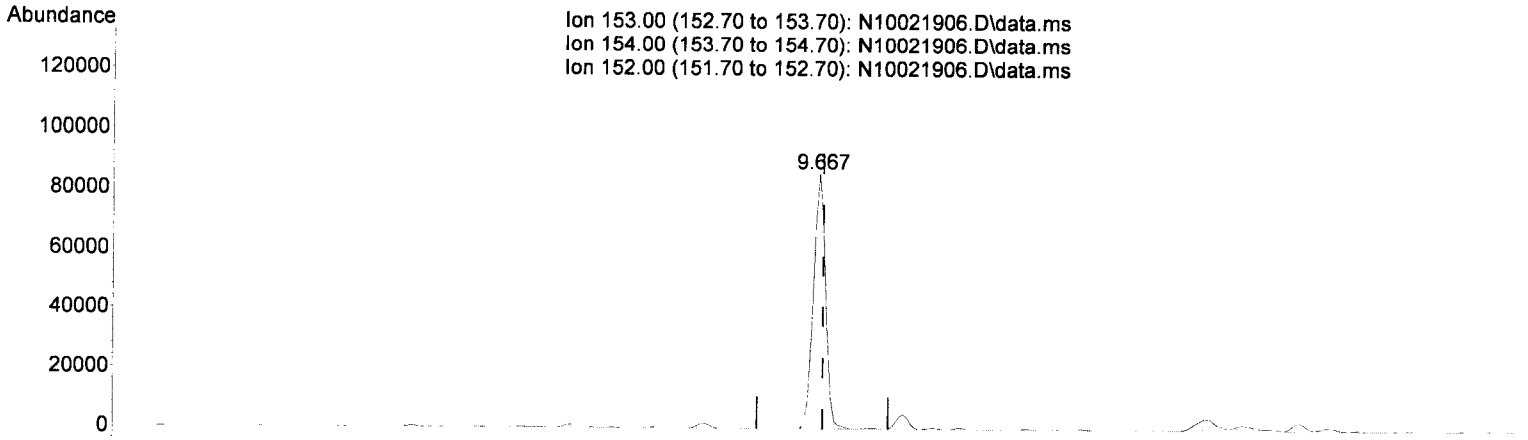
response	14674	
Ion	Exp%	Act%
152.00	100.00	100.00
153.00	12.70	16.11
151.00	19.30	21.10
0.00	0.00	0.00

J

Quantitation Report (Qedit)

Data Path : U:\data\2019-10\9J02028\
 Data File : N10021906.D
 Acq On : 02 Oct 2019 05:15 pm
 Operator : JK/ AMS/ DTH
 Sample : A9I0771-06RE3@10
 Misc : 10x, 8270D LL PAH ONLY
 ALS Vial : 6 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 03 09:03:26 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



TIC: N10021906.D\data.ms

(13) Acenaphthene (T)

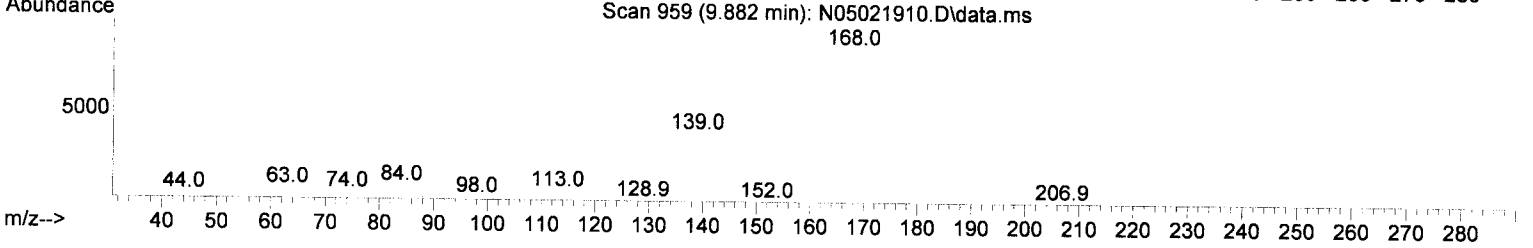
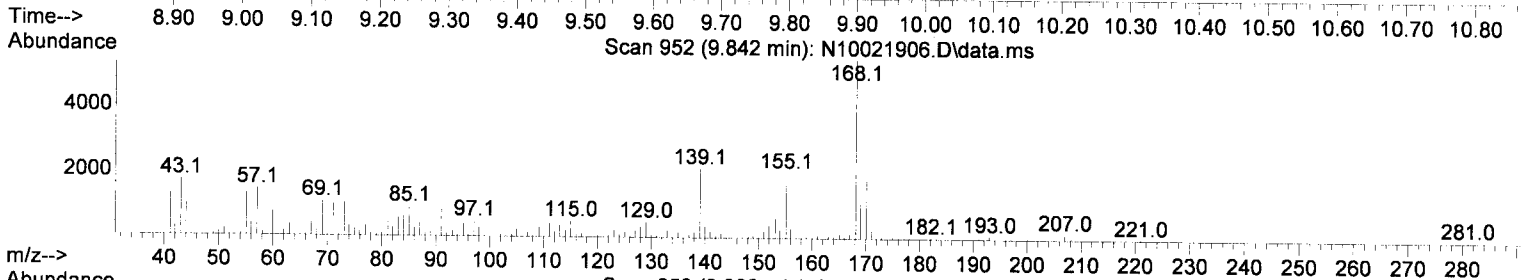
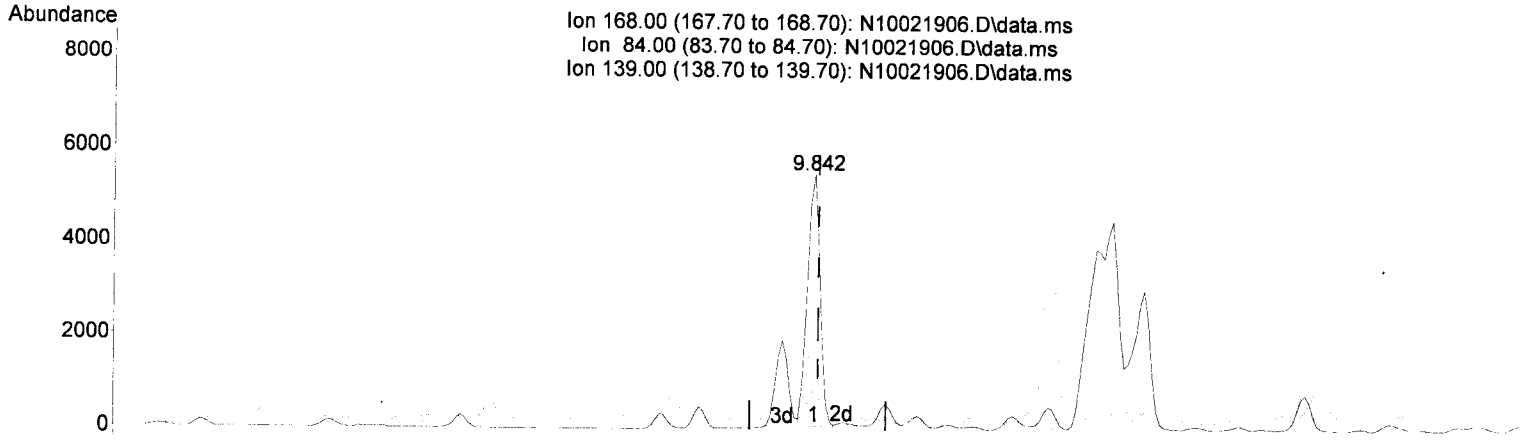
9.667min (-0.006) 57.13 ng/ml

response	111748	
Ion	Exp%	Act%
153.00	100.00	100.00
154.00	90.70	90.32
152.00	46.80	47.15
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-10\9J02028\
 Data File : N10021906.D
 Acq On : 02 Oct 2019 05:15 pm
 Operator : JK/ AMS/ DTH
 Sample : A9I0771-06RE3@10
 Misc : 10x, 8270D LL PAH ONLY
 ALS Vial : 6 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 03 09:03:26 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



TIC: N10021906.D\data.ms

(14) Dibenzofuran (T)

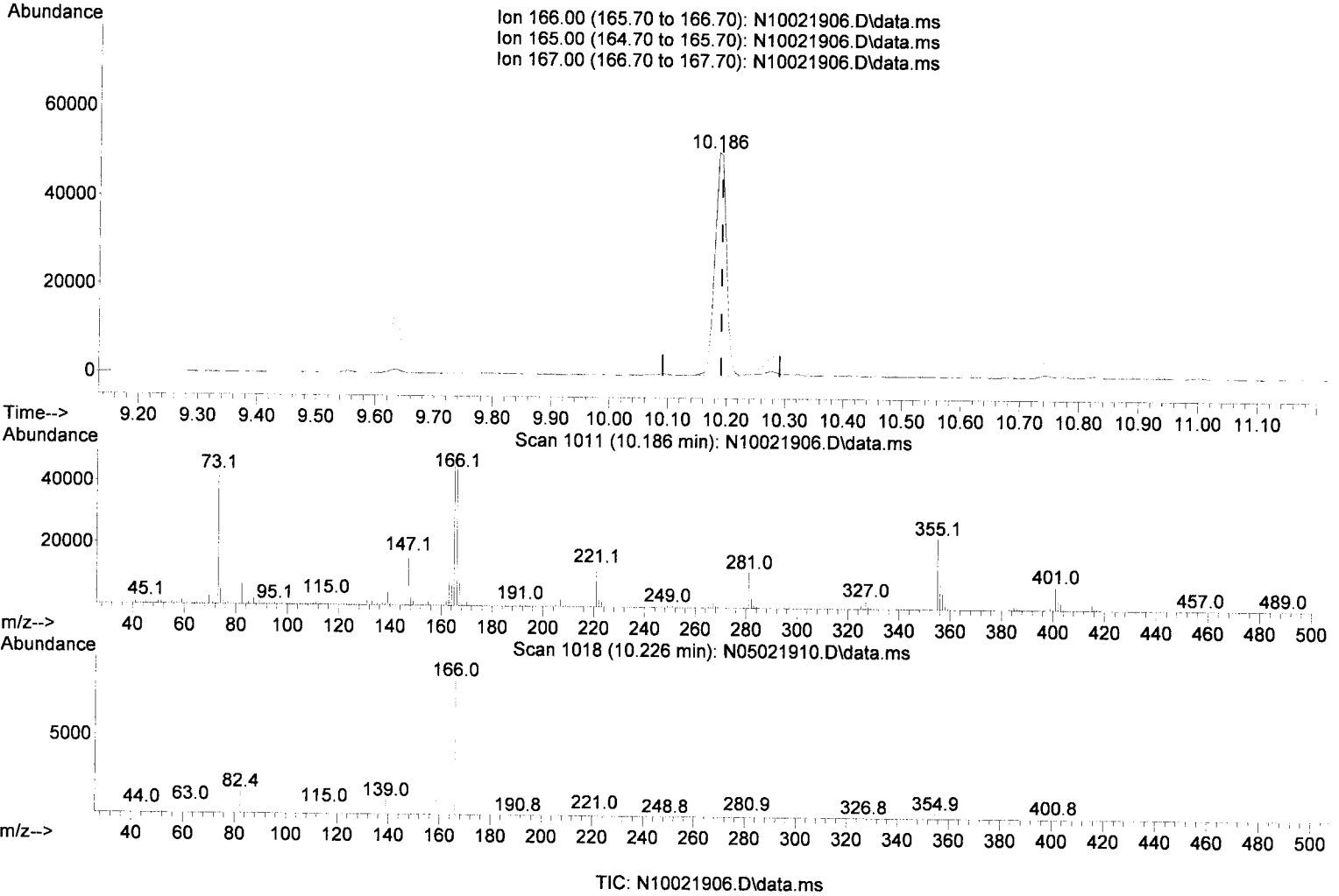
9.842min (-0.006) 2.84 ng/ml

response	6958	
Ion	Exp%	Act%
168.00	100.00	100.00
84.00	7.70	15.24
139.00	38.40	38.99
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-10\9J02028\
 Data File : N10021906.D
 Acq On : 02 Oct 2019 05:15 pm
 Operator : JK/ AMS/ DTH
 Sample : A9I0771-06RE3@10
 Misc : 10x, 8270D LL PAH ONLY
 ALS Vial : 6 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 03 09:03:26 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(16) Fluorene (T)

10.186min (-0.006) 34.54 ng/ml

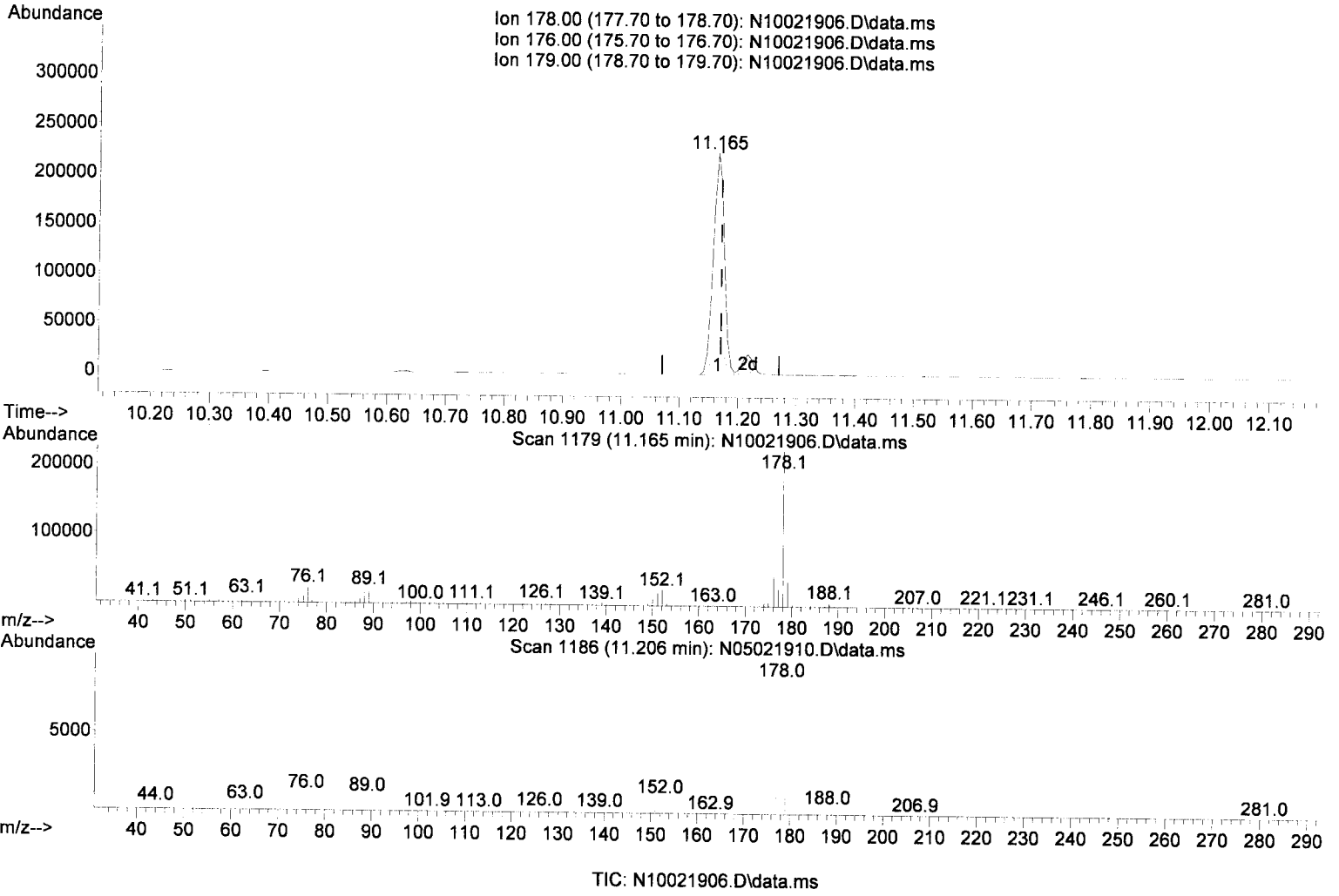
response 69141

Ion	Exp%	Act%
166.00	100.00	100.00
165.00	95.70	93.96
167.00	13.60	14.48
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-10\9J02028\
 Data File : N10021906.D
 Acq On : 02 Oct 2019 05:15 pm
 Operator : JK/ AMS/ DTH
 Sample : A9I0771-06RE3@10
 Misc : 10x, 8270D LL PAH ONLY
 ALS Vial : 6 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 03 09:03:26 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



TIC: N10021906.D\data.ms

(19) Phenanthrene (T)

11.165min (-0.006) 100.35 ng/ml

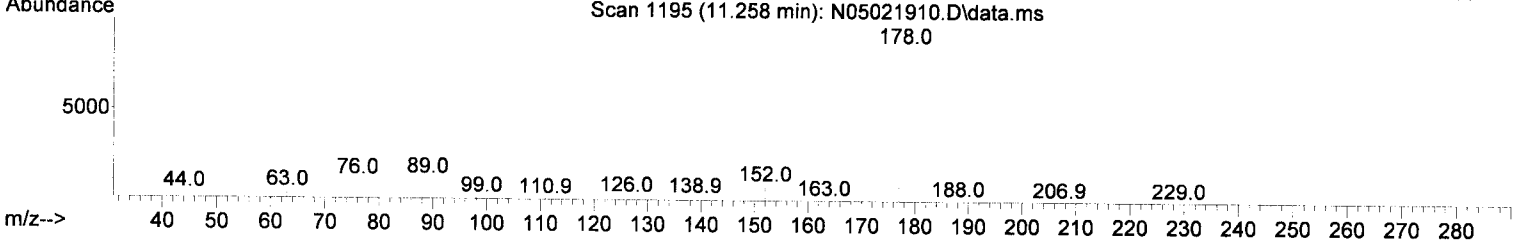
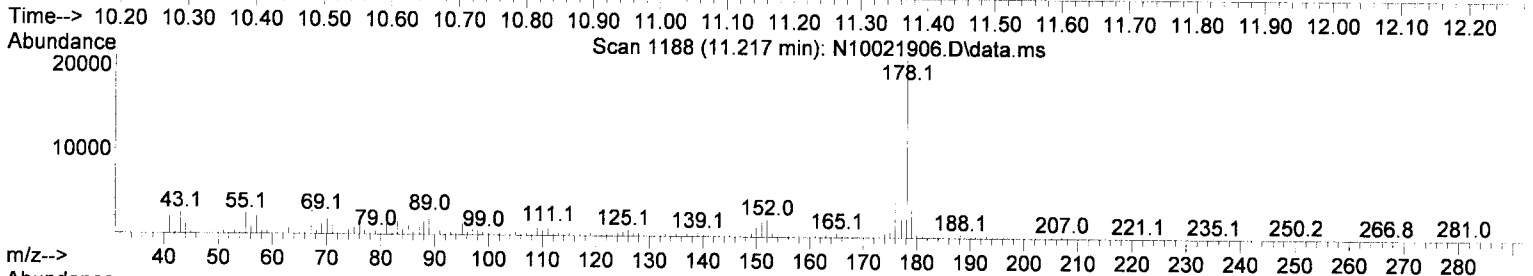
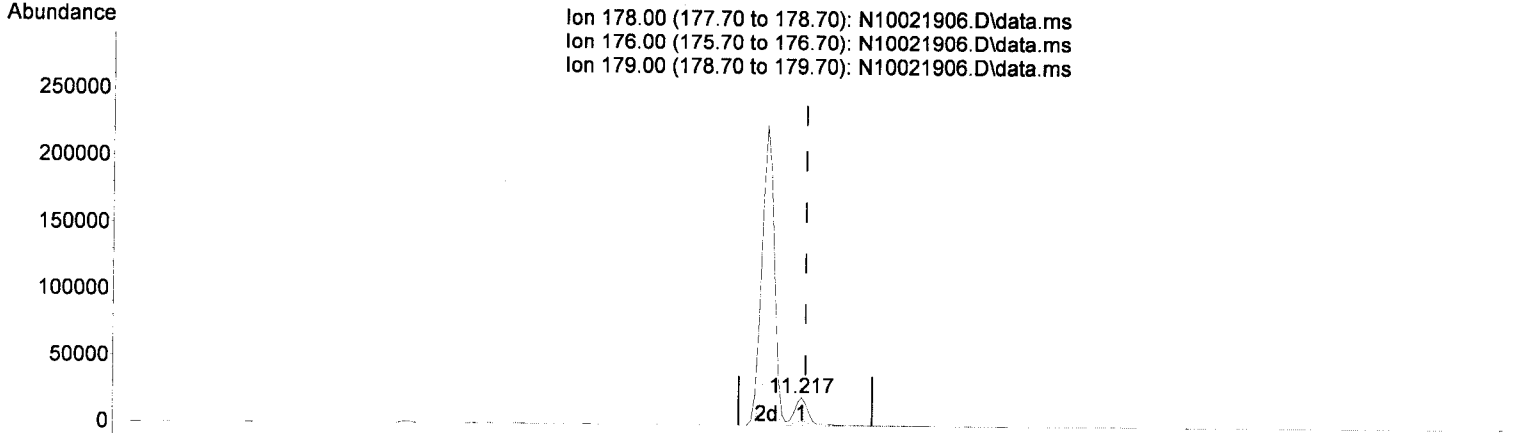
response 294003

Ion	Exp%	Act%
178.00	100.00	100.00
176.00	19.00	18.72
179.00	15.10	15.40
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-10\9J02028\
 Data File : N10021906.D
 Acq On : 02 Oct 2019 05:15 pm
 Operator : JK/ AMS/ DTH
 Sample : A9I0771-06RE3@10
 Misc : 10x, 8270D LL PAH ONLY
 ALS Vial : 6 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 03 09:03:26 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



TIC: N10021906.D\data.ms

(20) Anthracene (T)

11.217min (-0.006) 10.54 ng/ml

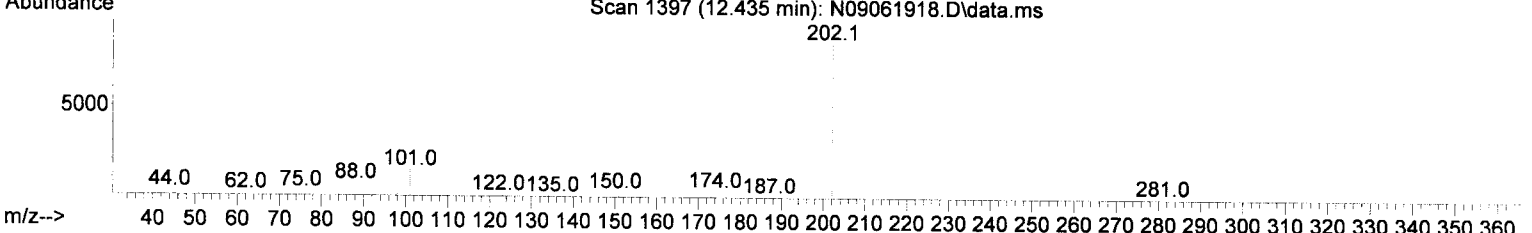
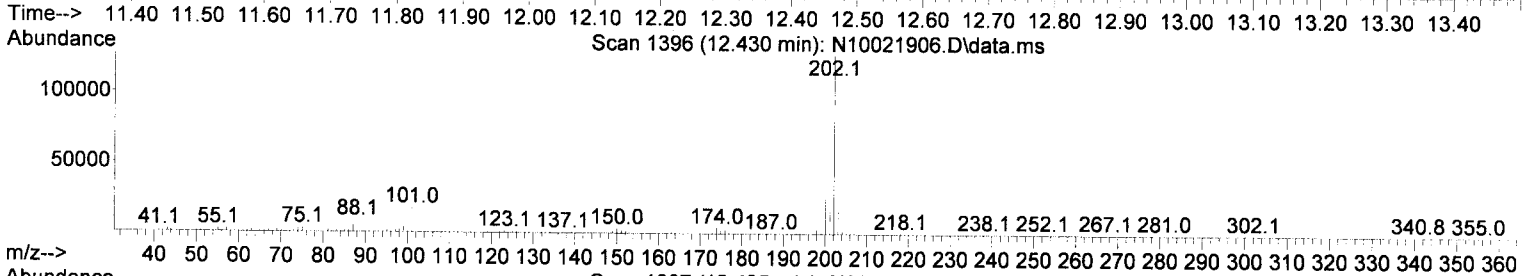
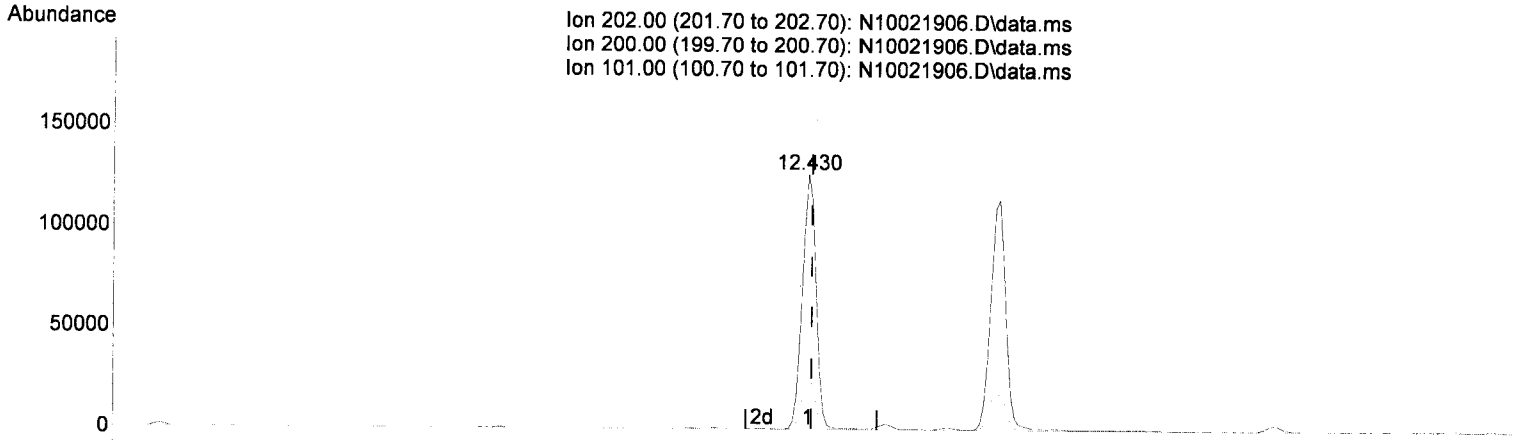
response 28715

Ion	Exp%	Act%
178.00	100.00	100.00
176.00	18.90	19.72
179.00	15.30	17.47
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-10\9J02028\
 Data File : N10021906.D
 Acq On : 02 Oct 2019 05:15 pm
 Operator : JK/ AMS/ DTH
 Sample : A9I0771-06RE3@10
 Misc : 10x, 8270D LL PAH ONLY
 ALS Vial : 6 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 03 09:03:26 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



TIC: N10021906.D\data.ms

(23) Fluoranthene (T)

12.430min (-0.005) 62.20 ng/ml

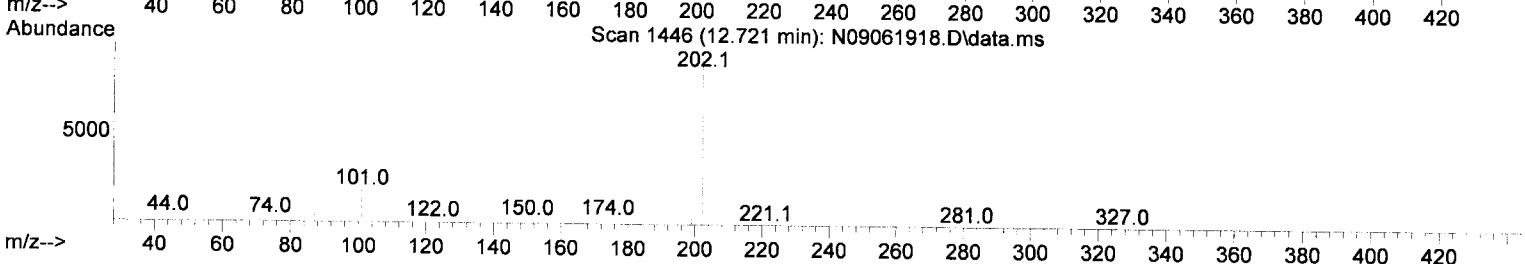
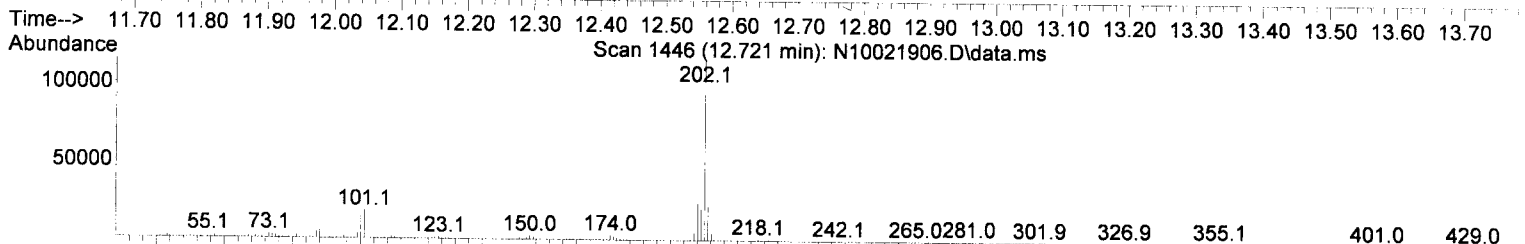
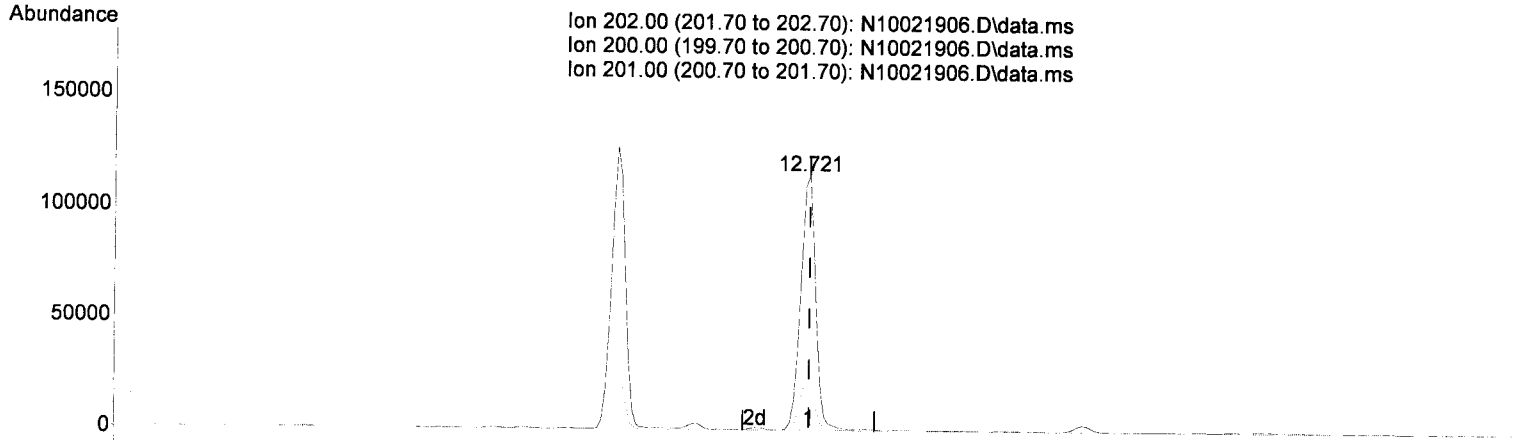
response 183608

Ion	Exp%	Act%
202.00	100.00	100.00
200.00	19.70	20.09
101.00	15.30	13.80
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-10\9J02028\
 Data File : N10021906.D
 Acq On : 02 Oct 2019 05:15 pm
 Operator : JK/ AMS/ DTH
 Sample : A9I0771-06RE3@10
 Misc : 10x, 8270D LL PAH ONLY
 ALS Vial : 6 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 03 09:03:26 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



TIC: N10021906.D\data.ms

(25) Pyrene (T)

12.721min (-0.000) 53.56 ng/ml

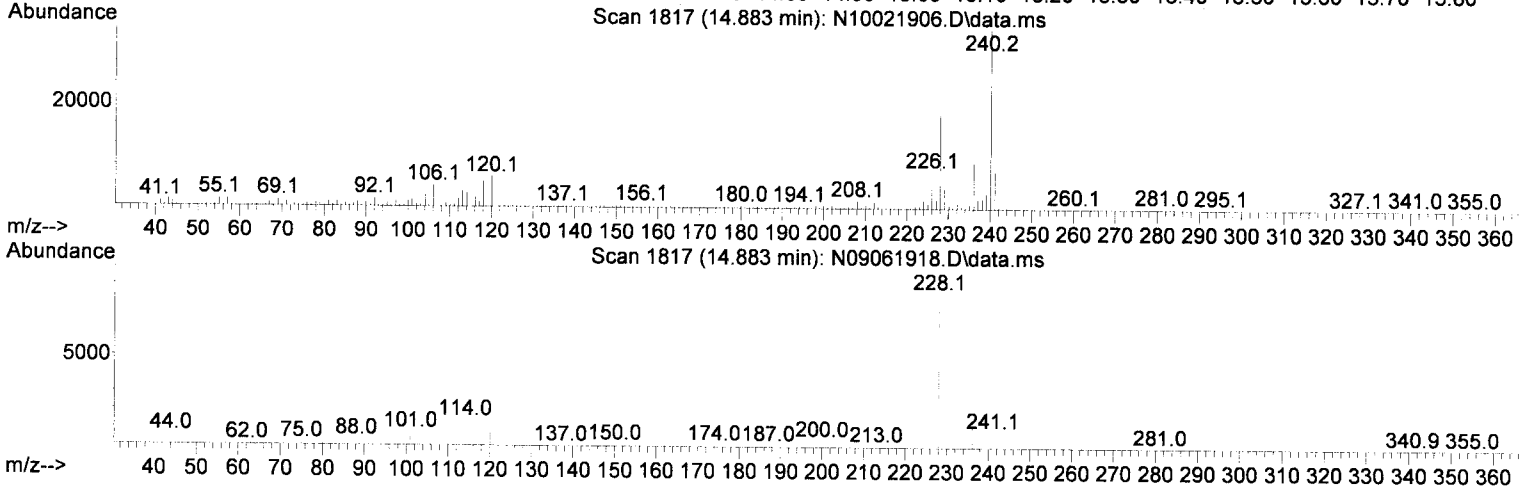
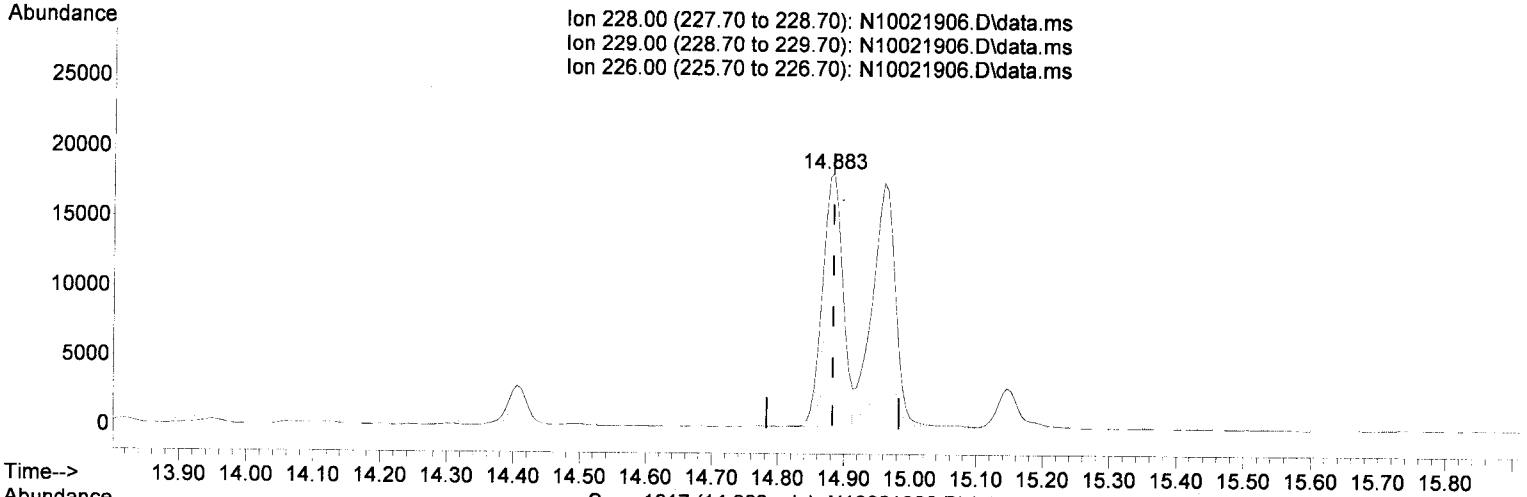
response 180795

Ion	Exp%	Act%
202.00	100.00	100.00
200.00	20.70	20.34
201.00	16.80	17.25
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-10\9J02028\
 Data File : N10021906.D
 Acq On : 02 Oct 2019 05:15 pm
 Operator : JK/ AMS/ DTH
 Sample : A9I0771-06RE3@10
 Misc : 10x, 8270D LL PAH ONLY
 ALS Vial : 6 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 03 09:03:26 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



TIC: N10021906.D\data.ms

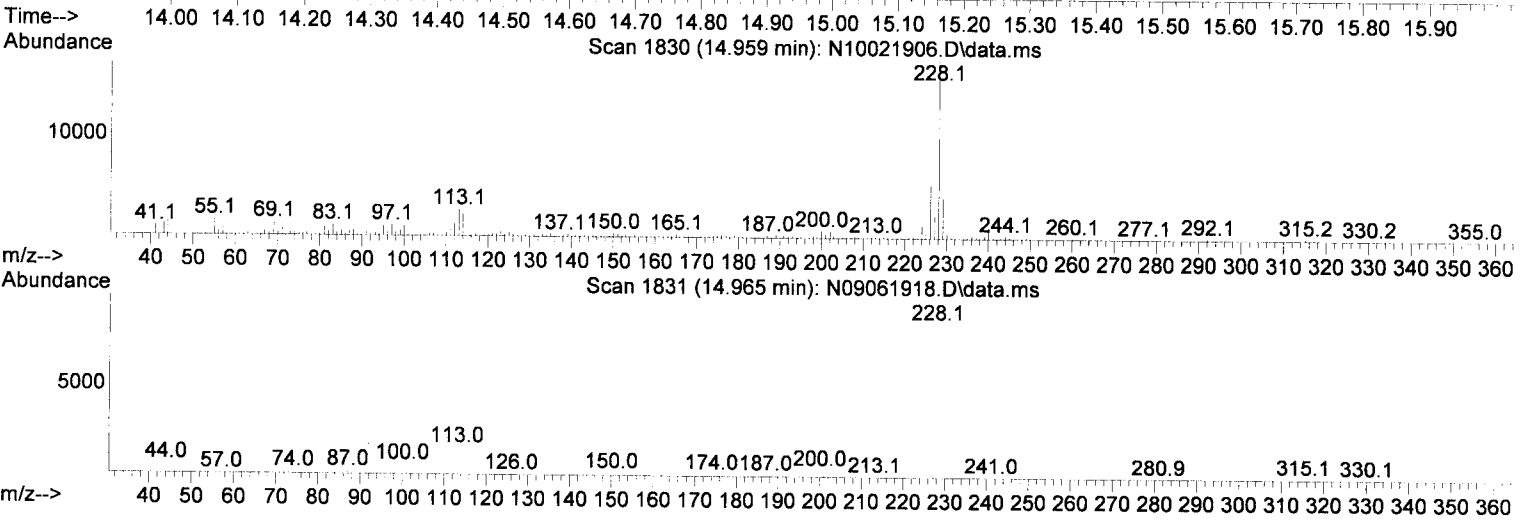
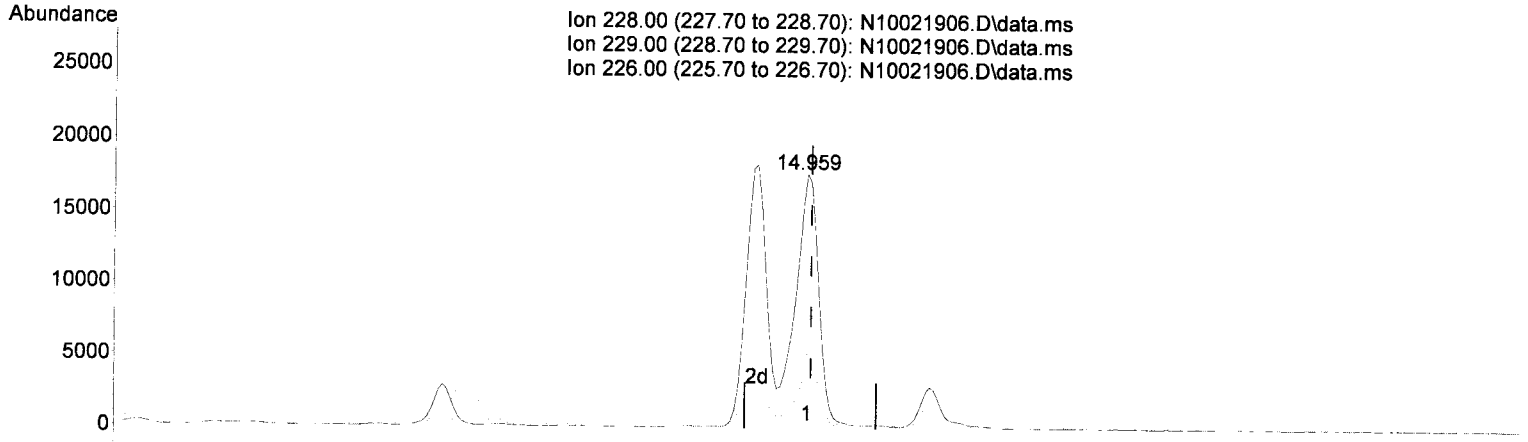
(27) Benz(a)anthracene (T)

14.883min (+ 0.000)	15.50 ng/ml
response	38882
Ion	Exp% Act%
228.00	100.00 100.00
229.00	19.40 21.14
226.00	26.20 38.50
0.00	0.00 0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-10\9J02028\
 Data File : N10021906.D
 Acq On : 02 Oct 2019 05:15 pm
 Operator : JK/ AMS/ DTH
 Sample : A9I0771-06RE3@10
 Misc : 10x, 8270D LL PAH ONLY
 ALS Vial : 6 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 03 09:03:26 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



TIC: N10021906.D\data.ms

(28) Chrysene (T)

14.959min (-0.006) 17.79 ng/ml

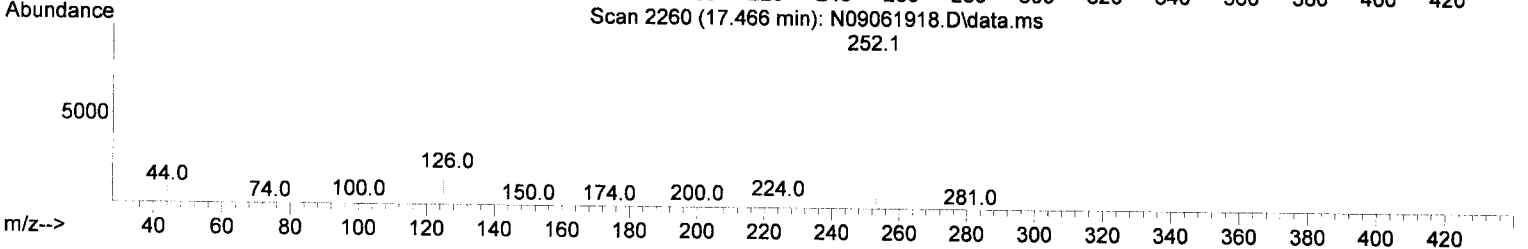
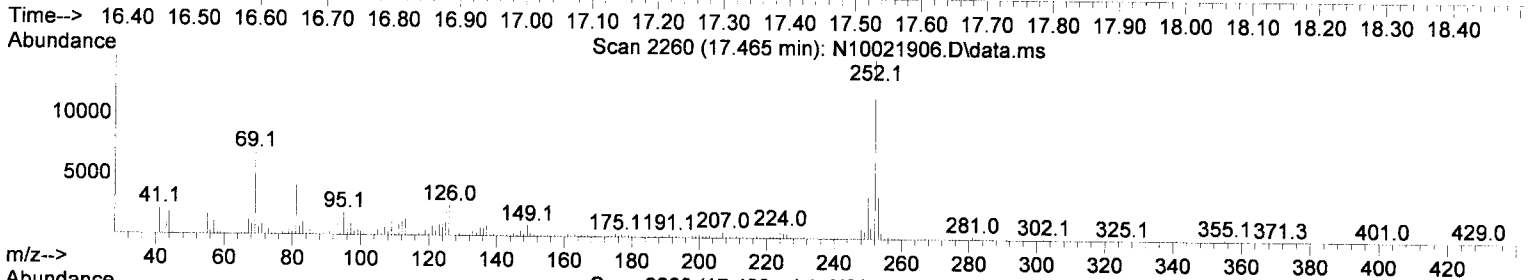
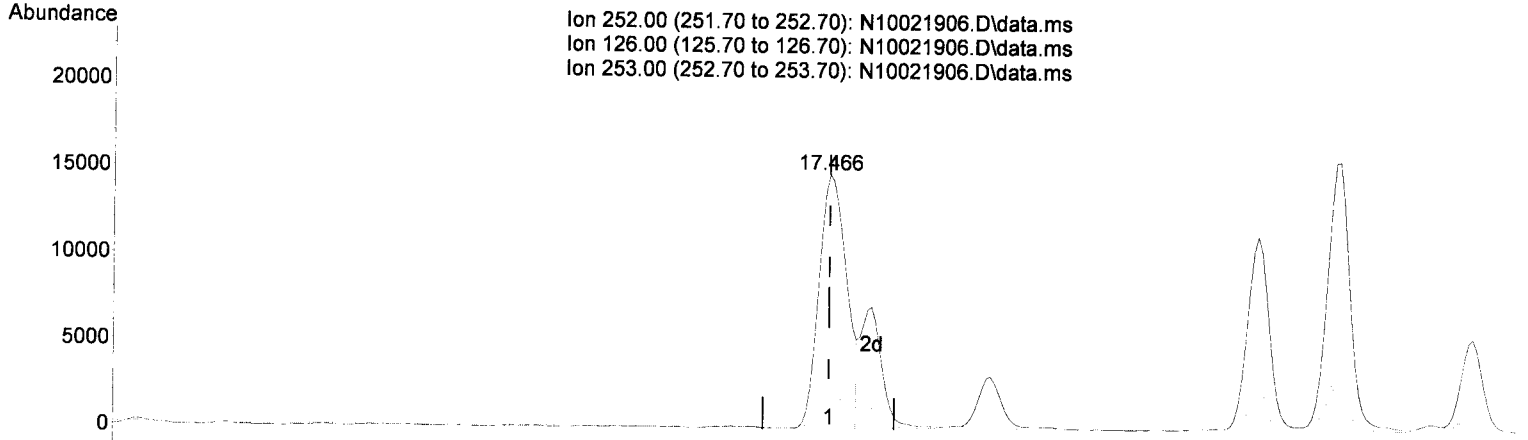
response 42230

Ion	Exp%	Act%
228.00	100.00	100.00
229.00	19.60	22.78
226.00	28.60	29.59
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-10\9J02028\
 Data File : N10021906.D
 Acq On : 02 Oct 2019 05:15 pm
 Operator : JK/ AMS/ DTH
 Sample : A9I0771-06RE3@10
 Misc : 10x, 8270D LL PAH ONLY
 ALS Vial : 6 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 03 09:03:26 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



TIC: N10021906.D\data.ms

(30) Benzo (b) fluoranthene (T)

17.465min (+ 0.000) 18.03 ng/ml

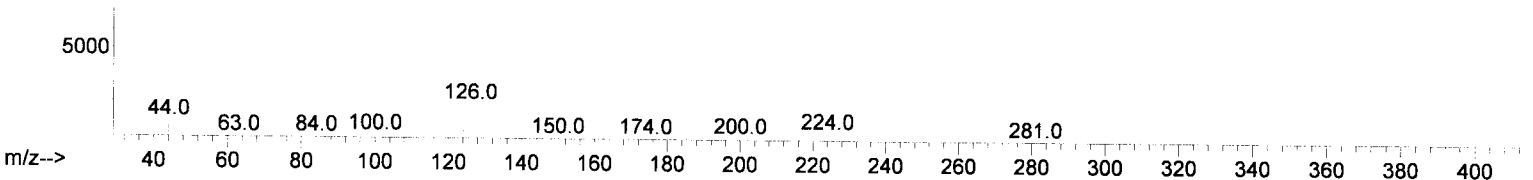
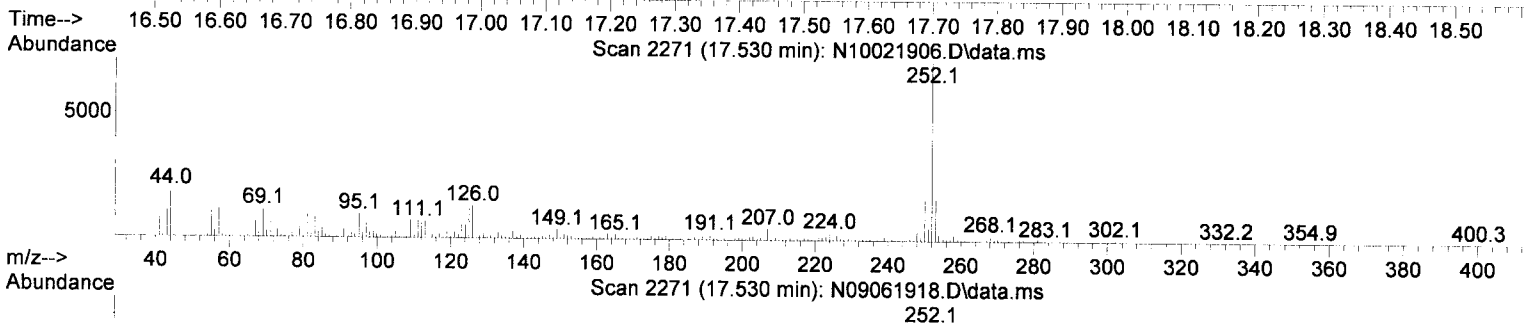
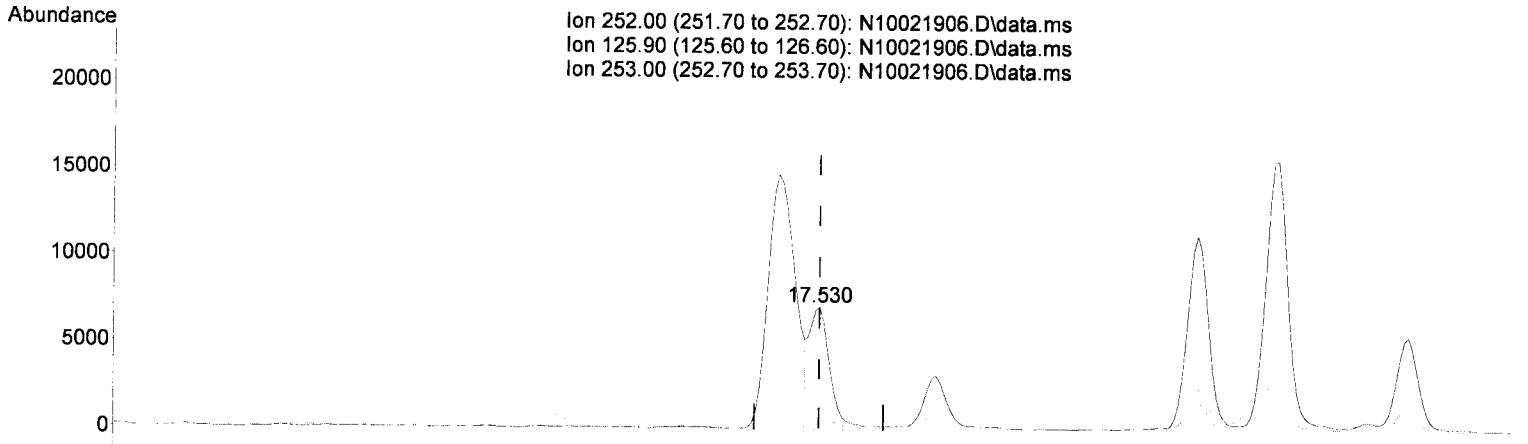
response 43074

Ion	Exp%	Act%
252.00	100.00	100.00
126.00	20.00	16.85
253.00	21.10	23.65
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-10\9J02028\
 Data File : N10021906.D
 Acq On : 02 Oct 2019 05:15 pm
 Operator : JK/ AMS/ DTH
 Sample : A9I0771-06RE3@10
 Misc : 10x, 8270D LL PAH ONLY
 ALS Vial : 6 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 03 09:03:26 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



TIC: N10021906.D\data.ms

(31) Benzo(k)fluoranthene (T)

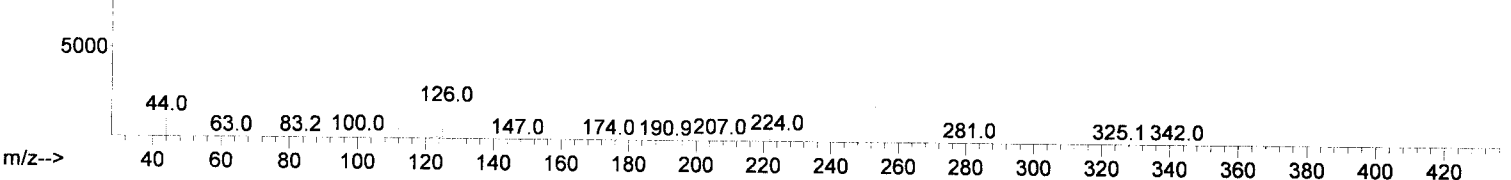
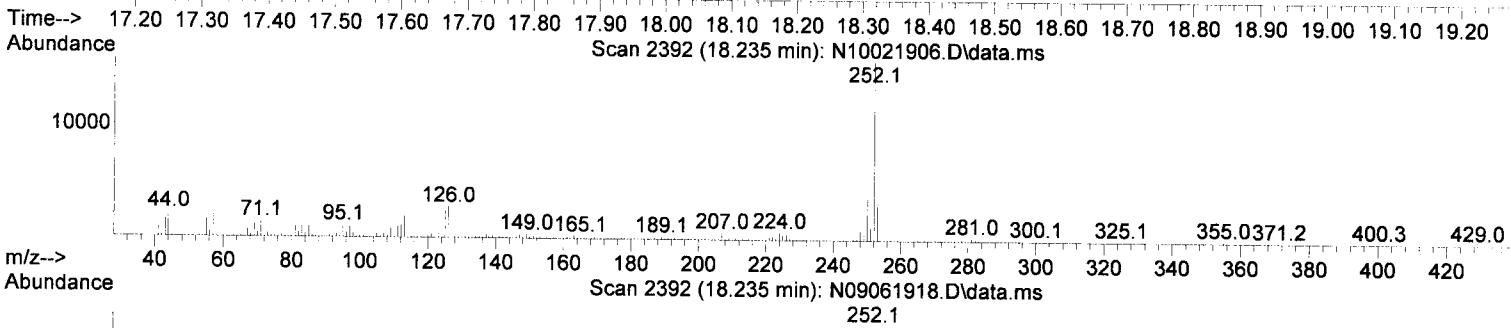
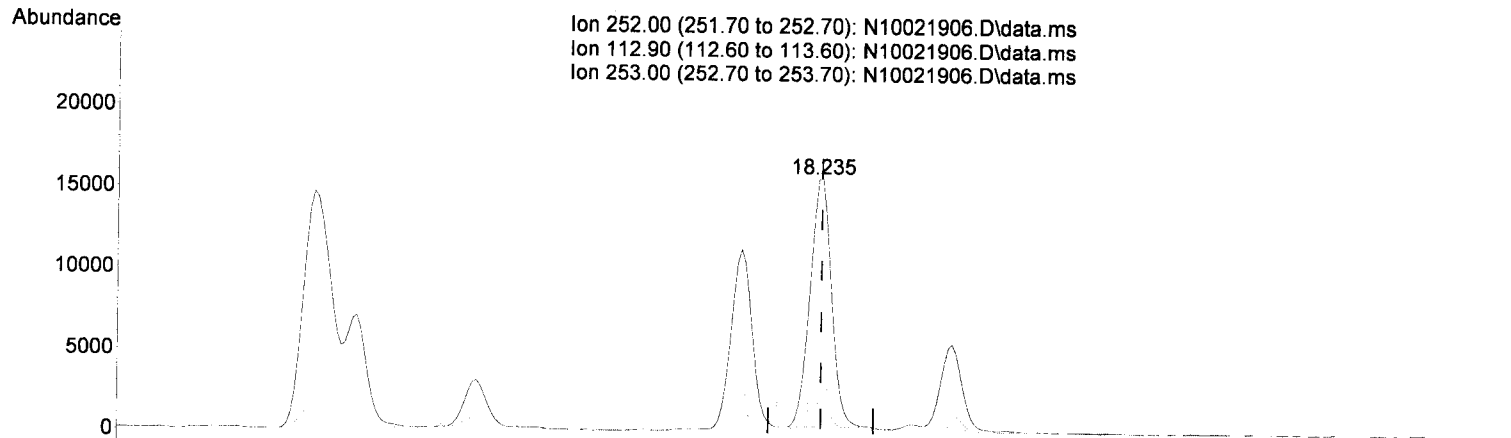
17.530min (+ 0.001)	6.94 ng/ml m
response	16329
Ion	Exp% Act%
252.00	100.00 100.00
125.90	22.10 18.47
253.00	21.50 23.01
0.00	0.00 0.00

AMS
10/3/19
MOS

Quantitation Report (Qedit)

Data Path : U:\data\2019-10\9J02028\
 Data File : N10021906.D
 Acq On : 02 Oct 2019 05:15 pm
 Operator : JK/ AMS/ DTH
 Sample : A9I0771-06RE3@10
 Misc : 10x, 8270D LL PAH ONLY
 ALS Vial : 6 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 03 09:03:26 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



TIC: N10021906.D\data.ms

(35) Benzo (a) pyrene (T)

18.235min (+ 0.001) 17.10 ng/ml

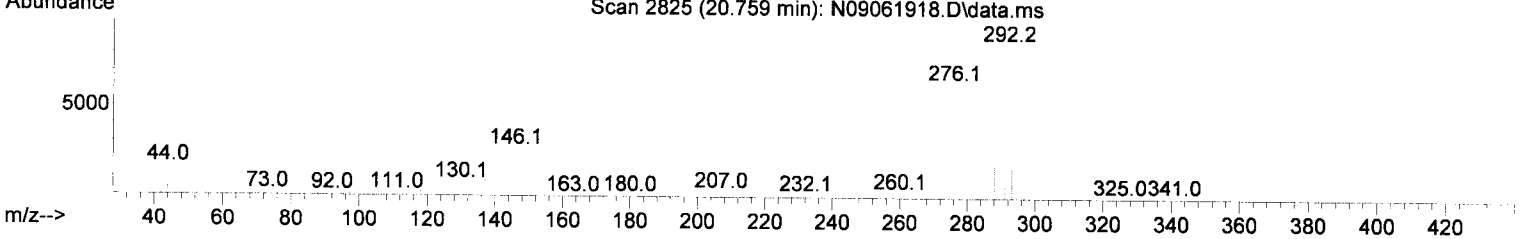
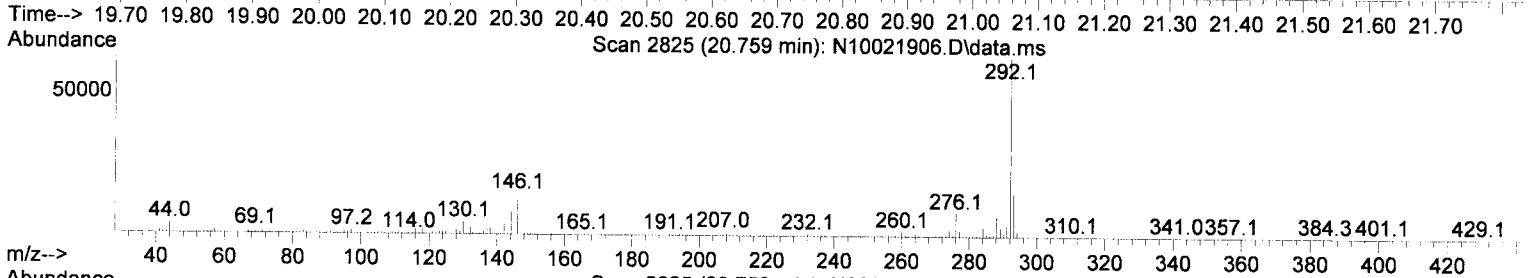
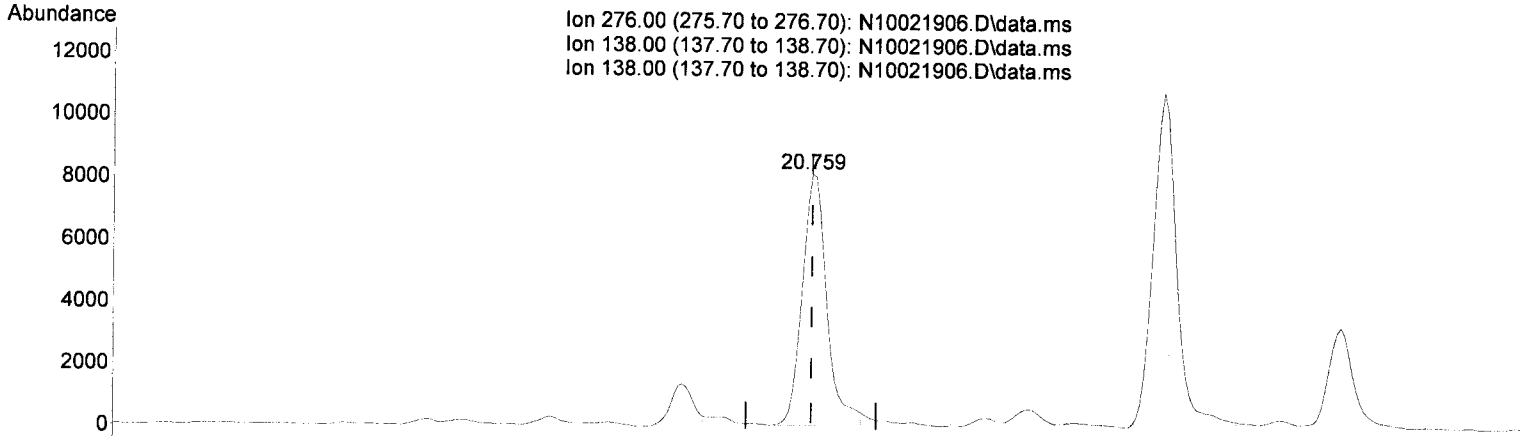
response 34965

Ion	Exp%	Act%
252.00	100.00	100.00
112.90	12.70	11.85
253.00	21.90	22.30
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-10\9J02028\
 Data File : N10021906.D
 Acq On : 02 Oct 2019 05:15 pm
 Operator : JK/ AMS/ DTH
 Sample : A9I0771-06RE3@10
 Misc : 10x, 8270D LL PAH ONLY
 ALS Vial : 6 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 03 09:03:26 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



TIC: N10021906.D\data.ms

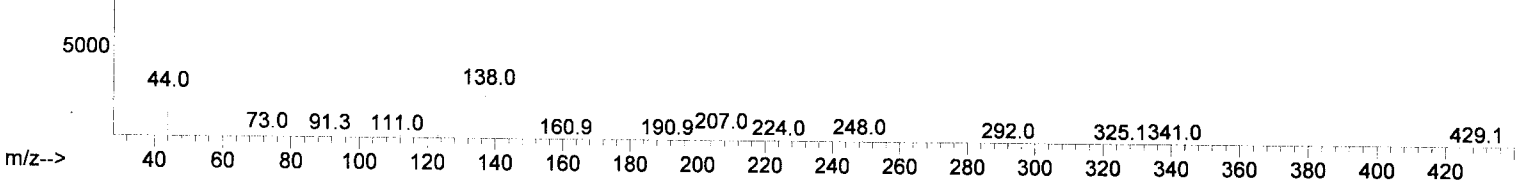
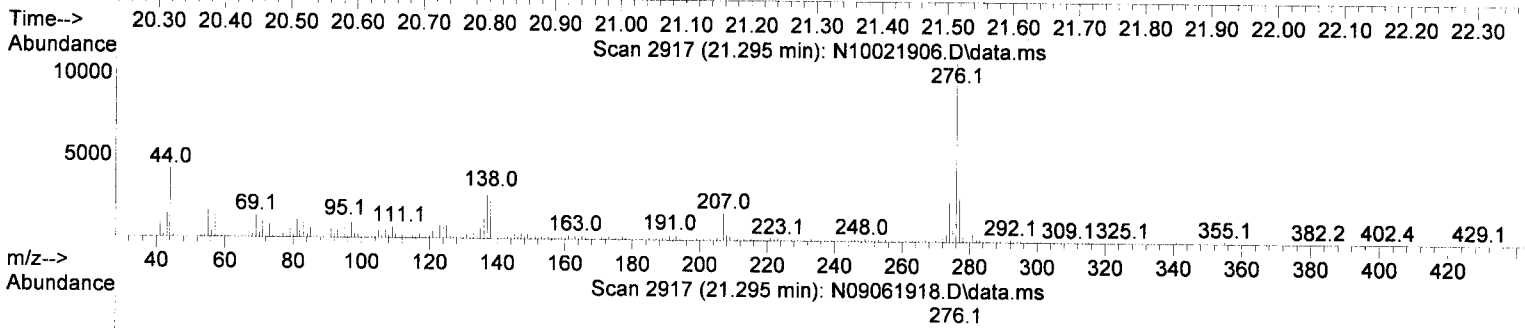
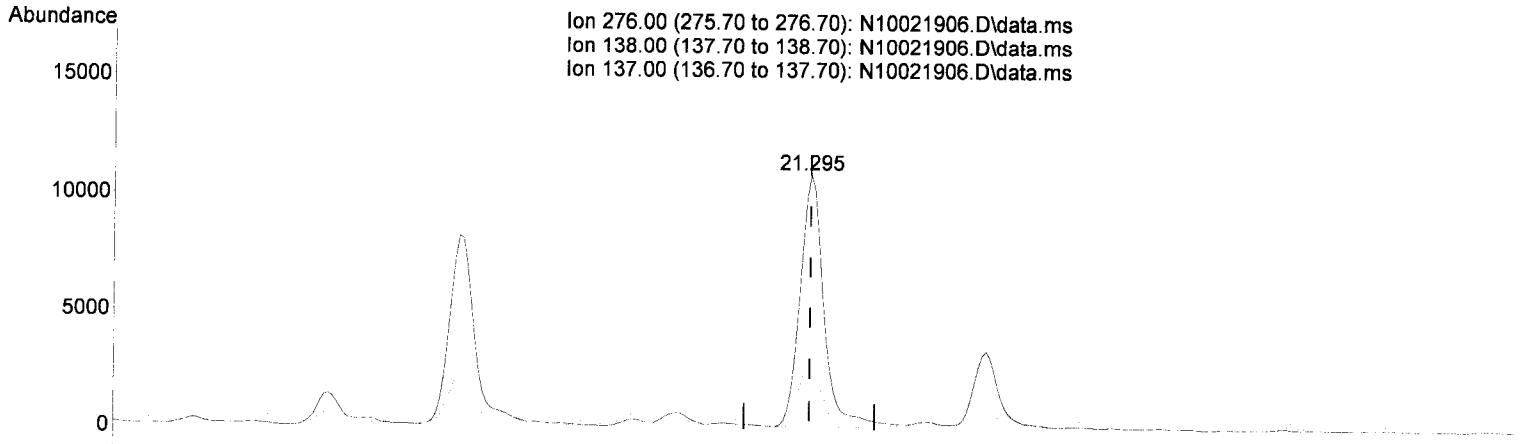
(38) Indeno (1,2,3-cd) Pyrene (T)

20.759min (+ 0.001)	11.12 ng/ml
response	21309
Ion	Exp% Act%
276.00	100.00 100.00
138.00	31.60 27.50
138.00	31.60 27.50
0.00	0.00 0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-10\9J02028\
 Data File : N10021906.D
 Acq On : 02 Oct 2019 05:15 pm
 Operator : JK/ AMS/ DTH
 Sample : A9I0771-06RE3@10
 Misc : 10x, 8270D LL PAH ONLY
 ALS Vial : 6 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 03 09:03:26 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



TIC: N10021906.D\data.ms

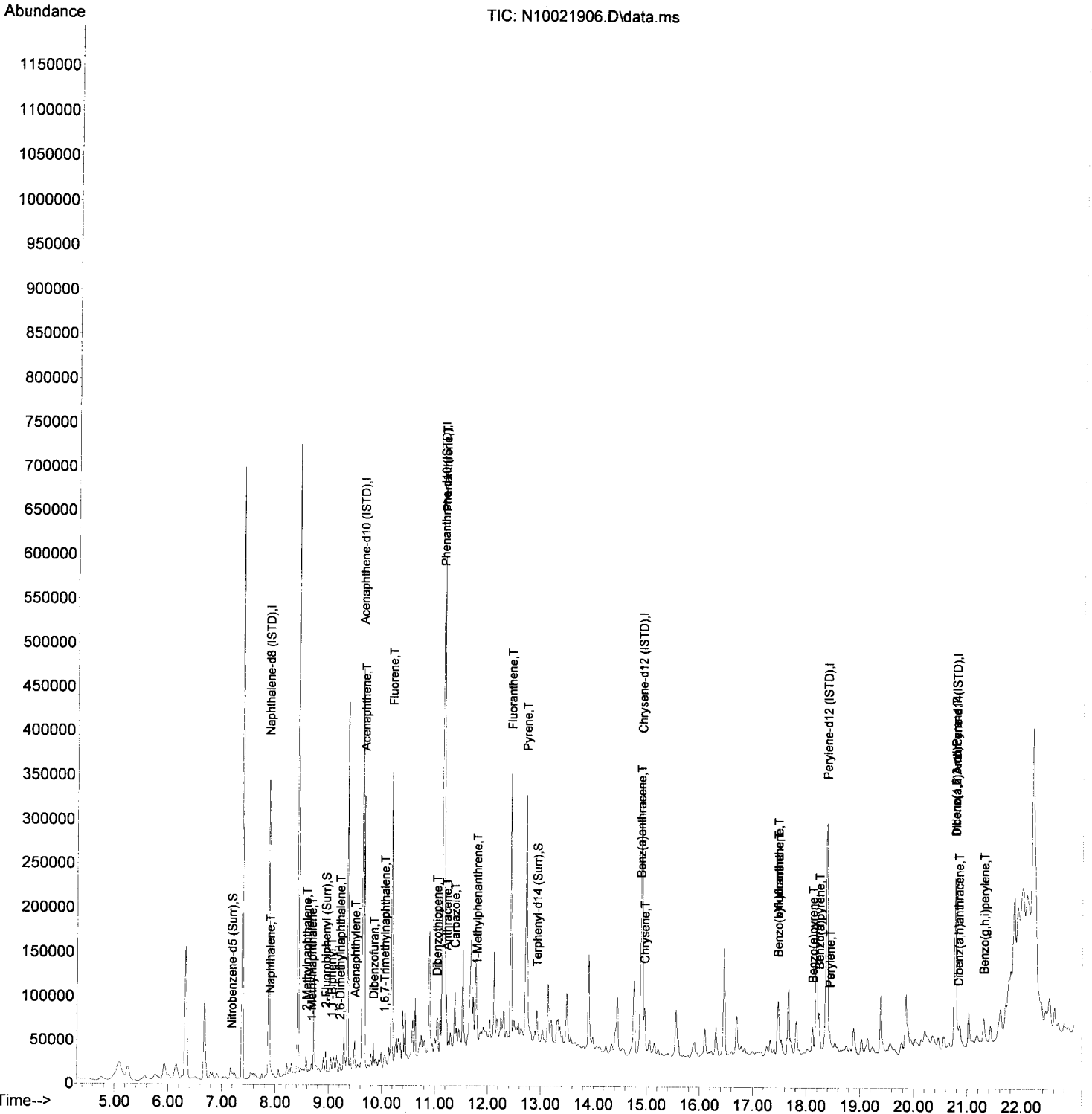
(40) Benzo(g,h,i)perylene (T)

21.295min (+ 0.001) 13.09 ng/ml

response	Exp%	Act%
276.00	100.00	100.00
138.00	34.40	26.84
137.00	28.60	24.31
0.00	0.00	0.00

Data Path : U:\data\2019-10\9J02028\
 Data File : N10021906.D
 Acq On : 02 Oct 2019 05:15 pm
 Operator : JK/ AMS/ DTH
 Sample : A9I0771-06RE3@10
 Misc : 10x, 8270D LL PAH ONLY
 ALS Vial : 6 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 03 09:03:26 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



Data Path : U:\data\2019-10\9J02028\
 Data File : N10021907.D
 Acq On : 02 Oct 2019 05:47 pm
 Operator : JK/ AMS/ DTH
 Sample : 9100550-MS1@10
 Misc : 10x, 8270D LL PAH ONLY
 ALS Vial : 7 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

AMS
10/3/19

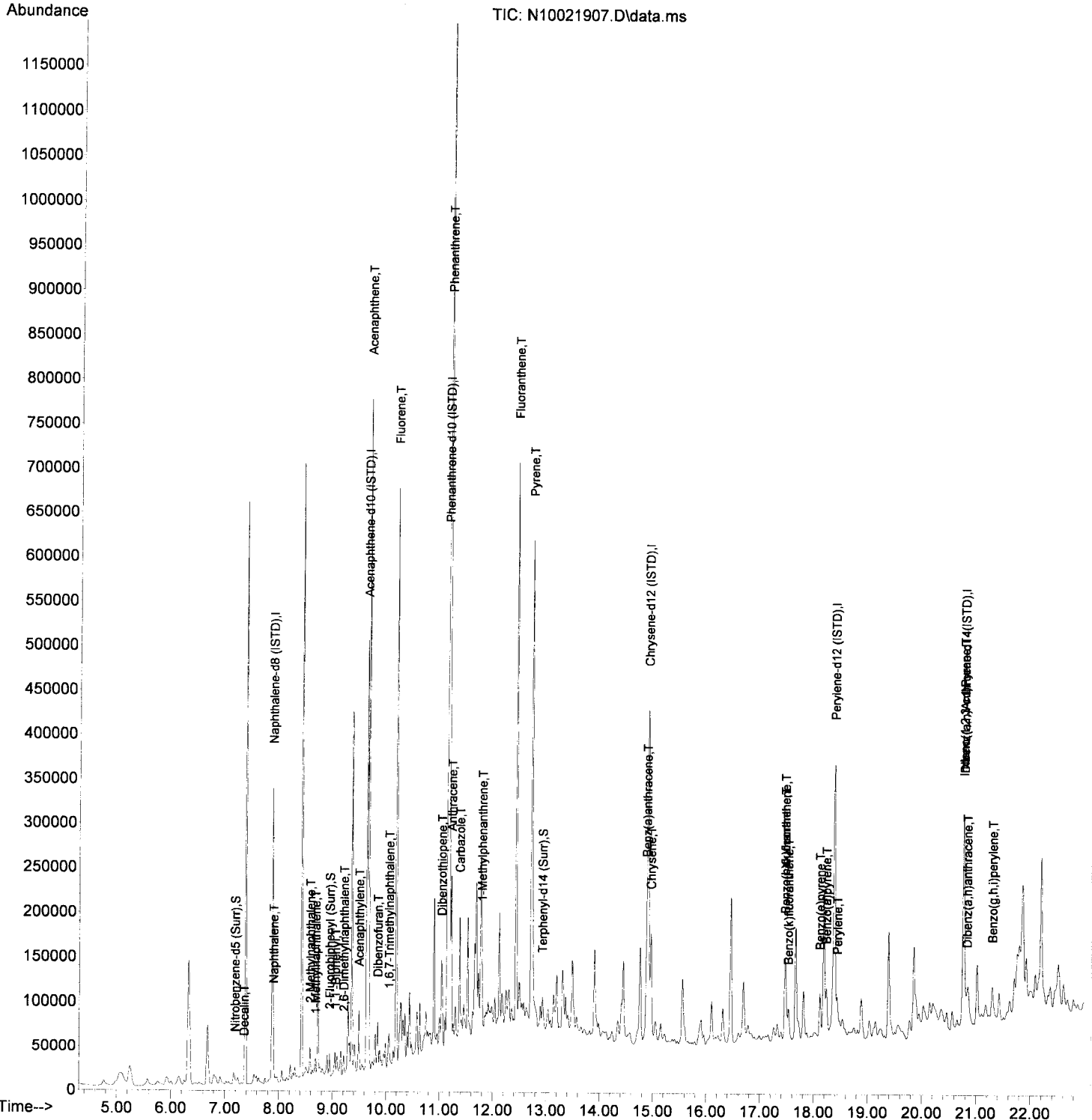
Quant Time: Oct 03 09:03:29 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Naphthalene-d8 (ISTD)	7.877	136	218414	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.632	162	146454	100.00	ng/ml	0.00	
17) Phenanthrene-d10 (ISTD)	11.141	188	269878	100.00	ng/ml	0.00	
24) Chrysene-d12 (ISTD)	14.901	240	246329	100.00	ng/ml	0.00	
29) Perylene-d12 (ISTD)	18.375	264	236643	100.00	ng/ml	0.00	
37) Dibenz(a,h)Anthracene-d...	20.764	292	187376	100.00	ng/ml	0.00	
System Monitoring Compounds							
2) Nitrobenzene-d5 (Surr)	7.184	82	4099	5.65	ng/ml	0.00	
10) 2-Fluorobiphenyl (Surr)	8.944	172	10775	4.93	ng/ml	0.00	
11) Acenaphthylene d-8 (Surr)	9.474	160	2976	-1.00	ng/ml	0.00	
26) Terphenyl-d14 (Surr)	12.925	244	14267	5.51	ng/ml	0.00	
33) Benzo(a)pyrene d-12 (S...	18.177	264	162	0.09	ng/ml	0.00	
Target Compounds							
							Qvalue
3) Decalin	7.353	138	412	2.53	ng/ml#		78
4) Naphthalene	7.901	128	29025	12.05	ng/ml		98
5) 2-Methylnaphthalene	8.583	142	11938	5.85	ng/ml		99
6) 1-Methylnaphthalene	8.682	142	6571	3.22	ng/ml		99
7) 1,1'-Biphenyl	9.049	154	8078	2.94	ng/ml		99
8) 2,6-Dimethylnaphthalene	9.206	156	7472	3.73	ng/ml		98
12) Acenaphthylene	9.492	152	29754	9.36	ng/ml		95
13) Acenaphthene	9.667	153	271474	130.36	ng/ml		100
14) Dibenzofuran	9.842	168	19560	7.50	ng/ml		98
15) 1,6,7-Trimethylnaphtha...	10.051	170	12141	6.95	ng/ml		91
16) Fluorene	10.185	166	185540	87.07	ng/ml		98
18) Dibenzothiopene	11.036	184	50713	17.97	ng/ml		98
19) Phenanthrene	11.165	178	717085	227.07	ng/ml		100
20) Anthracene	11.217	178	98014	33.37	ng/ml		98
21) Carbazole	11.375	167	16260	6.84	ng/ml		94
22) 1-Methylphenanthrene	11.788	192	49728	22.67	ng/ml		94
23) Fluoranthene	12.430	202	385594	121.19	ng/ml		98
25) Pyrene	12.721	202	349623	90.85	ng/ml		100
27) Benz(a)anthracene	14.878	228	75274	26.32	ng/ml		89
28) Chrysene	14.959	228	95371	35.24	ng/ml		98
30) Benzo(b)fluoranthene	17.465	252	70112	25.68	ng/ml		94
31) Benzo(k)fluoranthene	17.524	252	29182	10.85	ng/ml		95
32) Benzo(b+k)fluoranthene	17.465	252	104987	37.59	ng/ml		92
34) Benzo(e)pyrene	18.112	252	40160	14.55	ng/ml		100
35) Benzo(a)pyrene	18.229	252	44896	19.21	ng/ml		99
36) Perylene	18.433	252	23120	8.03	ng/ml		96
38) Indeno(1,2,3-cd)Pyrene	20.759	276	29660	12.83	ng/ml		90
39) Dibenz(a,h)anthracene	20.829	278	10025	4.62	ng/ml		98
40) Benzo(g,h,i)perylene	21.295	276	34123	13.92	ng/ml		92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : U:\data\2019-10\9J02028\
 Data File : N10021907.D
 Acq On : 02 Oct 2019 05:47 pm
 Operator : JK/ AMS/ DTH
 Sample : 9100550-MS1@10
 Misc : 10x, 8270D LL PAH ONLY
 ALS Vial : 7 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 03 09:03:29 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



Data Path : U:\data\2019-10\9J02028\
 Data File : N10021908.D
 Acq On : 02 Oct 2019 06:19 pm
 Operator : JK/ AMS/ DTH
 Sample : 9100550-MSD1@10
 Misc : 10x, 8270D LL PAH ONLY
 ALS Vial : 8 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

AMS
 10/3/19

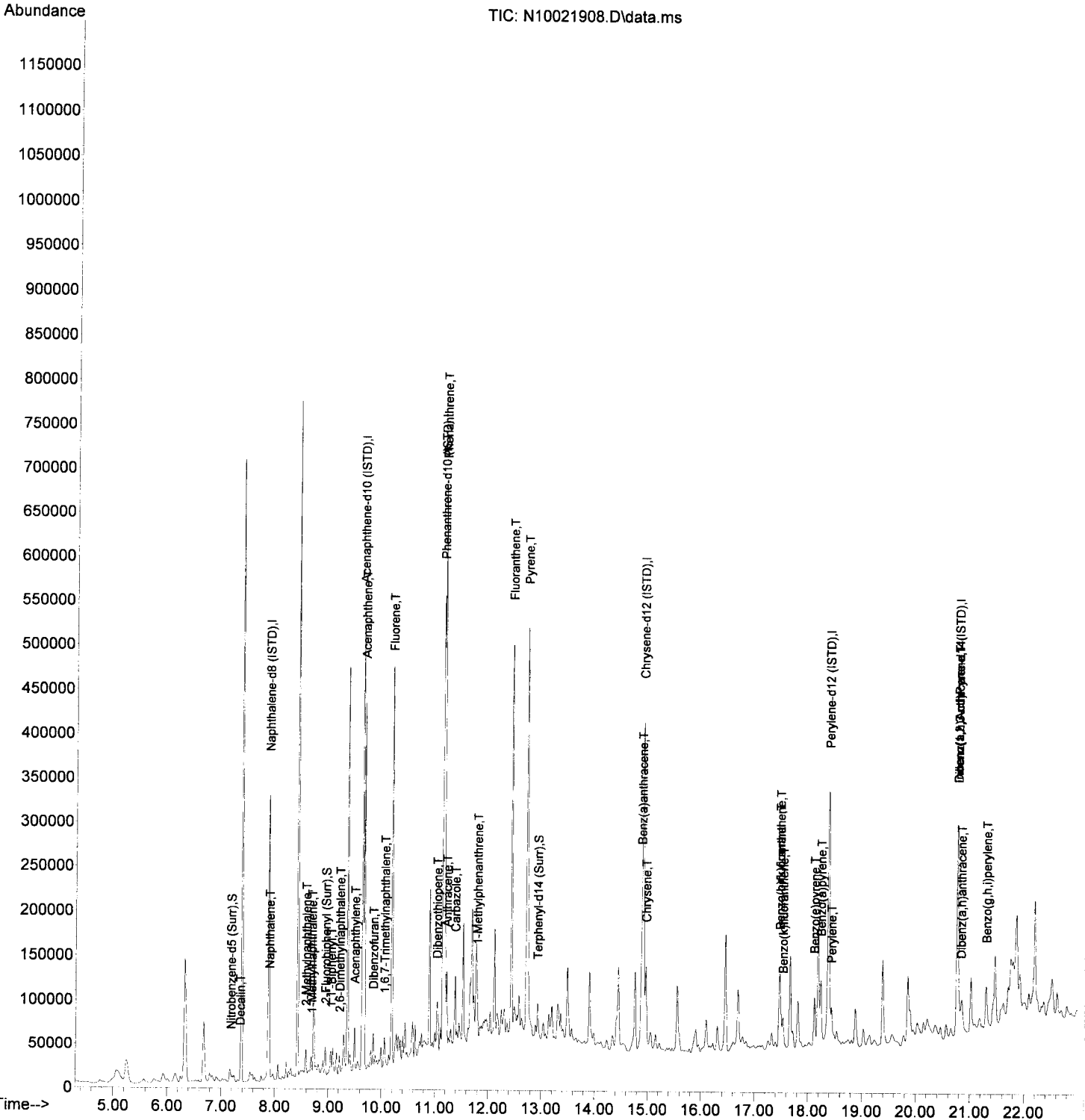
Quant Time: Oct 03 09:03:32 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	Qvalue
Internal Standards							
1) Naphthalene-d8 (ISTD)	7.883	136	219964	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.638	162	144208	100.00	ng/ml	0.00	
17) Phenanthrene-d10 (ISTD)	11.142	188	265634	100.00	ng/ml	0.00	
24) Chrysene-d12 (ISTD)	14.907	240	241761	100.00	ng/ml	0.00	
29) Perylene-d12 (ISTD)	18.381	264	227730	100.00	ng/ml	0.00	
37) Dibenz(a,h)Anthracene-d...	20.765	292	177364	100.00	ng/ml	0.00	
System Monitoring Compounds							
2) Nitrobenzene-d5 (Surr)	7.184	82	4323	5.91	ng/ml	0.00	
10) 2-Fluorobiphenyl (Surr)	8.950	172	13209	6.14	ng/ml	0.00	
11) Acenaphthylene d-8 (Surr)	9.480	160	3069	-1.00	ng/ml	0.00	
26) Terphenyl-d14 (Surr)	12.931	244	18535	7.29	ng/ml	0.00	
33) Benzo(a)pyrene d-12 (S...	18.171	264	143	0.08	ng/ml	0.00	
Target Compounds							
3) Decalin	7.359	138	416	2.54	ng/ml	84	
4) Naphthalene	7.901	128	26698	11.00	ng/ml	100	
5) 2-Methylnaphthalene	8.583	142	10601	5.16	ng/ml	98	
6) 1-Methylnaphthalene	8.688	142	7167	3.49	ng/ml	98	J
7) 1,1'-Biphenyl	9.049	154	8210	2.97	ng/ml	99	
8) 2,6-Dimethylnaphthalene	9.212	156	6997	3.47	ng/ml	99	
12) Acenaphthylene	9.492	152	23659	7.56	ng/ml	97	
13) Acenaphthene	9.667	153	154539	75.36	ng/ml	99	
14) Dibenzofuran	9.842	168	16698	6.50	ng/ml	98	
15) 1,6,7-Trimethylnaphtha...	10.052	170	9344	5.43	ng/ml	97	
16) Fluorene	10.191	166	97157	46.30	ng/ml	100	
18) Dibenzothiopene	11.037	184	29545	10.63	ng/ml	99	
19) Phenanthrene	11.171	178	348985	112.27	ng/ml	100	
20) Anthracene	11.217	178	42041	14.54	ng/ml	97	
21) Carbazole	11.380	167	10774	4.61	ng/ml	94	
22) 1-Methylphenanthrene	11.794	192	32935	15.25	ng/ml	96	
23) Fluoranthene	12.435	202	271340	86.64	ng/ml	97	
25) Pyrene	12.721	202	293940	77.82	ng/ml	99	
27) Benz(a)anthracene	14.883	228	78100	27.82	ng/ml	89	
28) Chrysene	14.965	228	75661	28.48	ng/ml	97	
30) Benzo(b)fluoranthene	17.471	252	72689	27.66	ng/ml	95	
31) Benzo(k)fluoranthene	17.530	252	27878	10.78	ng/ml	95	
32) Benzo(b+k)fluoranthene	17.471	252	110186	40.99	ng/ml	93	
34) Benzo(e)pyrene	18.118	252	46253	17.41	ng/ml	100	
35) Benzo(a)pyrene	18.235	252	60565	26.93	ng/ml	98	
36) Perylene	18.433	252	25454	9.19	ng/ml	98	
38) Indeno(1,2,3-cd)Pyrene	20.765	276	35260	16.12	ng/ml	89	
39) Dibenz(a,h)anthracene	20.835	278	9781	4.76	ng/ml	95	J
40) Benzo(g,h,i)perylene	21.301	276	42531	18.33	ng/ml	88	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : U:\data\2019-10\9J02028\
 Data File : N10021908.D
 Acq On : 02 Oct 2019 06:19 pm
 Operator : JK/ AMS/ DTH
 Sample : 9100550-MSD1@10
 Misc : 10x, 8270D LL PAH ONLY
 ALS Vial : 8 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 03 09:03:32 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



Data Path : U:\data\2019-10\9J02028\
 Data File : N10021909.D
 Acq On : 02 Oct 2019 06:51 pm
 Operator : JK/ AMS/ DTH
 Sample : A9I0771-04RE3@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 9 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

hem 10/6/19
MOS

Quant Time: Oct 03 09:03:35 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

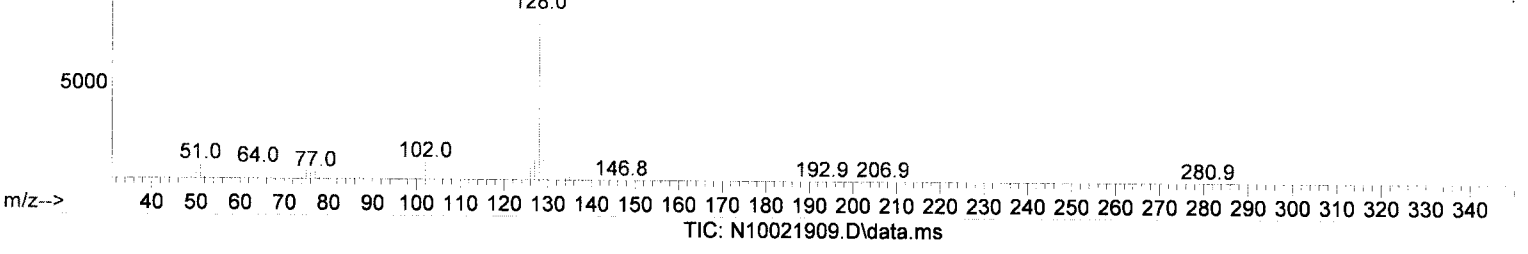
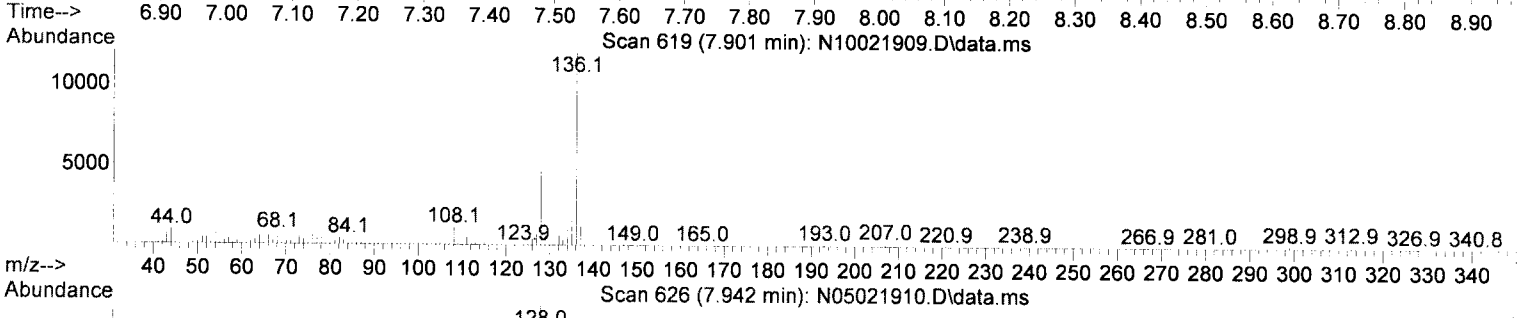
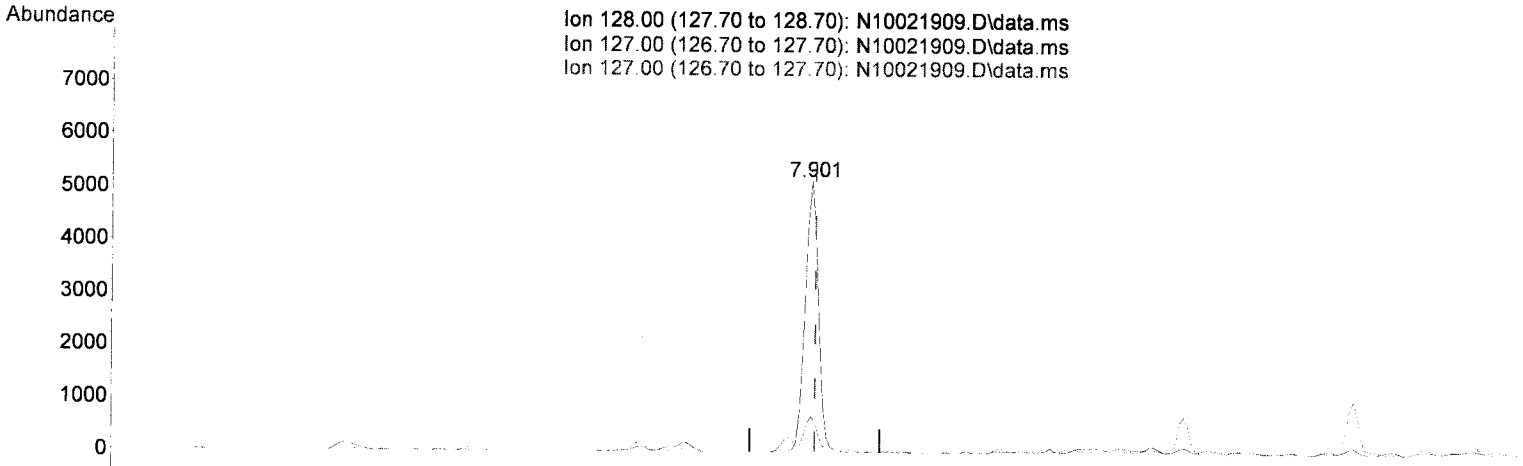
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.877	136	214472	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.638	162	139141	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.141	188	247544	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.901	240	206173	100.00	ng/ml	0.00
29) Perylene-d12 (ISTD)	18.375	264	194243	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthrcene-d...	20.759	292	142978	100.00	ng/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.184	82	704	0.99	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.950	172	3209	1.55	ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	9.480	160	3936	-1.00	ng/ml	0.00
26) Terphenyl-d14 (Surr)	12.925	244	1935	0.89	ng/ml	0.00
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml	
Target Compounds						
3) Decalin	0.000		0	N.D.		
4) Naphthalene	7.901	128	7397	(3.13)	ng/ml	98 J
5) 2-Methylnaphthalene	8.583	142	2047	1.02	ng/ml	96
6) 1-Methylnaphthalene	8.682	142	2186	1.09	ng/ml	94
7) 1,1'-Biphenyl	9.049	154	1143	0.42	ng/ml	96
8) 2,6-Dimethylnaphthalene	9.212	156	3368	1.71	ng/ml	99
12) Acenaphthylene	9.492	152	8829	(2.92)	ng/ml	97 J
13) Acenaphthene	9.667	153	15854	8.01	ng/ml	98
14) Dibenzofuran	9.842	168	1171	0.47	ng/ml	78
15) 1,6,7-Trimethylnaphtha...	10.051	170	2176	1.31	ng/ml	90
16) Fluorene	10.191	166	9268	4.58	ng/ml	97 ME
18) Dibenzothiopene	11.037	184	10439	4.03	ng/ml	97
19) Phenanthrene	11.165	178	90664	31.30	ng/ml	99
20) Anthracene	11.217	178	16270	6.04	ng/ml	98
21) Carbazole	11.375	167	1947	0.89	ng/ml	86
22) 1-Methylphenanthrene	11.788	192	11052	5.49	ng/ml	95
23) Fluoranthene	12.430	202	95289	32.65	ng/ml	98
25) Pyrene	12.721	202	118469	36.78	ng/ml	99
27) Benz(a)anthracene	14.878	228	29362	12.27	ng/ml	75
28) Chrysene	14.959	228	34957	15.43	ng/ml	97
30) Benzo(b)fluoranthene	17.466	252	39777	17.75	ng/ml	94
31) Benzo(k)fluoranthene	17.466	252	48801	22.11	ng/ml	93 ME - MOS
32) Benzo(b+k)fluoranthene	17.466	252	56647	24.71	ng/ml	93
34) Benzo(e)pyrene	18.113	252	25459	11.23	ng/ml	99
35) Benzo(a)pyrene	18.229	252	37334	19.46	ng/ml	97
36) Perylene	18.433	252	10770	4.56	ng/ml	98
38) Indeno(1,2,3-cd)Pyrene	20.759	276	23762	13.48	ng/ml	90
39) Dibenz(a,h)anthracene	20.823	278	3246	1.96	ng/ml	94
40) Benzo(g,h,i)perylene	21.295	276	30179	16.13	ng/ml	86

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J02028\
 Data File : N10021909.D
 Acq On : 02 Oct 2019 06:51 pm
 Operator : JK/ AMS/ DTH
 Sample : A9I0771-04RE3@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 04 09:58:37 2019
 Quant Method : R:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(4) Naphthalene (T)

7.901min (-0.006) 3.13 ng/ml

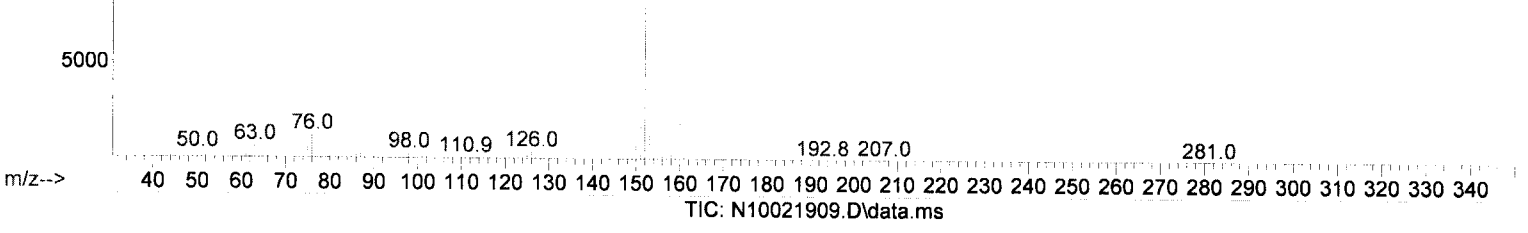
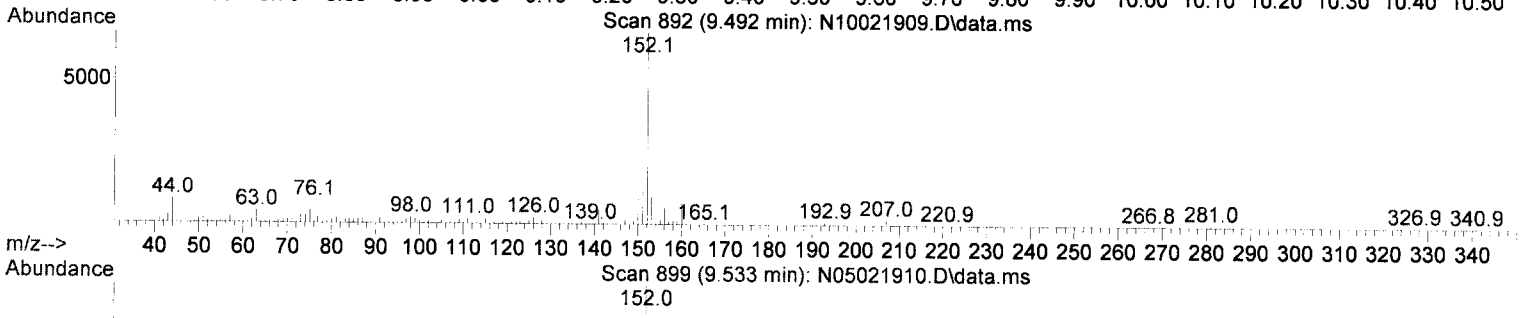
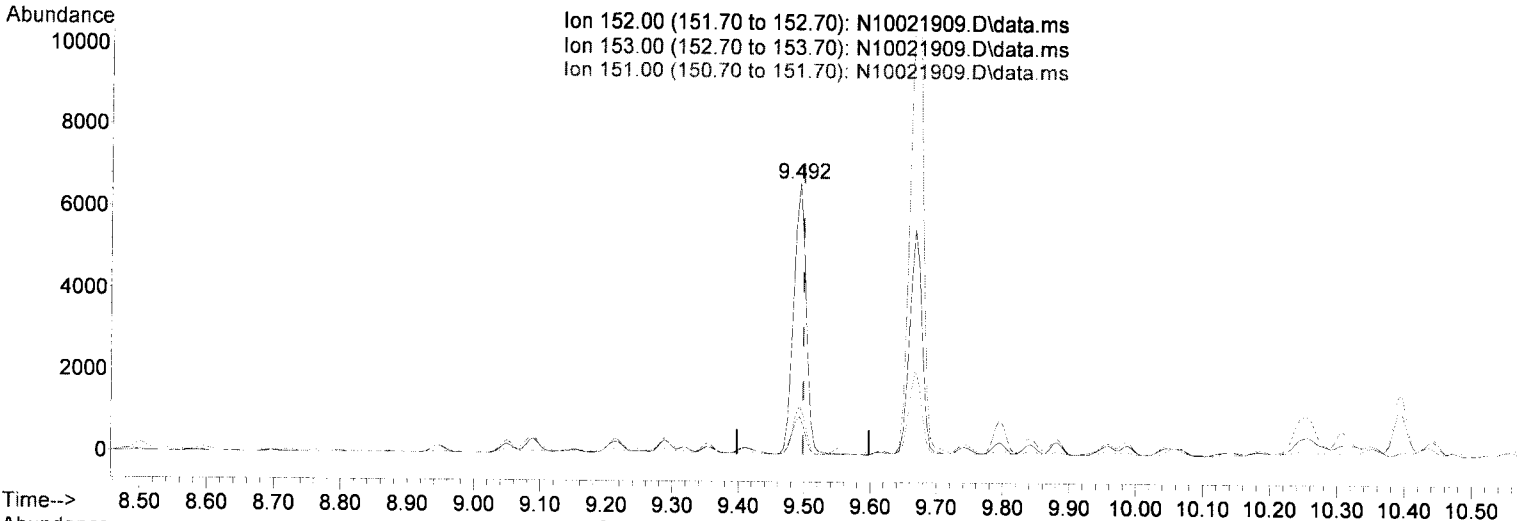
response 7397

Ion	Exp%	Act%
128.00	100.00	100.00
127.00	12.60	13.25
127.00	12.60	13.25
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J02028\
 Data File : N10021909.D
 Acq On : 02 Oct 2019 06:51 pm
 Operator : JK/ AMS/ DTH
 Sample : A9I0771-04RE3@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 04 09:58:37 2019
 Quant Method : R:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(12) Acenaphthylene (T)

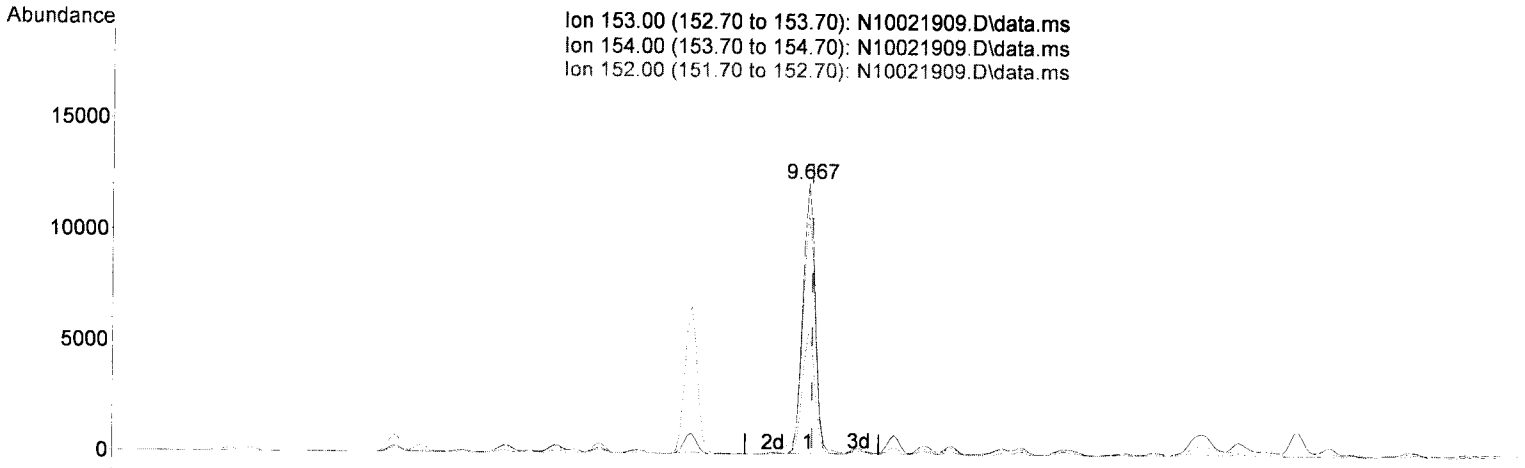
9.492min (-0.006) 2.92 ng/ml

response	8829	
Ion	Exp%	Act%
152.00	100.00	100.00
153.00	12.70	14.22
151.00	19.30	18.32
0.00	0.00	0.00

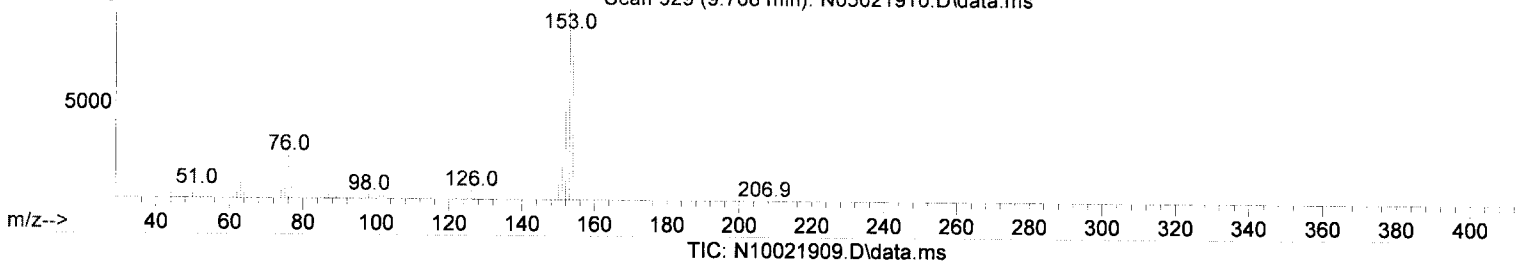
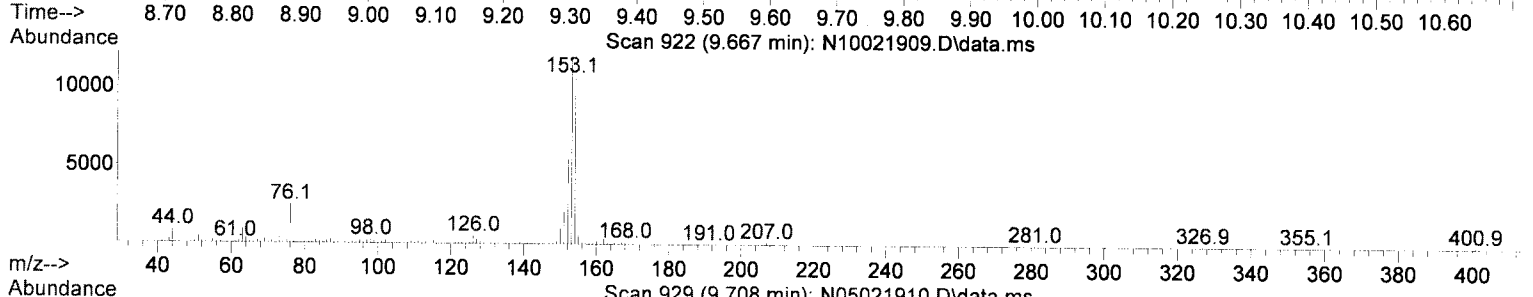
Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J02028\
 Data File : N10021909.D
 Acq On : 02 Oct 2019 06:51 pm
 Operator : JK/ AMS/ DTH
 Sample : A9I0771-04RE3@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 04 09:58:37 2019
 Quant Method : R:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



Ion 153.00 (152.70 to 153.70): N10021909.D\data.ms
 Ion 154.00 (153.70 to 154.70): N10021909.D\data.ms
 Ion 152.00 (151.70 to 152.70): N10021909.D\data.ms



(13) Acenaphthene (T)

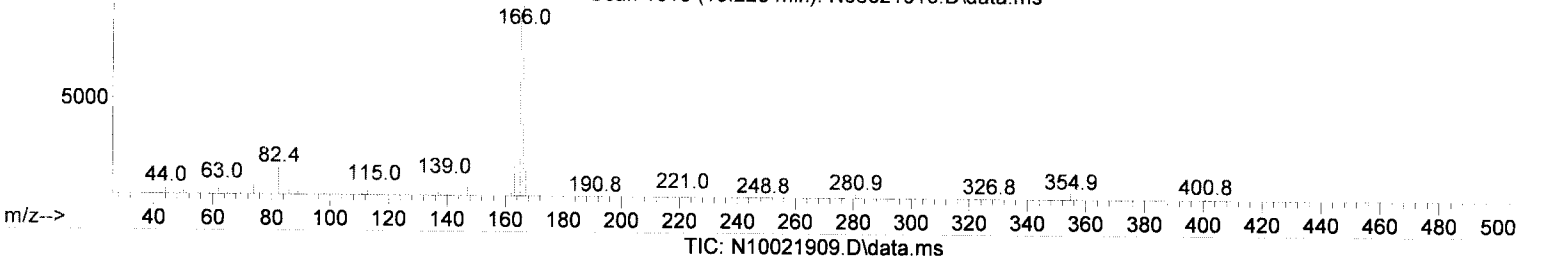
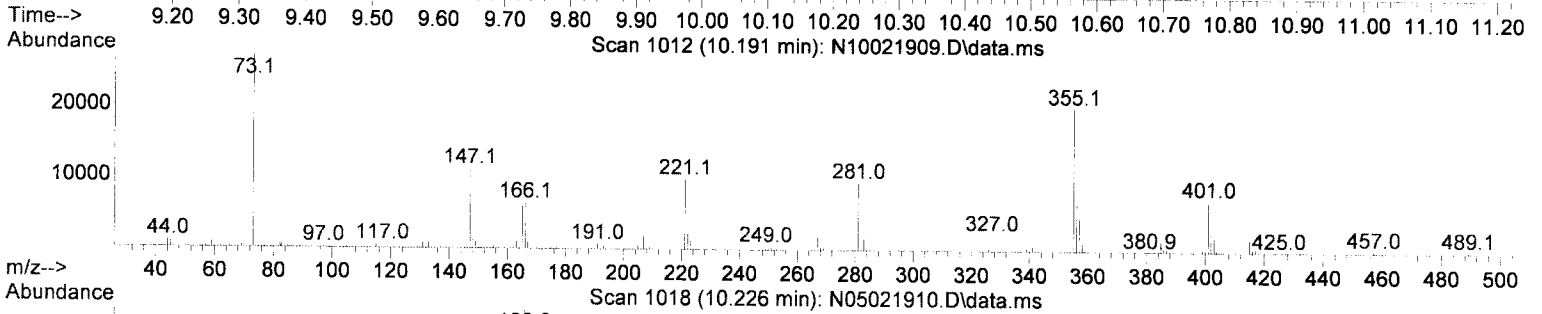
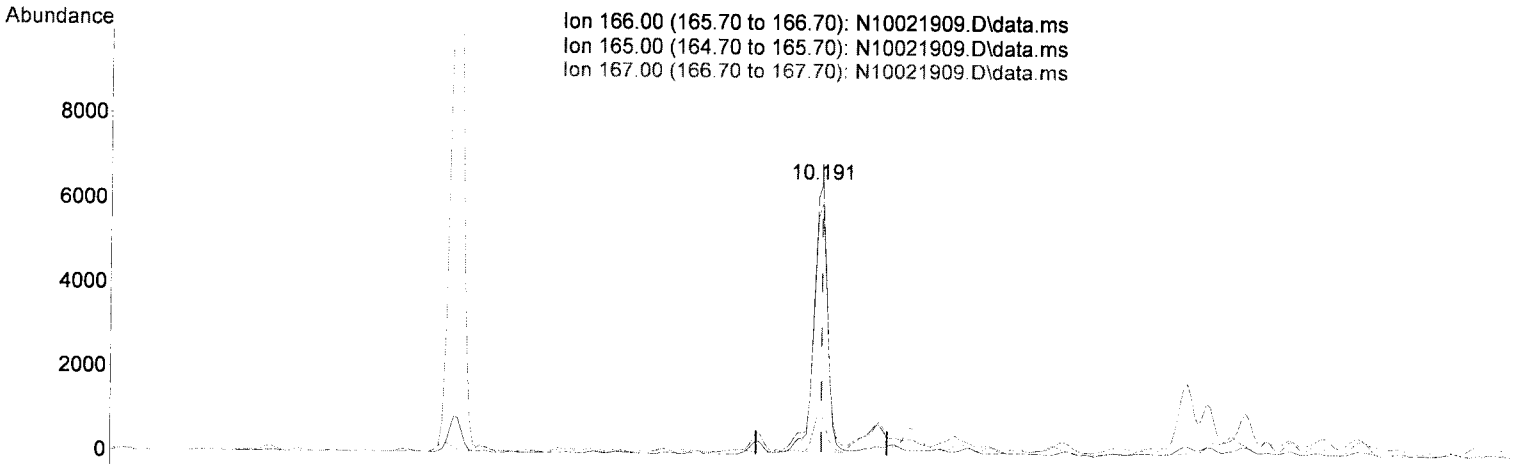
9.667min (-0.006) 8.01 ng/ml

response	15854
Ion	Exp% Act%
153.00	100.00 100.00
154.00	90.70 88.44
152.00	46.80 45.24
0.00	0.00 0.00

Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J02028\
 Data File : N10021909.D
 Acq On : 02 Oct 2019 06:51 pm
 Operator : JK/ AMS/ DTH
 Sample : A9I0771-04RE3@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 04 09:58:37 2019
 Quant Method : R:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(16) Fluorene (T)

10.191min (0.000) 4.31 ng/ml *m*

peak 10/4/19

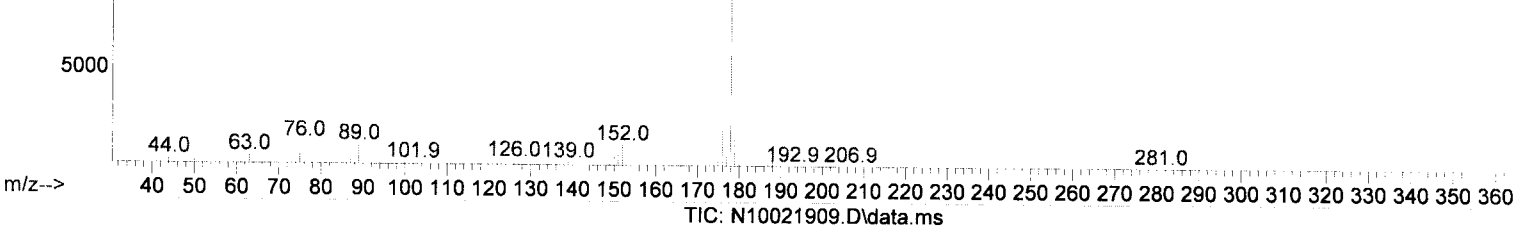
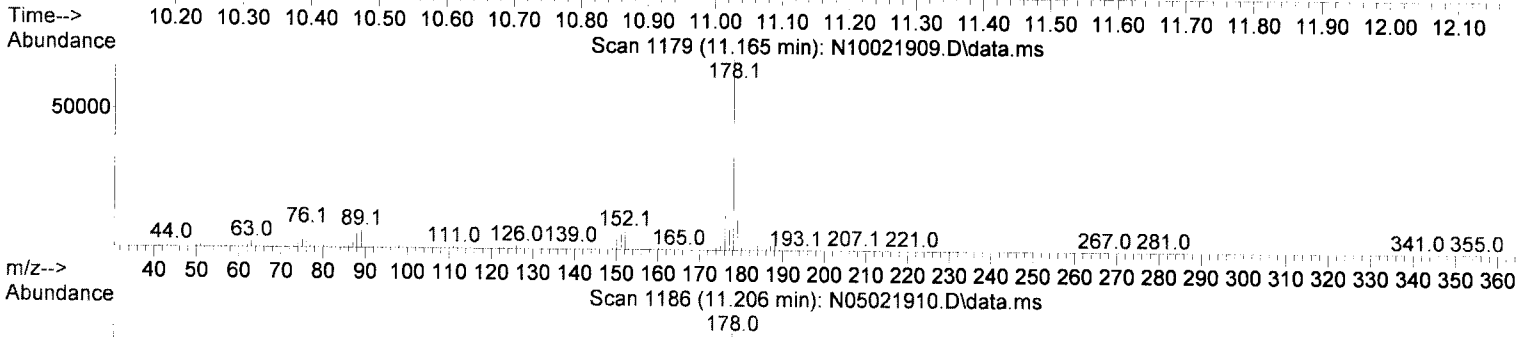
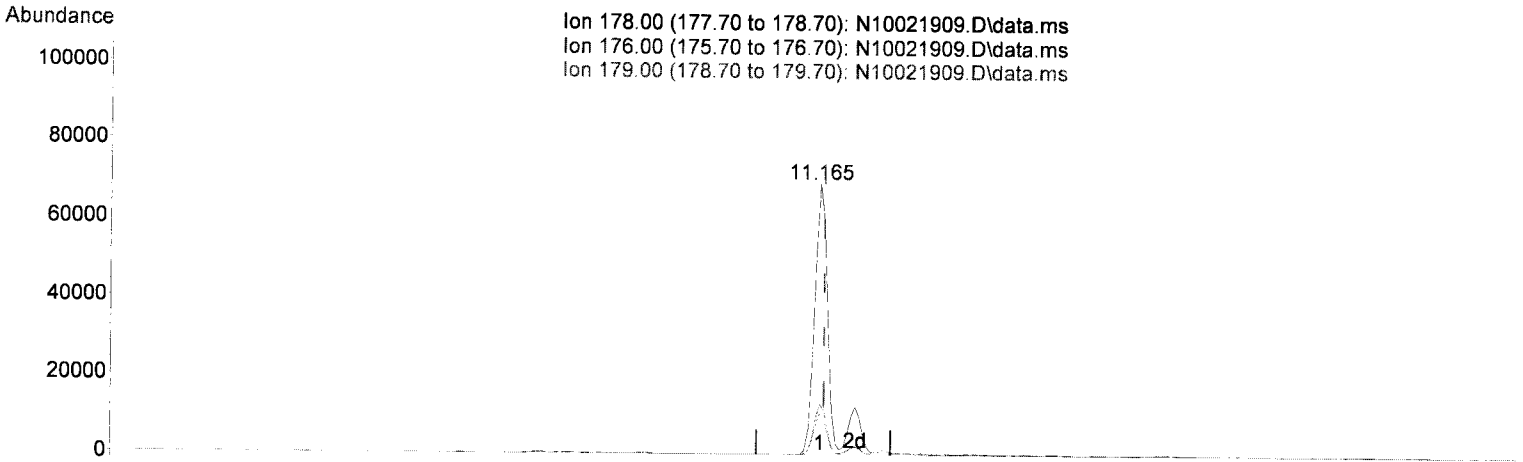
response 8728

Ion	Exp%	Act%
166.00	100.00	100.00
165.00	95.70	92.46
167.00	13.60	14.82
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J02028\
 Data File : N10021909.D
 Acq On : 02 Oct 2019 06:51 pm
 Operator : JK/ AMS/ DTH
 Sample : A9I0771-04RE3@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 04 09:58:37 2019
 Quant Method : R:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(19) Phenanthrene (T)

11.165min (-0.006) 31.30 ng/ml

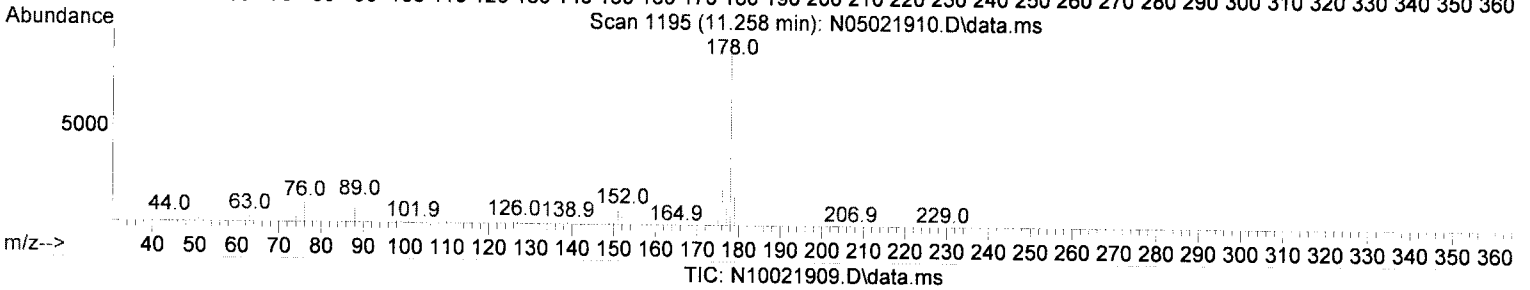
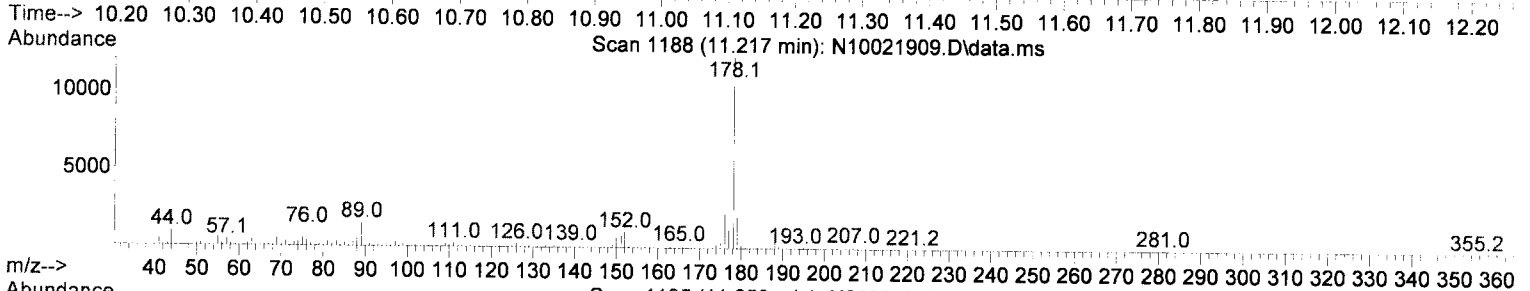
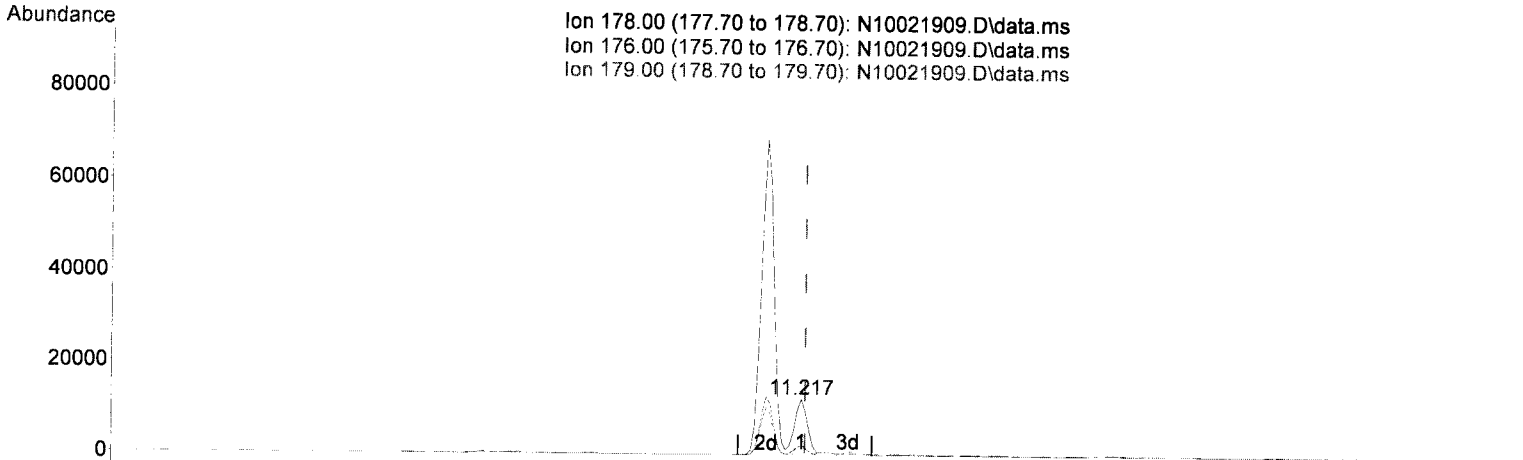
response 90664

Ion	Exp%	Act%
178.00	100.00	100.00
176.00	19.00	18.90
179.00	15.10	15.48
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J02028\
 Data File : N10021909.D
 Acq On : 02 Oct 2019 06:51 pm
 Operator : JK/ AMS/ DTH
 Sample : A9I0771-04RE3@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 04 09:58:37 2019
 Quant Method : R:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(20) Anthracene (T)

11.217min (-0.006) 6.04 ng/ml

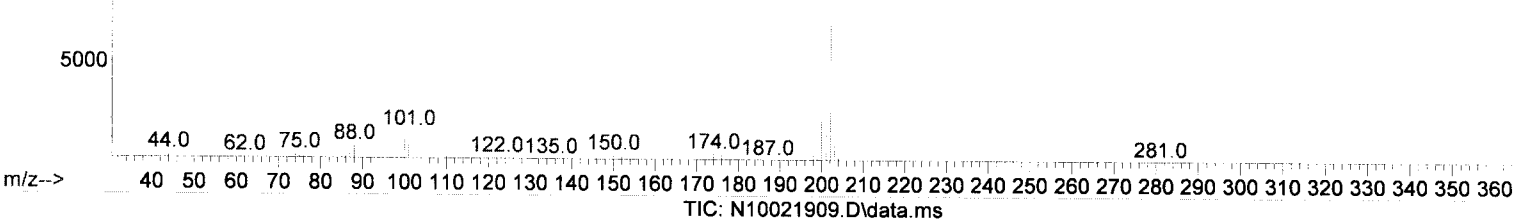
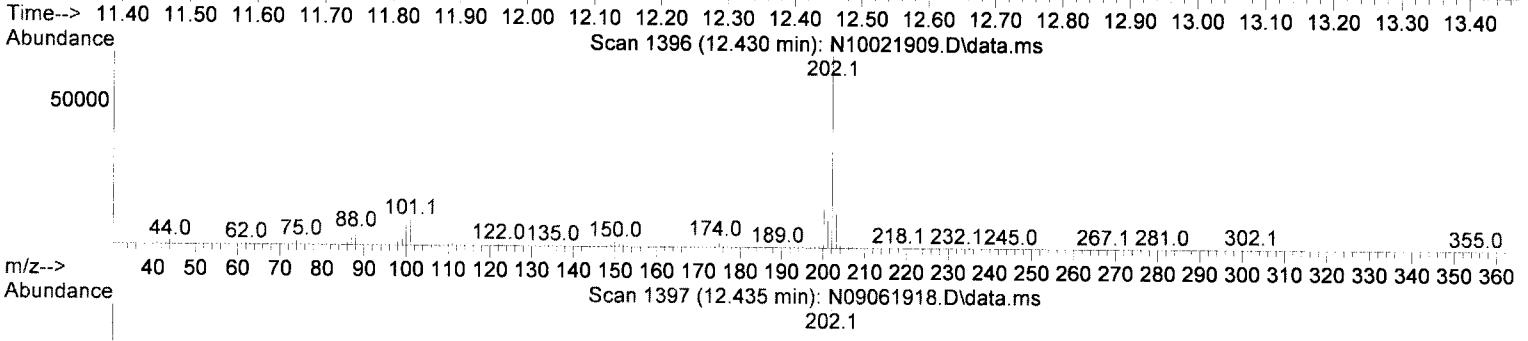
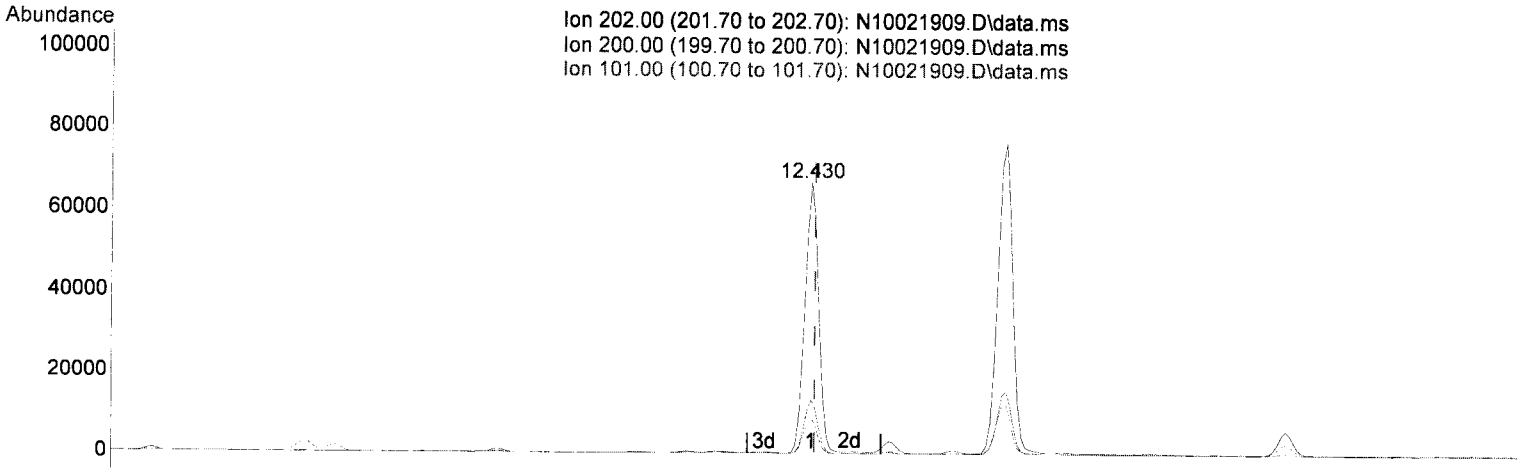
response 16270

Ion	Exp%	Act%
178.00	100.00	100.00
176.00	18.90	17.94
179.00	15.30	16.37
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J02028\
 Data File : N10021909.D
 Acq On : 02 Oct 2019 06:51 pm
 Operator : JK/ AMS/ DTH
 Sample : A9I0771-04RE3@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 04 09:58:37 2019
 Quant Method : R:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(23) Fluoranthene (T)

12.430min (-0.005) 32.65 ng/ml

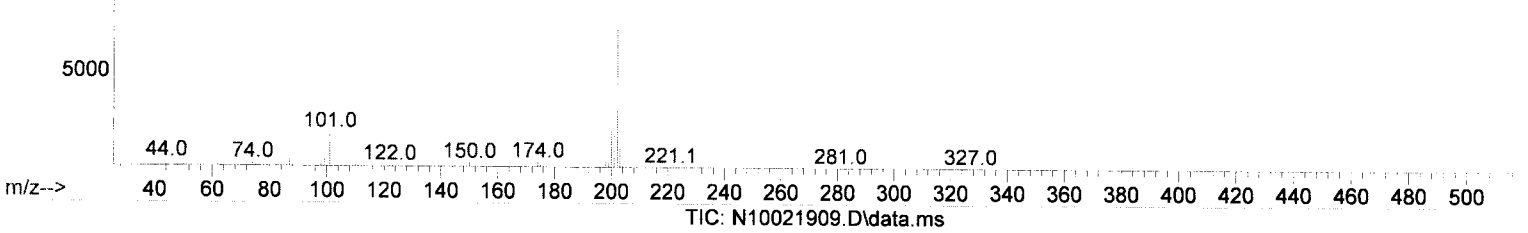
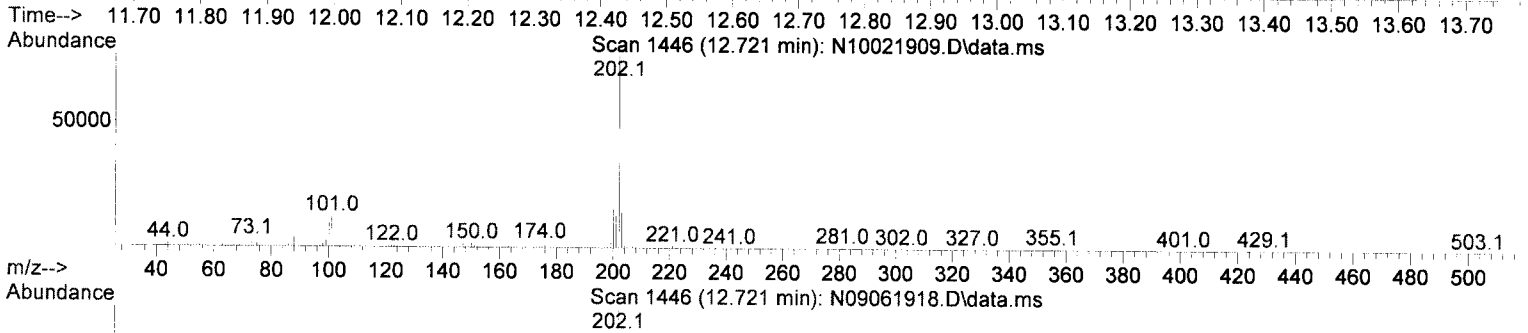
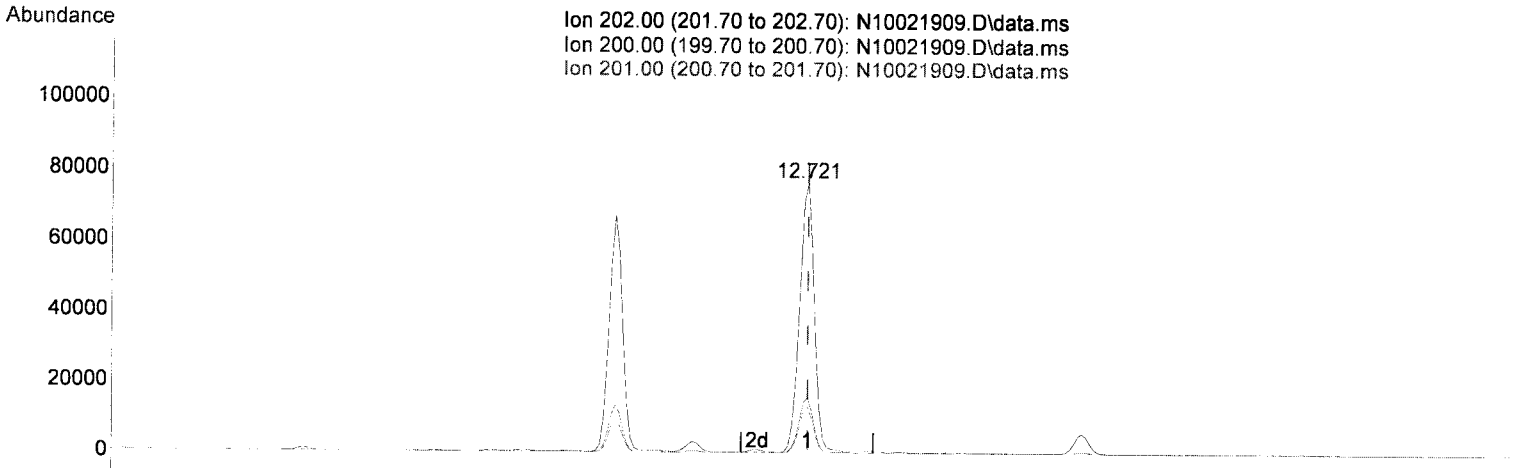
response 95289

Ion	Exp%	Act%
202.00	100.00	100.00
200.00	19.70	19.90
101.00	15.30	13.48
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J02028\
 Data File : N10021909.D
 Acq On : 02 Oct 2019 06:51 pm
 Operator : JK/ AMS/ DTH
 Sample : A9I0771-04RE3@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 04 09:58:37 2019
 Quant Method : R:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(25) Pyrene (T)

12.721min (0.000) 36.78 ng/ml

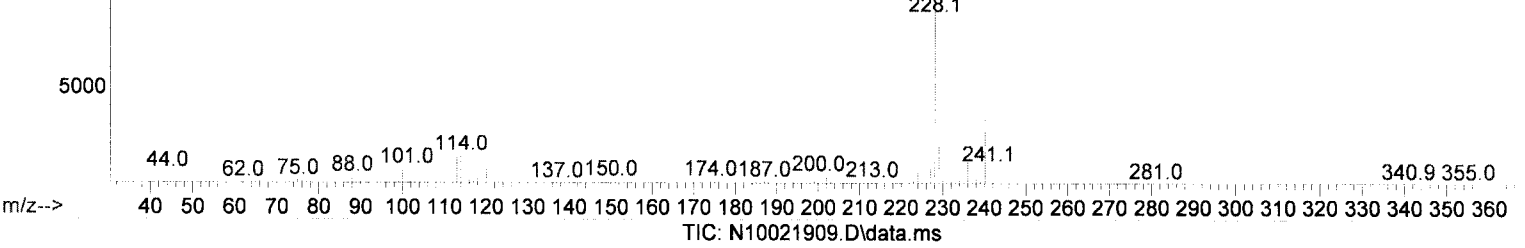
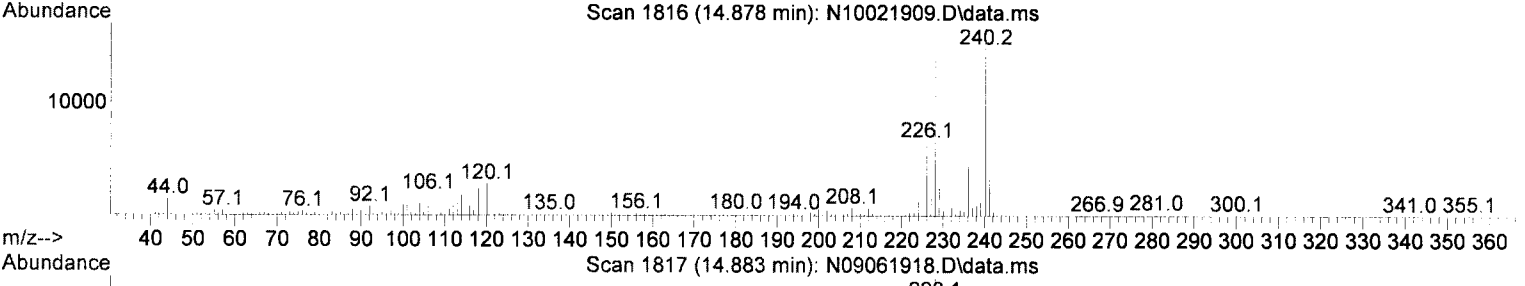
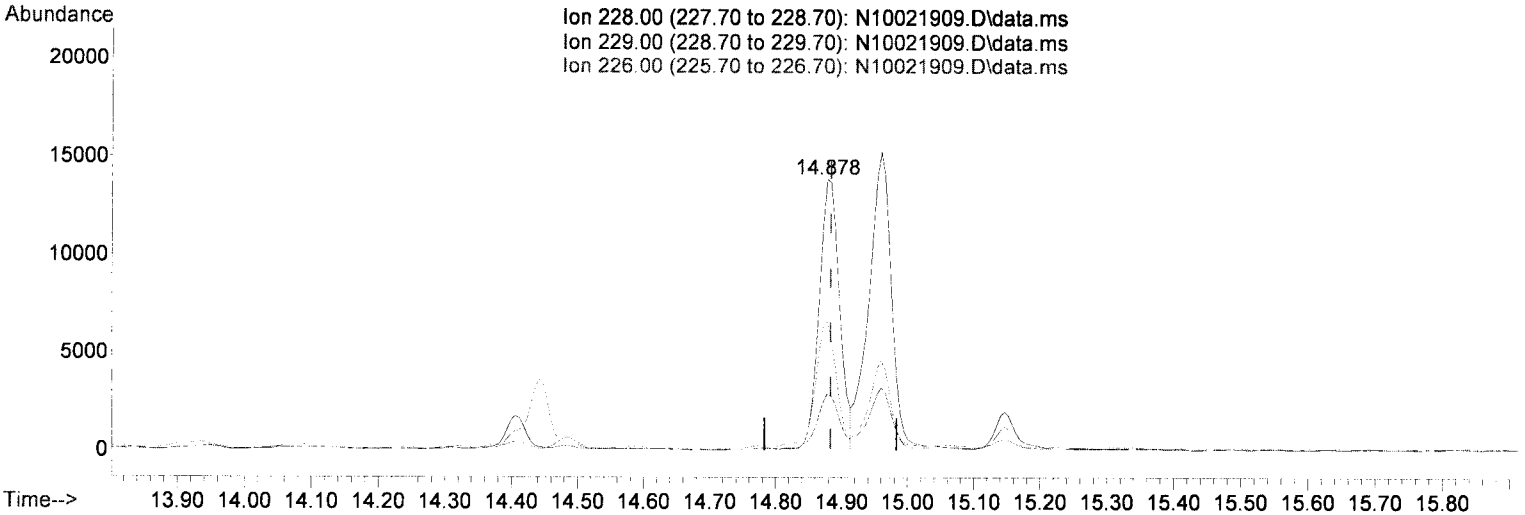
response 118469

Ion	Exp%	Act%
202.00	100.00	100.00
200.00	20.70	20.44
201.00	16.80	17.03
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J02028\
 Data File : N10021909.D
 Acq On : 02 Oct 2019 06:51 pm
 Operator : JK/ AMS/ DTH
 Sample : A9I0771-04RE3@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 04 09:58:37 2019
 Quant Method : R:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(27) Benz(a)anthracene (T)

14.878min (-0.005) 12.27 ng/ml

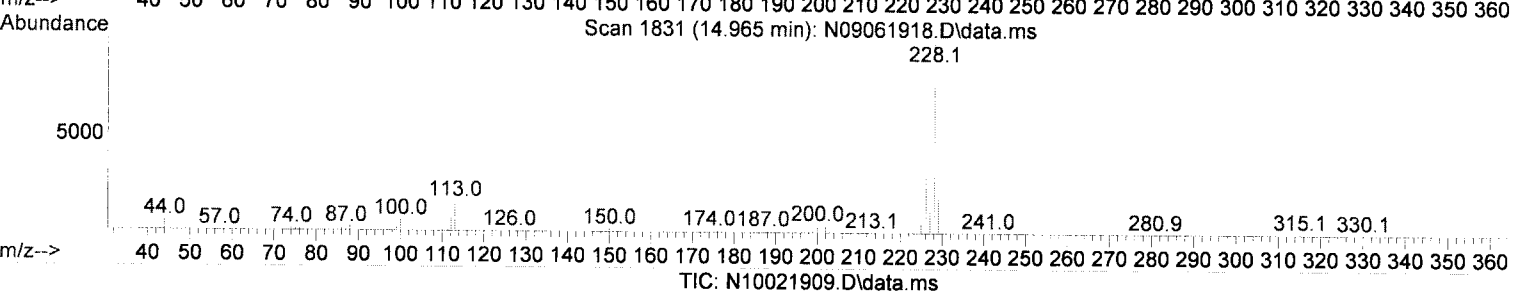
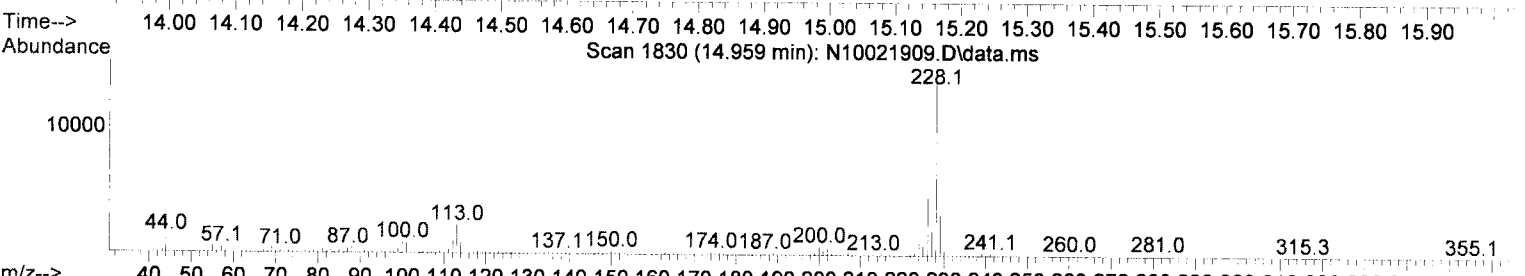
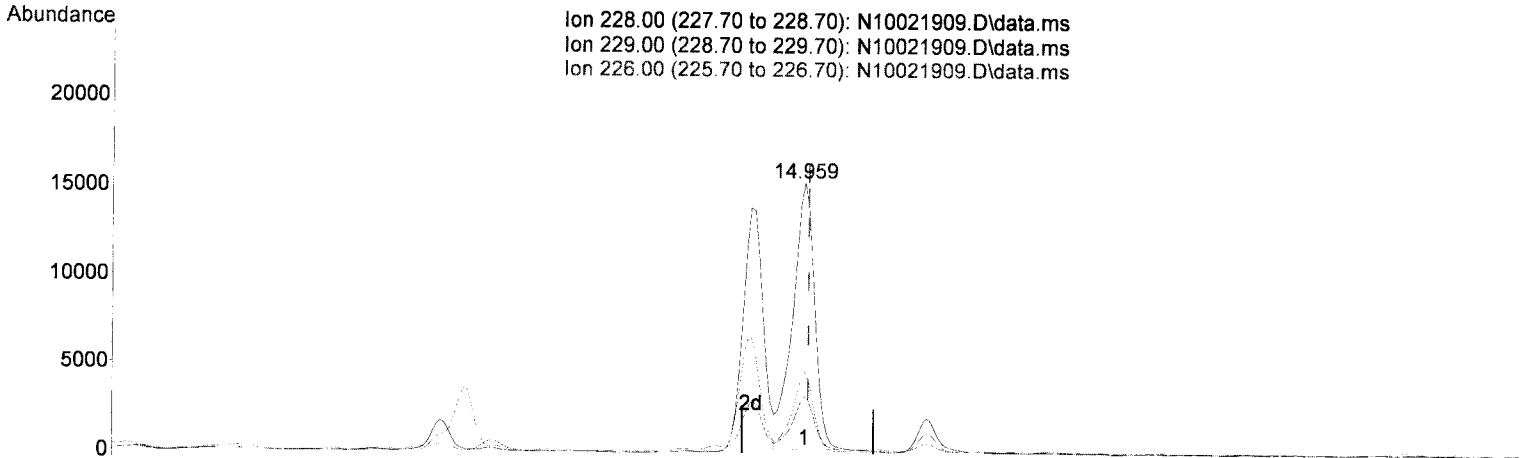
response 29362

Ion	Exp%	Act%
228.00	100.00	100.00
229.00	19.40	20.84
226.00	26.20	47.51
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J02028\
 Data File : N10021909.D
 Acq On : 02 Oct 2019 06:51 pm
 Operator : JK/ AMS/ DTH
 Sample : A9I0771-04RE3@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 04 09:58:37 2019
 Quant Method : R:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(28) Chrysene (T)

14.959min (-0.006) 15.43 ng/ml

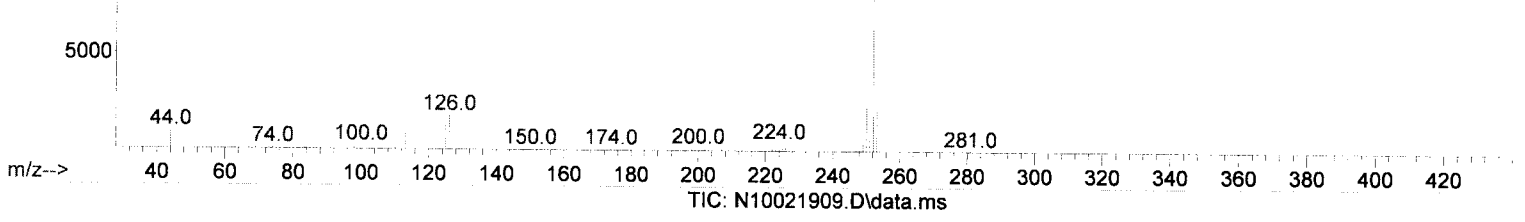
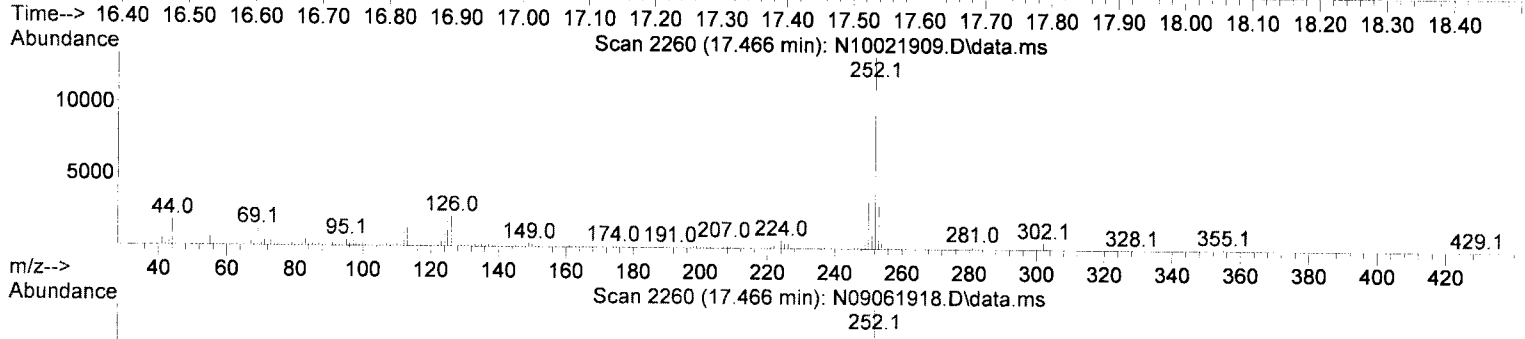
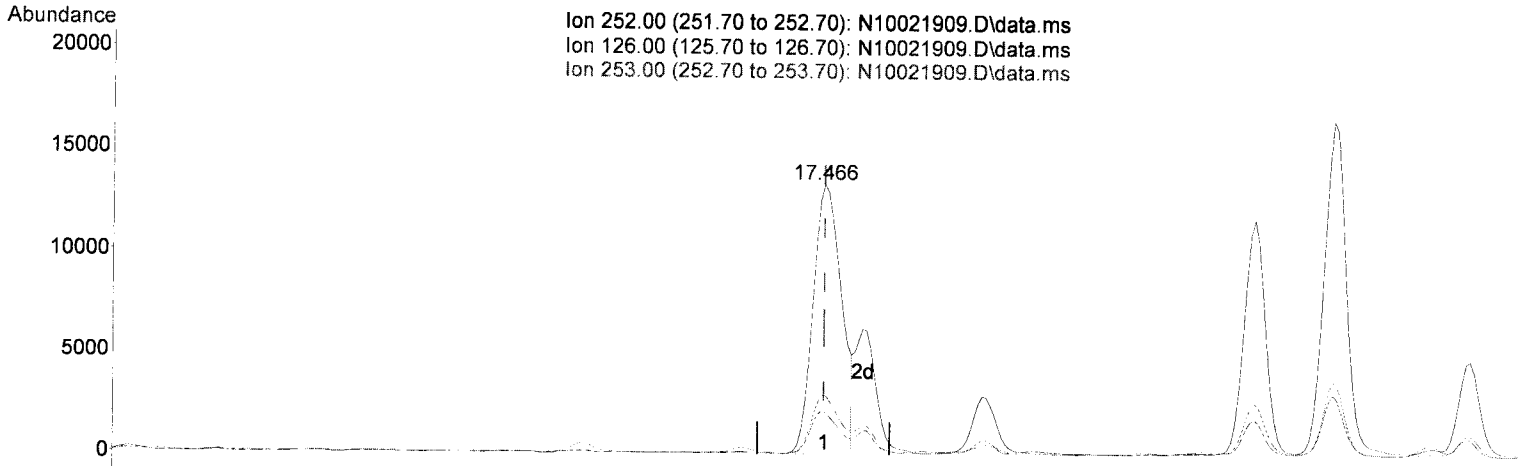
response 34957

Ion	Exp%	Act%
228.00	100.00	100.00
229.00	19.60	21.03
226.00	28.60	30.17
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J02028\
 Data File : N10021909.D
 Acq On : 02 Oct 2019 06:51 pm
 Operator : JK/ AMS/ DTH
 Sample : A9I0771-04RE3@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 04 09:58:37 2019
 Quant Method : R:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(30) Benzo(b)fluoranthene (T)

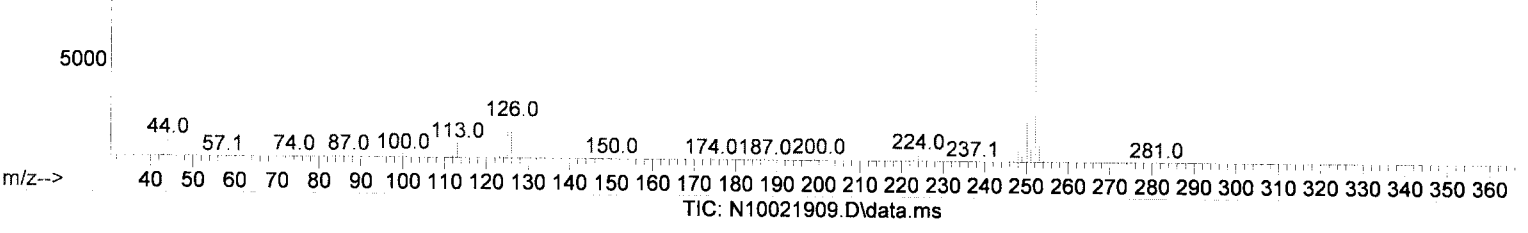
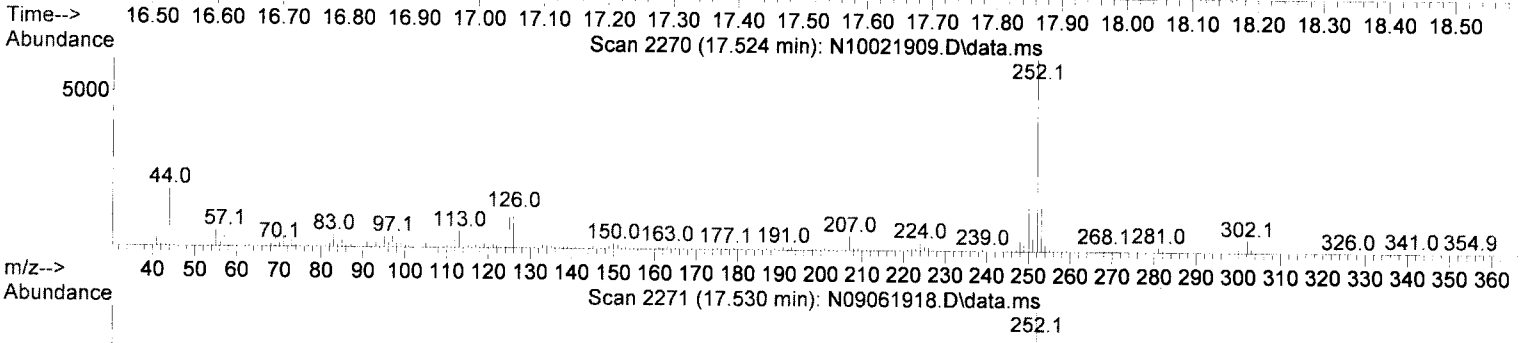
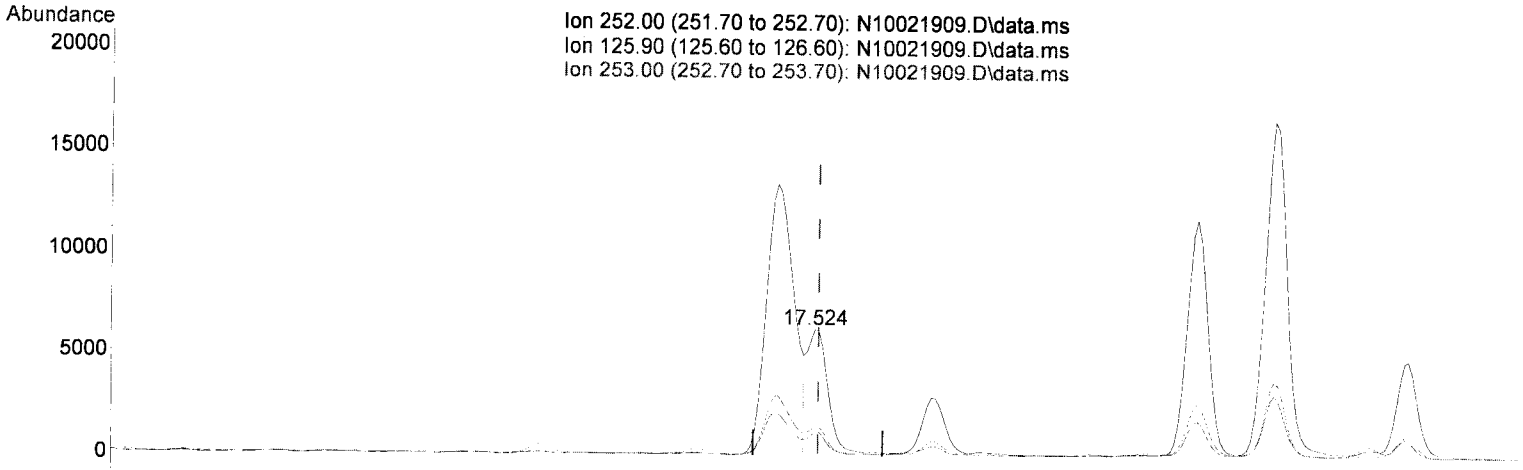
17.466min (+ 0.001) 17.75 ng/ml

response	39777	
Ion	Exp%	Act%
252.00	100.00	100.00
126.00	20.00	15.84
253.00	21.10	22.26
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J02028\
 Data File : N10021909.D
 Acq On : 02 Oct 2019 06:51 pm
 Operator : JK/ AMS/ DTH
 Sample : A9I0771-04RE3@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 04 09:58:37 2019
 Quant Method : R:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(31) Benzo(k)fluoranthene (T)

17.524min (-0.005) 5.93 ng/ml m

rem 10 11/19
MOS

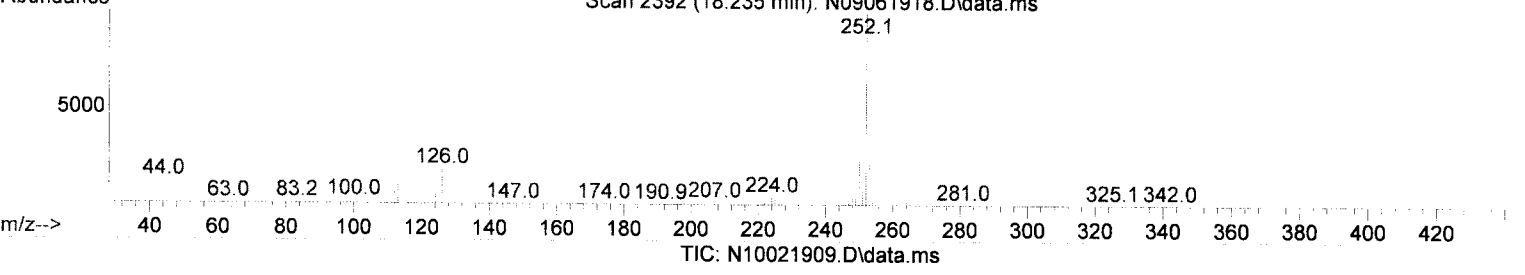
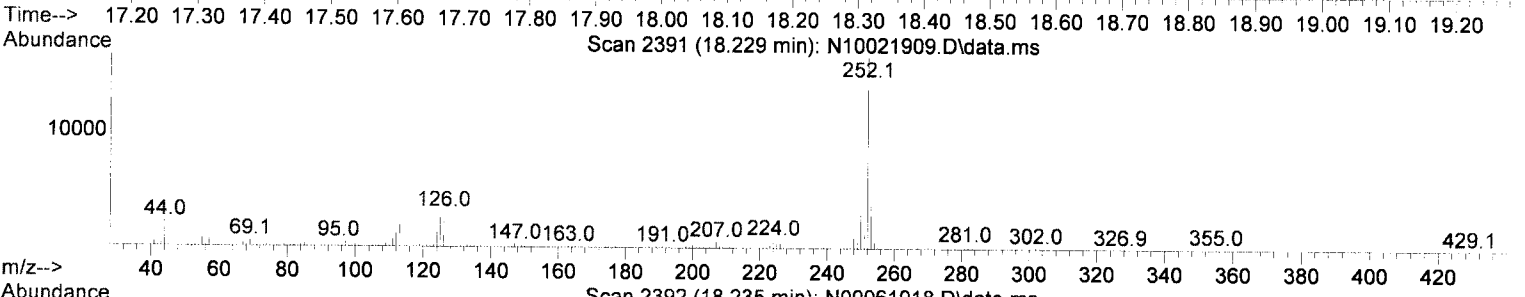
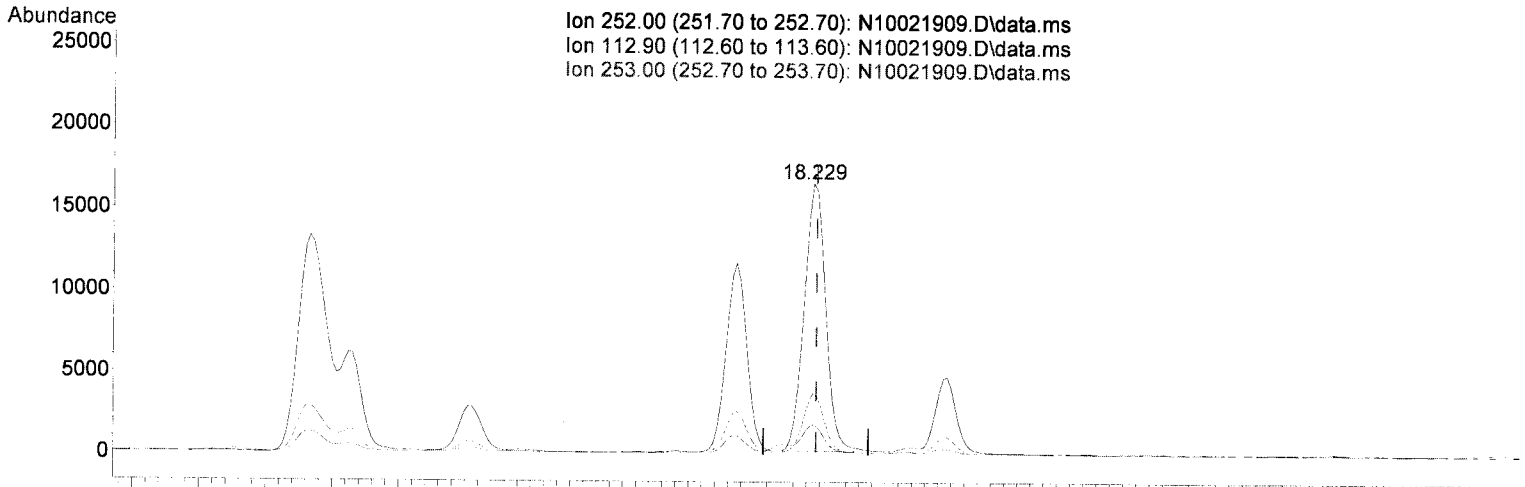
response 13088

Ion	Exp%	Act%
252.00	100.00	100.00
125.90	22.10	19.19
253.00	21.50	22.98
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J02028\
 Data File : N10021909.D
 Acq On : 02 Oct 2019 06:51 pm
 Operator : JK/ AMS/ DTH
 Sample : A9I0771-04RE3@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 04 09:58:37 2019
 Quant Method : R:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(35) Benzo(a)pyrene (T)

18.229min (-0.005) 19.46 ng/ml

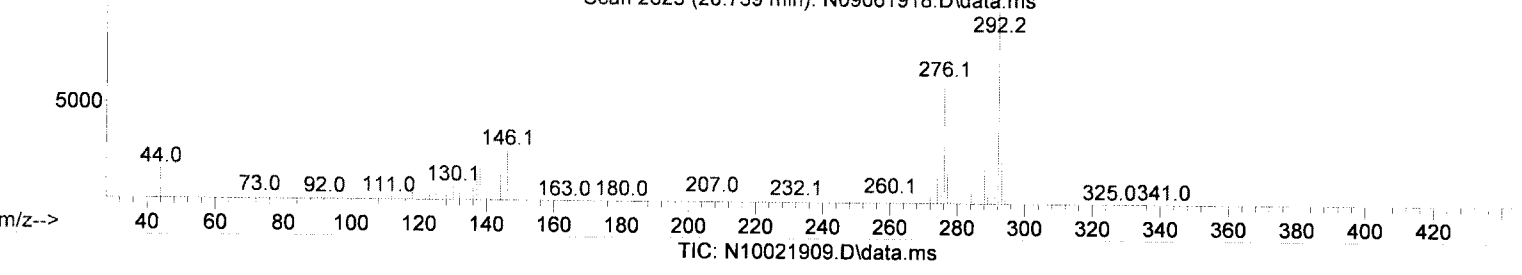
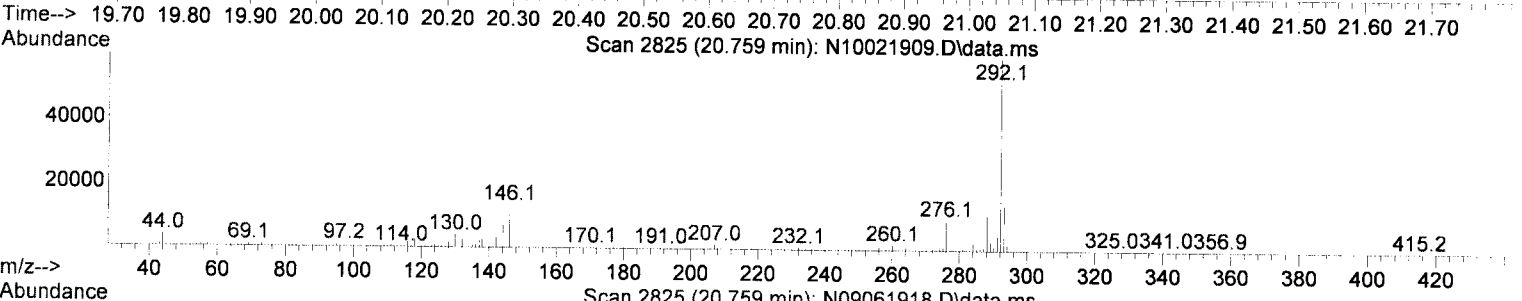
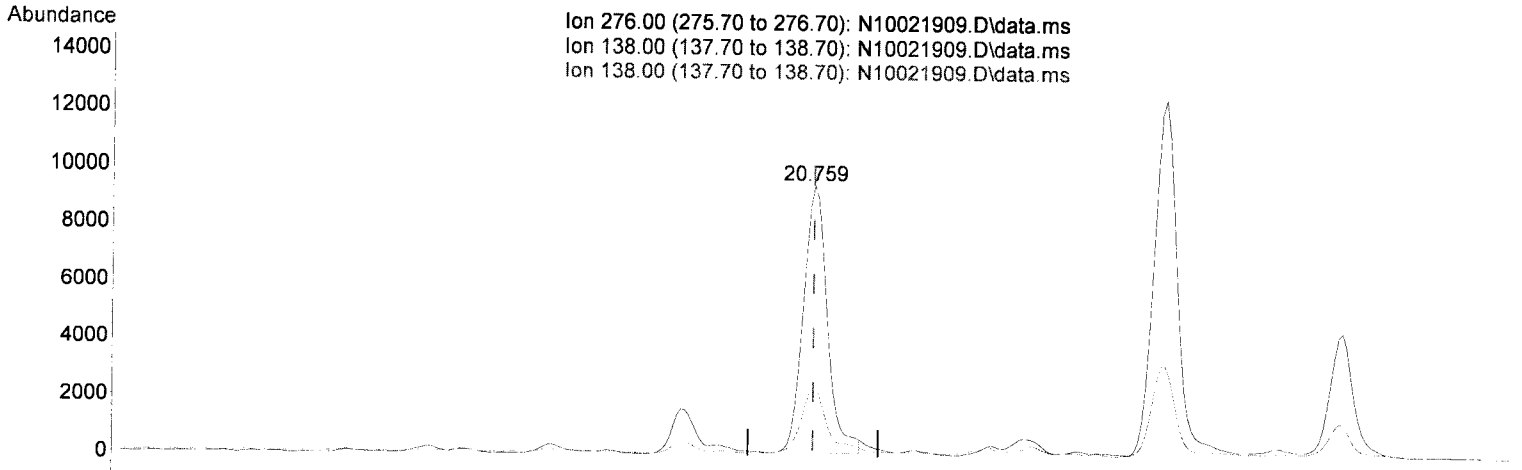
response 37334

Ion	Exp%	Act%
252.00	100.00	100.00
112.90	12.70	11.10
253.00	21.90	22.76
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J02028\
 Data File : N10021909.D
 Acq On : 02 Oct 2019 06:51 pm
 Operator : JK/ AMS/ DTH
 Sample : A9I0771-04RE3@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 04 09:58:37 2019
 Quant Method : R:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(38) Indeno(1,2,3-cd)Pyrene (T)

20.759min (+ 0.001) 13.48 ng/ml

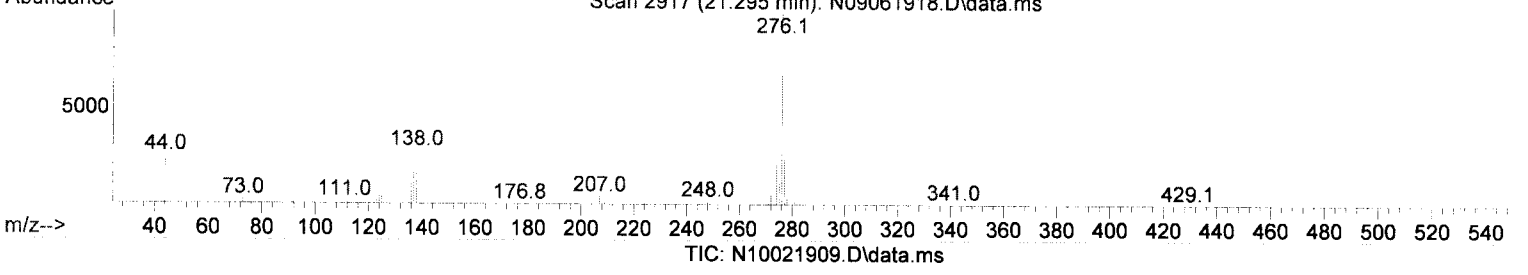
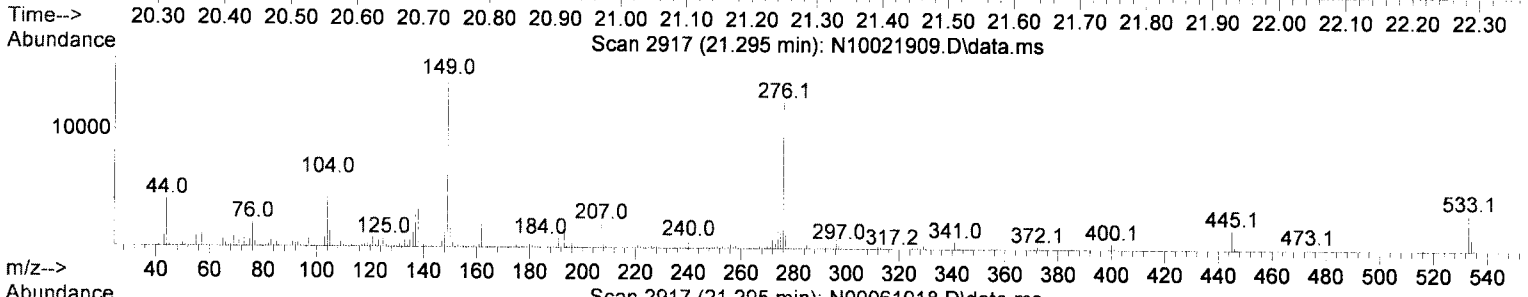
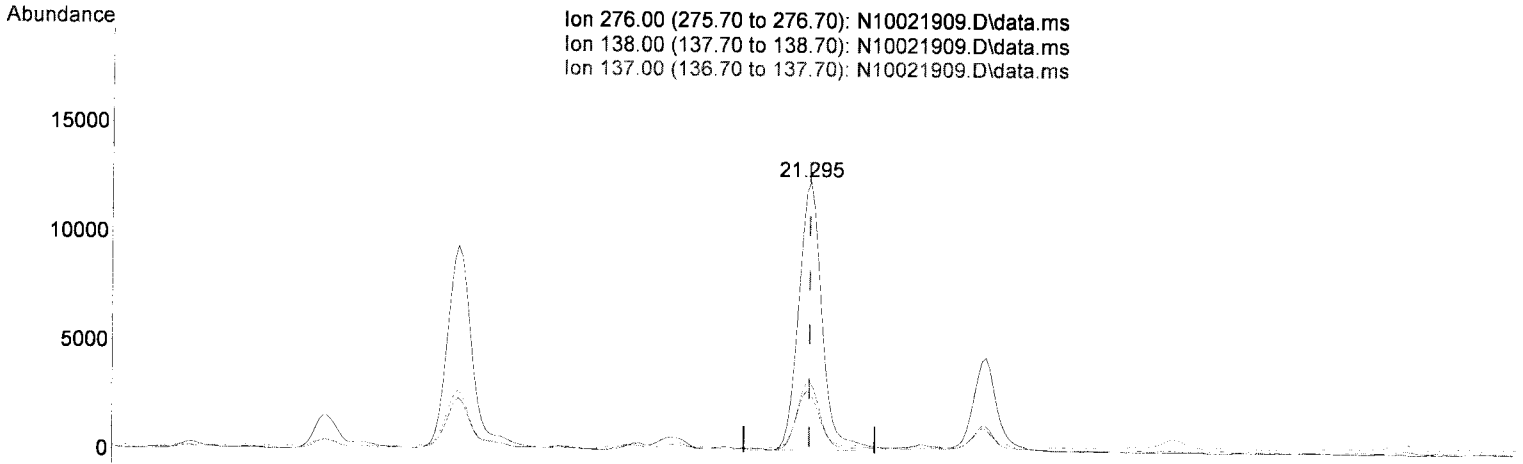
response 23762

Ion	Exp%	Act%
276.00	100.00	100.00
138.00	31.60	25.98
138.00	31.60	25.98
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J02028\
 Data File : N10021909.D
 Acq On : 02 Oct 2019 06:51 pm
 Operator : JK/ AMS/ DTH
 Sample : A9I0771-04RE3@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 04 09:58:37 2019
 Quant Method : R:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



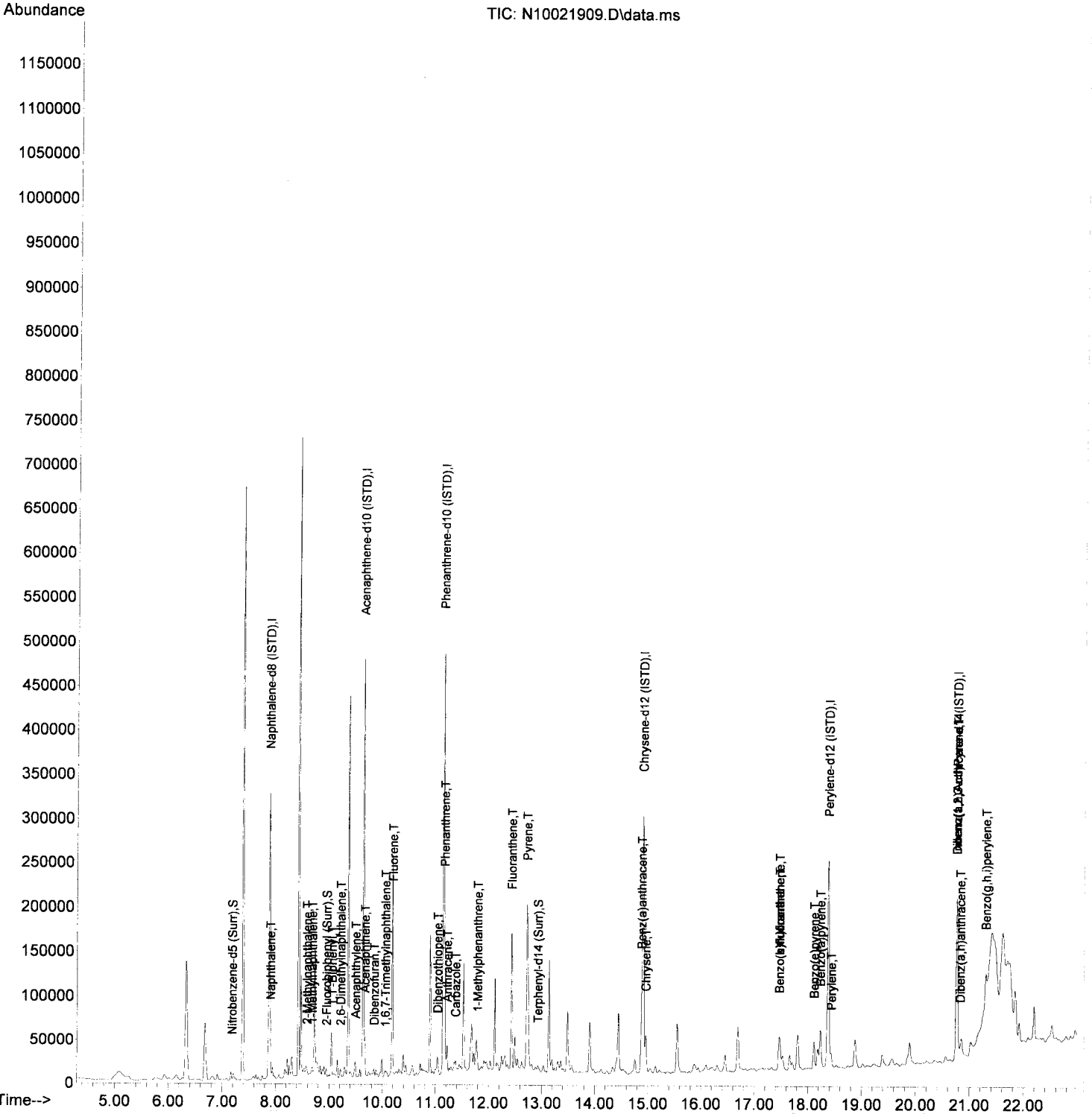
(40) Benzo(g,h,i)perylene (T)

21.295min (+ 0.001) 16.13 ng/ml

response	30179	
Ion	Exp%	Act%
276.00	100.00	100.00
138.00	34.40	25.87
137.00	28.60	22.04
0.00	0.00	0.00

Data Path : U:\data\2019-10\9J02028\
 Data File : N10021909.D
 Acq On : 02 Oct 2019 06:51 pm
 Operator : JK/ AMS/ DTH
 Sample : A9I0771-04RE3@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 9 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 03 09:03:35 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



Data Path : U:\data\2019-10\9J02028\
 Data File : N10021910.D
 Acq On : 02 Oct 2019 07:23 pm
 Operator : JK/ AMS/ DTH
 Sample : A9I0771-05RE3@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 10 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

LeML *10/4/19*
MDS

Quant Time: Oct 03 09:03:38 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

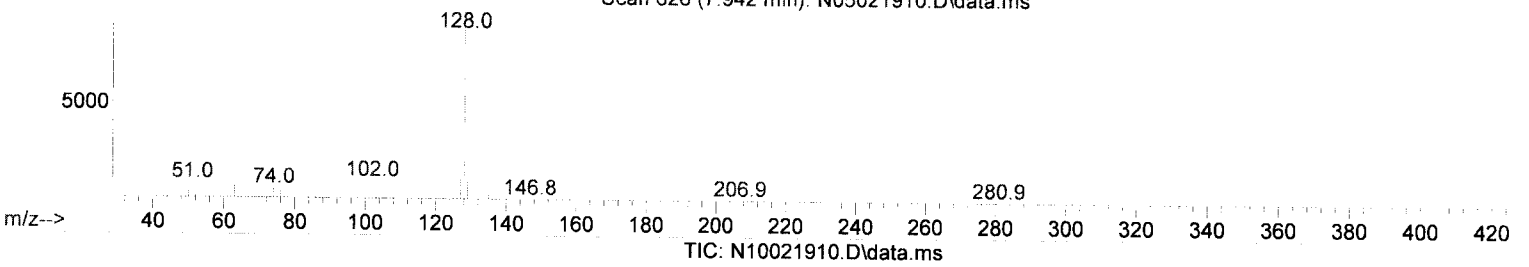
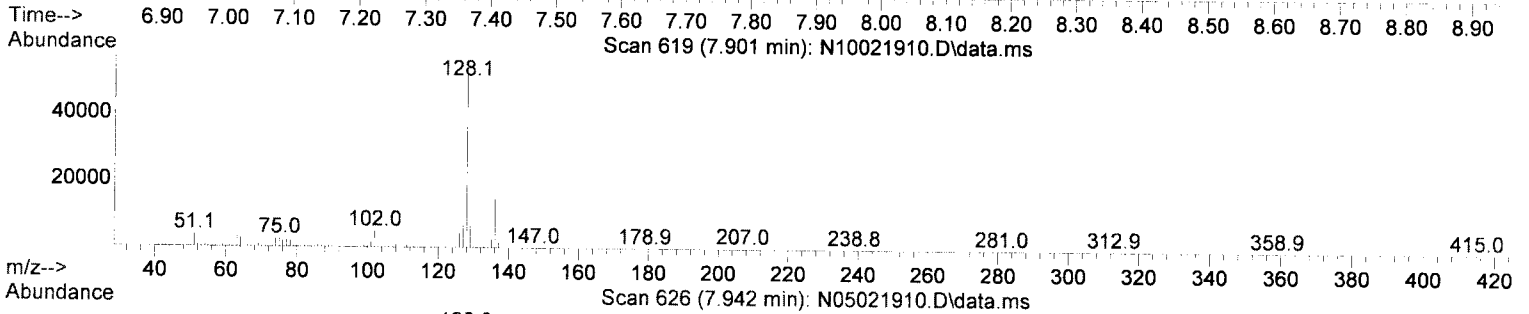
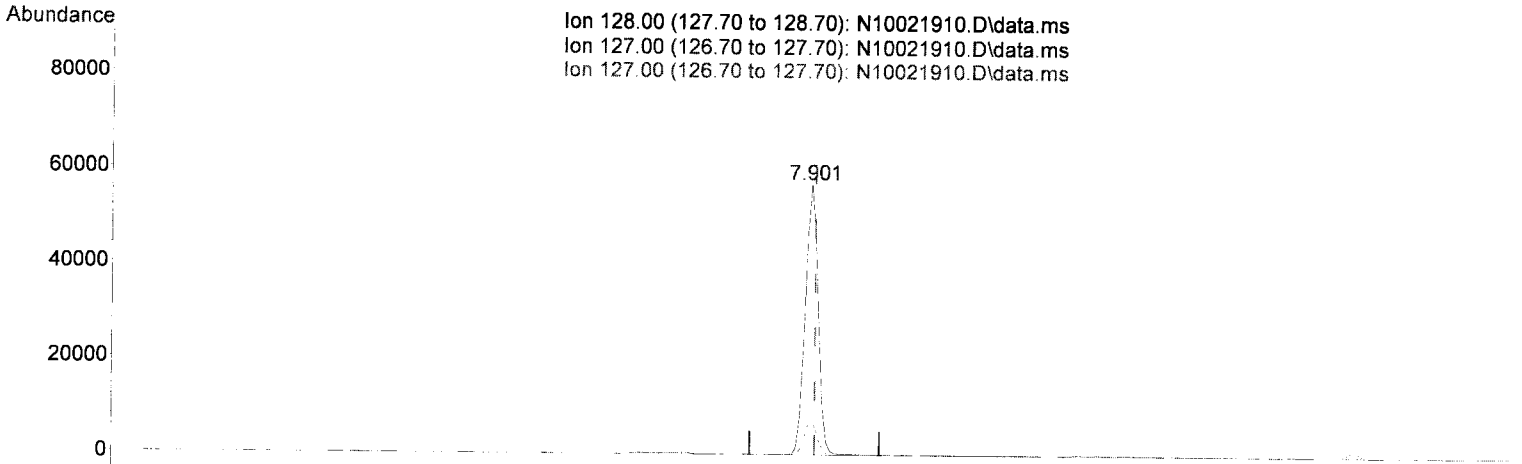
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.877	136	225986	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.638	162	142704	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.141	188	256541	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.907	240	231082	100.00	ng/ml	0.00
29) Perylene-d12 (ISTD)	18.375	264	227151	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthracene-d...	20.765	292	173167	100.00	ng/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.184	82	552	0.74	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.950	172	1559	0.73	ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	9.480	160	3804	-1.00	ng/ml	0.00
26) Terphenyl-d14 (Surr)	12.925	244	1985	0.82	ng/ml	0.00
33) Benzo(a)pyrene d-12 (S...	18.171	264	113	0.06	ng/ml	0.00
Target Compounds						
3) Decalin	7.347	138	50	N.D.		Qvalue
4) Naphthalene	7.901	128	78013	31.30	ng/ml	100
5) 2-Methylnaphthalene	8.583	142	14215	6.73	ng/ml	99
6) 1-Methylnaphthalene	8.682	142	5167	(2.45)	ng/ml	92 <i>j</i>
7) 1,1'-Biphenyl	9.049	154	10326	(3.64)	ng/ml	98 <i>j</i>
8) 2,6-Dimethylnaphthalene	9.212	156	4252	2.05	ng/ml	97
12) Acenaphthylene	9.492	152	52406	16.92	ng/ml	99
13) Acenaphthene	9.667	153	18120	8.93	ng/ml	98
14) Dibenzofuran	9.842	168	3035	1.19	ng/ml	90
15) 1,6,7-Trimethylnaphtha...	10.051	170	2425	1.42	ng/ml	87
16) Fluorene	10.191	166	14538	7.00	ng/ml	99 <i>M</i>
18) Dibenzothiophene	11.037	184	21154	7.88	ng/ml	99
19) Phenanthrene	11.165	178	230219	76.69	ng/ml	99
20) Anthracene	11.217	178	65477	23.45	ng/ml	99
21) Carbazole	11.380	167	5792	(2.56)	ng/ml	92 <i>j</i>
22) 1-Methylphenanthrene	11.771	192	45548	21.84	ng/ml	75
23) Fluoranthene	12.435	202	534210	176.62	ng/ml	97
25) Pyrene	12.727	202	694824	192.46	ng/ml	100
27) Benz(a)anthracene	14.883	228	196286	73.16	ng/ml#	48
28) Chrysene	14.965	228	209184	82.39	ng/ml	98
30) Benzo(b)fluoranthene	17.471	252	248165	94.68	ng/ml	94
31) Benzo(k)fluoranthene	17.471	252	311993	120.90	ng/ml	92
32) Benzo(b+k)fluoranthene	17.471	252	344618	128.54	ng/ml	92 <i>M - MDS</i>
34) Benzo(e)pyrene	18.118	252	166130	62.68	ng/ml	99
35) Benzo(a)pyrene	18.241	252	254824	113.59	ng/ml	97
36) Perylene	18.433	252	70122	25.38	ng/ml	98
38) Indeno(1,2,3-cd)Pyrene	20.765	276	158624	74.27	ng/ml	85
39) Dibenz(a,h)anthracene	20.829	278	19244	9.59	ng/ml	94
40) Benzo(g,h,i)perylene	21.301	276	202358	89.32	ng/ml	87

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J02028\
 Data File : N10021910.D
 Acq On : 02 Oct 2019 07:23 pm
 Operator : JK/ AMS/ DTH
 Sample : A9I0771-05RE3@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 04 09:58:41 2019
 Quant Method : R:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(4) Naphthalene (T)

7.901min (-0.006) 31.30 ng/ml

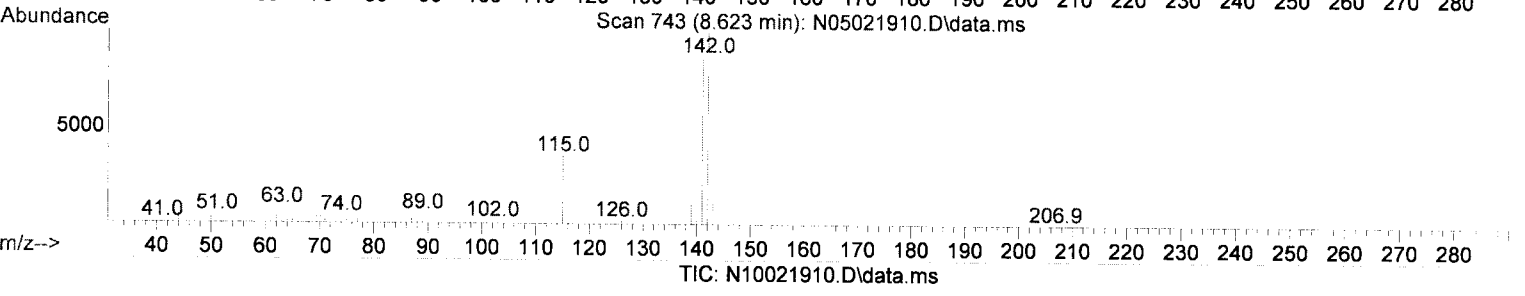
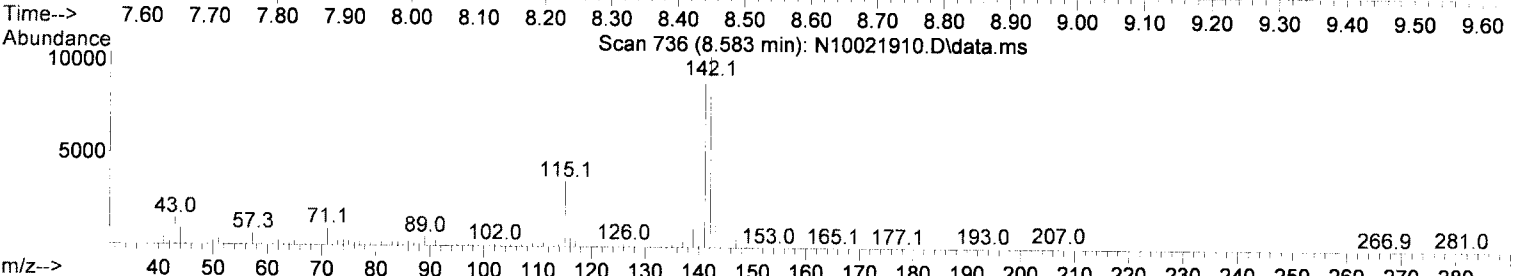
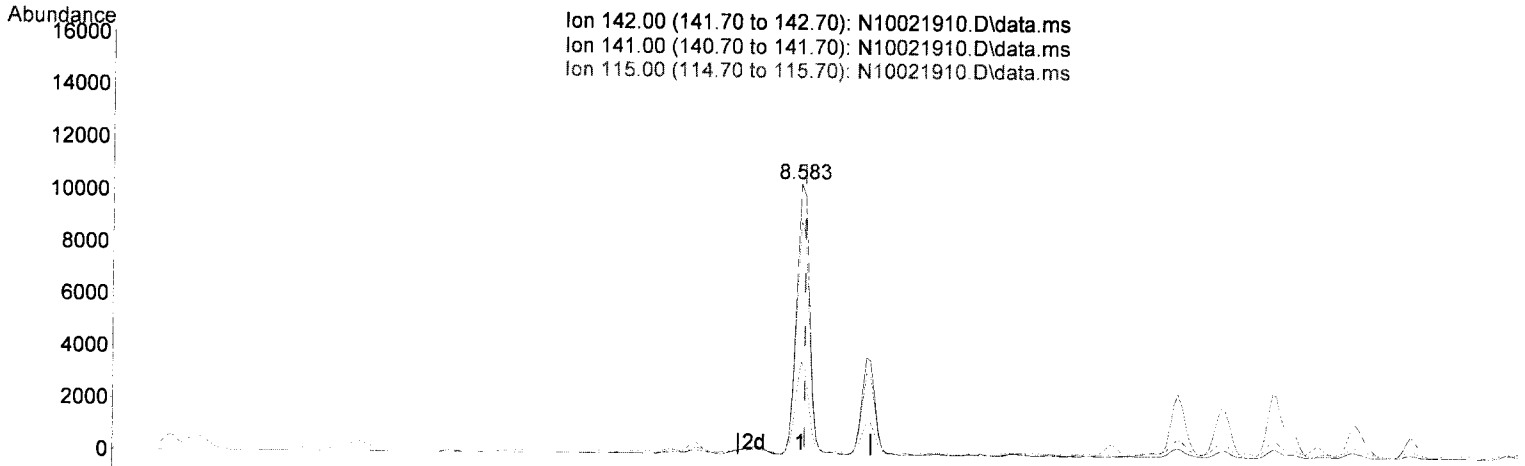
response 78013

Ion	Exp%	Act%
128.00	100.00	100.00
127.00	12.60	12.64
127.00	12.60	12.64
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J02028\
 Data File : N10021910.D
 Acq On : 02 Oct 2019 07:23 pm
 Operator : JK/ AMS/ DTH
 Sample : A9I0771-05RE3@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 04 09:58:41 2019
 Quant Method : R:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(5) 2-Methylnaphthalene (T)

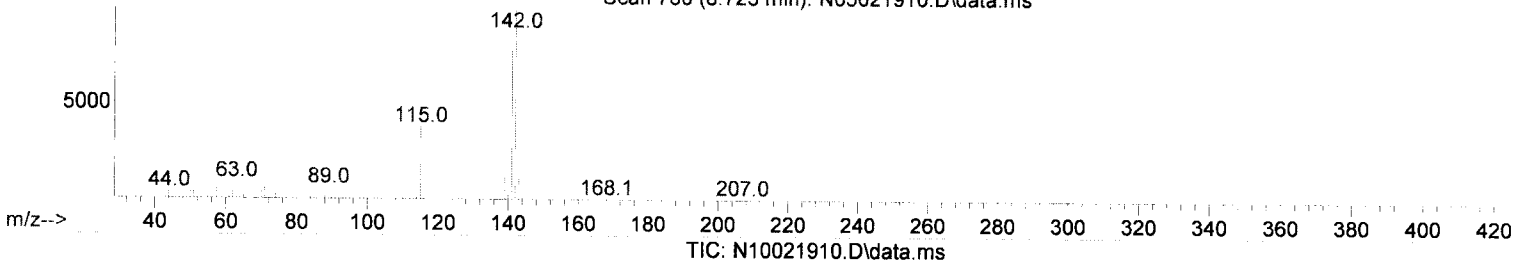
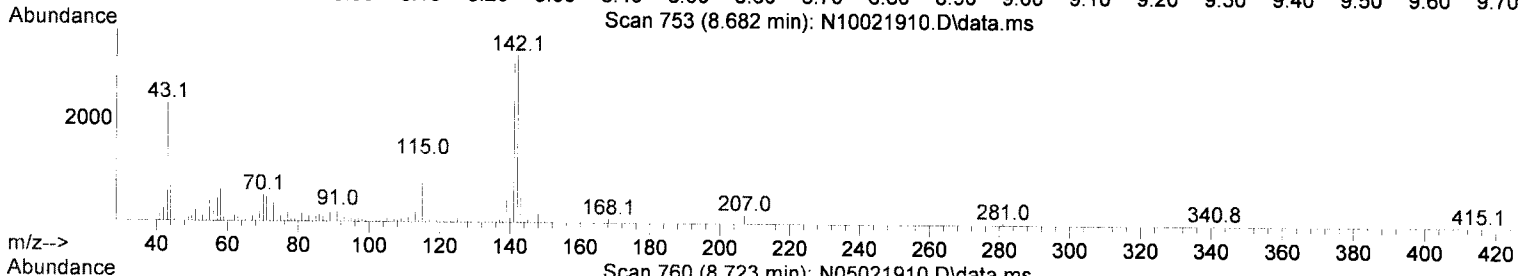
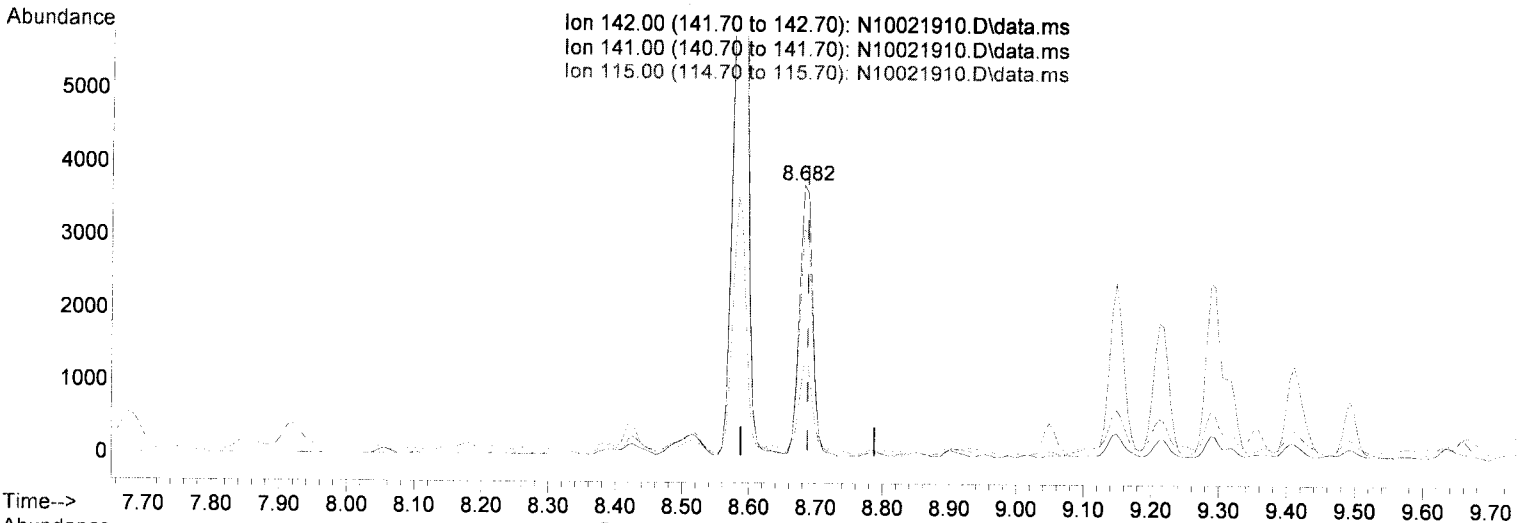
8.583min (-0.006) 6.73 ng/ml

response	14215
Ion	Exp% Act%
142.00	100.00 100.00
141.00	86.60 85.88
115.00	35.70 34.25
0.00	0.00 0.00

Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J02028\
 Data File : N10021910.D
 Acq On : 02 Oct 2019 07:23 pm
 Operator : JK/ AMS/ DTH
 Sample : A9I0771-05RE3@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 04 09:58:41 2019
 Quant Method : R:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(6) 1-Methylnaphthalene (T)

8.682min (-0.006) 2.45 ng/ml

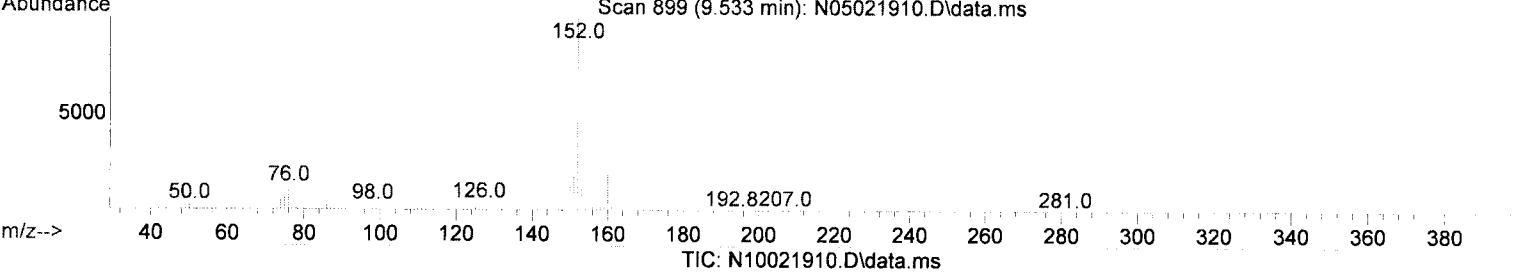
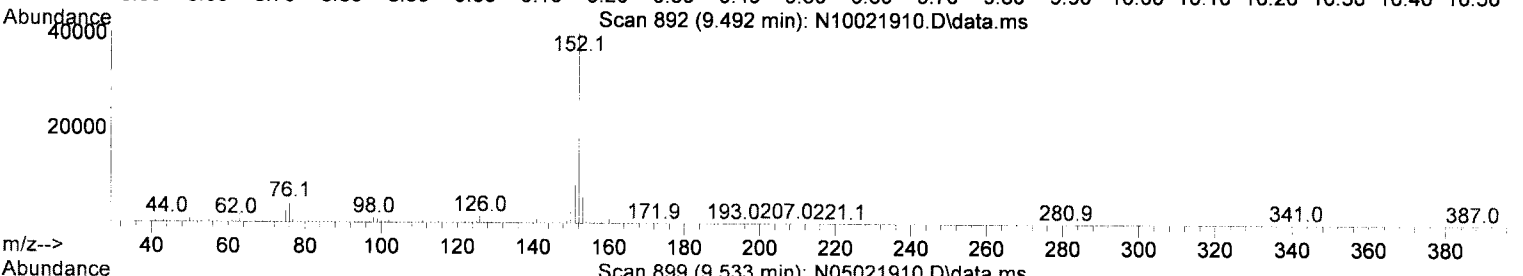
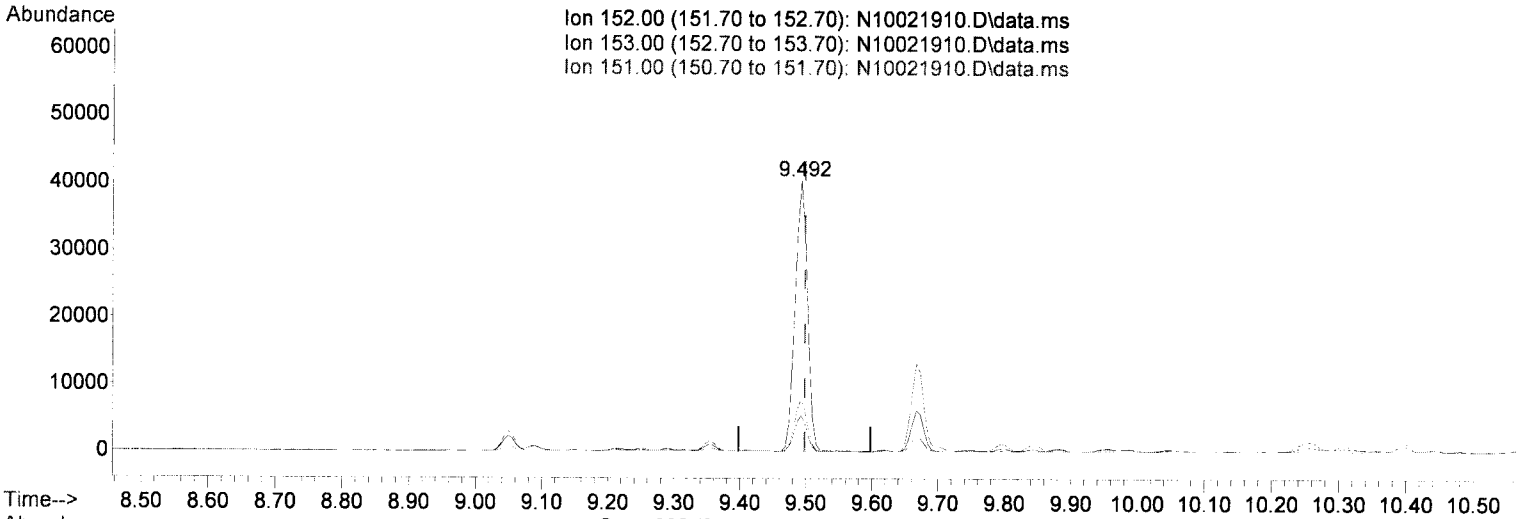
response 5167

Ion	Exp%	Act%
142.00	100.00	100.00
141.00	90.70	83.40
115.00	37.80	33.55
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J02028\
 Data File : N10021910.D
 Acq On : 02 Oct 2019 07:23 pm
 Operator : JK/ AMS/ DTH
 Sample : A9I0771-05RE3@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 04 09:58:41 2019
 Quant Method : R:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(12) Acenaphthylene (T)

9.492min (-0.006) 16.92 ng/ml

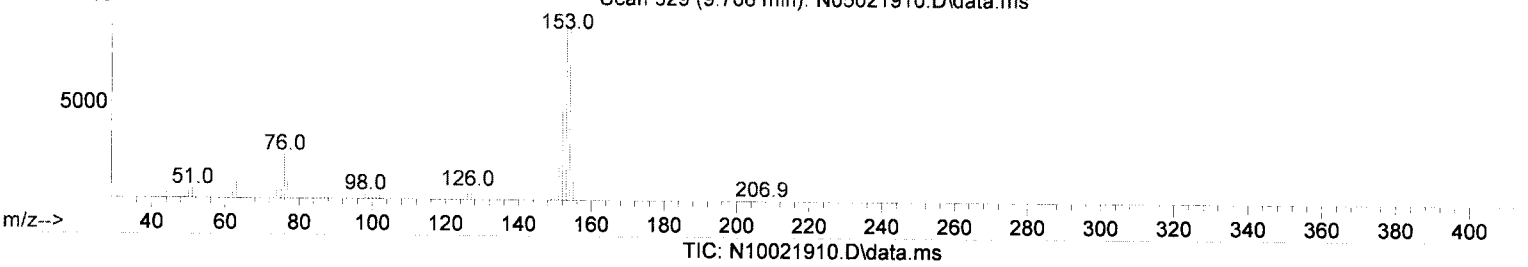
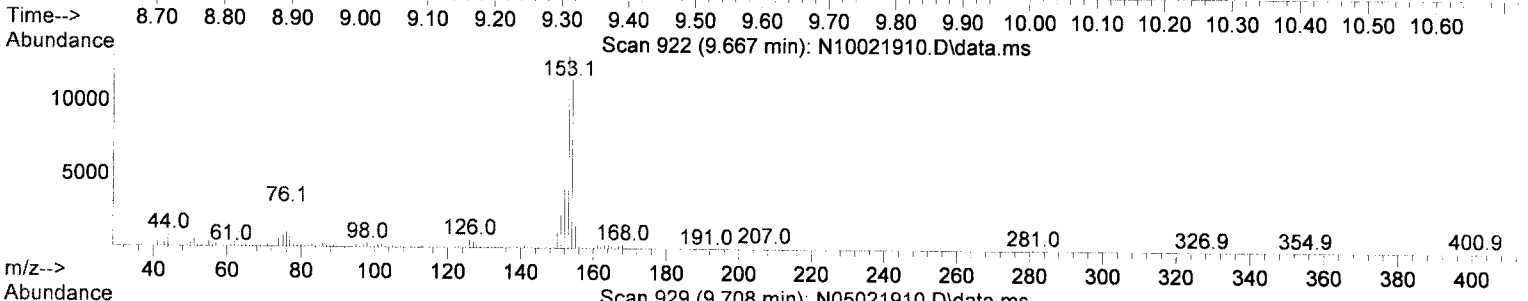
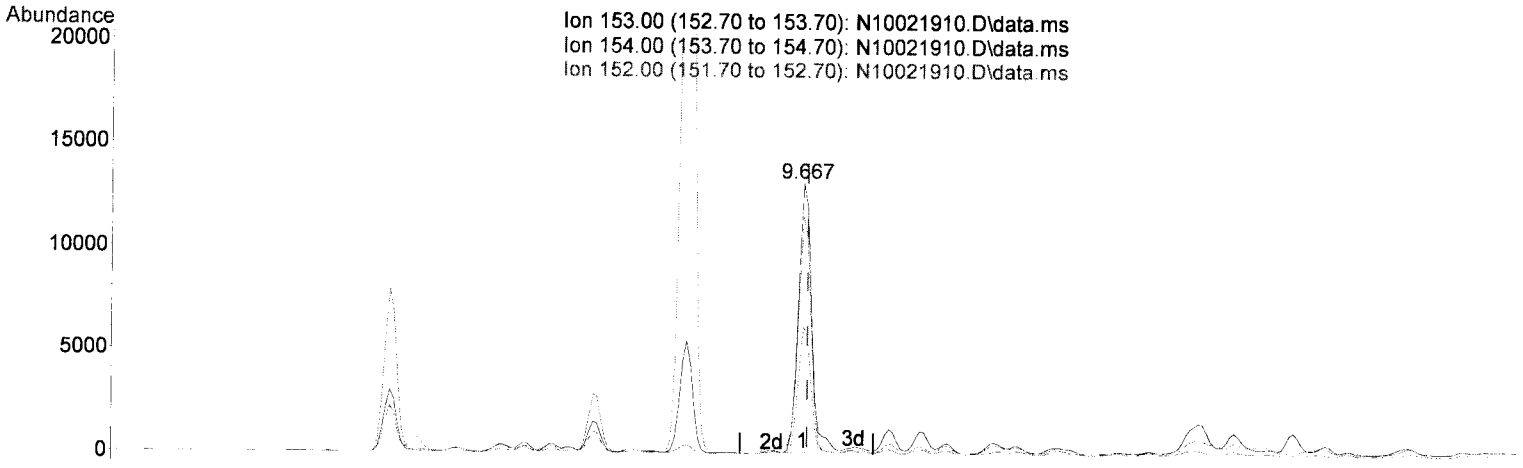
response 52406

Ion	Exp%	Act%
152.00	100.00	100.00
153.00	12.70	13.45
151.00	19.30	19.63
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J02028\
 Data File : N10021910.D
 Acq On : 02 Oct 2019 07:23 pm
 Operator : JK/ AMS/ DTH
 Sample : A9I0771-05RE3@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 04 09:58:41 2019
 Quant Method : R:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(13) Acenaphthene (T)

9.667min (-0.006) 8.93 ng/ml

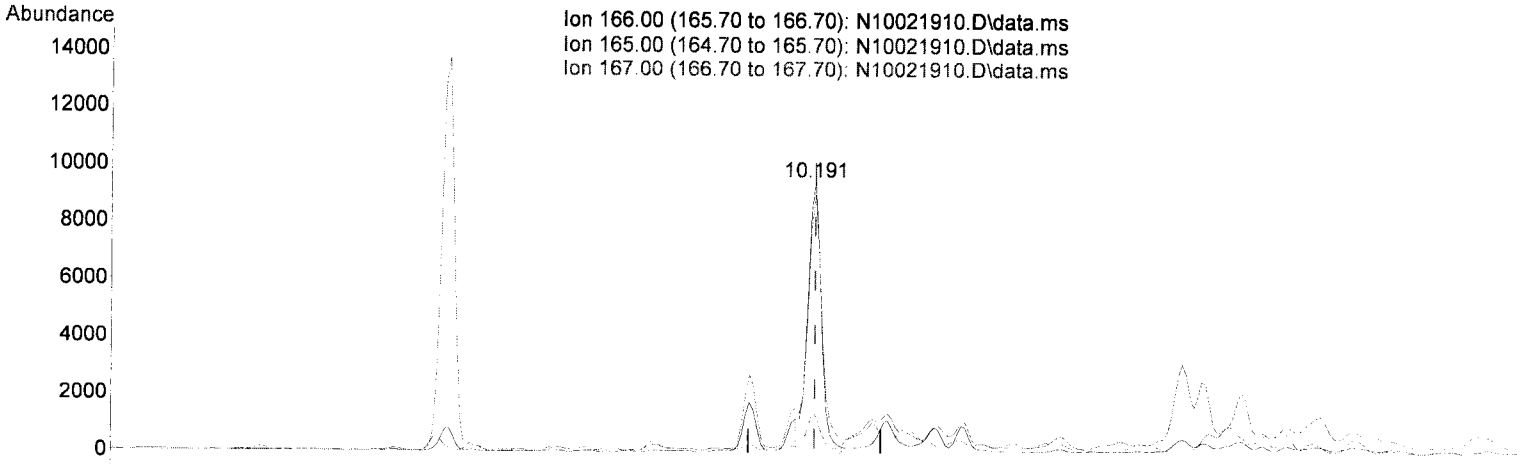
response 18120

Ion	Exp%	Act%
153.00	100.00	100.00
154.00	90.70	87.61
152.00	46.80	46.95
0.00	0.00	0.00

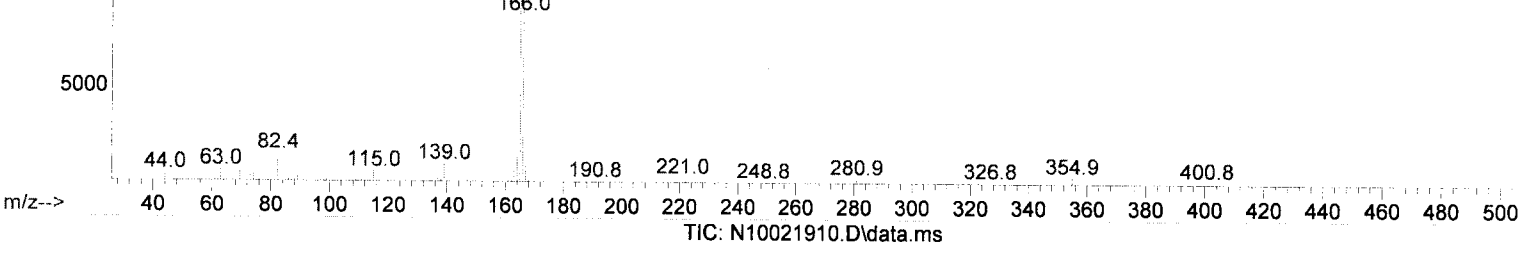
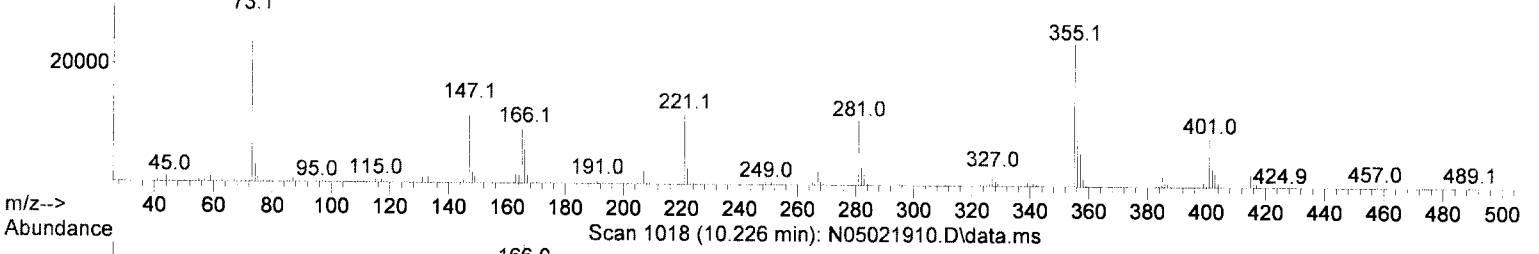
Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J02028\
 Data File : N10021910.D
 Acq On : 02 Oct 2019 07:23 pm
 Operator : JK/ AMS/ DTH
 Sample : A9I0771-05RE3@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 04 09:58:41 2019
 Quant Method : R:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



Time--> 9.20 9.30 9.40 9.50 9.60 9.70 9.80 9.90 10.00 10.10 10.20 10.30 10.40 10.50 10.60 10.70 10.80 10.90 11.00 11.10 11.20
 Abundance
 Scan 1012 (10.191 min): N10021910.D\data.ms



(16) Fluorene (T)

10.191min (-0.000) 6.69 ng/ml *(m)* *KAM 10/4/19*

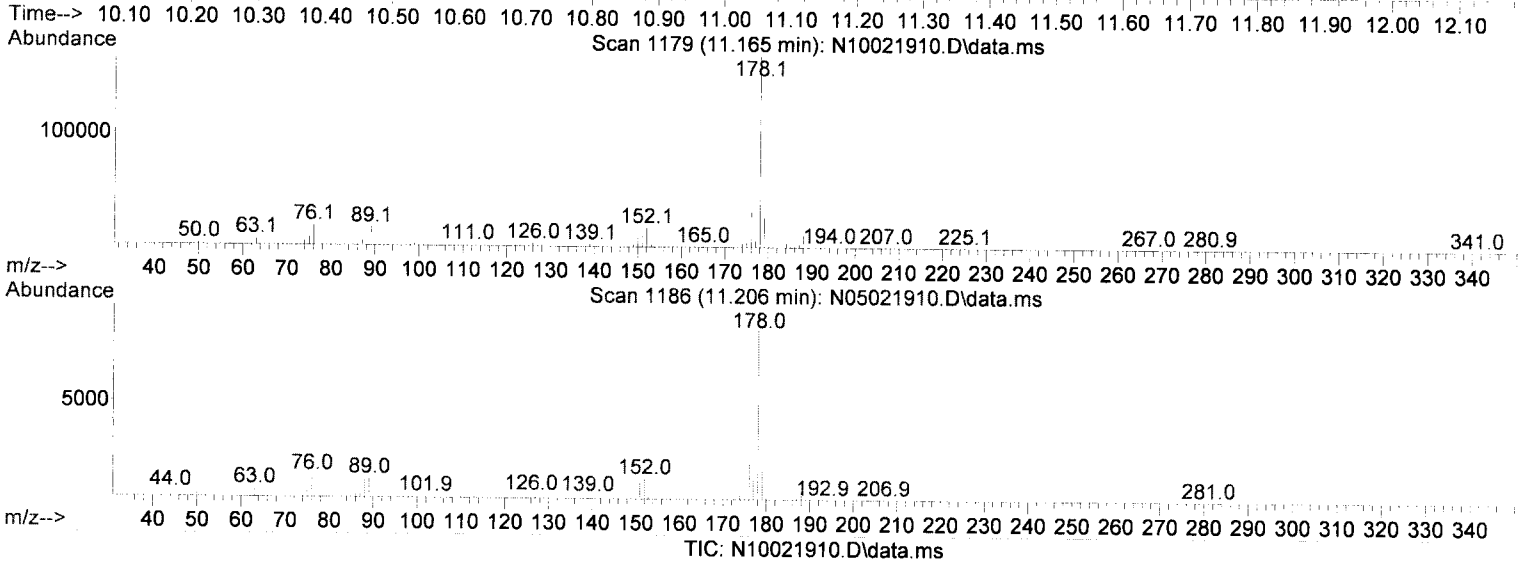
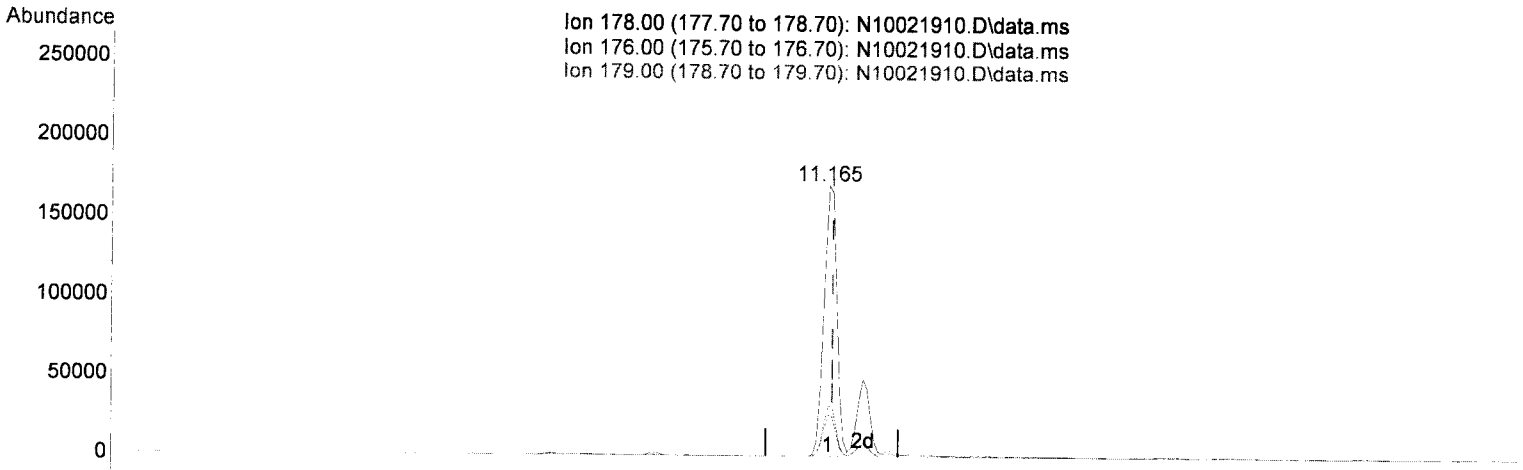
response 13883

Ion	Exp%	Act%
166.00	100.00	100.00
165.00	95.70	95.06
167.00	13.60	14.30
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J02028\
 Data File : N10021910.D
 Acq On : 02 Oct 2019 07:23 pm
 Operator : JK/ AMS/ DTH
 Sample : A9I0771-05RE3@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 04 09:58:41 2019
 Quant Method : R:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(19) Phenanthrene (T)

11.165min (-0.006) 76.69 ng/ml

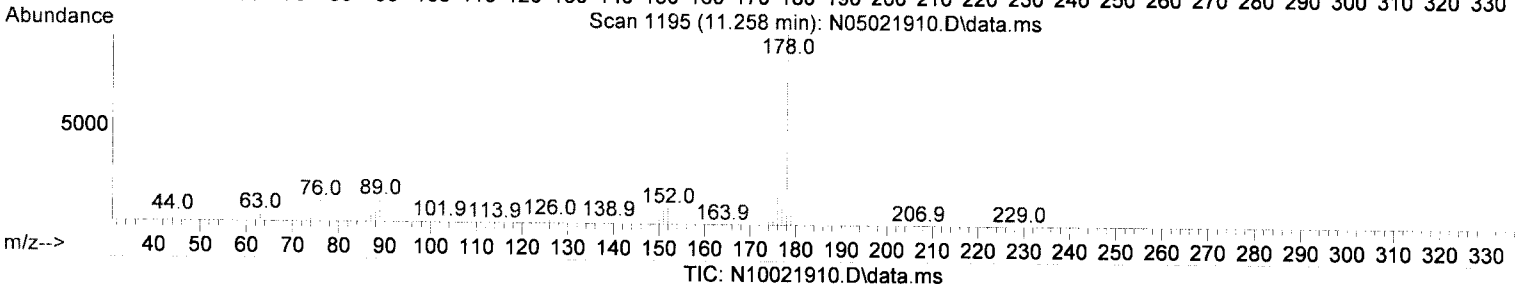
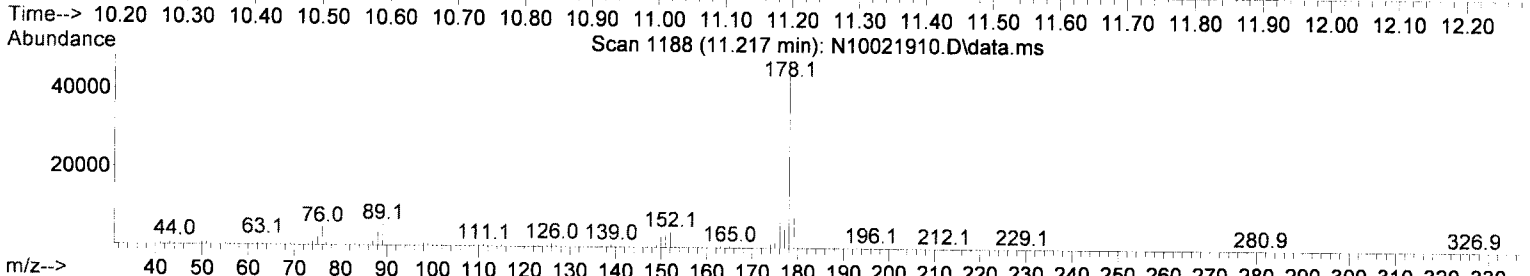
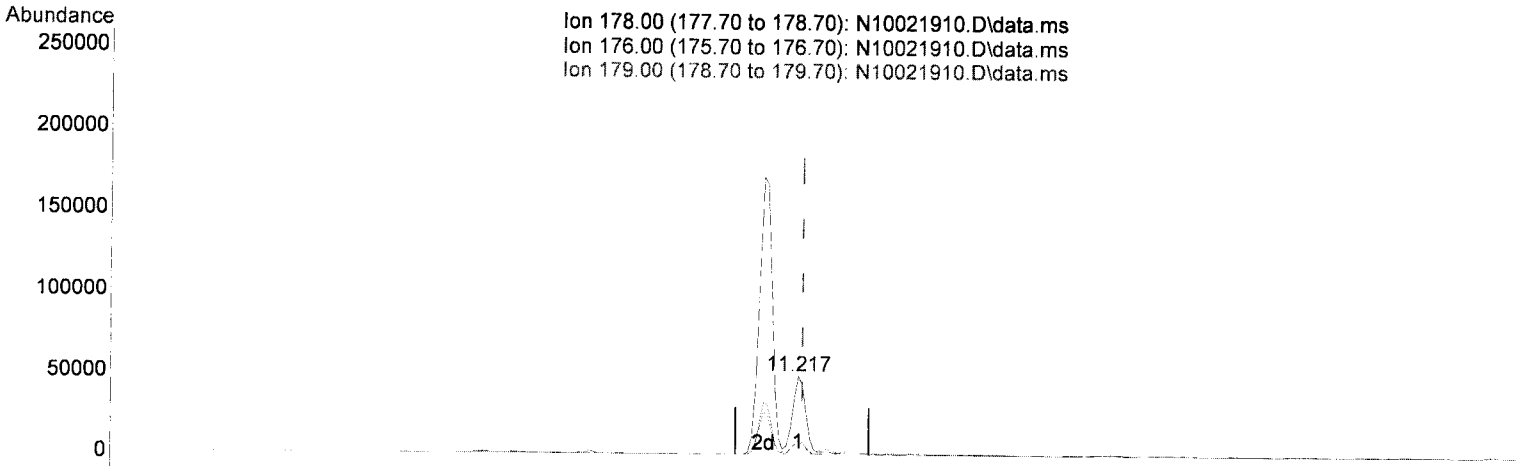
response 230219

Ion	Exp%	Act%
178.00	100.00	100.00
176.00	19.00	18.79
179.00	15.10	15.45
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J02028\
 Data File : N10021910.D
 Acq On : 02 Oct 2019 07:23 pm
 Operator : JK/ AMS/ DTH
 Sample : A9I0771-05RE3@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 04 09:58:41 2019
 Quant Method : R:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(20) Anthracene (T)

11.217min (-0.006) 23.45 ng/ml

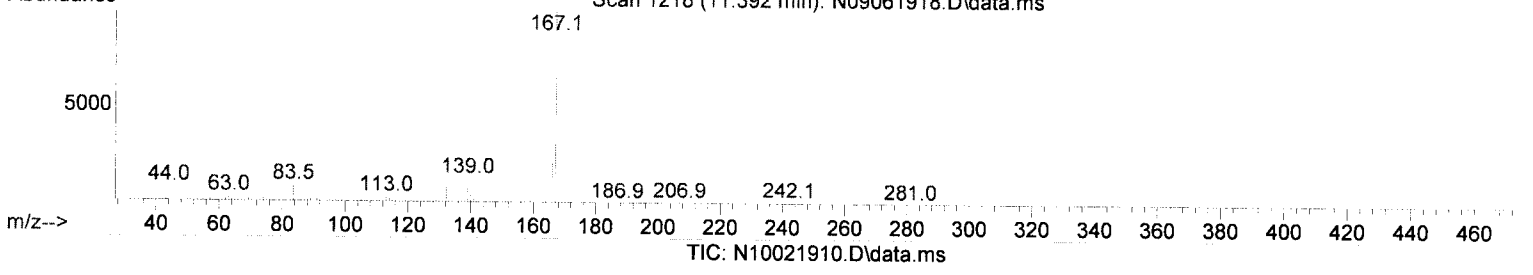
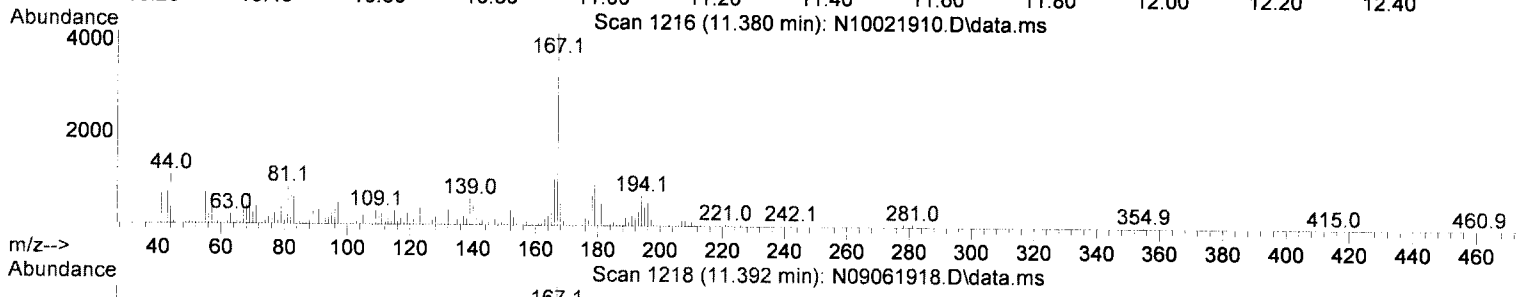
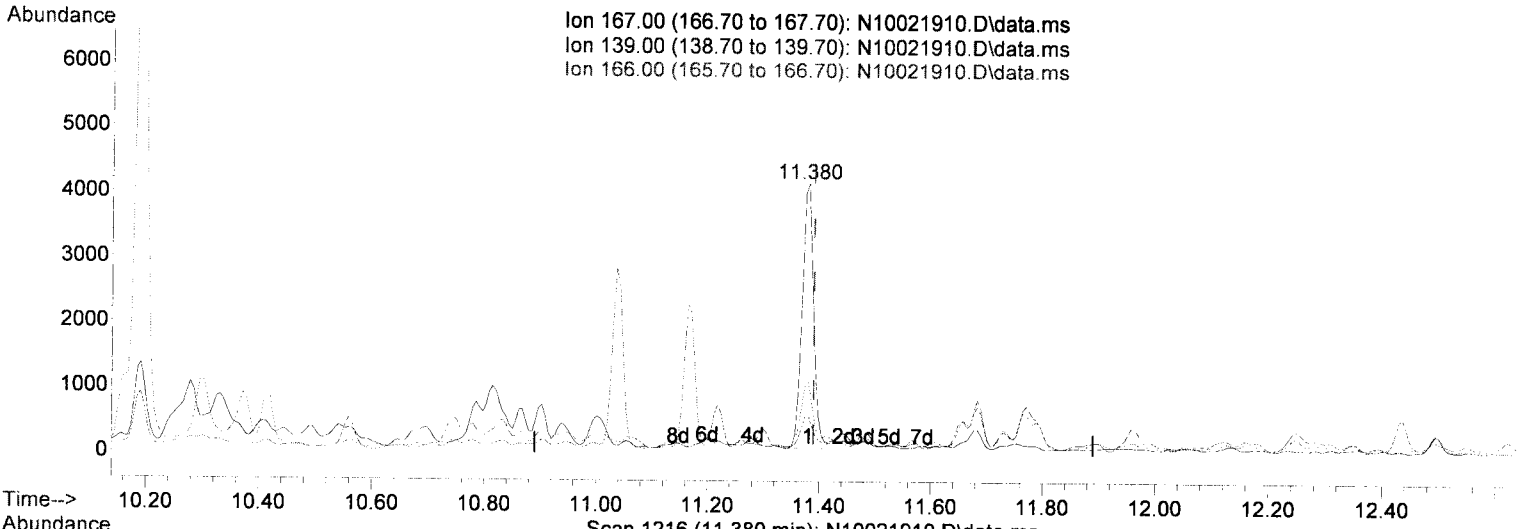
response 65477

Ion	Exp%	Act%
178.00	100.00	100.00
176.00	18.90	18.70
179.00	15.30	15.86
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J02028\
 Data File : N10021910.D
 Acq On : 02 Oct 2019 07:23 pm
 Operator : JK/ AMS/ DTH
 Sample : A9I0771-05RE3@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 04 09:58:41 2019
 Quant Method : R:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(21) Carbazole (T)

11.380min (-0.010) 2.56 ng/ml

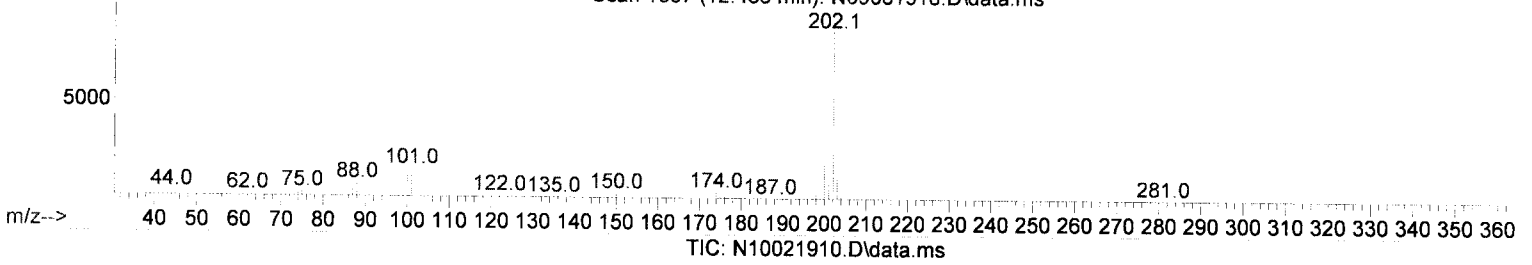
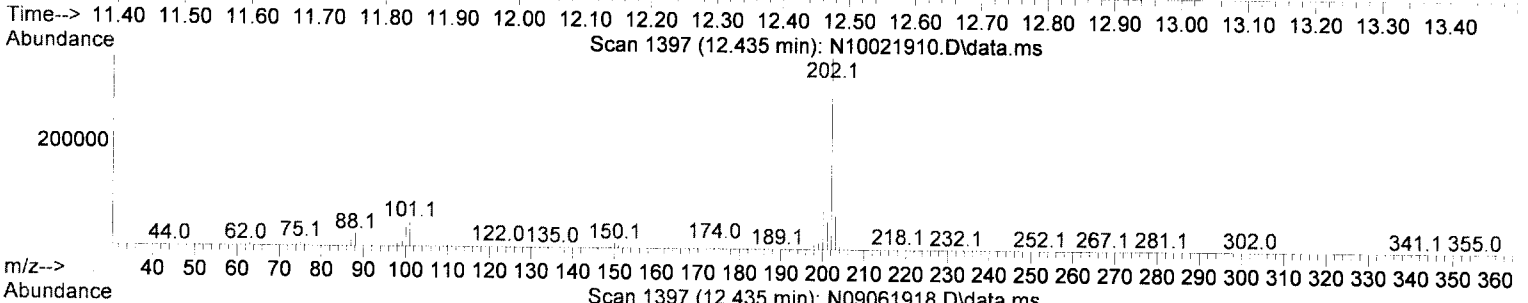
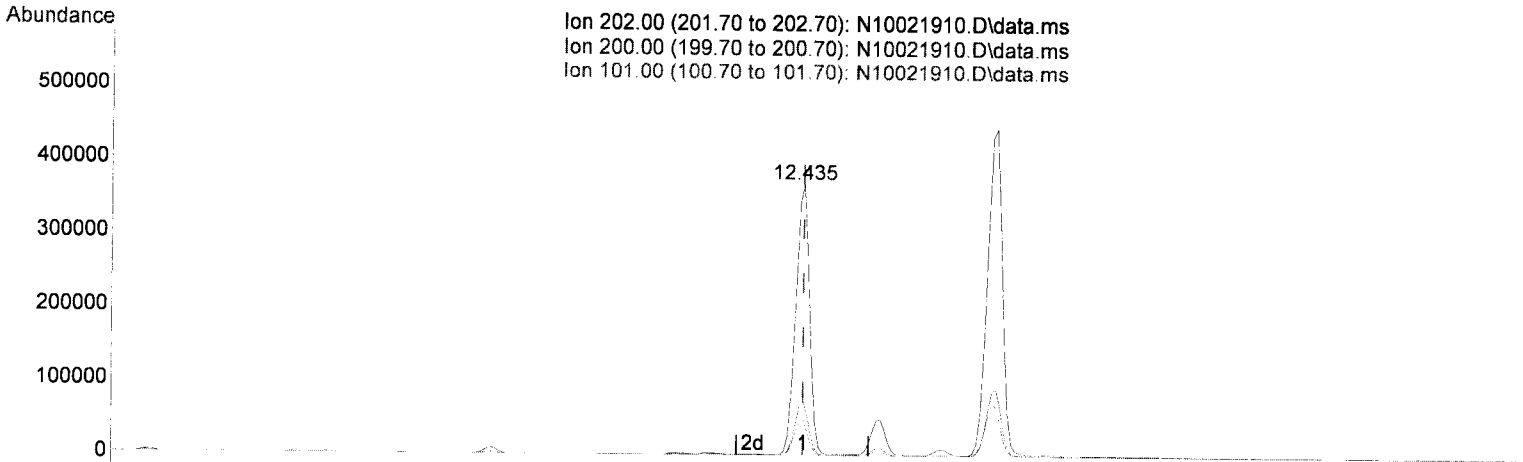
response 5792

Ion	Exp%	Act%
167.00	100.00	100.00
139.00	13.50	14.21
166.00	21.10	26.53
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J02028\
 Data File : N10021910.D
 Acq On : 02 Oct 2019 07:23 pm
 Operator : JK/ AMS/ DTH
 Sample : A9I0771-05RE3@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 04 09:58:41 2019
 Quant Method : R:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(23) Fluoranthene (T)

12.435min (+ 0.000) 176.62 ng/ml

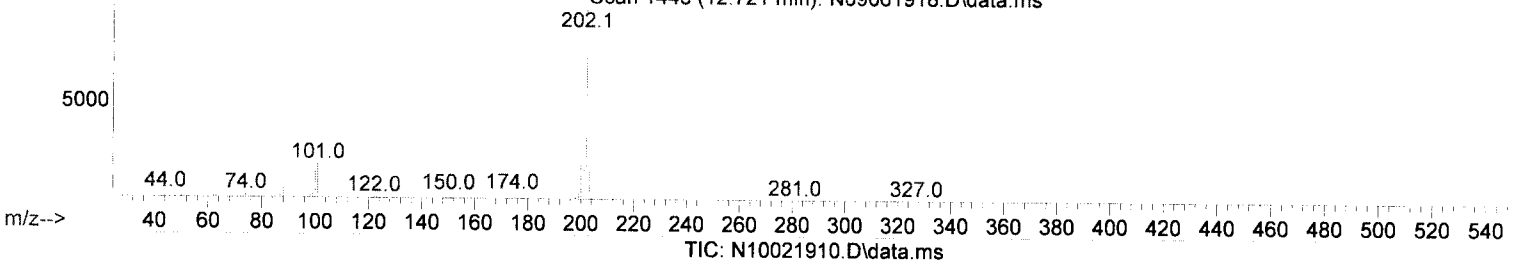
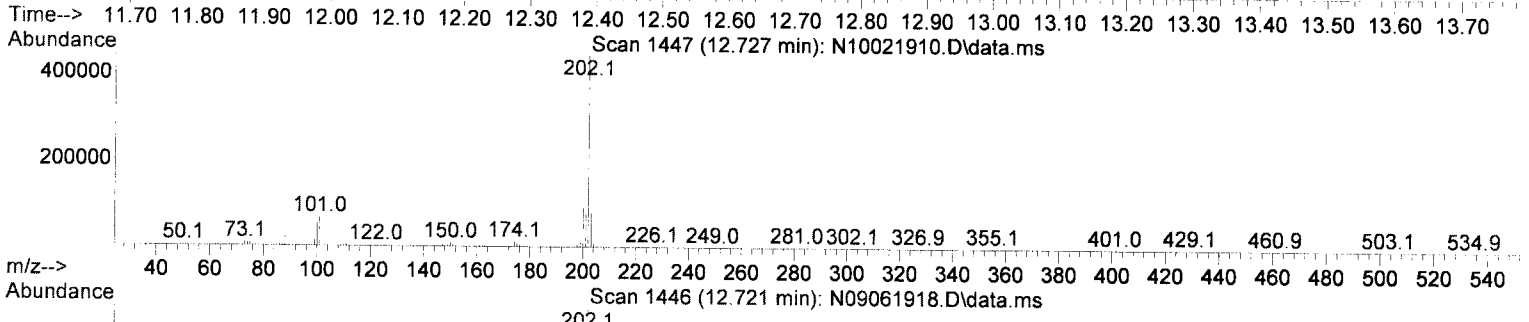
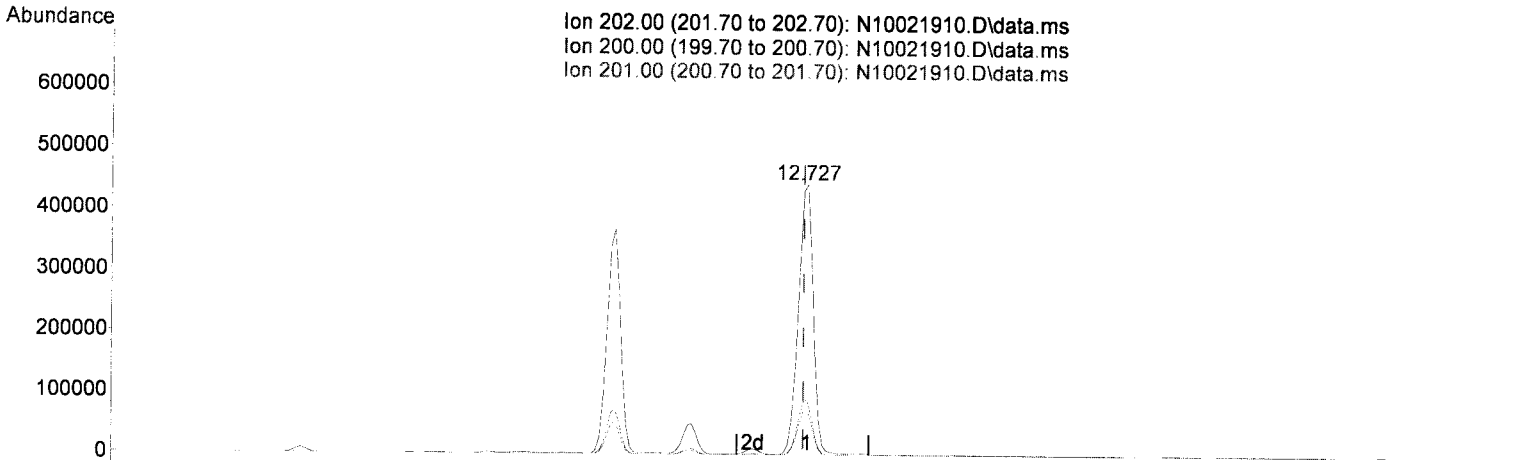
response 534210

Ion	Exp%	Act%
202.00	100.00	100.00
200.00	19.70	19.93
101.00	15.30	13.03
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J02028\
 Data File : N10021910.D
 Acq On : 02 Oct 2019 07:23 pm
 Operator : JK/ AMS/ DTH
 Sample : A9I0771-05RE3@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 04 09:58:41 2019
 Quant Method : R:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(25) Pyrene (T)

12.727min (+ 0.006) 192.46 ng/ml

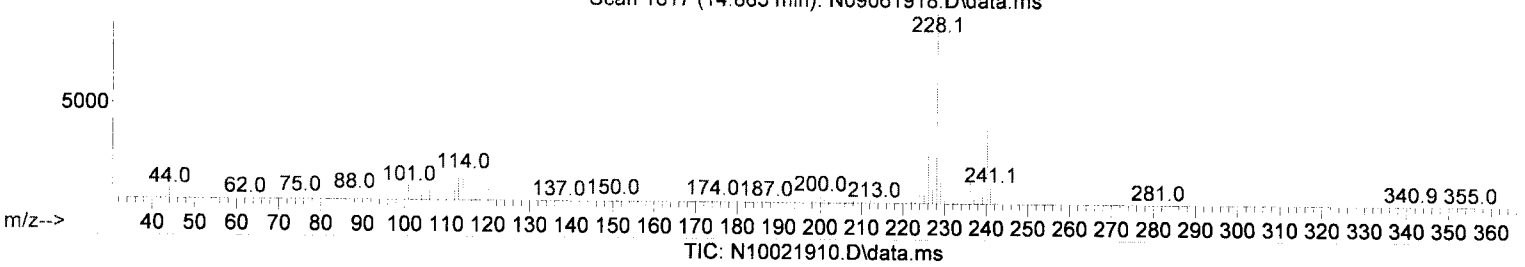
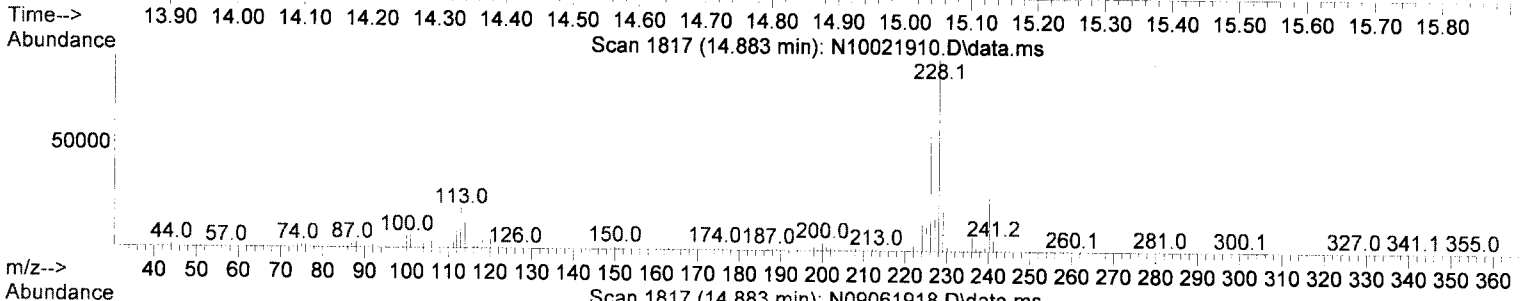
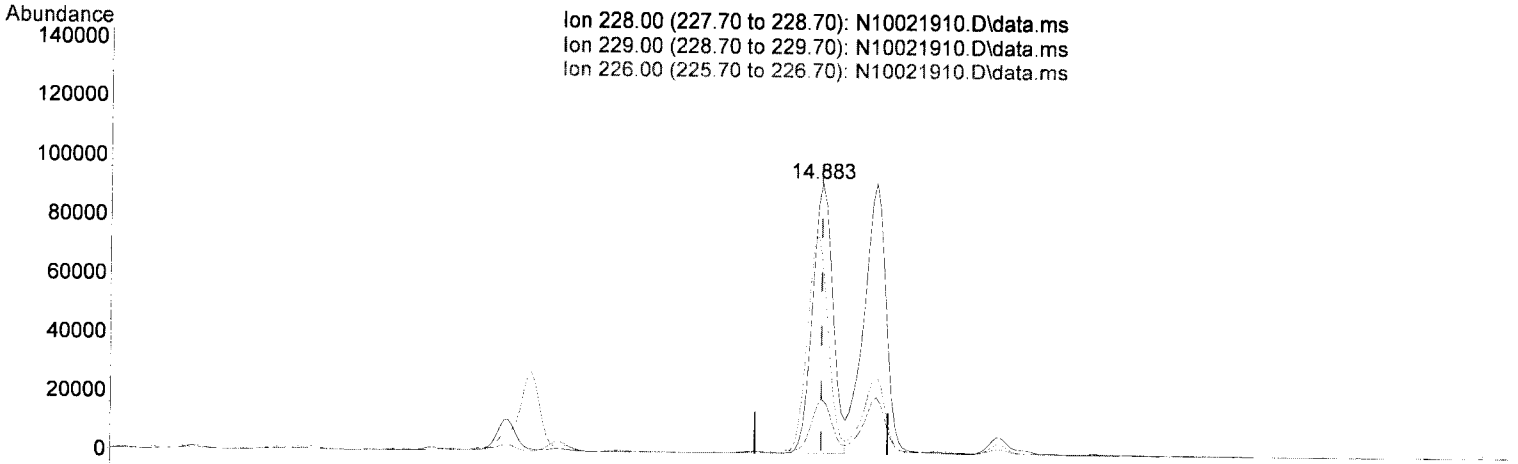
response 694824

Ion	Exp%	Act%
202.00	100.00	100.00
200.00	20.70	20.47
201.00	16.80	16.84
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J02028\
 Data File : N10021910.D
 Acq On : 02 Oct 2019 07:23 pm
 Operator : JK/ AMS/ DTH
 Sample : A9I0771-05RE3@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 04 09:58:41 2019
 Quant Method : R:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(27) Benz(a)anthracene (T)

14.883min (+ 0.000) 73.16 ng/ml

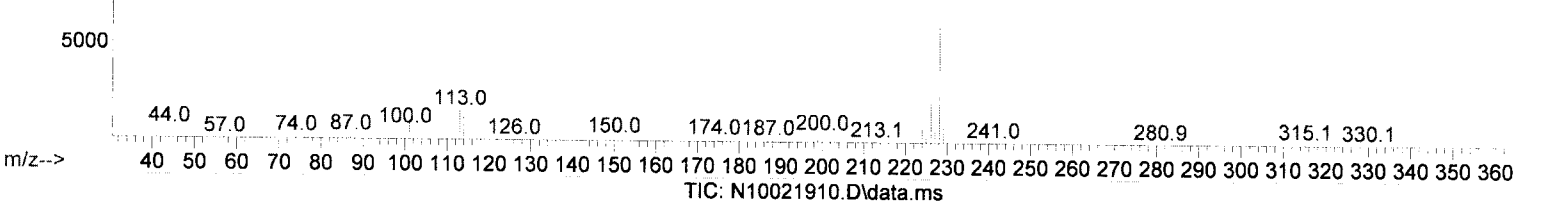
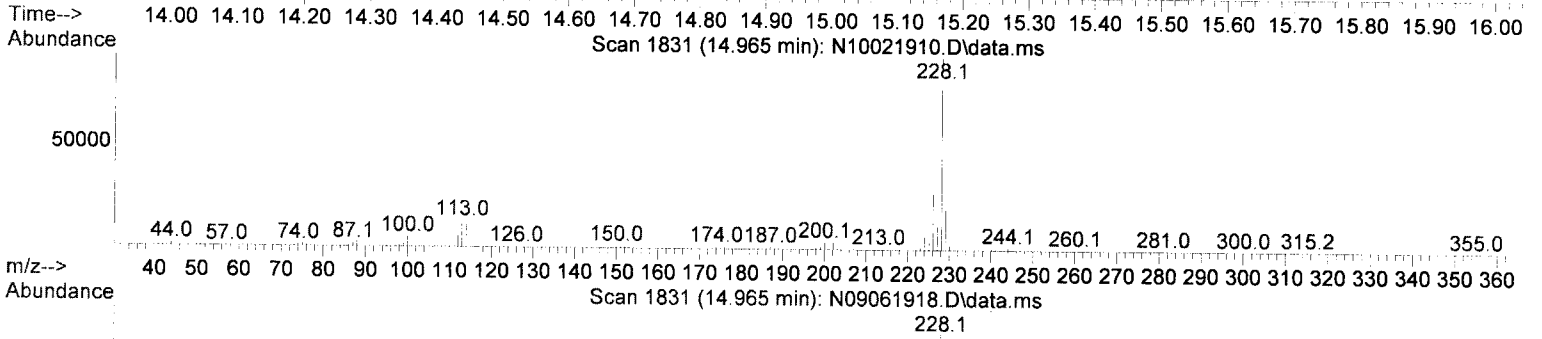
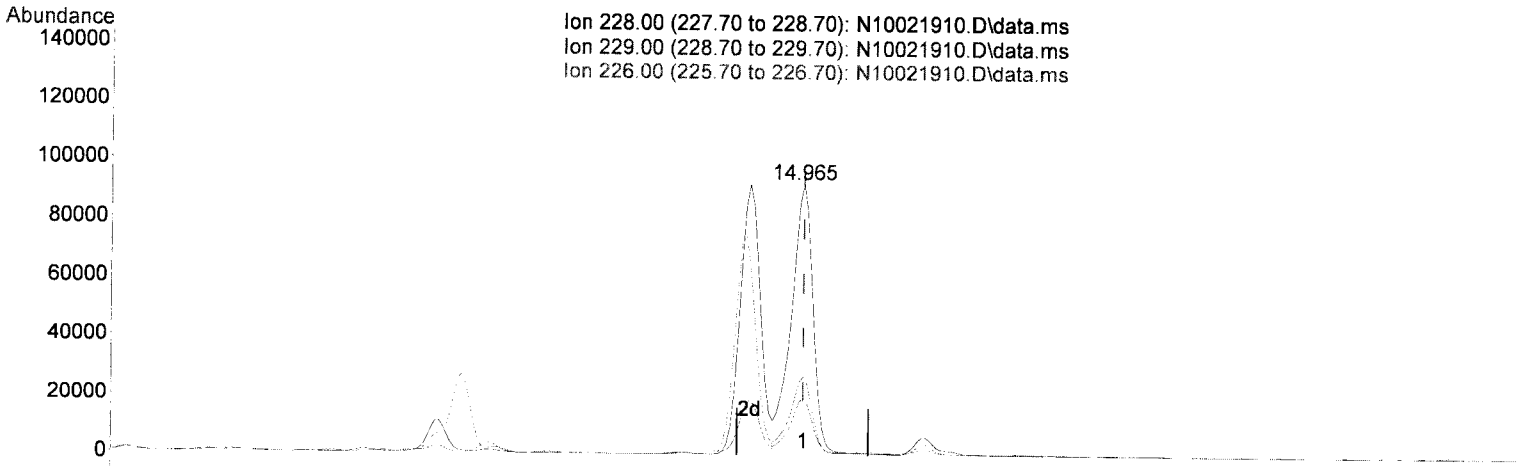
response 196286

Ion	Exp%	Act%
228.00	100.00	100.00
229.00	19.40	20.26
226.00	26.20	72.09#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J02028\
 Data File : N10021910.D
 Acq On : 02 Oct 2019 07:23 pm
 Operator : JK/ AMS/ DTH
 Sample : A9I0771-05RE3@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 04 09:58:41 2019
 Quant Method : R:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(28) Chrysene (T)

14.965min (+ 0.000) 82.39 ng/ml

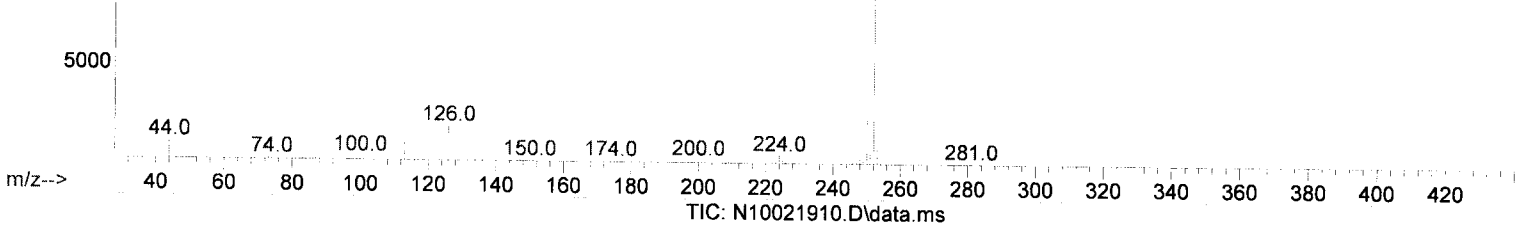
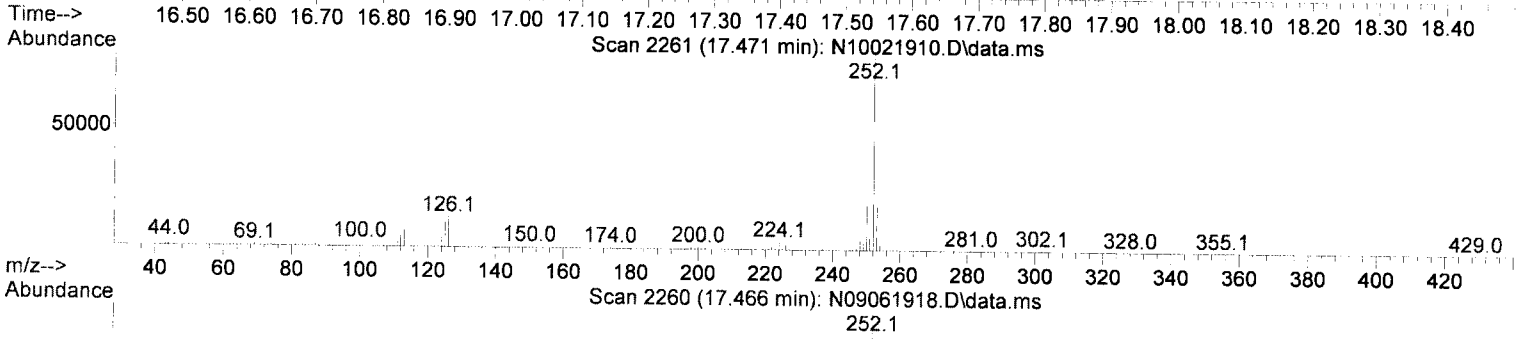
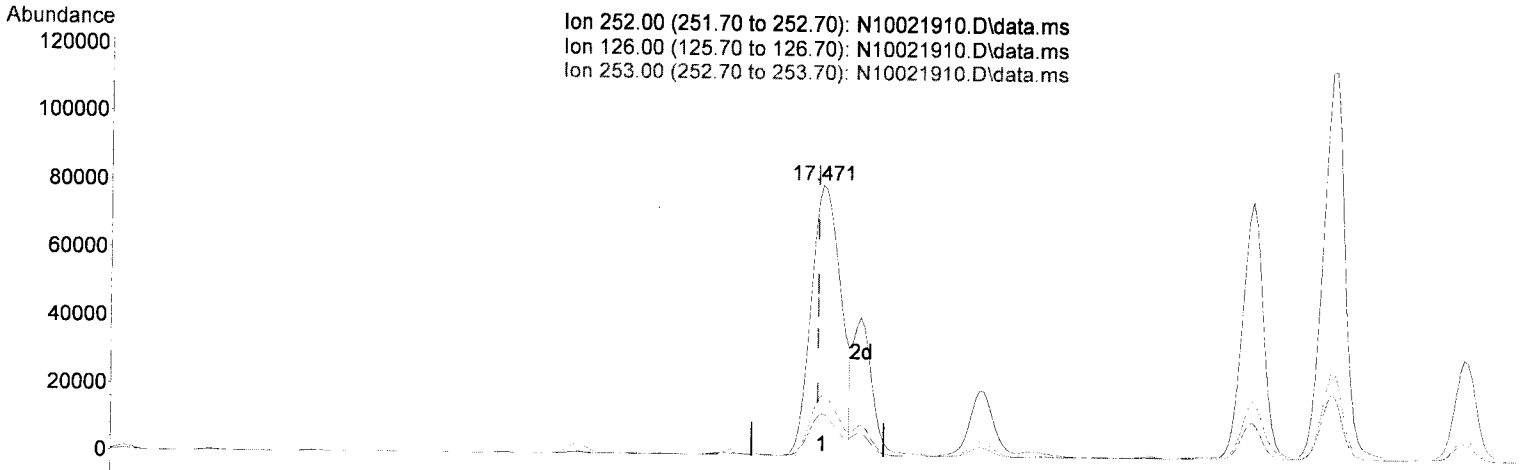
response 209184

Ion	Exp%	Act%
228.00	100.00	100.00
229.00	19.60	21.25
226.00	28.60	29.26
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J02028\
 Data File : N10021910.D
 Acq On : 02 Oct 2019 07:23 pm
 Operator : JK/ AMS/ DTH
 Sample : A9I0771-05RE3@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 04 09:58:41 2019
 Quant Method : R:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(30) Benzo (b) fluoranthene (T)

17.471min (+ 0.006) 94.68 ng/ml

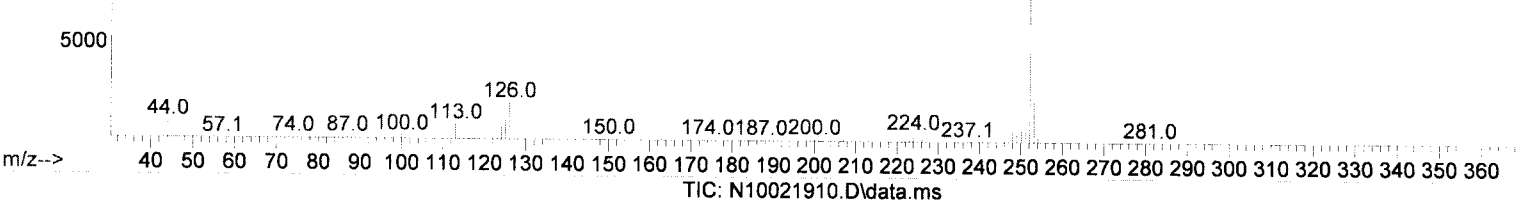
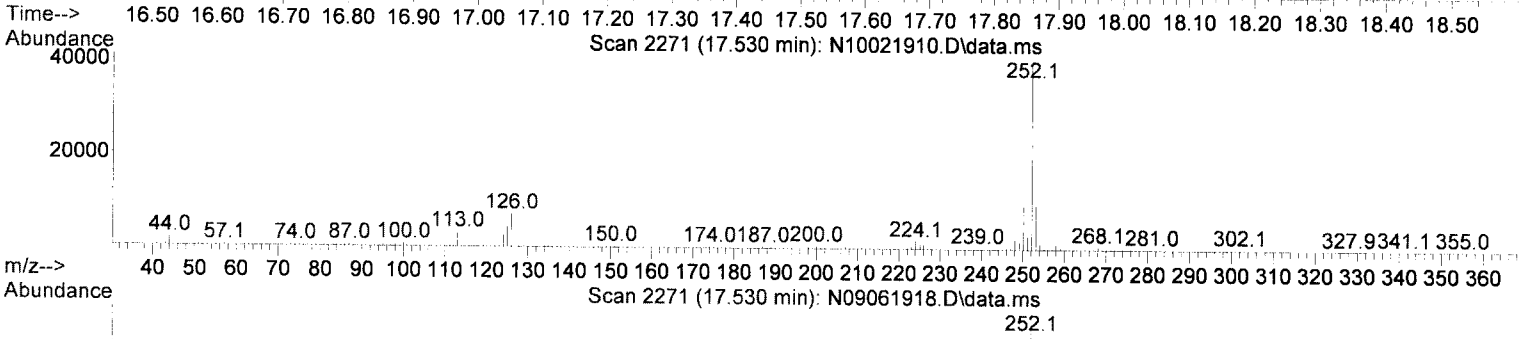
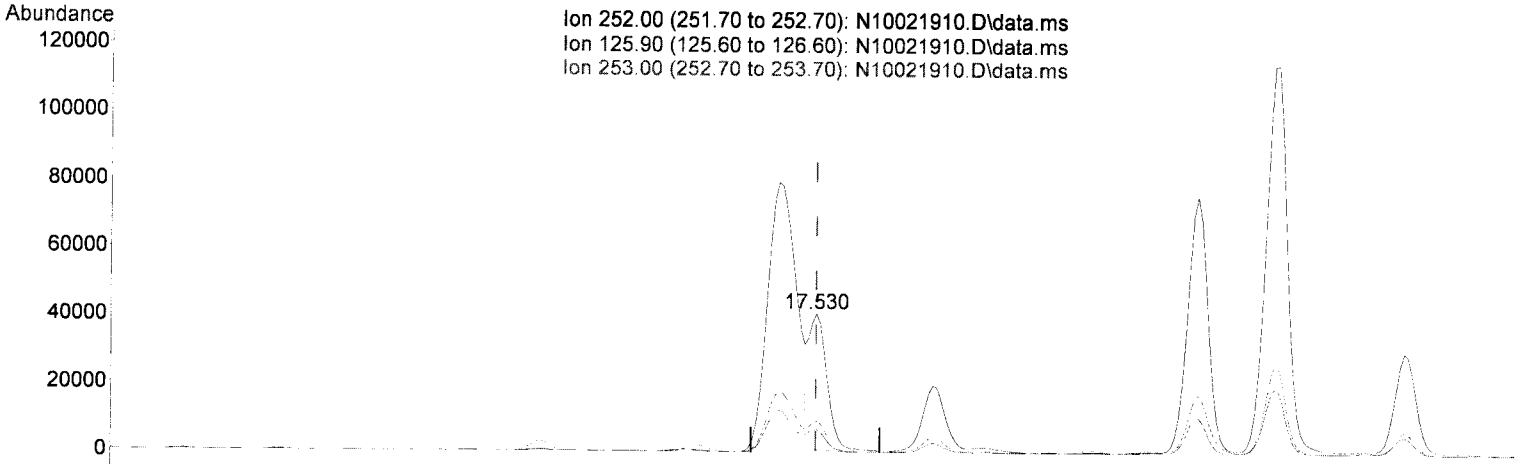
response 248165

Ion	Exp%	Act%
252.00	100.00	100.00
126.00	20.00	15.86
253.00	21.10	22.55
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J02028\
 Data File : N10021910.D
 Acq On : 02 Oct 2019 07:23 pm
 Operator : JK/ AMS/ DTH
 Sample : A9I0771-05RE3@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 04 09:58:41 2019
 Quant Method : R:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(31) Benzo(k)fluoranthene (T)

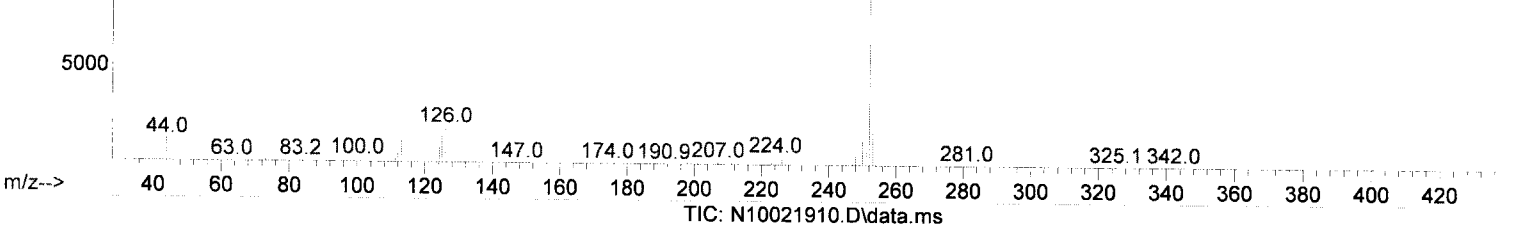
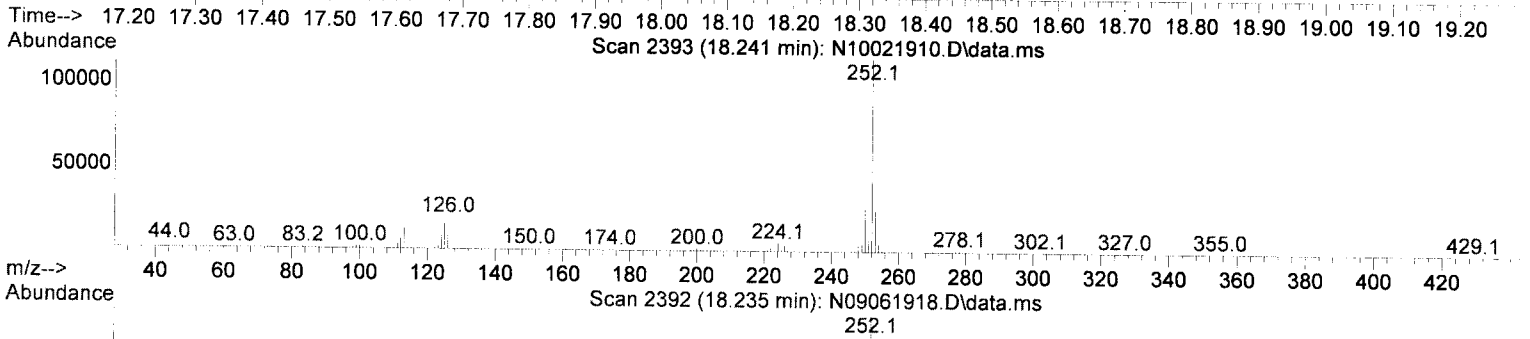
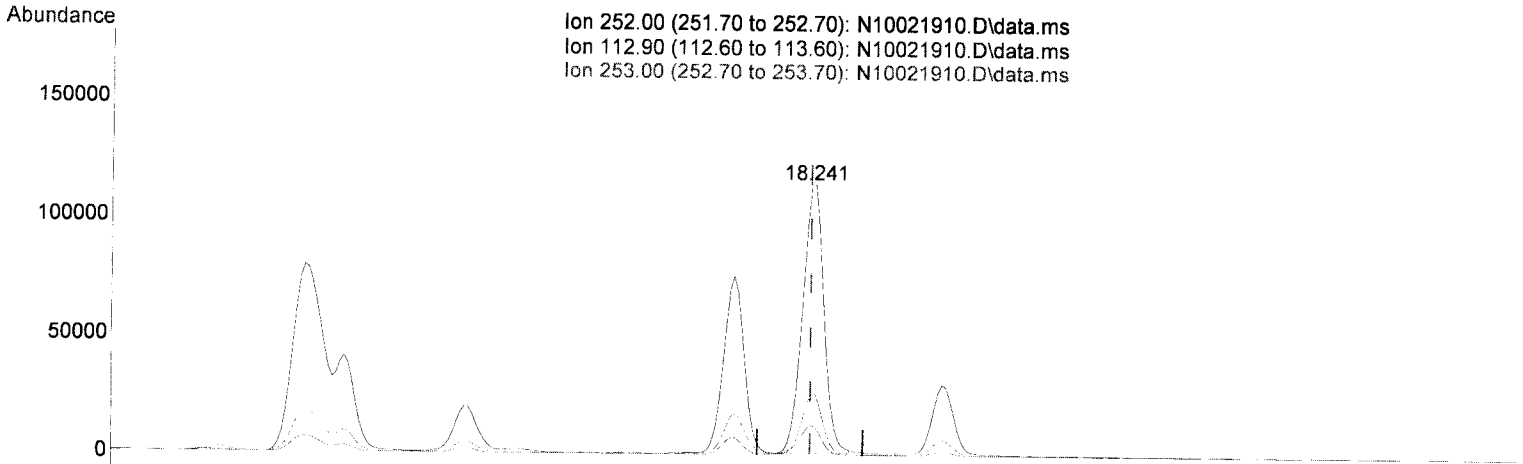
17.530min (+ 0.001)	30.73 ng/ml	
response	79291	
Ion	Exp%	Act%
252.00	100.00	100.00
125.90	22.10	17.32
253.00	21.50	23.14
0.00	0.00	0.00

kam 10/4/19
MI MOS ✓

Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J02028\
 Data File : N10021910.D
 Acq On : 02 Oct 2019 07:23 pm
 Operator : JK/ AMS/ DTH
 Sample : A9I0771-05RE3@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 04 09:58:41 2019
 Quant Method : R:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(35) Benzo(a)pyrene (T)

18.241min (+ 0.007) 113.59 ng/ml

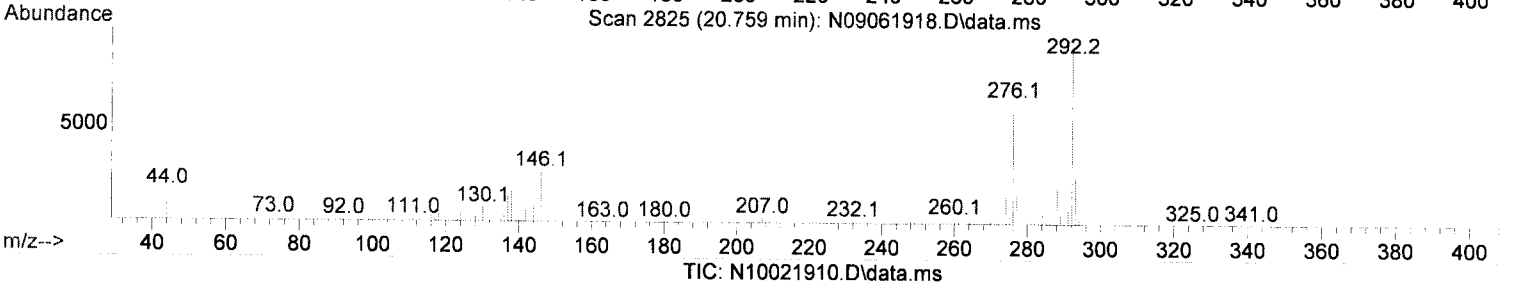
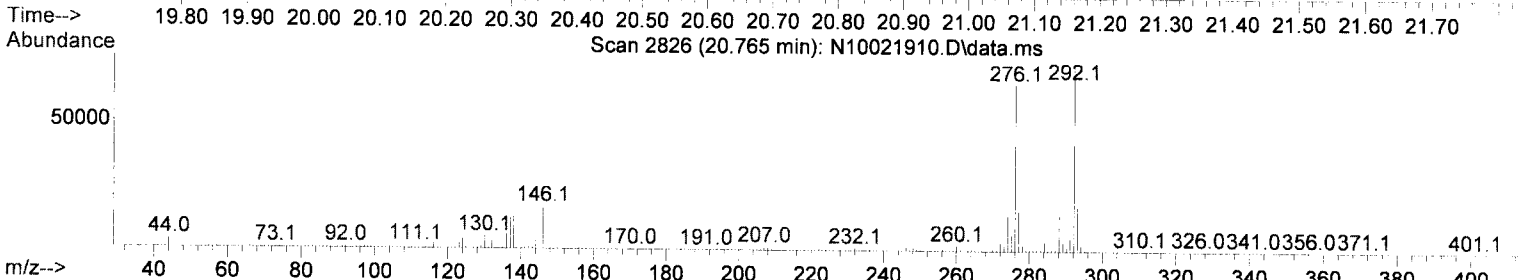
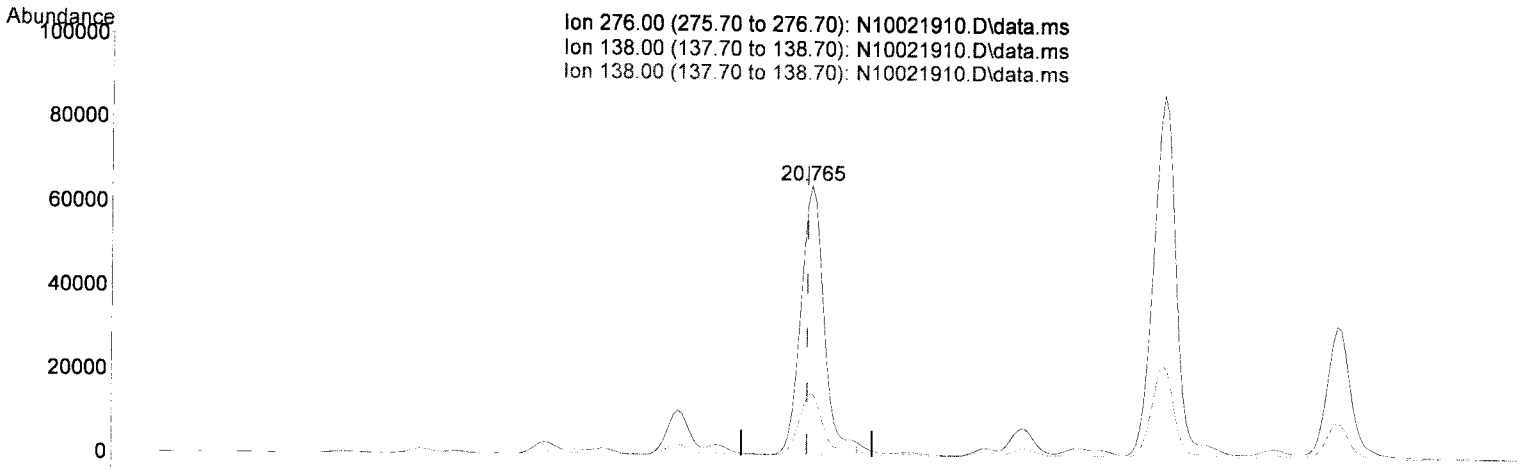
response 254824

Ion	Exp%	Act%
252.00	100.00	100.00
112.90	12.70	10.61
253.00	21.90	22.75
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J02028\
 Data File : N10021910.D
 Acq On : 02 Oct 2019 07:23 pm
 Operator : JK/ AMS/ DTH
 Sample : A9I0771-05RE3@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 04 09:58:41 2019
 Quant Method : R:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(38) Indeno(1,2,3-cd)Pyrene (T)

20.765min (+ 0.007) 74.27 ng/ml

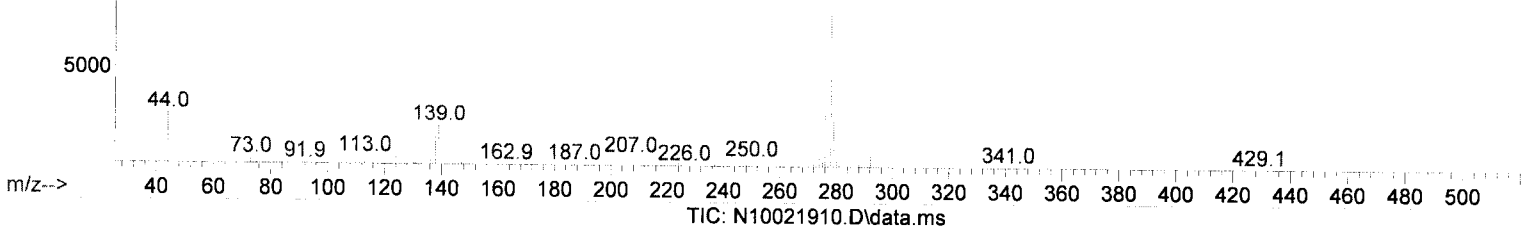
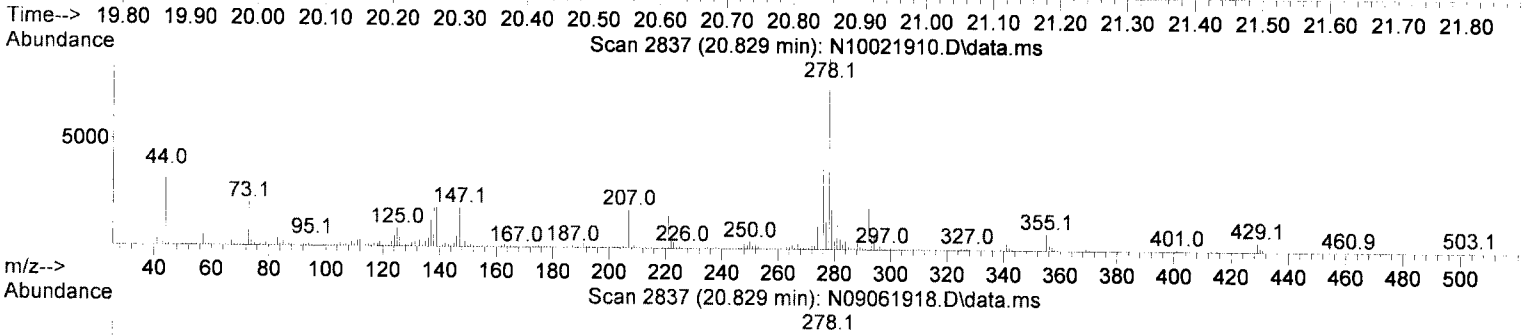
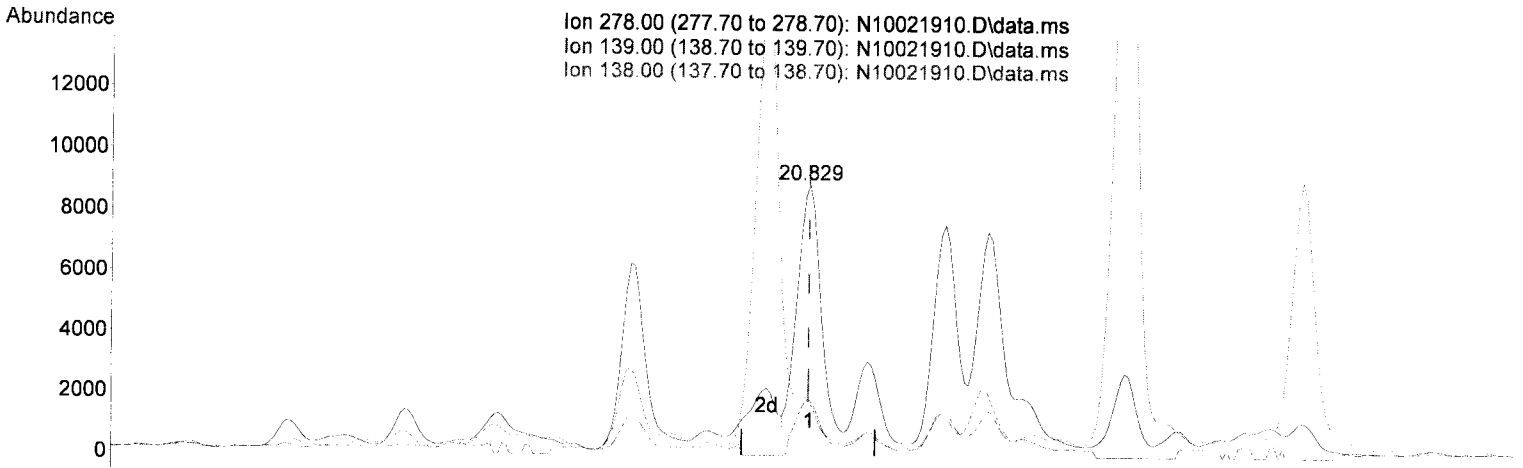
response 158624

Ion	Exp%	Act%
276.00	100.00	100.00
138.00	31.60	23.37
138.00	31.60	23.37
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J02028\
 Data File : N10021910.D
 Acq On : 02 Oct 2019 07:23 pm
 Operator : JK/ AMS/ DTH
 Sample : A9I0771-05RE3@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 04 09:58:41 2019
 Quant Method : R:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(39) Dibenz(a,h)anthracene (T)

20.829min (+ 0.001) 9.59 ng/ml

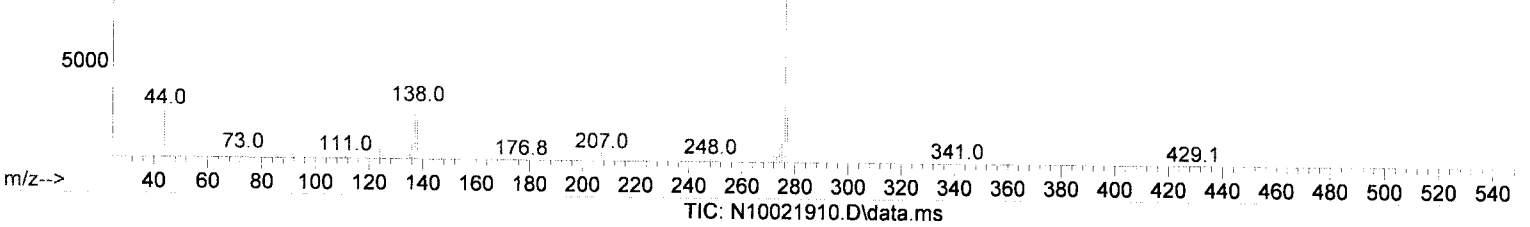
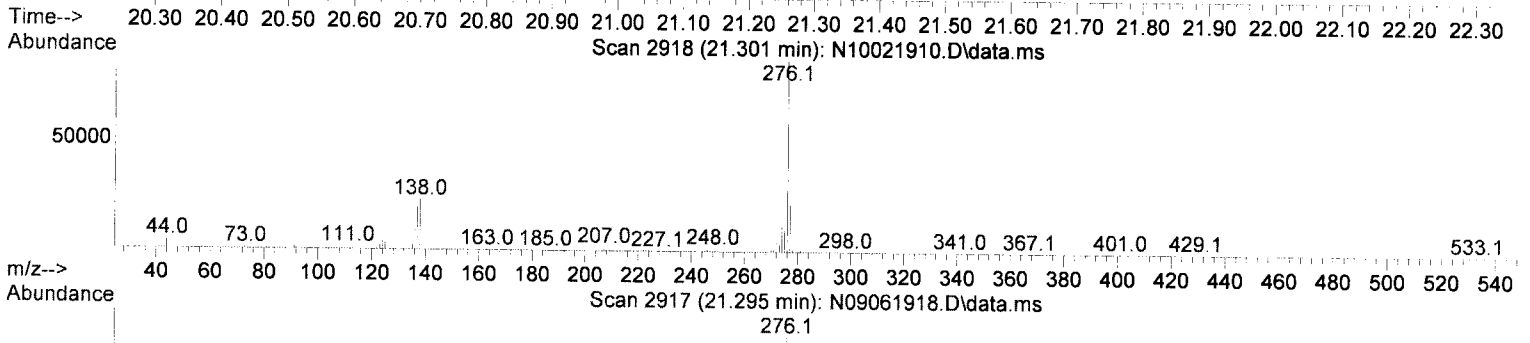
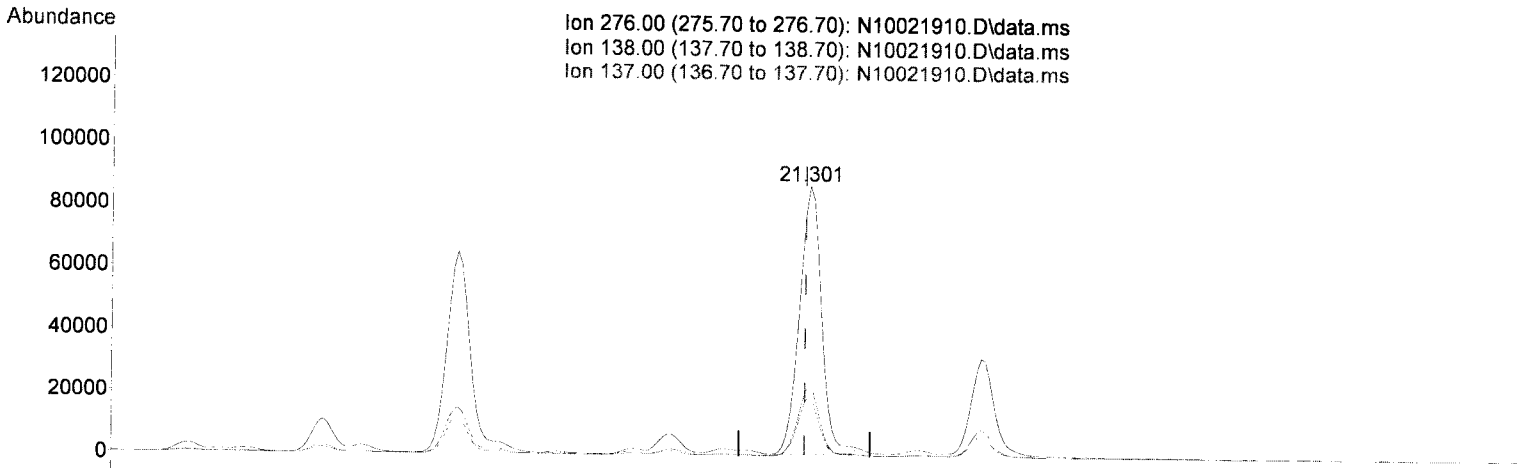
response 19244

Ion	Exp%	Act%
278.00	100.00	100.00
139.00	26.00	20.79
138.00	19.90	20.28
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : R:\data\2019-10\9J02028\
 Data File : N10021910.D
 Acq On : 02 Oct 2019 07:23 pm
 Operator : JK/ AMS/ DTH
 Sample : A9I0771-05RE3@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 04 09:58:41 2019
 Quant Method : R:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



(40) Benzo(g,h,i)perylene (T)

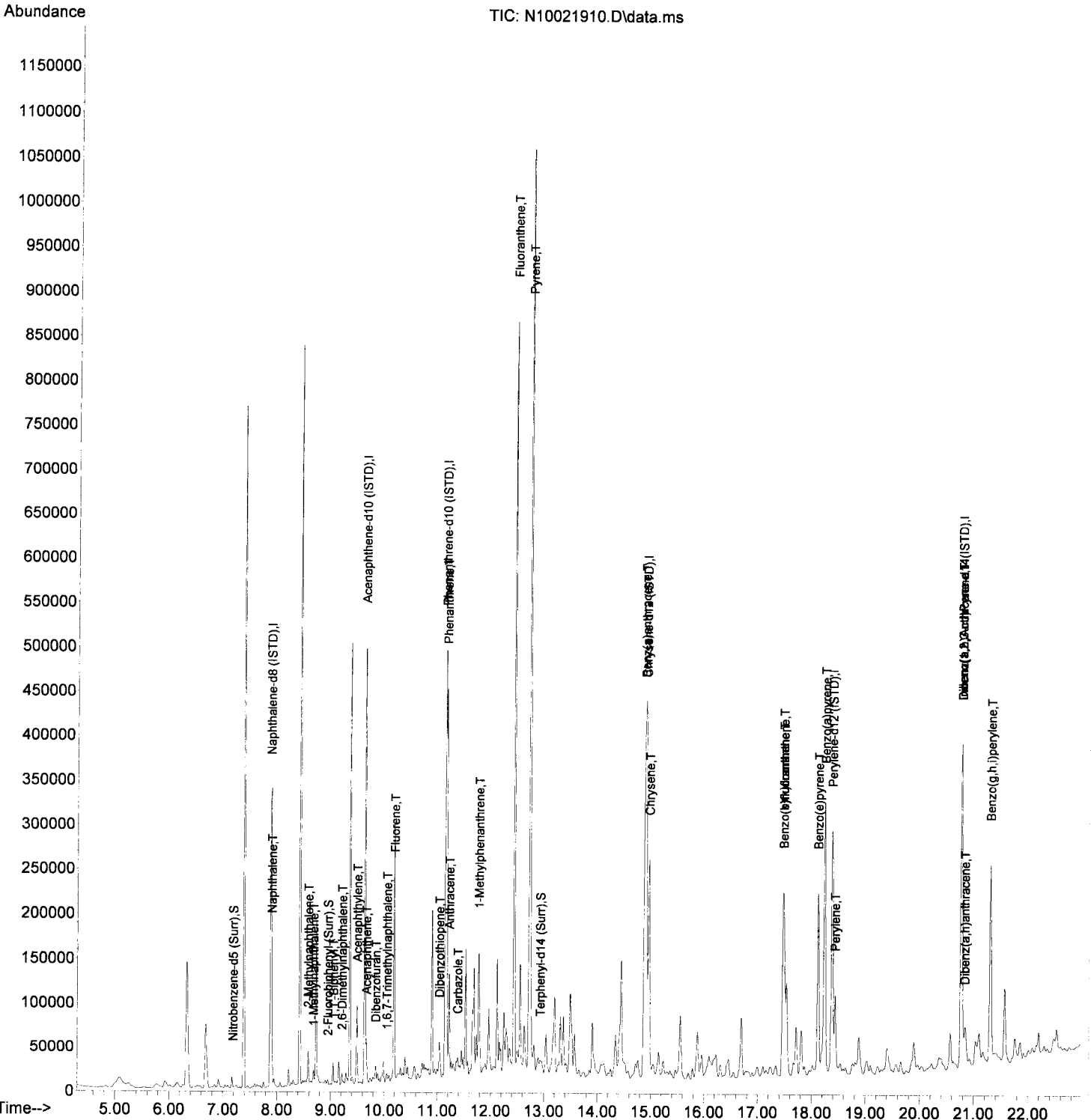
21.301min (+ 0.007) 89.32 ng/ml

response 202358

Ion	Exp%	Act%
276.00	100.00	100.00
138.00	34.40	26.04
137.00	28.60	22.09
0.00	0.00	0.00

Data Path : U:\data\2019-10\9J02028\
 Data File : N10021910.D
 Acq On : 02 Oct 2019 07:23 pm
 Operator : JK/ AMS/ DTH
 Sample : A9I0771-05RE3@100
 Misc : 100x, 8270D LL PAH ONLY
 ALS Vial : 10 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 03 09:03:38 2019
 Quant Method : U:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



**Semivolatile Organic Compounds (PAHs) by EPA 8270D
Calibration Data**

Sequence 9106028 (Cal ID A9I1001) SV-GCMS14



ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence: **9I06028**

Instrument: **SV-GCMS14**

Date: **09/06/19 15:37**

Calibration: **A9I1001**

#	<u>Lab Number</u>	<u>Matrix</u>	<u>Analysis</u>	<u>Client</u>	<u>Due</u>	<u>Batch</u>	<u>ISTD ID</u>	<u>STD ID</u>
1	9I06028-TUN1	Sediment	QC	QC			A19I102	A19H414
2	9I06028-ICB1	Sediment	QC	QC			A19I102	
3	9I06028-CAL1	Sediment	QC	QC			A19I102	A19I015
4	9I06028-CAL2	Sediment	QC	QC			A19I102	A19I016
5	9I06028-CAL3	Sediment	QC	QC			A19I102	A19I017
6	9I06028-CAL4	Sediment	QC	QC			A19I102	A19I018
7	9I06028-CAL5	Sediment	QC	QC			A19I102	A19I019
8	9I06028-CAL6	Sediment	QC	QC			A19I102	A19I020
9	9I06028-CAL7	Sediment	QC	QC			A19I102	A19I021
10	9I06028-CAL8	Sediment	QC	QC			A19I102	A19I022
11	9I06028-CAL9	Sediment	QC	QC			A19I102	A19I023
12	9I06028-CALA	Sediment	QC	QC			A19I102	A19I024
13	9I06028-IBL1	Sediment	QC	QC			A19I102	
14	9I06028-ICV1	Sediment	QC	QC			A19I102	A19I025
15	9I06028-IBL2	Sediment	QC	QC			A19I102	

Data Entered By: JD 9/10/19

Comments:

Data Reviewed By: MKT 9/11/19

Calibration Status Report SV-GCMS14

Method Path : N:\methods\
 Method File : SV14_090619_PAH.M
 Title : EPA 8270D: Semivolatile Organics
 Last Update : Mon Sep 09 14:58:53 2019
 Response Via : Initial Calibration

A 9 ± 1001
PH 9/9/19

#	ID	Conc	ISTD Conc	Path\File
1	1.0	1	100	N:\data\2019-09\9I06028\N09061913.D
2	2.5	3	100	N:\data\2019-09\9I06028\N09061914.D
3	5.0	5	100	N:\data\2019-09\9I06028\N09061915.D
4	10.0	10	100	N:\data\2019-09\9I06028\N09061916.D
5	25.0	25	100	N:\data\2019-09\9I06028\N09061917.D
6	50.0	50	100	N:\data\2019-09\9I06028\N09061918.D
7	100	100	100	N:\data\2019-09\9I06028\N09061919.D
8	200	200	100	N:\data\2019-09\9I06028\N09061920.D
9	300	300	100	N:\data\2019-09\9I06028\N09061921.D
10	400	400	100	N:\data\2019-09\9I06028\N09061922.D

#	ID	Update Time	Quant Time	Acquisition Time
1	1.0	Sep 09 14:58 2019	Sep 09 14:46 2019	06 Sep 2019 04:51 pm
2	2.5	Sep 09 14:58 2019	Sep 09 14:46 2019	06 Sep 2019 05:23 pm
3	5.0	Sep 09 14:58 2019	Sep 09 14:47 2019	06 Sep 2019 05:55 pm
4	10.0	Sep 09 14:58 2019	Sep 09 14:47 2019	06 Sep 2019 06:27 pm
5	25.0	Sep 09 14:58 2019	Sep 09 14:47 2019	06 Sep 2019 07:00 pm
6	50.0	Sep 09 14:58 2019	Sep 09 14:47 2019	06 Sep 2019 07:32 pm
7	100	Sep 09 14:58 2019	Sep 09 14:47 2019	06 Sep 2019 08:04 pm
8	200	Sep 09 14:58 2019	Sep 09 14:47 2019	06 Sep 2019 08:37 pm
9	300	Sep 09 14:58 2019	Sep 09 14:47 2019	06 Sep 2019 09:09 pm
10	400	Sep 09 14:58 2019	Sep 09 14:47 2019	06 Sep 2019 09:41 pm

SV14_090619_PAH.M Mon Sep 09 15:05:37 2019

Compound List Report SV-GCMS14

Method Path : N:\methods\
 Method File : SV14_090619_PAH.M
 Title : EPA 8270D: Semivolatile Organics
 Last Update : Mon Sep 09 14:58:53 2019
 Response Via : Initial Calibration

JM 9/9/19

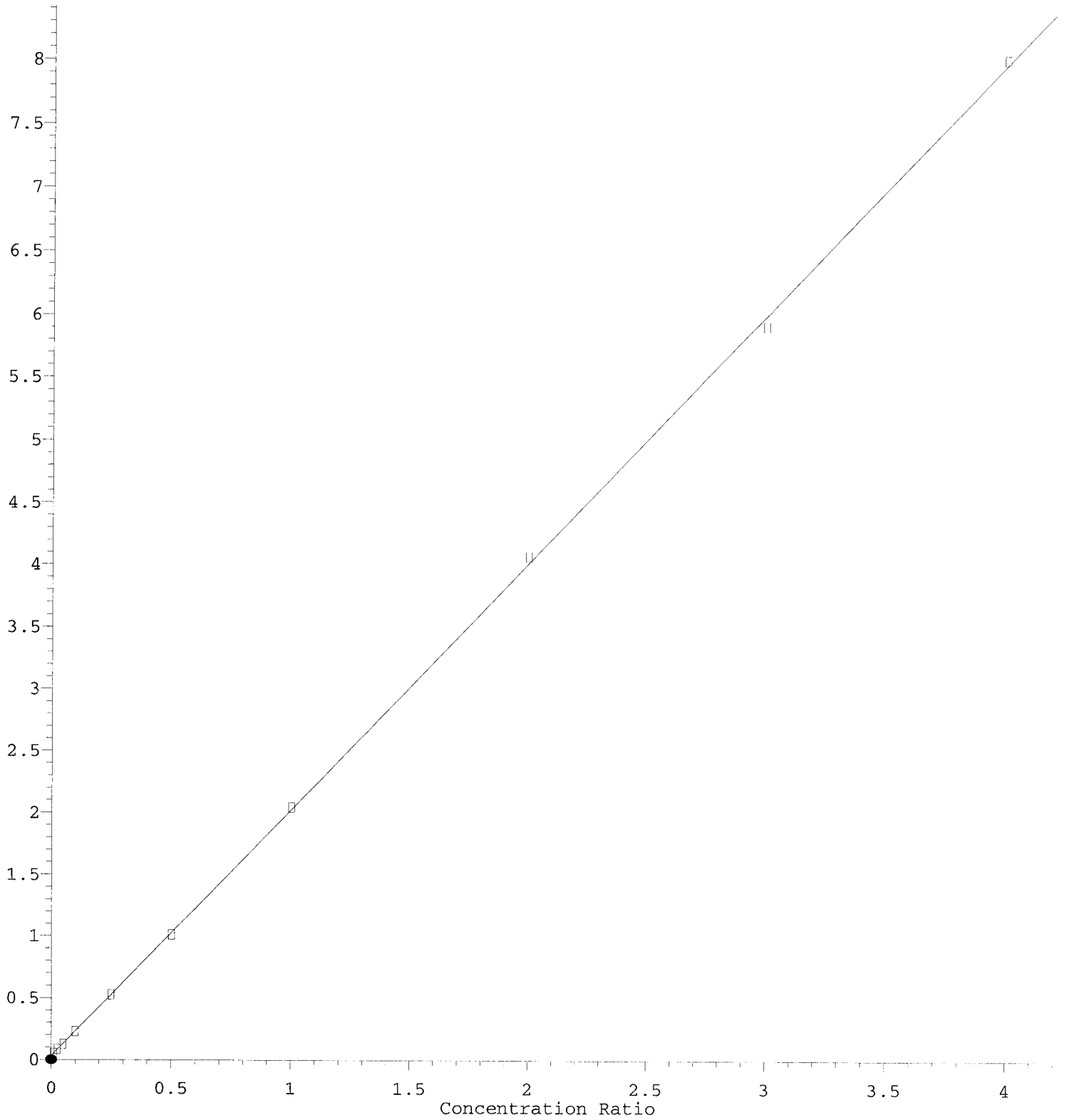
Total Cpnds : 40

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	Naphthalene-d8 (ISTD)	136	7.883	1.000	A	2	A	B
2	S	Nitrobenzene-d5 (Surr)	82	7.184	0.911	A	1	A	R
3	T	Decalin	138	7.364	0.934	A	2	A	B
4	T	Naphthalene	128	7.907	1.003	A	2	A	R
5	T	2-Methylnaphthalene	142	8.589	1.089	A	2	A	R
6	T	1-Methylnaphthalene	142	8.688	1.102	A	2	A	R
7	T	1,1'-Biphenyl	154	9.055	1.149	A	2	A	B
8	T	2,6-Dimethylnaphthalene	156	9.212	1.169	A	2	A	R
9	I	Acenaphthene-d10 (ISTD)	162	9.638	1.000	A	2	A	R
10	S	2-Fluorobiphenyl (Surr)	172	8.950	0.929	A	2	A	R
11	S	Acenaphthylene d-8 (Surr)	160	9.480	0.984	Q	2	A	R
12	T	Acenaphthylene	152	9.498	0.985	A	2	A	R
13	T	Acenaphthene	153	9.673	1.004	A	2	A	R
14	T	Dibenzofuran	168	9.848	1.022	A	2	A	R
15	T	1,6,7-Trimethylnaphthalene	170	10.057	1.044	A	2	A	R
16	T	Fluorene	166	10.191	1.057	A	2	A	R
17	I	Phenanthrene-d10 (ISTD)	188	11.147	1.000	A	2	A	R
18	T	Dibenzothiopene	184	11.042	0.991	A	3	A	R
19	T	Phenanthrene	178	11.171	1.002	A	2	A	R
20	T	Anthracene	178	11.223	1.007	A	2	A	R
21	T	Carbazole	167	11.390	1.022	A	2	A	R
22	T	1-Methylphenanthrene	192	11.794	1.058	A	2	A	R
23	T	Fluoranthene	202	12.435	1.116	A	2	A	R
24	I	Chrysene-d12 (ISTD)	240	14.906	1.000	A	2	A	R
25	T	Pyrene	202	12.721	0.853	A	2	A	R
26	S	Terphenyl-d14 (Surr)	244	12.930	0.867	A	2	A	R
27	T	Benz(a)anthracene	228	14.883	0.998	A	2	A	R
28	T	Chrysene	228	14.965	1.004	A	2	A	R
29	I	Perylene-d12 (ISTD)	264	18.374	1.000	A	2	A	R
30	T	Benzo(b)fluoranthene	252	17.465	0.951	A	2	A	R
31	T	Benzo(k)fluoranthene	252	17.529	0.954	A	2	A	R
32	T	Benzo(b+k)fluoranthene	252	17.529	0.954	A	2	A	R
33	S	Benzo(a)pyrene d-12 (Surr)	264	18.176	0.989	A	2	A	B
34	T	Benzo(e)pyrene	252	18.118	0.986	A	2	A	R
35	T	Benzo(a)pyrene	252	18.234	0.992	A	2	A	R
36	T	Perylene	252	18.433	1.003	A	2	A	R
37	I	Dibenz(a,h)Anthracene-d14 (ISTD)	292	20.764	1.000	A	2	A	R
38	T	Indeno(1,2,3-cd)Pyrene	276	20.758	1.000	A	2	A	R
39	T	Dibenz(a,h)anthracene	278	20.828	1.003	A	2	A	R
40	T	Benzo(g,h,i)perylene	276	21.294	1.026	A	2	A	R

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
 #Qual = number of qualifiers
 A/H = Area or Height
 ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

Acenaphthylene d-8 (Surr)

Response Ratio



$R = -2.27e-003 A^2 + 2.00e+000 A + 2.92e-002$

Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w($1/a^2$)

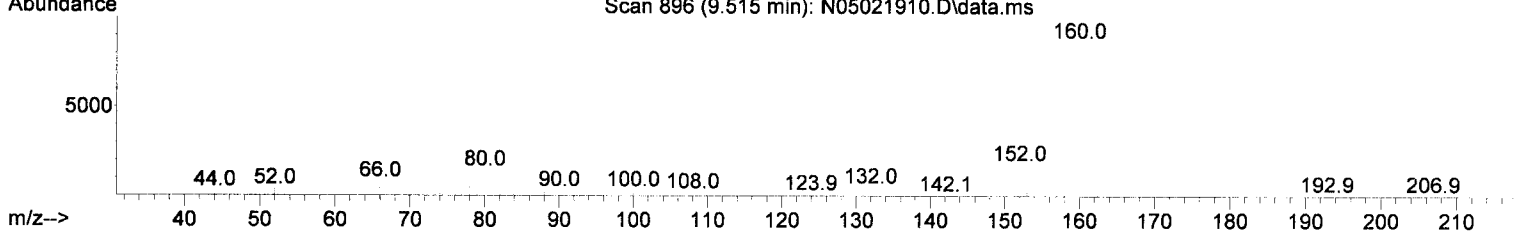
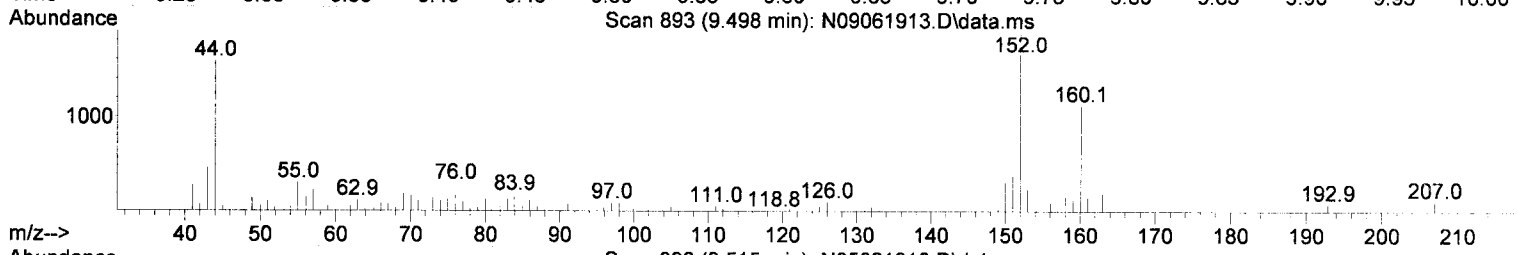
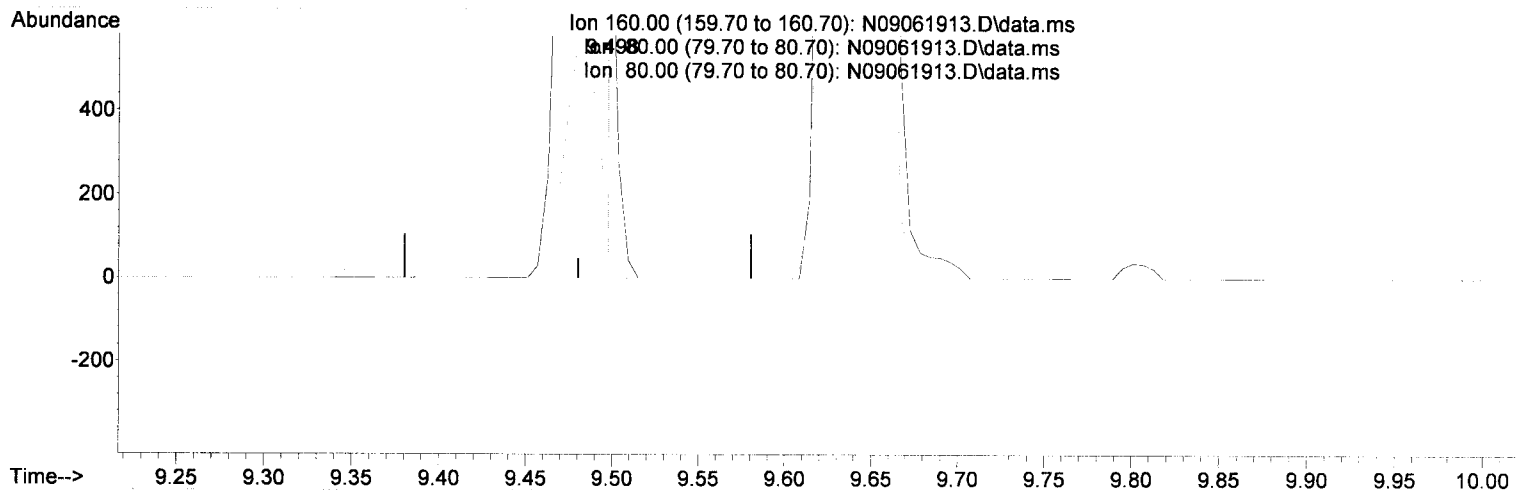
Method Name: N:\methods\SVI_091619_PAN\11/30/19 Anchor OEA LLC Gasco PreRD_DG2019 - 2a Surface Sediments Page 788 of 854

Calibration Table Last Updated: Mon Sep 09 15:00:15 2019

Quantitation Report (Qedit)

Data Path : N:\data\2019-09\9I06028\REQUANT\
 Data File : N09061913.D
 Acq On : 06 Sep 2019 04:51 pm
 Operator :
 Sample : 9I06028-CAL1
 Misc : 1x, A19I015@1
 ALS Vial : 3 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 15:06:04 2019
 Quant Method : N:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



TIC: N09061913.D\data.ms

(11) Acenaphthylene d-8 (Surr) (S)

9.498min (+ 0.017) -1.00 ng/ml m

response 111

Ion	Exp%	Act%
160.00	100.00	100.00
80.00	14.40	12.44
80.00	14.40	12.44
0.00	0.00	0.00

Method Path : N:\methods\
 Method File : SV14_090619_PAH.M
 Title : EPA 8270D: Semivolatile Organics
 Last Update : Mon Sep 09 14:58:53 2019
 Response Via : Initial Calibration

9/9/19

Calibration Files

1.0 =N09061913.D 2.5 =N09061914.D 5.0 =N09061915.D 10.0=N09061916.D 25.0=N09061917.D 50.0=N09061918.D 100 =N09061919.D
 200 =N09061920.D 300 =N09061921.D 400 =N09061922.D

Compound	1.0	2.5	5.0	10.0	25.0	50.0	100	200	300	400	Avg	%RSD
1) I Naphthalene-d8 (ISTD) -----ISTD-----												6.92
2) S Nitrobenzene-d...	0.391	0.340	0.316	0.315	0.306	0.324	0.323	0.334	0.338	0.337	0.332	7.09 Not used
3) T Decalin		0.076	0.070	0.069	0.070	0.075	0.077	0.077	0.075	0.081	0.074	5.47 Not used
4) T Naphthalene	1.158	1.135	1.098	1.123	1.090	1.083	1.082	1.092	1.078	1.090	1.103	2.42 ✓
5) T 2-Methylnaphth...	0.893	0.907	0.881	0.886	0.895	0.941	0.965	1.001	1.001	0.975	0.935	5.16 ✓
6) T 1-Methylnaphth...	0.821	0.875	0.837	0.916	0.923	0.964	0.986	1.025	1.016	0.981	0.934	7.70 ✓
7) T 1,1'-Biphenyl	1.222	1.201	1.123	1.186	1.195	1.259	1.326	1.389	1.390	1.279	1.257	7.10 Not used
8) T 2,6-Dimethylna...	0.823	0.850	0.815	0.851	0.892	0.943	0.994	1.034	1.033	0.946	0.918	9.12 Not used
9) I Acenaphthene-d10 (... -----ISTD-----												2.97
10) S 2-Fluorobiphen...	1.424	1.562	1.481	1.499	1.500	1.482	1.499	1.496	1.477	1.498	1.492	2.26 ✓
11) S Acenaphthylene...	4.877	3.301	2.497	2.282	2.108	2.021	2.043	2.031	1.970	2.004	2.513	36.74 Not used (Surrogate)
12) T Acenaphthylene	2.050	2.174	2.139	2.171	2.195	2.172	2.248	2.243	2.161	2.158	2.171	2.55 ✓
13) T Acenaphthene	1.439	1.487	1.404	1.417	1.419	1.394	1.443	1.431	1.388	1.396	1.422	2.10 ✓
14) T Dibenzofuran	1.760	1.773	1.736	1.780	1.790	1.777	1.831	1.827	1.771	1.765	1.781	1.63 ✓
15) T 1,6,7-Trimethy...	1.249	1.207	1.173	1.178	1.169	1.168	1.213	1.212	1.178	1.178	1.193	2.23 Not used
16) T Fluorene	1.369	1.405	1.409	1.422	1.461	1.447	1.526	1.545	1.493	1.476	1.455	3.85 ✓
17) I Phenanthrene-d10 (... -----ISTD-----												5.33
18) T Dibenzothiopene	1.030	1.080	1.056	1.038	1.030	1.033	1.050	1.056	1.042	1.043	1.046	1.46 Not used
19) T Phenanthrene	1.287	1.194	1.137	1.165	1.154	1.152	1.158	1.178	1.134	1.143	1.170	3.85 ✓
20) T Anthracene	1.097	1.089	1.049	1.062	1.069	1.076	1.110	1.115	1.102	1.115	1.088	2.16 ✓
21) T Carbazole	0.872	0.830	0.810	0.818	0.866	0.871	0.905	0.945	0.940	0.950	0.881	5.99 ✓
22) T 1-Methylphenan...	0.803	0.804	0.781	0.794	0.802	0.805	0.824	0.842	0.826	0.847	0.813	2.60 Not used
23) T Fluoranthene	1.194	1.127	1.104	1.124	1.162	1.171	1.202	1.227	1.218	1.261	1.179	4.30 ✓
24) I Chrysene-d12 (ISTD) -----ISTD-----												15.52
25) T Pyrene	1.634	1.742	1.585	1.636	1.580	1.571	1.560	1.478	1.416	1.421	1.562	6.48 ✓
26) S Terphenyl-d14 ...	1.150	1.092	1.037	1.058	1.060	1.046	1.049	1.021	0.993	1.012	1.052	4.22 ✓
27) T Benz(a)anthracene	1.394	1.221	1.088	1.093	1.114	1.098	1.142	1.149	1.139	1.173	1.161	7.87 ✓
28) T Chrysene	1.134	1.107	1.087	1.087	1.098	1.082	1.095	1.103	1.080	1.114	1.099	1.52 ✓
29) I Perylene-d12 (ISTD) -----ISTD-----												18.95
30) T Benzo(b)fluora...	1.117	1.085	1.065	1.092	1.128	1.164	1.194	1.231	1.217	1.246	1.154	5.68 ✓
31) T Benzo(k)fluora...	1.067	1.082	1.086	1.036	1.128	1.118	1.196	1.221	1.198	1.228	1.136	6.13 ✓
32) T Benzo(b+k)fluo...	2.224	2.236	2.233	2.230	2.344	2.357	2.457	2.518	2.473	2.532	2.361	5.36 ✓
33) S Benzo(a)pyrene...	0.639	0.751	0.745	0.759	0.782	0.808	0.845	0.885	0.880	0.902	0.800	10.15 Not used (Surrogate)
34) T Benzo(e)pyrene	1.244	1.173	1.075	1.091	1.139	1.151	1.184	1.213	1.188	1.210	1.167	4.61 Not used
35) T Benzo(a)pyrene	0.983	0.860	0.859	0.902	0.977	1.004	1.043	1.085	1.068	1.095	0.988	9.00 ✓
36) T Perylene	1.038	1.226	1.199	1.189	1.232	1.218	1.248	1.282	1.254	1.278	1.216	5.74 Not used

Method Path : N:\methods\
 Method File : SV14_090619_PAH.M
 Title : EPA 8270D: Semivolatile Organics

37)	I	Dibenz(a,h)Anthrce...												
38)	T	Indeno(1,2,3-c...	1.208	1.280	1.185	1.191	1.192	1.223	1.260	1.262	1.249	1.283	1.233	3.08'
39)	T	Dibenz(a,h)ant...	1.173	1.144	1.121	1.116	1.120	1.144	1.178	1.194	1.182	1.217	1.159	3.01'
40)	T	Benzo(g,h,i)pe...	1.245	1.185	1.241	1.251	1.289	1.328	1.388	1.395	1.368	1.394	1.308	5.85'

21.60 21.60 9/10/19

(#) = Out of Range

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 9I06028

Analysis Included

8270D LL PAH Only (Scan)

INSTRUMENT SEQUENCE LOG

<u>SampleID</u>	<u>SampleName</u>	<u>Matrix</u>	<u>STDID</u>	<u>ISTD_ID</u>	<u>Analyzed</u>	
9I06028-TUN1	MS Tune	Sediment	A19H414	A19I102	9/6/2019	3:51:00PM
9I06028-ICB1	Initial Cal Blank	Sediment		A19I102	9/6/2019	4:18:00PM
9I06028-CAL1	Cal Standard	Sediment	A19I015	"	9/6/2019	4:51:00PM
9I06028-CAL2	Cal Standard	Sediment	A19I016	"	9/6/2019	5:23:00PM
9I06028-CAL3	Cal Standard	Sediment	A19I017	"	9/6/2019	5:55:00PM
9I06028-CAL4	Cal Standard	Sediment	A19I018	"	9/6/2019	6:27:00PM
9I06028-CAL5	Cal Standard	Sediment	A19I019	"	9/6/2019	7:00:00PM
9I06028-CAL6	Cal Standard	Sediment	A19I020	"	9/6/2019	7:32:00PM
9I06028-CAL7	Cal Standard	Sediment	A19I021	"	9/6/2019	8:04:00PM
9I06028-CAL8	Cal Standard	Sediment	A19I022	"	9/6/2019	8:37:00PM
9I06028-CAL9	Cal Standard	Sediment	A19I023	"	9/6/2019	9:09:00PM
9I06028-CALA	Cal Standard	Sediment	A19I024	"	9/6/2019	9:41:00PM
9I06028-ICV1	Initial Cal Check	Sediment	A19I025	"	9/6/2019	10:45:00PM

CALIBRATION STANDARD RECOVERIES

Calibration: **A9I1001**

Instrument: **SV-GCMS14**

8270D LL PAH Only (Scan)

Sequence: **9I06028**

Matrix: **Sediment**

	<u>Inst. MRL</u>	<u>Recalc Res.</u>	<u>Cal Level</u>	<u>%Rec.</u>	<u>Qual</u>
9I06028-CAL1					
9I06028-CAL2					
9I06028-CAL3					
9I06028-CAL4					
9I06028-CAL5					
9I06028-CAL6					
9I06028-CAL7					
9I06028-CAL8					
9I06028-CAL9					
9I06028-CALA					

Compounds listed above have recalculated recoveries outside 70-130% of the true values, and the calibration levels are above the reporting level. If no compounds are listed, all are OK. Please see the next section for quadratic fit compounds.

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 9I06028

Analytes With Quadratic Curve Fits

<u>Qualifier</u>	<u>iMDL</u>	<u>iMRL</u>	<u>Spike Amt</u>	<u>%Difference</u>	<u>OK?</u>	<u>Raise MRL to ?</u>
				_____	□	□ _____

Analytes listed above have quadratic curve fits. If they are using a weighting option, they must be checked against the requested curve points to determine if the recalculated results are within limits (70-130 or as specified).

ICV RECOVERIES

Calibration: **A9I1001**

Instrument: **SV-GCMS14**

8270D LL PAH Only (Scan)

Sequence: **9I06028**

Matrix: **Sediment**

9I06028-ICV1

Inst. MRL

ICV Level

Result

%Rec.

Qual

Compounds listed above have Initial Calibration Verification standard recoveries outside 70-130% of the true values. If no compounds are listed, all have passing recoveries.

Evaluate Continuing Calibration Report

Data Path : N:\data\2019-09\9I06028\
 Data File : N09061924.D
 Acq On : 06 Sep 2019 10:45 pm
 Operator :
 Sample : 9I06028-ICV1
 Misc : 1x, A19I025@50
 ALS Vial : 13 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 10 10:28:40 2019
 Quant Method : N:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

JK 9/10/19

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Naphthalene-d8 (ISTD)	100.000	100.000	0.0	123	0.00
2 S	Nitrobenzene-d5 (Surr)	50.000	46.212	7.6	116	0.00
3 T	Decalin	50.000	48.753	2.5	118	0.00
4 T	Naphthalene	50.000	49.942	0.1	125	0.00
5 T	2-Methylnaphthalene	50.000	46.827	6.3	114	0.00
6 T	1-Methylnaphthalene	50.000	47.766	4.5	113	0.00
7 T	1,1'-Biphenyl	50.000	46.341	7.3	113	0.00
8 T	2,6-Dimethylnaphthalene	50.000	45.797	8.4	109	0.00
9 I	Acenaphthene-d10 (ISTD)	100.000	100.000	0.0	106	0.00
10 S	2-Fluorobiphenyl (Surr)	50.000	49.669	0.7	106	0.00
11 S	Acenaphthylene d-8 (Surr)	50.000	49.308	1.4	106	0.00
12 T	Acenaphthylene	50.000	51.950	-3.9	110	0.00
13 T	Acenaphthene	50.000	50.335	-0.7	109	0.00
14 T	Dibenzofuran	50.000	50.914	-1.8	108	0.00
15 T	1,6,7-Trimethylnaphthalene	50.000	50.151	-0.3	109	0.00
16 T	Fluorene	50.000	50.867	-1.7	109	0.00
17 I	Phenanthrene-d10 (ISTD)	100.000	100.000	0.0	107	0.00
18 T	Dibenzothiopene	50.000	49.794	0.4	108	0.00
19 T	Phenanthrene	50.000	50.398	-0.8	110	0.00
20 T	Anthracene	50.000	51.792	-3.6	112	0.00
21 T	Carbazole	50.000	50.683	-1.4	110	-0.02
22 T	1-Methylphenanthrene	50.000	51.441	-2.9	111	0.00
23 T	Fluoranthene	50.000	50.556	-1.1	109	0.00
24 I	Chrysene-d12 (ISTD)	100.000	100.000	0.0	111	0.00
25 T	Pyrene	50.000	49.139	1.7	109	0.00
26 S	Terphenyl-d14 (Surr)	50.000	48.699	2.6	109	0.00
27 T	Benzo(a)anthracene	50.000	48.477	3.0	114	0.00
28 T	Chrysene	50.000	52.375	-4.8	118	0.00
29 I	Perylene-d12 (ISTD)	100.000	100.000	0.0	114	0.00
30 T	Benzo(b)fluoranthene	50.000	50.587	-1.2	115	0.00
31 T	Benzo(k)fluoranthene	50.000	49.972	0.1	116	0.00
32 T	Benzo(b+k)fluoranthene	100.000	100.734	-0.7	115	0.00
33 S	Benzo(a)pyrene d-12 (Surr)	50.000	53.210	-6.4	120	0.00
34 T	Benzo(e)pyrene	50.000	50.277	-0.6	117	0.00
35 T	Benzo(a)pyrene	50.000	51.177	-2.4	115	0.00
36 T	Perylene	50.000	50.891	-1.8	116	0.00
37 I	Dibenz(a,h)Anthracene-d14 (IS	100.000	100.000	0.0	117	0.00
38 T	Indeno(1,2,3-cd)Pyrene	50.000	49.977	0.0	118	0.00
39 T	Dibenz(a,h)anthracene	50.000	49.339	1.3	117	0.00
40 T	Benzo(g,h,i)perylene	50.000	53.580	-7.2	123	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : N:\data\2019-09\9I06028\
 Data File : N09061911.D
 Acq On : 06 Sep 2019 03:51 pm
 Operator :
 Sample : 9I06028-TUN1
 Misc : 1x, A19H414 DFTPP@45
 ALS Vial : 1 Sample Multiplier: 1
 DataAcq Meth:DFTPP.M

Quant Time: Sep 06 17:15:52 2019
 Quant Method : N:\methods\DFTPP.M
 Quant Title : 8270 DFTPP Tune Method
 QLast Update : Thu Sep 05 08:50:46 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

Qd 9/9/19

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.613	150	163761	2.00	ug/mL	# 0.00
2) Naphthalene-d8	7.825	136	486548	2.00	ug/mL	0.00
3) Acenaphthene-d10	9.585	162	255378	2.00	ug/mL	0.00
5) Phenanthrene-d10	11.101	188	470705	2.00	ug/mL	0.00
11) Chrysene-d12	14.779	240	413133	2.00	ug/mL	# 0.00
12) Perylene-d12	16.830	264	372325	2.00	ug/mL	# 0.00
13) Dibenz(a,h)anthracene-...	18.060	292	295670	2.00	ug/mL	0.00
Target Compounds						
4) Pentachlorophenol	10.920	266	1134816	47.06	ug/mL	Qvalue 93
6) DFTPP	11.404	442	1326743	34.91	ug/mL	90
7) Benzidine	12.558	184	4304187	25.70	ug/mL	97
8) 4,4-DDE	12.808	TIC	375170	No Calib		
9) 4,4-DDD	13.310	TIC	188617	No Calib		
10) 4,4-DDT	13.869	TIC	15944082	33.03	ug/mL	98

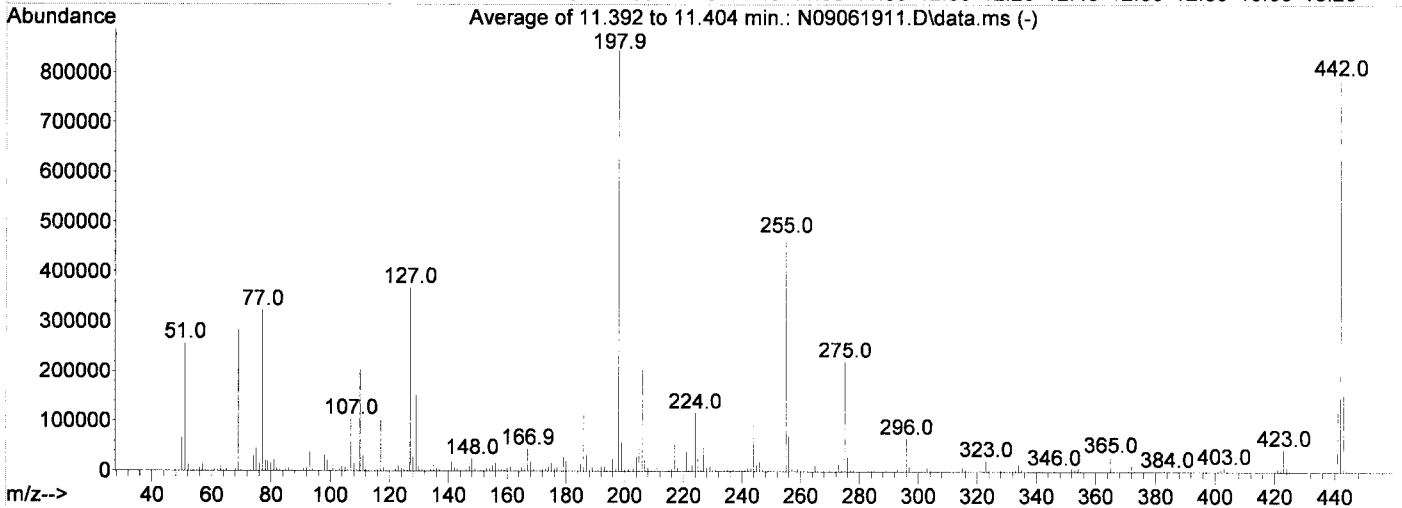
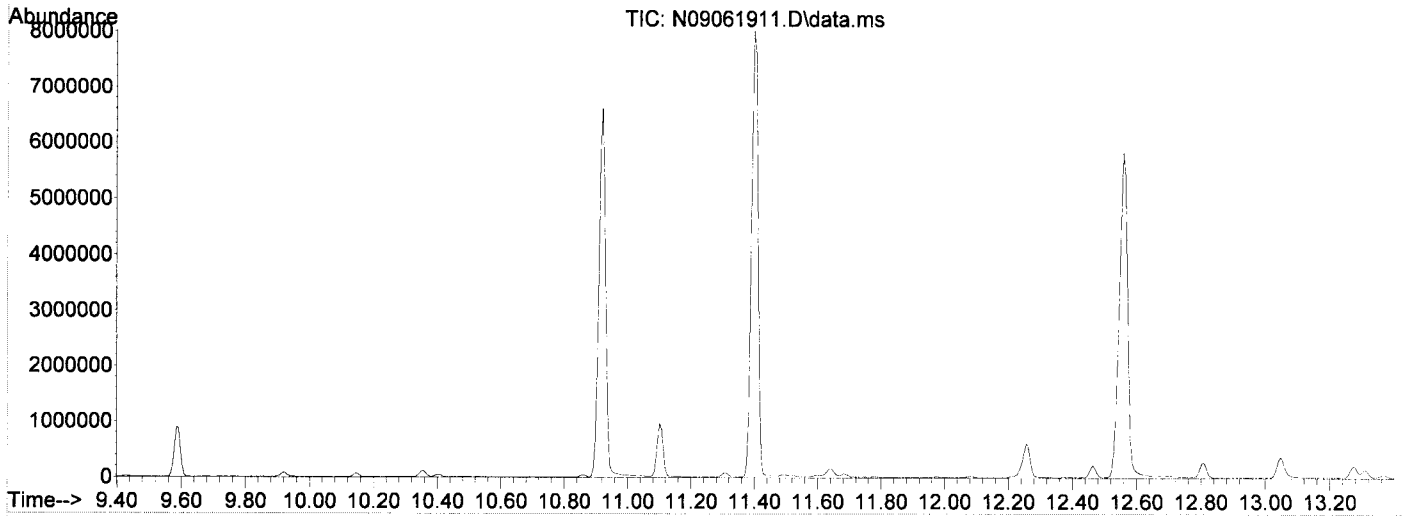
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : N:\data\2019-09\9I06028\
 Data File : N09061911.D
 Acq On : 06 Sep 2019 03:51 pm
 Operator :
 Sample : 9I06028-TUN1
 Misc : 1x, A19H414 DFTPP@45
 ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : N:\methods\DFTPP.M
 Title : 8270 DFTPP Tune Method
 Last Update : Thu Sep 05 08:50:46 2019

gd 9/9/19



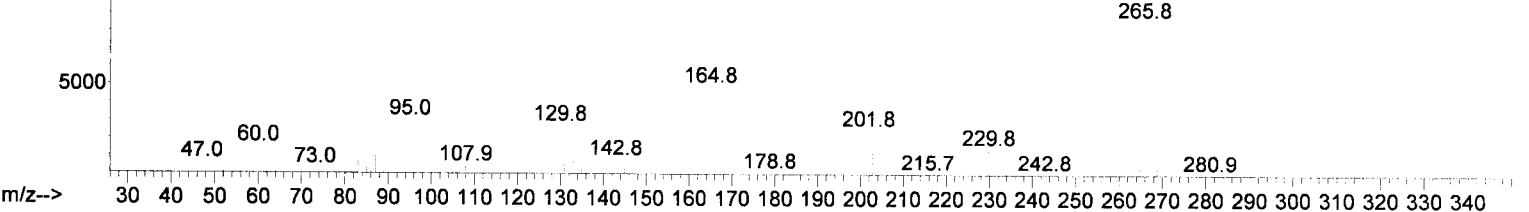
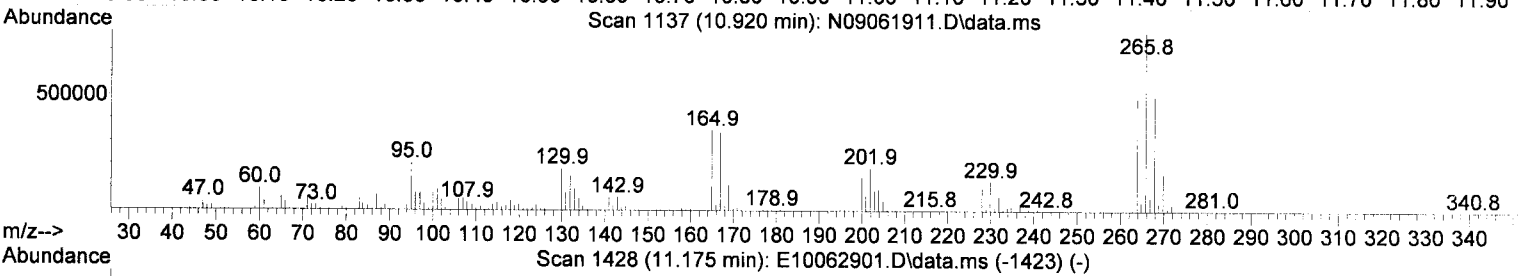
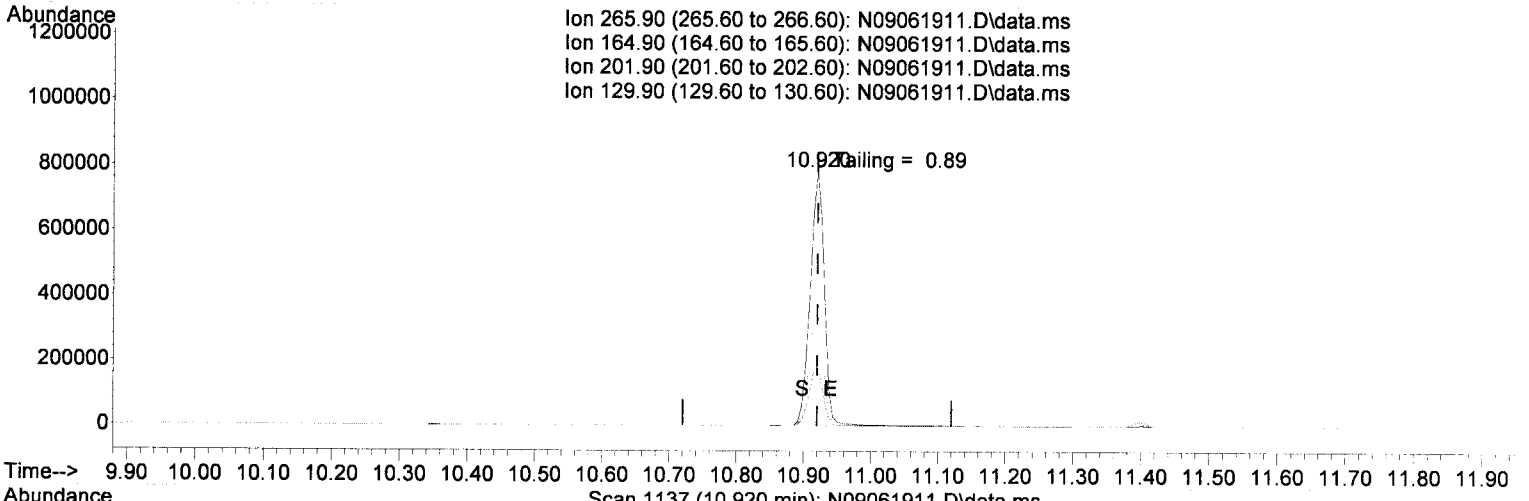
AutoFind: Scans 1218, 1219, 1220; Background Corrected with Scan 1212

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	1.5	4348	PASS
69	69	100	100	100.0	283608	PASS
70	69	0.00	2	0.5	1319	PASS
197	198	0.00	2	0.5	4054	PASS
198	198	100	100	100.0	845182	PASS
199	198	5	9	6.9	57976	PASS
365	198	1	100	3.6	30576	PASS
441	443	0.01	150	78.0	120320	PASS
442	198	0.10	200	93.1	787179	PASS
443	442	15	24	19.6	154213	PASS

Quantitation Report (Qedit)

Data Path : N:\data\2019-09\9I06028\
 Data File : N09061911.D
 Acq On : 06 Sep 2019 03:51 pm
 Operator :
 Sample : 9I06028-TUN1
 Misc : 1x, A19H414 DFTPP@45
 ALS Vial : 1 Sample Multiplier: 1
 DataAcq Meth:DFTPP.M

Quant Time: Sep 06 17:15:52 2019
 Quant Method : N:\methods\DFTPP.M
 Quant Title : 8270 DFTPP Tune Method
 QLast Update : Thu Sep 05 08:50:46 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



TIC: N09061911.D\data.ms

(4) Pentachlorophenol

10.920min (+ 0.000) 47.06 ug/mL

response 1134816

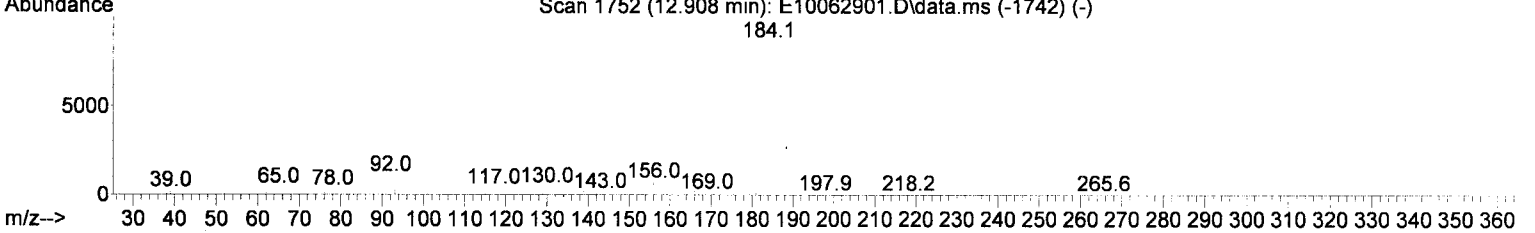
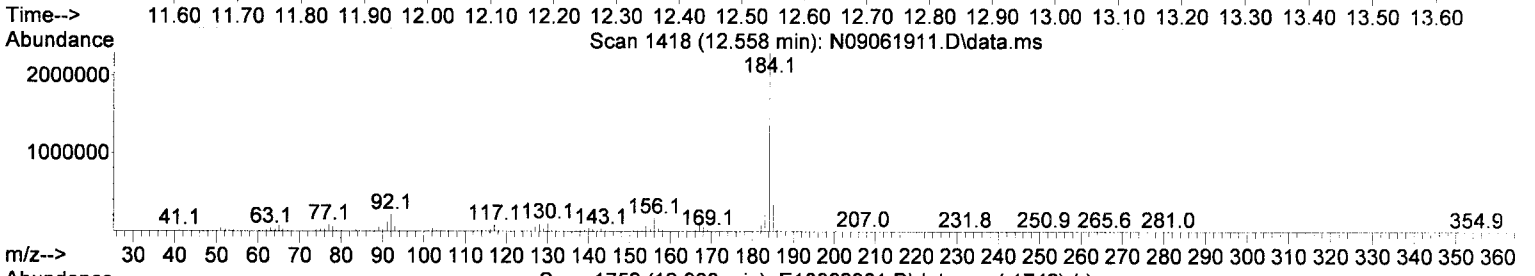
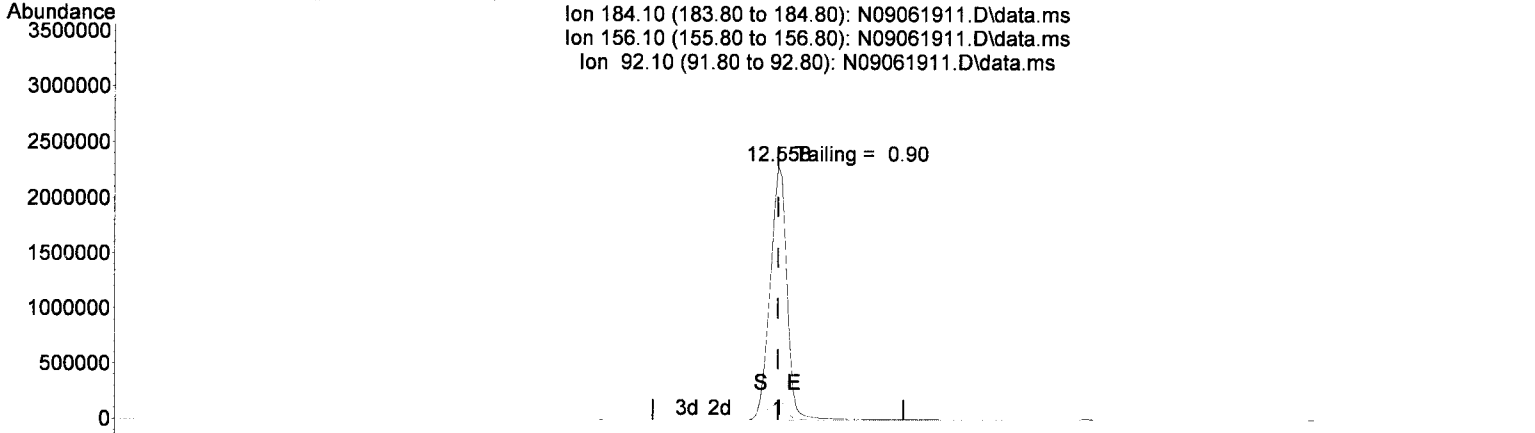
Ion	Exp%	Act%
265.90	100.00	100.00
164.90	50.60	44.95
201.90	25.80	23.85
129.90	27.30	23.19

Handwritten signature and date: 9/9/19

Quantitation Report (Qedit)

Data Path : N:\data\2019-09\9I06028\
 Data File : N09061911.D
 Acq On : 06 Sep 2019 03:51 pm
 Operator :
 Sample : 9I06028-TUN1
 Misc : 1x, A19H414 DFTPP@45
 ALS Vial : 1 Sample Multiplier: 1
 DataAcq Meth:DFTPP.M

Quant Time: Sep 06 17:15:52 2019
 Quant Method : N:\methods\DFTPP.M
 Quant Title : 8270 DFTPP Tune Method
 QLast Update : Thu Sep 05 08:50:46 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



TIC: N09061911.D\data.ms

(7) Benzidine

12.558min (+ 0.000) 25.70 ug/mL

response 4304187

Ion	Exp%	Act%
184.10	100.00	100.00
156.10	8.50	7.39
92.10	8.20	9.56
0.00	0.00	0.00

Handwritten signature and date: 9/9/19

DDT Breakdown Check (Validated 5/1/2013)

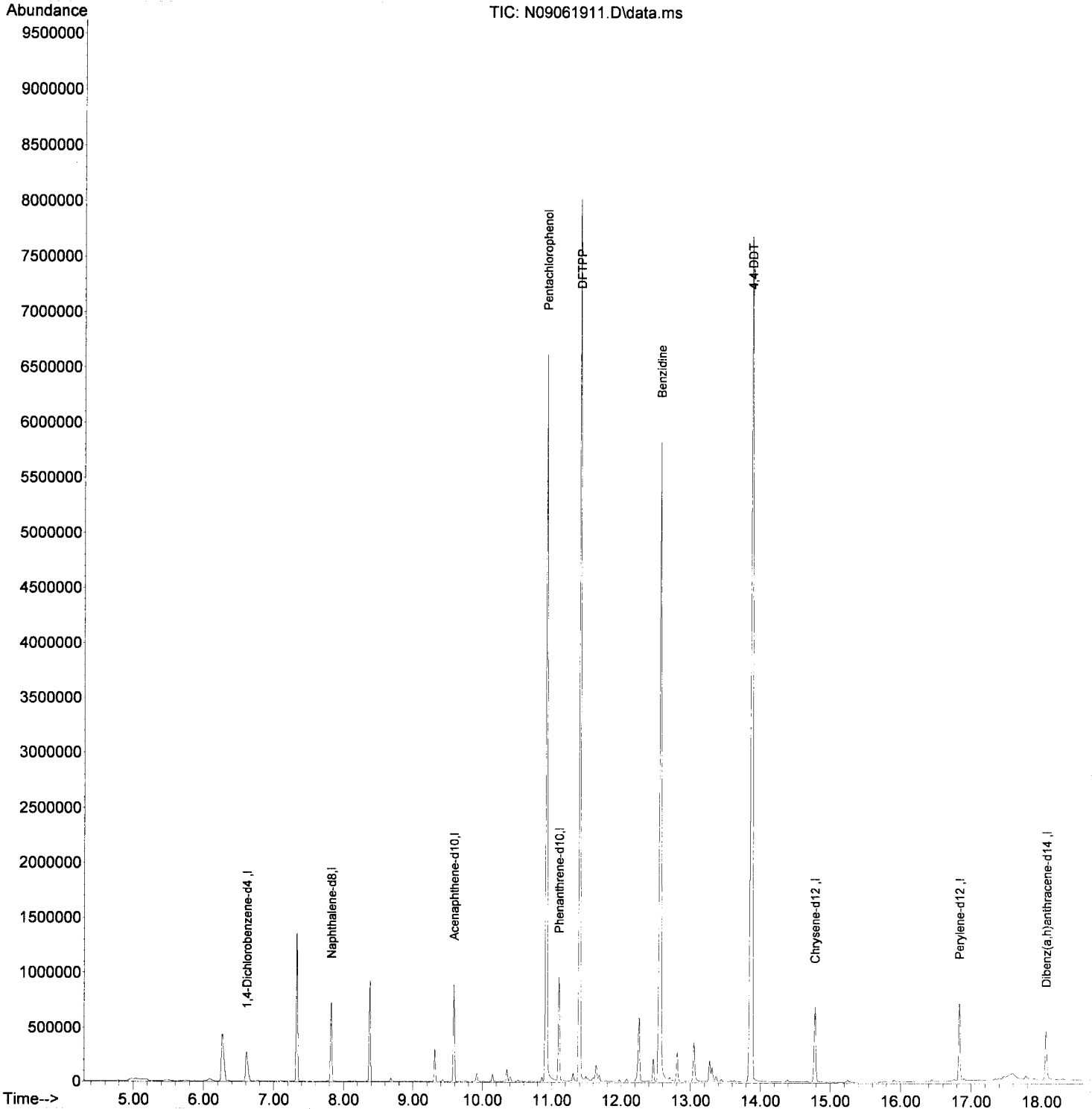
From:
9I06028-TUN1
SV-GCMS14

First Column Area Counts	Percent Breakdown	
DDE 375170		✓
DDD 188617		
DDT 15944082	3.42	PASS

Breakdown must be less than 20% to accept sample data.

Data Path : N:\data\2019-09\9I06028\
Data File : N09061911.D
Acq On : 06 Sep 2019 03:51 pm
Operator :
Sample : 9I06028-TUN1
Misc : 1x, A19H414 DFTPP@45
ALS Vial : 1 Sample Multiplier: 1
DataAcq Meth:DFTPP.M

Quant Time: Sep 06 17:15:52 2019
Quant Method : N:\methods\DFTPP.M
Quant Title : 8270 DFTPP Tune Method
QLast Update : Thu Sep 05 08:50:46 2019
Response via : Initial Calibration
InstName : SV-GCMS14



Data Path : N:\data\2019-09\9I06028\
 Data File : N09061912.D
 Acq On : 06 Sep 2019 04:18 pm
 Operator :
 Sample : 9I06028-ICB1
 Misc : 1x, DCM + ISTD
 ALS Vial : 2 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:46:43 2019
 Quant Method : N:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 10:14:28 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

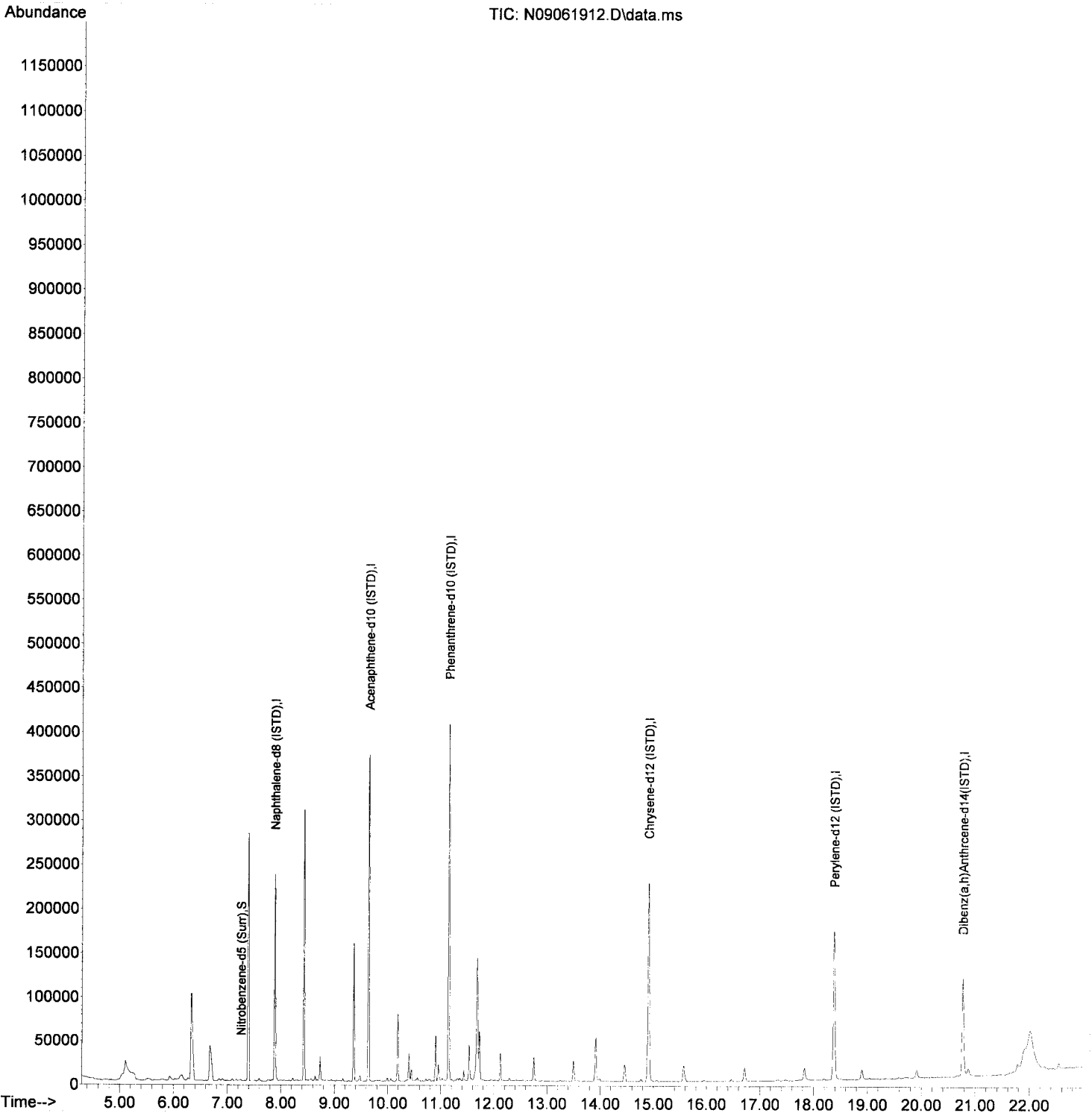
9/9/19

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Naphthalene-d8 (ISTD)	7.883	136	153621	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.643	162	109411	100.00	ng/ml	0.00	
17) Phenanthrene-d10 (ISTD)	11.147	188	203705	100.00	ng/ml	0.00	
24) Chrysene-d12 (ISTD)	14.907	240	156122	100.00	ng/ml	0.00	
29) Perylene-d12 (ISTD)	18.381	264	131660	100.00	ng/ml	0.00	
37) Dibenz(a,h)Anthrcene-d...	20.765	292	95634	100.00	ng/ml	0.00	
System Monitoring Compounds							
2) Nitrobenzene-d5 (Surr)	7.254	82	241	0.47	ng/ml	0.07	
10) 2-Fluorobiphenyl (Surr)	0.000	172	0	0.00	ng/ml		
11) Acenaphthylene d-8 (Surr)	9.486	160	3573	0.17	ng/ml	0.00	
26) Terphenyl-d14 (Surr)	12.931	244	228	0.14	ng/ml	0.00	
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml		
Target Compounds							
3) Decalin	0.000		0	N.D.			Qvalue
4) Naphthalene	7.907	128	157	N.D.			
5) 2-Methylnaphthalene	0.000		0	N.D.			
6) 1-Methylnaphthalene	0.000		0	N.D.			
7) 1,1'-Biphenyl	0.000		0	N.D.			
8) 2,6-Dimethylnaphthalene	0.000		0	N.D.			
12) Acenaphthylene	9.498	152	86	N.D.			
13) Acenaphthene	0.000		0	N.D.			
14) Dibenzofuran	0.000		0	N.D.			
15) 1,6,7-Trimethylnaphtha...	0.000		0	N.D.			
16) Fluorene	0.000		0	N.D.			
18) Dibenzothiopene	11.042	184	87	N.D.			
19) Phenanthrene	11.171	178	288	N.D.			
20) Anthracene	11.223	178	75	N.D.			
21) Carbazole	11.380	167	333	No Calib			
22) 1-Methylphenanthrene	11.800	192	131	N.D.			
23) Fluoranthene	12.435	202	251	N.D.			
25) Pyrene	12.727	202	195	N.D.			
27) Benz(a)anthracene	14.901	228	646	N.D.			
28) Chrysene	14.965	228	290	N.D.			
30) Benzo(b)fluoranthene	17.466	252	208	N.D.			
31) Benzo(k)fluoranthene	17.524	252	168	N.D.			
32) Benzo(e+k)fluoranthene	17.524	252	168	N.D.			
34) Benzo(e)pyrene	18.113	252	178	N.D.			
35) Benzo(a)pyrene	0.000		0	N.D.			
36) Perylene	18.439	252	178	N.D.			
38) Indeno(1,2,3-cd)Pyrene	20.770	276	158	N.D.			
39) Dibenz(a,h)anthracene	20.834	278	121	N.D.			
40) Benzo(g,h,i)perylene	21.301	276	89	N.D.			

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : N:\data\2019-09\9I06028\
Data File : N09061912.D
Acq On : 06 Sep 2019 04:18 pm
Operator :
Sample : 9I06028-ICB1
Misc : 1x, DCM + ISTD
ALS Vial : 2 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:46:43 2019
Quant Method : N:\methods\SV14_090619_PAH.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Sep 09 10:14:28 2019
Response via : Initial Calibration
InstName : SV-GCMS14



Data Path : N:\data\2019-09\9I06028\
 Data File : N09061912.D
 Acq On : 06 Sep 2019 04:18 pm
 Operator :
 Sample : 9I06028-ICB1
 Misc : 1x, DCM + ISTD
 ALS Vial : 2 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Final Request

Quant Time: Sep 10 10:28:34 2019
 Quant Method : N:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

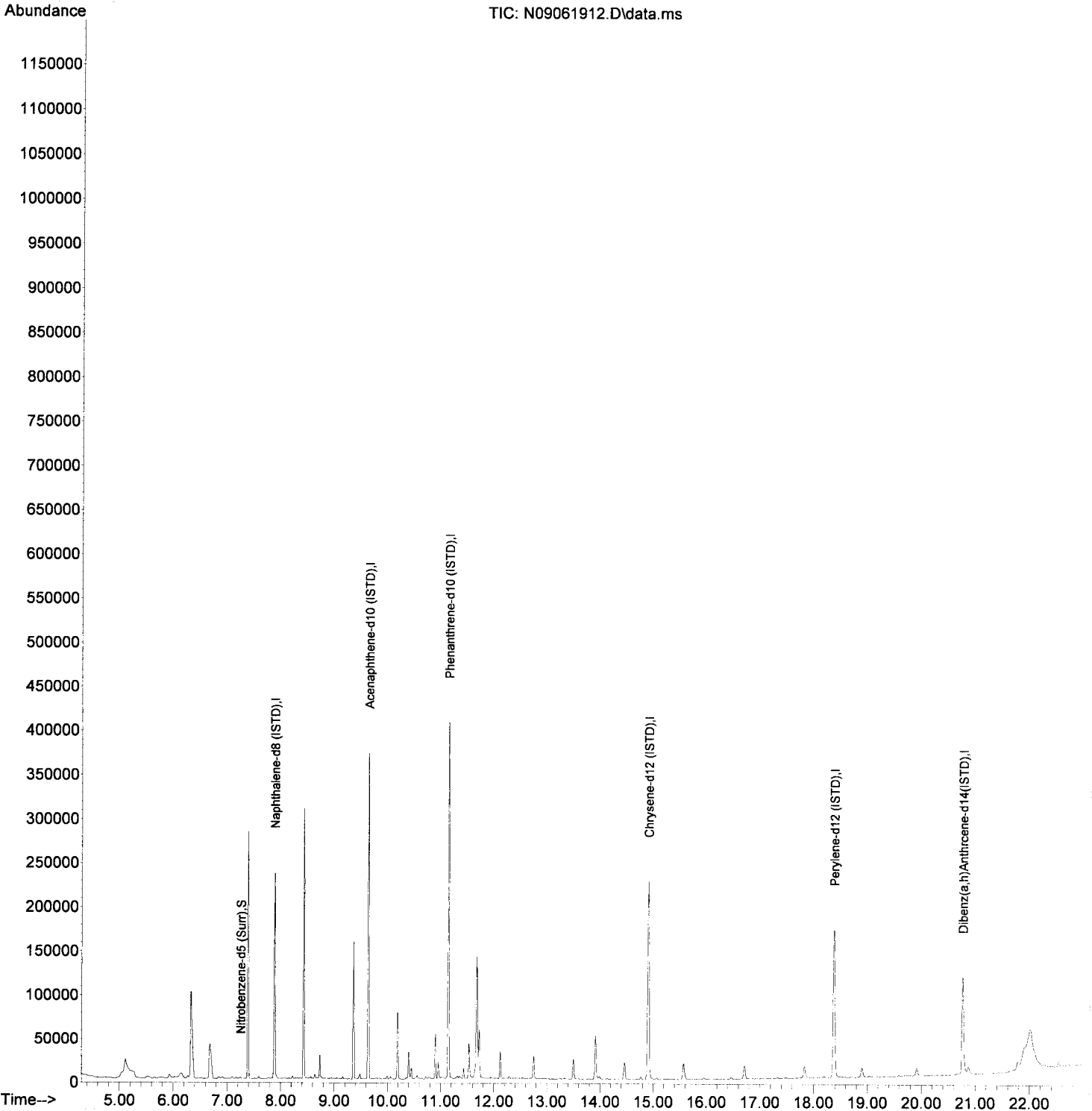
9/10/19

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	
Internal Standards							
1) Naphthalene-d8 (ISTD)	7.883	136	153621	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.643	162	109411	100.00	ng/ml	0.00	
17) Phenanthrene-d10 (ISTD)	11.147	188	203705	100.00	ng/ml	0.00	
24) Chrysene-d12 (ISTD)	14.907	240	156122	100.00	ng/ml	0.00	
29) Perylene-d12 (ISTD)	18.381	264	131660	100.00	ng/ml	0.00	
37) Dibenz(a,h)Anthracene-d...	20.765	292	95634	100.00	ng/ml	0.00	
System Monitoring Compounds							
2) Nitrobenzene-d5 (Surr)	7.254	82	241	0.47	ng/ml	0.07	
10) 2-Fluorobiphenyl (Surr)	0.000	172	0	0.00	ng/ml		
11) Acenaphthylene d-8 (Surr)	9.486	160	3573	0.17	ng/ml	0.00	
26) Terphenyl-d14 (Surr)	12.931	244	228	0.14	ng/ml	0.00	
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml		
Target Compounds							
3) Decalin	0.000		0	N.D.			Qvalue
4) Naphthalene	7.907	128	157	N.D.			
5) 2-Methylnaphthalene	0.000		0	N.D.			
6) 1-Methylnaphthalene	0.000		0	N.D.			
7) 1,1'-Biphenyl	0.000		0	N.D.			
8) 2,6-Dimethylnaphthalene	0.000		0	N.D.			
12) Acenaphthylene	9.498	152	86	N.D.			
13) Acenaphthene	0.000		0	N.D.			
14) Dibenzofuran	0.000		0	N.D.			
15) 1,6,7-Trimethylnaphtha...	0.000		0	N.D.			
16) Fluorene	0.000		0	N.D.			
18) Dibenzothiopene	11.042	184	87	N.D.			
19) Phenanthrene	11.171	178	288	N.D.			
20) Anthracene	11.223	178	75	N.D.			
21) Carbazole	11.380	167	333	N.D.			
22) 1-Methylphenanthrene	11.800	192	131	N.D.			
23) Fluoranthene	12.435	202	251	N.D.			
25) Pyrene	12.727	202	195	N.D.			
27) Benz(a)anthracene	14.901	228	646	N.D.			
28) Chrysene	14.965	228	290	N.D.			
30) Benzo(b)fluoranthene	17.466	252	208	N.D.			
31) Benzo(k)fluoranthene	17.524	252	168	N.D.			
32) Benzo(b+k)fluoranthene	17.524	252	168	N.D.			
34) Benzo(e)pyrene	18.113	252	178	N.D.			
35) Benzo(a)pyrene	0.000		0	N.D.			
36) Perylene	18.439	252	178	N.D.			
38) Indeno(1,2,3-cd)Pyrene	20.770	276	158	N.D.			
39) Dibenz(a,h)anthracene	20.834	278	121	N.D.			
40) Benzo(g,h,i)perylene	21.301	276	89	N.D.			

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : N:\data\2019-09\9I06028\
 Data File : N09061912.D
 Acq On : 06 Sep 2019 04:18 pm
 Operator :
 Sample : 9I06028-ICB1
 Misc : 1x, DCM + ISTD
 ALS Vial : 2 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 10 10:28:34 2019
 Quant Method : N:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



Data Path : N:\data\2019-09\9I06028\
 Data File : N09061913.D
 Acq On : 06 Sep 2019 04:51 pm
 Operator :
 Sample : 9I06028-CAL1
 Misc : 1x, A19I015@1
 ALS Vial : 3 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:46:51 2019
 Quant Method : N:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 10:14:28 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

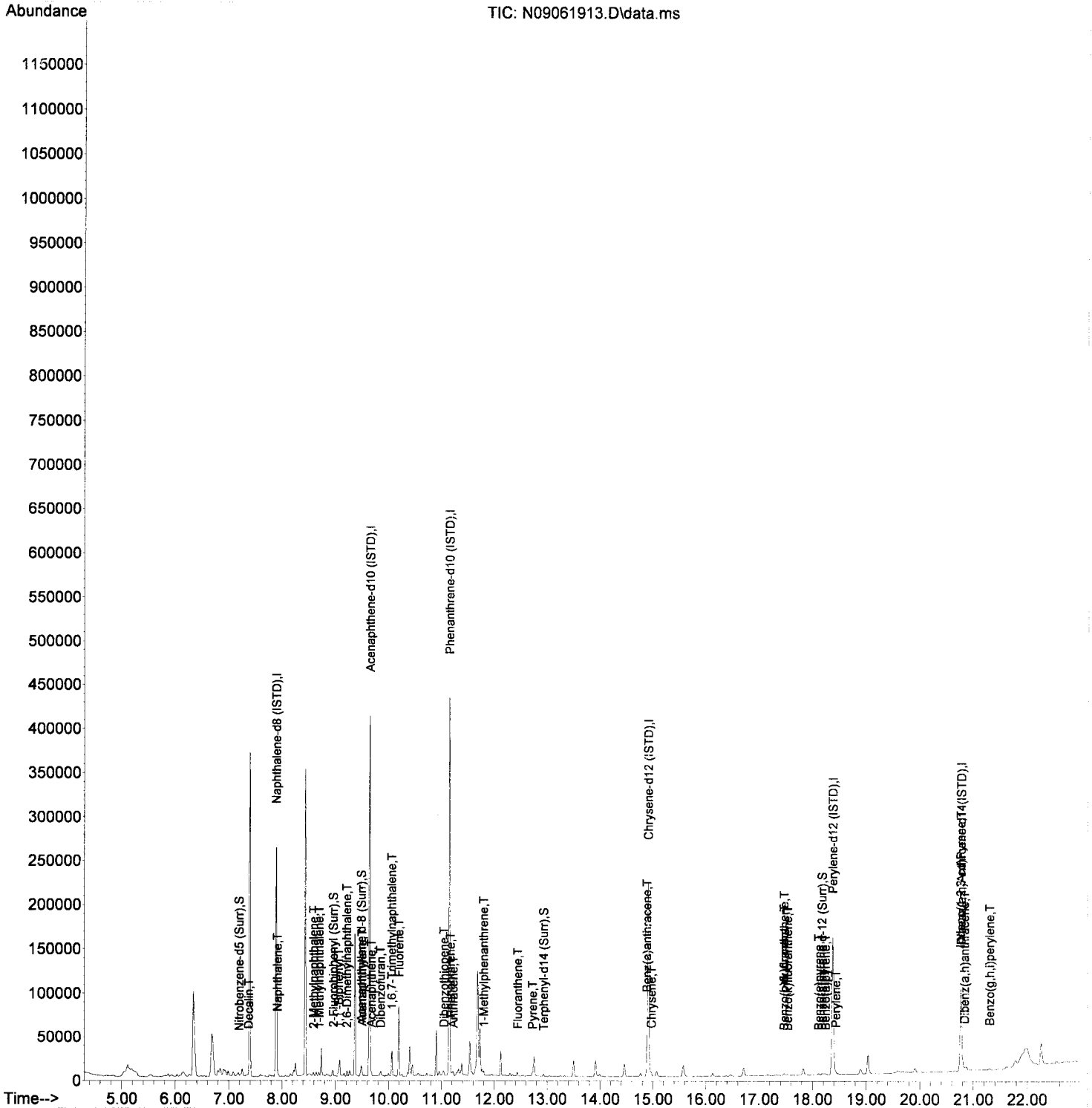
GK 9/9/19

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.883	136	173610	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.643	162	119749	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.147	188	214815	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.907	240	149008	100.00	ng/ml	0.00
29) Perylene-d12 (ISTD)	18.375	264	120943	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthracene-d...	20.764	292	80323	100.00	ng/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.189	82	679	1.18	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.956	172	1705	0.95	ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	9.486	160	5840	0.98	ng/ml	0.00
26) Terphenyl-d14 (Surr)	12.931	244	1714	1.09	ng/ml	0.00
33) Benzo(a)pyrene d-12 (S...	18.176	264	773	0.80	ng/ml	0.00
Target Compounds						
						Qvalue
3) Decalin	7.364	138	87	0.67	ng/ml#	38
4) Naphthalene	7.906	128	2011	1.05	ng/ml	99
5) 2-Methylnaphthalene	8.588	142	1551	0.96	ng/ml	94
6) 1-Methylnaphthalene	8.687	142	1426	0.88	ng/ml	100
7) 1,1'-Biphenyl	9.055	154	2122	0.97	ng/ml	93
8) 2,6-Dimethylnaphthalene	9.212	156	1429	0.90	ng/ml	93
12) Acenaphthylene	9.498	152	2455	0.94	ng/ml	98
13) Acenaphthene	9.672	153	1723	1.01	ng/ml	97
14) Dibenzofuran	9.847	168	2108	0.99	ng/ml	91
15) 1,6,7-Trimethylnaphtha...	10.057	170	1496	1.05	ng/ml	75
16) Fluorene	10.197	166	1639	0.94	ng/ml	98
18) Dibenzothiopene	11.042	184	2213	0.99	ng/ml	95
19) Phenanthrene	11.170	178	2765	1.10	ng/ml	99
20) Anthracene	11.223	178	2357	1.01	ng/ml	97
21) Carbazole	11.380	167	1874	No Calib		
22) 1-Methylphenanthrene	11.794	192	1725	0.99	ng/ml	92
23) Fluoranthene	12.435	202	2565	1.01	ng/ml	98
25) Pyrene	12.721	202	2435	1.05	ng/ml	96
27) Benz(a)anthracene	14.883	228	2077	1.20	ng/ml	98
28) Chrysene	14.965	228	1690	1.03	ng/ml	96
30) Benzo(b)fluoranthene	17.465	252	1351	0.97	ng/ml	95
31) Benzo(k)fluoranthene	17.529	252	1291	0.94	ng/ml	96
32) Benzo(b+k)fluoranthene	17.465	252	2690	0.94	ng/ml	97
34) Benzo(e)pyrene	18.112	252	1505	1.07	ng/ml	94
35) Benzo(a)pyrene	18.235	252	1189	1.00	ng/ml	99
36) Perylene	18.433	252	1255	0.85	ng/ml	99
38) Indeno(1,2,3-cd)Pyrene	20.759	276	970	0.98	ng/ml	74
39) Dibenz(a,h)anthracene	20.828	278	942	1.01	ng/ml	86
40) Benzo(g,h,i)perylene	21.295	276	1000	0.95	ng/ml	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : N:\data\2019-09\9I06028\
 Data File : N09061913.D
 Acq On : 06 Sep 2019 04:51 pm
 Operator :
 Sample : 9I06028-CAL1
 Misc : 1x, A19I015@1
 ALS Vial : 3 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:46:51 2019
 Quant Method : N:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 10:14:28 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



Data Path : N:\data\2019-09\9I06028\
 Data File : N09061914.D
 Acq On : 06 Sep 2019 05:23 pm
 Operator :
 Sample : 9I06028-CAL2
 Misc : 1x, A19I016@2.5
 ALS Vial : 4 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:46:55 2019
 Quant Method : N:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 10:14:28 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

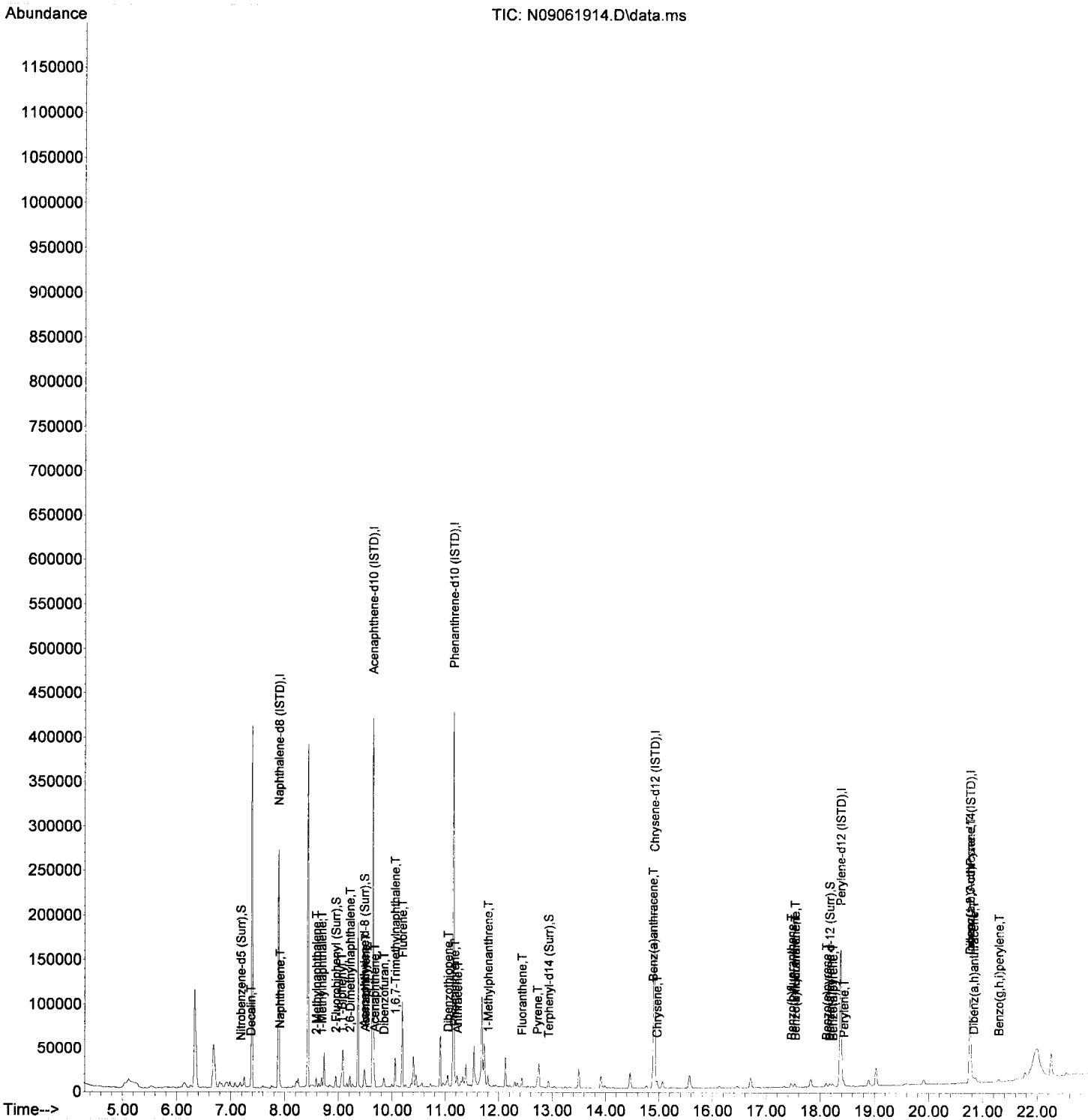
GR 9/9/19

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Naphthalene-d8 (ISTD)	7.883	136	170471	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.638	162	119278	100.00	ng/ml	0.00	
17) Phenanthrene-d10 (ISTD)	11.147	188	215482	100.00	ng/ml	0.00	
24) Chrysene-d12 (ISTD)	14.907	240	151986	100.00	ng/ml	0.00	
29) Perylene-d12 (ISTD)	18.375	264	123595	100.00	ng/ml	0.00	
37) Dibenz(a,h)Anthracene-d...	20.759	292	82584	100.00	ng/ml	0.00	
System Monitoring Compounds							
2) Nitrobenzene-d5 (Surr)	7.184	82	1447	2.55	ng/ml	0.00	
10) 2-Fluorobiphenyl (Surr)	8.950	172	4658	2.62	ng/ml	0.00	
11) Acenaphthylene d-8 (Surr)	9.480	160	9843	2.67	ng/ml	0.00	
26) Terphenyl-d14 (Surr)	12.931	244	4151	2.60	ng/ml	0.00	
33) Benzo(a)pyrene d-12 (S...	18.171	264	2322	2.35	ng/ml	0.00	
Target Compounds							
							Qvalue
3) Decalin	7.364	138	323	2.54	ng/ml		87
4) Naphthalene	7.906	128	4837	2.57	ng/ml		98
5) 2-Methylnaphthalene	8.588	142	3865	2.43	ng/ml		96
6) 1-Methylnaphthalene	8.688	142	3730	2.34	ng/ml		97
7) 1,1'-Biphenyl	9.055	154	5118	2.39	ng/ml		97
8) 2,6-Dimethylnaphthalene	9.212	156	3622	2.31	ng/ml		97
12) Acenaphthylene	9.498	152	6483	2.50	ng/ml		98
13) Acenaphthene	9.673	153	4435	2.61	ng/ml		96
14) Dibenzofuran	9.847	168	5286	2.49	ng/ml		95
15) 1,6,7-Trimethylnaphtha...	10.057	170	3598	2.53	ng/ml		87
16) Fluorene	10.191	166	4189	2.41	ng/ml		94
18) Dibenzothiopene	11.042	184	5817	2.58	ng/ml		97
19) Phenanthrene	11.171	178	6430	2.55	ng/ml		99
20) Anthracene	11.223	178	5868	2.50	ng/ml		98
21) Carbazole	11.380	167	4473	No Calib			
22) 1-Methylphenanthrene	11.794	192	4331	2.47	ng/ml		98
23) Fluoranthene	12.429	202	6070	2.39	ng/ml		95
25) Pyrene	12.721	202	6620	2.79	ng/ml		98
27) Benz(a)anthracene	14.883	228	4639	2.63	ng/ml		97
28) Chrysene	14.959	228	4207	2.52	ng/ml		99
30) Benzo(b)fluoranthene	17.460	252	3353	2.35	ng/ml		96
31) Benzo(k)fluoranthene	17.530	252	3343	2.38	ng/ml		93
32) Benzo(b+k)fluoranthene	17.530	252	6909	2.37	ng/ml		93
34) Benzo(e)pyrene	18.112	252	3623	2.51	ng/ml		97
35) Benzo(a)pyrene	18.229	252	2658	2.18	ng/ml		100
36) Perylene	18.433	252	3787	2.52	ng/ml		99
38) Indeno(1,2,3-cd)Pyrene	20.759	276	2642	2.59	ng/ml		100
39) Dibenz(a,h)anthracene	20.823	278	2361	2.47	ng/ml		87
40) Benzo(g,h,i)perylene	21.289	276	2446	2.26	ng/ml		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : N:\data\2019-09\9I06028\
 Data File : N09061914.D
 Acq On : 06 Sep 2019 05:23 pm
 Operator :
 Sample : 9I06028-CAL2
 Misc : 1x, A19I016@2.5
 ALS Vial : 4 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:46:55 2019
 Quant Method : N:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 10:14:28 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



Data Path : N:\data\2019-09\9I06028\
 Data File : N09061915.D
 Acq On : 06 Sep 2019 05:55 pm
 Operator :
 Sample : 9I06028-CAL3
 Misc : 1x, A19I017@5
 ALS Vial : 5 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:47:00 2019
 Quant Method : N:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 10:14:28 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

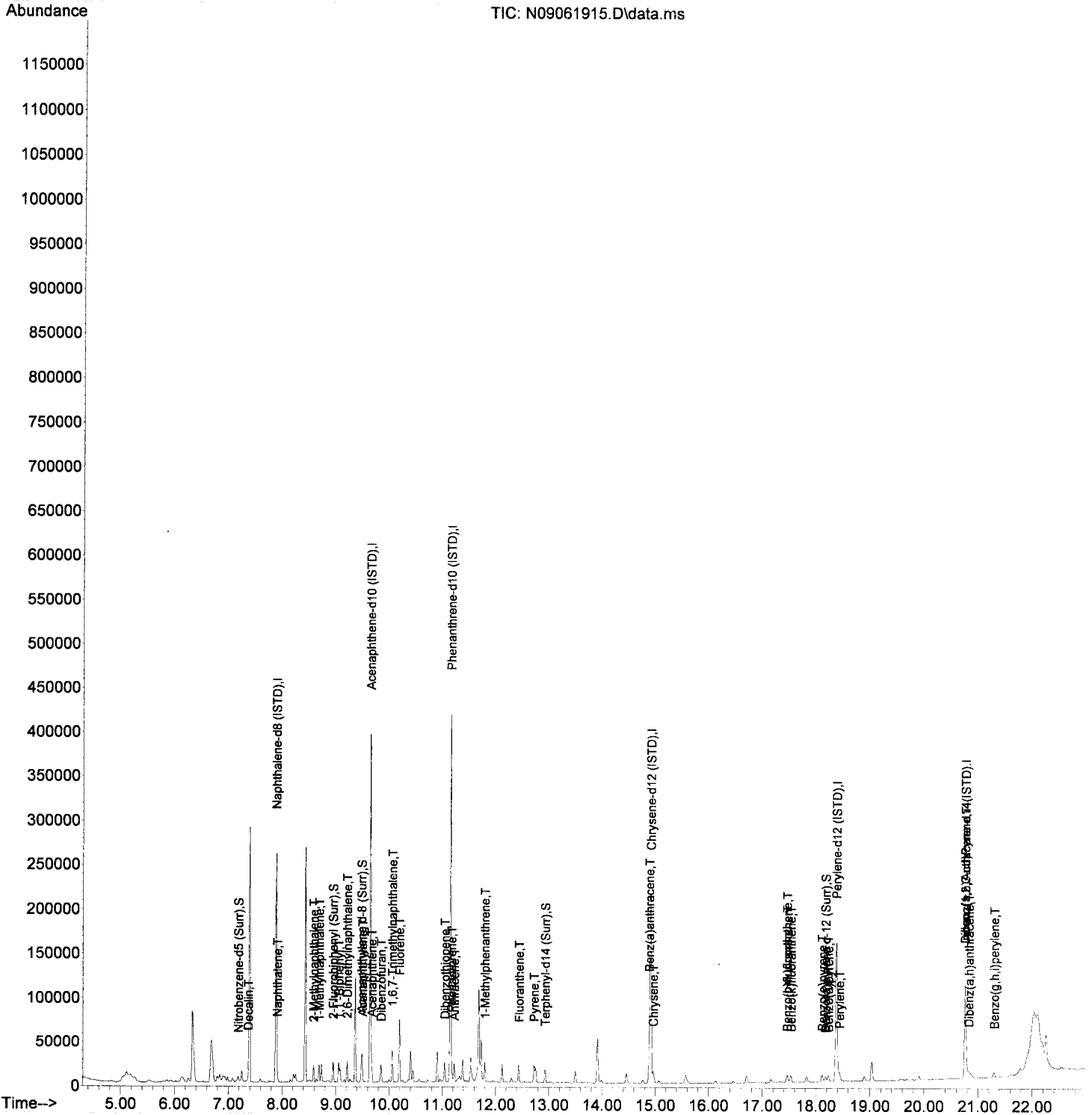
Handwritten signature and date: 9/9/19

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	
Internal Standards							
1) Naphthalene-d8 (ISTD)	7.883	136	165670	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.638	162	115422	100.00	ng/ml	0.00	
17) Phenanthrene-d10 (ISTD)	11.147	188	210311	100.00	ng/ml	0.00	
24) Chrysene-d12 (ISTD)	14.907	240	150233	100.00	ng/ml	0.00	
29) Perylene-d12 (ISTD)	18.375	264	124460	100.00	ng/ml	0.00	
37) Dibenz(a,h)Anthracene-d...	20.759	292	83358	100.00	ng/ml	0.00	
System Monitoring Compounds							
2) Nitrobenzene-d5 (Surr)	7.184	82	2621	4.76	ng/ml	0.00	
10) 2-Fluorobiphenyl (Surr)	8.950	172	8548	4.96	ng/ml	0.00	
11) Acenaphthylene d-8 (Surr)	9.480	160	14409	4.79	ng/ml	0.00	
26) Terphenyl-d14 (Surr)	12.931	244	7787	4.93	ng/ml	0.00	
33) Benzo(a)pyrene d-12 (S...	18.177	264	4638	4.66	ng/ml	0.00	
Target Compounds							
							Qvalue
3) Decalin	7.364	138	582	4.72	ng/ml		91
4) Naphthalene	7.906	128	9092	4.93	ng/ml		99
5) 2-Methylnaphthalene	8.588	142	7294	4.71	ng/ml		97
6) 1-Methylnaphthalene	8.688	142	6937	4.48	ng/ml		96
7) 1,1'-Biphenyl	9.055	154	9300	4.47	ng/ml		96
8) 2,6-Dimethylnaphthalene	9.212	156	6755	4.44	ng/ml		99
12) Acenaphthylene	9.498	152	12342	4.93	ng/ml		99
13) Acenaphthene	9.673	153	8103	4.94	ng/ml		98
14) Dibenzofuran	9.847	168	10021	4.87	ng/ml		99
15) 1,6,7-Trimethylnaphtha...	10.057	170	6769	4.92	ng/ml		98
16) Fluorene	10.191	166	8130	4.84	ng/ml		99
18) Dibenzothiopene	11.042	184	11105	5.05	ng/ml		97
19) Phenanthrene	11.171	178	11957	4.86	ng/ml		98
20) Anthracene	11.223	178	11026	4.82	ng/ml		99
21) Carbazole	11.380	167	8513	No Calib			
22) 1-Methylphenanthrene	11.794	192	8212	4.80	ng/ml		99
23) Fluoranthene	12.435	202	11610	4.68	ng/ml		98
25) Pyrene	12.721	202	11908	5.07	ng/ml		100
27) Benz(a)anthracene	14.883	228	8173	4.69	ng/ml		96
28) Chrysene	14.959	228	8164	4.95	ng/ml		96
30) Benzo(b)fluoranthene	17.460	252	6625	4.61	ng/ml		95
31) Benzo(k)fluoranthene	17.530	252	6760	4.78	ng/ml		96
32) Benzo(b+k)fluoranthene	17.460	252	13896	4.73	ng/ml		93
34) Benzo(e)pyrene	18.112	252	6692	4.61	ng/ml		98
35) Benzo(a)pyrene	18.229	252	5344	4.35	ng/ml		99
36) Perylene	18.433	252	7462	4.93	ng/ml		97
38) Indeno(1,2,3-cd)Pyrene	20.759	276	4940	4.80	ng/ml		95
39) Dibenz(a,h)anthracene	20.829	278	4673	4.84	ng/ml		98
40) Benzo(g,h,i)perylene	21.295	276	5171	4.74	ng/ml		92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : N:\data\2019-09\9I06028\
 Data File : N09061915.D
 Acq On : 06 Sep 2019 05:55 pm
 Operator :
 Sample : 9I06028-CAL3
 Misc : 1x, A19I017@5
 ALS Vial : 5 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:47:00 2019
 Quant Method : N:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 10:14:28 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



Data Path : N:\data\2019-09\9I06028\
 Data File : N09061916.D
 Acq On : 06 Sep 2019 06:27 pm
 Operator :
 Sample : 9I06028-CAL4
 Misc : 1x, A19I018@10
 ALS Vial : 6 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:47:05 2019
 Quant Method : N:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 10:14:28 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

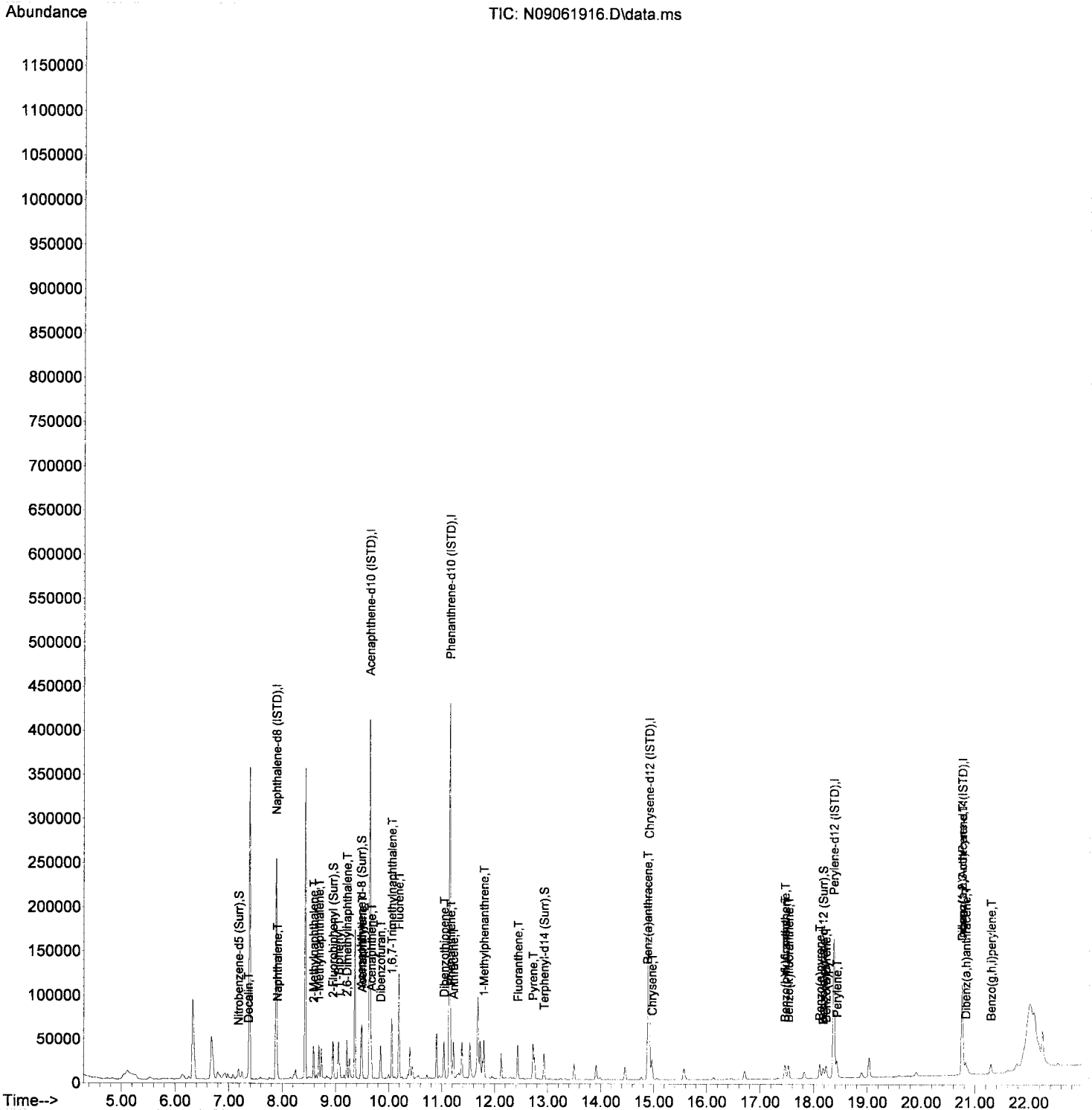
Handwritten signature and date: 9/9/19

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Naphthalene-d8 (ISTD)	7.883	136	160906	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.638	162	118305	100.00	ng/ml	0.00	
17) Phenanthrene-d10 (ISTD)	11.147	188	216396	100.00	ng/ml	0.00	
24) Chrysene-d12 (ISTD)	14.907	240	153303	100.00	ng/ml	0.00	
29) Perylene-d12 (ISTD)	18.375	264	125859	100.00	ng/ml	0.00	
37) Dibenz(a,h)Anthracene-d...	20.759	292	82058	100.00	ng/ml	0.00	
System Monitoring Compounds							
2) Nitrobenzene-d5 (Surr)	7.184	82	5073	9.49	ng/ml	0.00	
10) 2-Fluorobiphenyl (Surr)	8.950	172	17737	10.05	ng/ml	0.00	
11) Acenaphthylene d-8 (Surr)	9.480	160	27001	9.97	ng/ml	0.00	
26) Terphenyl-d14 (Surr)	12.931	244	16215	10.06	ng/ml	0.00	
33) Benzo(a)pyrene d-12 (S...	18.177	264	9551	9.49	ng/ml	0.00	
Target Compounds							
3) Decalin	7.365	138	1106	9.23	ng/ml	96	Qvalue
4) Naphthalene	7.907	128	18065	10.18	ng/ml	98	
5) 2-Methylnaphthalene	8.589	142	14250	9.48	ng/ml	98	
6) 1-Methylnaphthalene	8.688	142	14747	9.81	ng/ml	97	
7) 1,1'-Biphenyl	9.055	154	19088	9.44	ng/ml	99	
8) 2,6-Dimethylnaphthalene	9.212	156	13690	9.27	ng/ml	97	
12) Acenaphthylene	9.498	152	25683	10.00	ng/ml	98	
13) Acenaphthene	9.673	153	16768	9.97	ng/ml	99	
14) Dibenzofuran	9.848	168	21062	10.00	ng/ml	97	
15) 1,6,7-Trimethylnaphtha...	10.057	170	13937	9.88	ng/ml	99	
16) Fluorene	10.191	166	16819	9.77	ng/ml	100	
18) Dibenzothiopene	11.042	184	22465	9.93	ng/ml	98	
19) Phenanthrene	11.171	178	25204	9.95	ng/ml	100	
20) Anthracene	11.223	178	22988	9.76	ng/ml	100	
21) Carbazole	11.380	167	17697	No Calib			
22) 1-Methylphenanthrene	11.794	192	17190	9.77	ng/ml	100	
23) Fluoranthene	12.435	202	24321	9.53	ng/ml	98	
25) Pyrene	12.721	202	25073	10.47	ng/ml	99	
27) Benz(a)anthracene	14.883	228	16760	9.42	ng/ml	97	
28) Chrysene	14.965	228	16658	9.89	ng/ml	99	
30) Benzo(b)fluoranthene	17.466	252	13743	9.46	ng/ml	97	
31) Benzo(k)fluoranthene	17.530	252	13038	9.12	ng/ml	95	
32) Benzo(b+k)fluoranthene	17.466	252	28065	9.45	ng/ml	95	
34) Benzo(e)pyrene	18.113	252	13726	9.35	ng/ml	98	
35) Benzo(a)pyrene	18.229	252	11353	9.13	ng/ml	99	
36) Perylene	18.433	252	14964	9.77	ng/ml	97	
38) Indeno(1,2,3-cd)Pyrene	20.759	276	9774	9.66	ng/ml	91	
39) Dibenz(a,h)anthracene	20.829	278	9159	9.63	ng/ml	90	
40) Benzo(g,h,i)perylene	21.295	276	10267	9.56	ng/ml	92	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : N:\data\2019-09\9I06028\
 Data File : N09061916.D
 Acq On : 06 Sep 2019 06:27 pm
 Operator :
 Sample : 9I06028-CAL4
 Misc : 1x, A19I018@10
 ALS Vial : 6 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:47:05 2019
 Quant Method : N:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 10:14:28 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



Data Path : N:\data\2019-09\9I06028\
 Data File : N09061917.D
 Acq On : 06 Sep 2019 07:00 pm
 Operator :
 Sample : 9I06028-CAL5
 Misc : 1x, A19I019@25
 ALS Vial : 7 Sample Multiplier: 1
 DataAcq Meth:LV114_BNA_ACQ.M

Quant Time: Sep 09 14:47:10 2019
 Quant Method : N:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 10:14:28 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

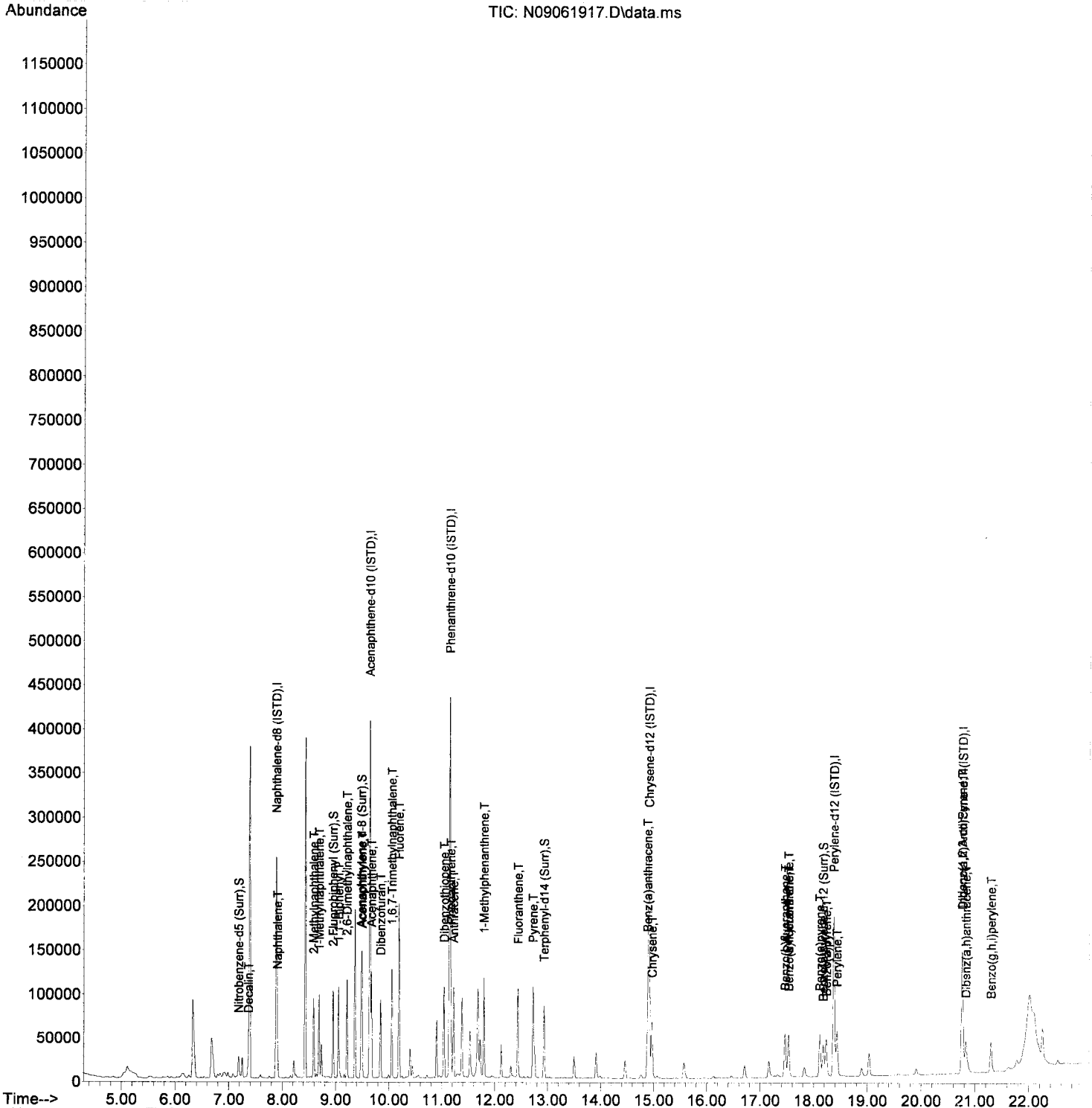
Handwritten: Jd 9/9/19

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Naphthalene-d8 (ISTD)	7.883	136	158689	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.638	162	118239	100.00	ng/ml	0.00	
17) Phenanthrene-d10 (ISTD)	11.147	188	219818	100.00	ng/ml	0.00	
24) Chrysene-d12 (ISTD)	14.907	240	167298	100.00	ng/ml	0.00	
29) Perylene-d12 (ISTD)	18.375	264	142122	100.00	ng/ml	0.00	
37) Dibenz(a,h)Anthracene-d...	20.765	292	96960	100.00	ng/ml	0.00	
System Monitoring Compounds							
2) Nitrobenzene-d5 (Surr)	7.184	82	12124	22.99	ng/ml	0.00	
10) 2-Fluorobiphenyl (Surr)	8.950	172	44333	25.13	ng/ml	0.00	
11) Acenaphthylene d-8 (Surr)	9.480	160	62320	24.95	ng/ml	0.00	
26) Terphenyl-d14 (Surr)	12.931	244	44339	25.20	ng/ml	0.00	
33) Benzo(a)pyrene d-12 (S...	18.177	264	27791	24.45	ng/ml	0.00	
Target Compounds							
							Qvalue
3) Decalin	7.365	138	2777	23.50	ng/ml		94
4) Naphthalene	7.907	128	43246	24.71	ng/ml		99
5) 2-Methylnaphthalene	8.589	142	35507	23.94	ng/ml		98
6) 1-Methylnaphthalene	8.688	142	36615	24.69	ng/ml		98
7) 1,1'-Biphenyl	9.055	154	47414	23.77	ng/ml		98
8) 2,6-Dimethylnaphthalene	9.212	156	35377	24.28	ng/ml		98
12) Acenaphthylene	9.498	152	64887	25.28	ng/ml		98
13) Acenaphthene	9.673	153	41951	24.95	ng/ml	100	
14) Dibenzofuran	9.848	168	52926	25.13	ng/ml		98
15) 1,6,7-Trimethylnaphtha...	10.057	170	34543	24.50	ng/ml		99
16) Fluorene	10.191	166	43186	25.10	ng/ml		99
18) Dibenzothiopene	11.042	184	56622	24.63	ng/ml		98
19) Phenanthrene	11.171	178	63419	24.66	ng/ml	100	
20) Anthracene	11.223	178	58731	24.55	ng/ml		99
21) Carbazole	11.380	167	47604	No Calib			
22) 1-Methylphenanthrene	11.794	192	44094	24.68	ng/ml		99
23) Fluoranthene	12.435	202	63845	24.64	ng/ml		99
25) Pyrene	12.721	202	66093	25.29	ng/ml		99
27) Benz(a)anthracene	14.883	228	46578	23.98	ng/ml		99
28) Chrysene	14.965	228	45910	24.98	ng/ml		99
30) Benzo(b)fluoranthene	17.466	252	40093	24.45	ng/ml		97
31) Benzo(k)fluoranthene	17.530	252	40088	24.83	ng/ml		98
32) Benzo(b+k)fluoranthene	17.530	252	83294	24.83	ng/ml		98
34) Benzo(e)pyrene	18.113	252	40463	24.40	ng/ml		98
35) Benzo(a)pyrene	18.235	252	34709	24.73	ng/ml		99
36) Perylene	18.433	252	43783	25.33	ng/ml	100	
38) Indeno(1,2,3-cd)Pyrene	20.759	276	28895	24.16	ng/ml		94
39) Dibenz(a,h)anthracene	20.829	278	27156	24.16	ng/ml		92
40) Benzo(g,h,i)perylene	21.295	276	31234	24.62	ng/ml		92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : N:\data\2019-09\9I06028\
 Data File : N09061917.D
 Acq On : 06 Sep 2019 07:00 pm
 Operator :
 Sample : 9I06028-CAL5
 Misc : 1x, A19I019@25
 ALS Vial : 7 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:47:10 2019
 Quant Method : N:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 10:14:28 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



Data Path : N:\data\2019-09\9I06028\
 Data File : N09061918.D
 Acq On : 06 Sep 2019 07:32 pm
 Operator :
 Sample : 9I06028-CAL6
 Misc : 1x, A19I020@50
 ALS Vial : 8 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:47:15 2019
 Quant Method : N:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 10:14:28 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

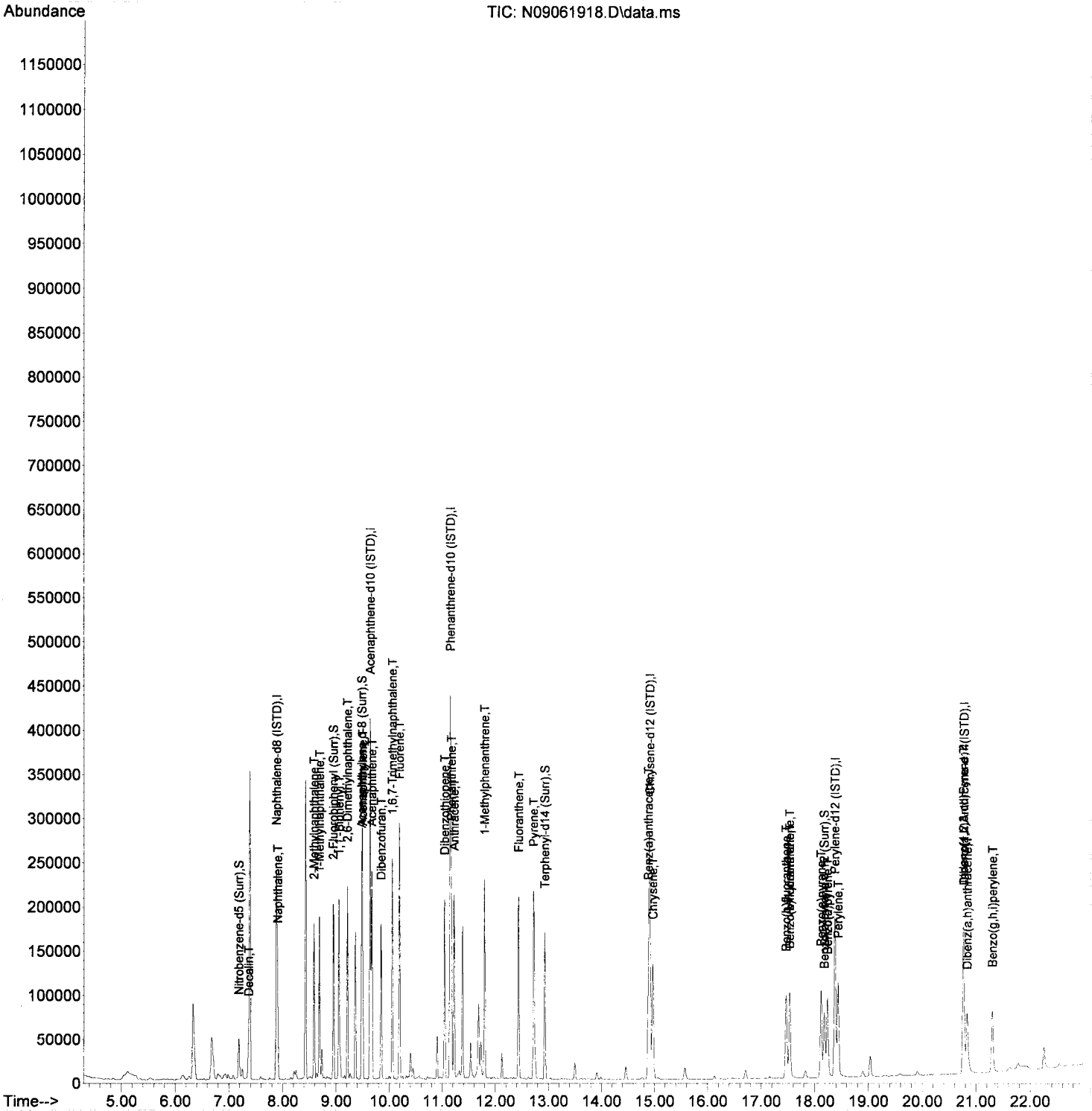
JD 9/9/19

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Naphthalene-d8 (ISTD)	7.883	136	148351	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.638	162	117951	100.00	ng/ml	0.00	
17) Phenanthrene-d10 (ISTD)	11.147	188	219661	100.00	ng/ml	0.00	
24) Chrysene-d12 (ISTD)	14.907	240	169841	100.00	ng/ml	0.00	
29) Perylene-d12 (ISTD)	18.375	264	142416	100.00	ng/ml	0.00	
37) Dibenz(a,h)Anthrcene-d...	20.765	292	93265	100.00	ng/ml	0.00	
System Monitoring Compounds							
2) Nitrobenzene-d5 (Surr)	7.184	82	23996	48.68	ng/ml	0.00	
10) 2-Fluorobiphenyl (Surr)	8.950	172	87417	49.68	ng/ml	0.00	
11) Acenaphthylene d-8 (Surr)	9.480	160	119179	49.18	ng/ml	0.00	
26) Terphenyl-d14 (Surr)	12.931	244	88785	49.70	ng/ml	0.00	
33) Benzo(a)pyrene d-12 (S...	18.177	264	57544	50.53	ng/ml	0.00	
Target Compounds							
							Qvalue
3) Decalin	7.364	138	5568	50.41	ng/ml		97
4) Naphthalene	7.907	128	80326	49.09	ng/ml		99
5) 2-Methylnaphthalene	8.589	142	69811	50.35	ng/ml		98
6) 1-Methylnaphthalene	8.688	142	71477	51.56	ng/ml		97
7) 1,1'-Biphenyl	9.055	154	93359	50.06	ng/ml		98
8) 2,6-Dimethylnaphthalene	9.212	156	69912	51.34	ng/ml		97
12) Acenaphthylene	9.498	152	128075	50.02	ng/ml		99
13) Acenaphthene	9.673	153	82212	49.02	ng/ml		100
14) Dibenzofuran	9.848	168	104783	49.88	ng/ml		98
15) 1,6,7-Trimethylnaphtha...	10.057	170	68907	48.99	ng/ml		99
16) Fluorene	10.191	166	85319	49.71	ng/ml		100
18) Dibenzothiopene	11.042	184	113451	49.38	ng/ml		98
19) Phenanthrene	11.171	178	126501	49.21	ng/ml		100
20) Anthracene	11.223	178	118187	49.43	ng/ml		99
21) Carbazole	11.380	167	95634	No Calib			
22) 1-Methylphenanthrene	11.794	192	88417	49.52	ng/ml		99
23) Fluoranthene	12.435	202	128587	49.65	ng/ml		99
25) Pyrene	12.721	202	133393	50.27	ng/ml		100
27) Benz(a)anthracene	14.883	228	93207	47.27	ng/ml		100
28) Chrysene	14.965	228	91866	49.23	ng/ml		99
30) Benzo(b)fluoranthene	17.466	252	82867	50.43	ng/ml		98
31) Benzo(k)fluoranthene	17.530	252	79638	49.22	ng/ml		97
32) Benzo(b+k)fluoranthene	17.530	252	167848	49.93	ng/ml		97
34) Benzo(e)pyrene	18.118	252	81957	49.32	ng/ml		99
35) Benzo(a)pyrene	18.235	252	71520	50.85	ng/ml		98
36) Perylene	18.433	252	86757	50.08	ng/ml		100
38) Indeno(1,2,3-cd)Pyrene	20.759	276	57046	49.59	ng/ml		90
39) Dibenz(a,h)anthracene	20.829	278	53335	49.34	ng/ml		90
40) Benzo(g,h,i)perylene	21.295	276	61905	50.73	ng/ml		90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : N:\data\2019-09\9I06028\
 Data File : N09061918.D
 Acq On : 06 Sep 2019 07:32 pm
 Operator :
 Sample : 9I06028-CAL6
 Misc : 1x, A19I020@50
 ALS Vial : 8 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:47:15 2019
 Quant Method : N:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 10:14:28 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



Data Path : N:\data\2019-09\9I06028\
 Data File : N09061919.D
 Acq On : 06 Sep 2019 08:04 pm
 Operator :
 Sample : 9I06028-CAL7
 Misc : 1x, A19I021@100
 ALS Vial : 9 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:47:19 2019
 Quant Method : N:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 10:14:28 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

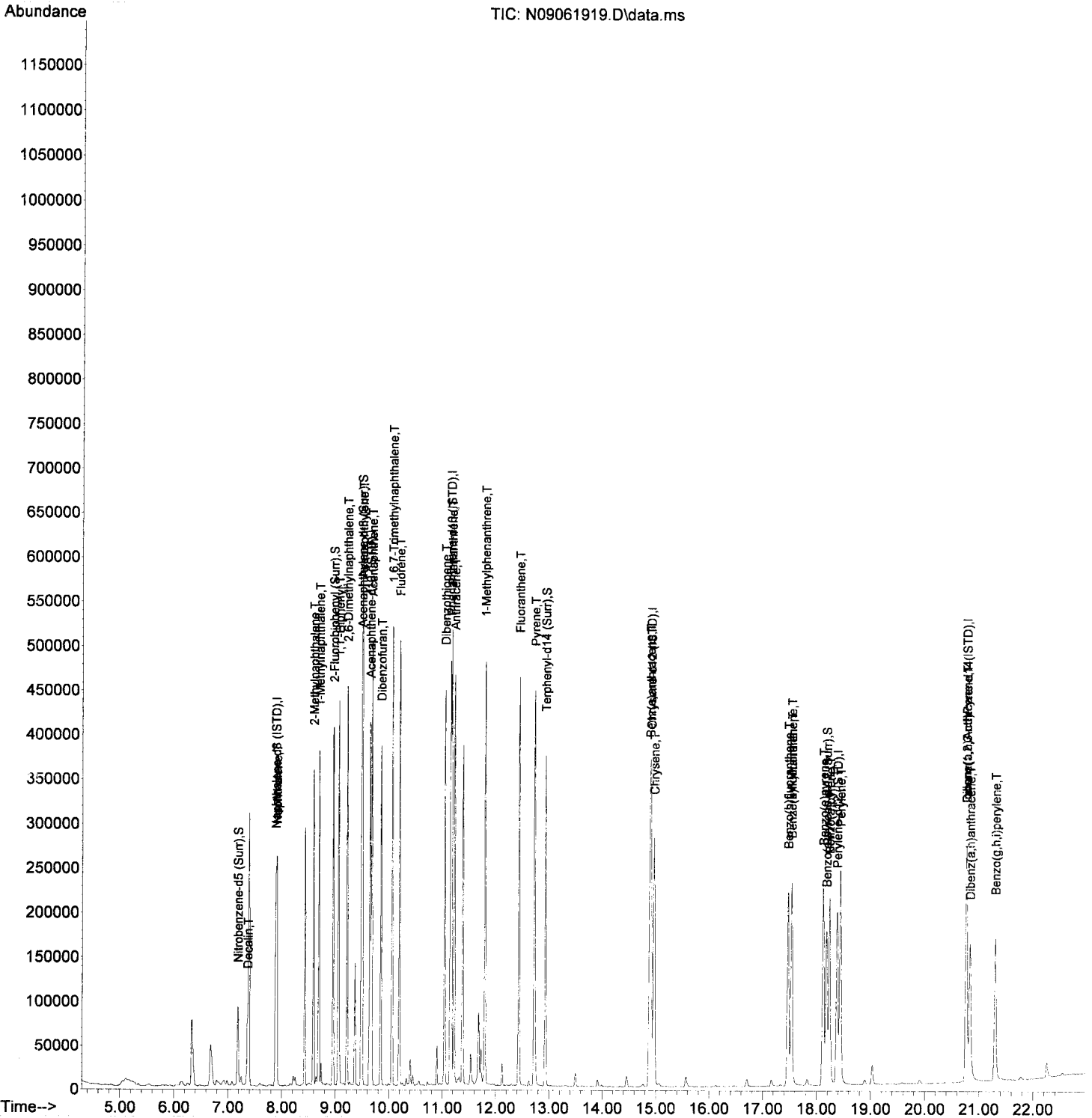
JD 9/9/19

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Naphthalene-d8 (ISTD)	7.883	136	148917	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.638	162	121411	100.00	ng/ml	0.00	
17) Phenanthrene-d10 (ISTD)	11.147	188	233582	100.00	ng/ml	0.00	
24) Chrysene-d12 (ISTD)	14.907	240	187274	100.00	ng/ml	0.00	
29) Perylene-d12 (ISTD)	18.381	264	159070	100.00	ng/ml	0.00	
37) Dibenz(a,h)Anthracene-d...	20.764	292	103600	100.00	ng/ml	0.00	
System Monitoring Compounds							
2) Nitrobenzene-d5 (Surr)	7.184	82	48056	97.11	ng/ml	0.00	
10) 2-Fluorobiphenyl (Surr)	8.956	172	182001	100.48	ng/ml	0.00	
11) Acenaphthylene d-8 (Surr)	9.480	160	248072	101.01	ng/ml	0.00	
26) Terphenyl-d14 (Surr)	12.931	244	196418	99.72	ng/ml	0.00	
33) Benzo(a)pyrene d-12 (S...	18.182	264	134446	105.69	ng/ml	0.00	
Target Compounds							
							Qvalue
3) Decalin	7.364	138	11430	103.09	ng/ml		94
4) Naphthalene	7.906	128	161201	98.15	ng/ml		100
5) 2-Methylnaphthalene	8.588	142	143766	103.29	ng/ml		99
6) 1-Methylnaphthalene	8.687	142	146804	105.50	ng/ml		98
7) 1,1'-Biphenyl	9.055	154	197491	105.50	ng/ml		99
8) 2,6-Dimethylnaphthalene	9.212	156	148070	108.31	ng/ml		97
12) Acenaphthylene	9.498	152	272913	103.54	ng/ml		99
13) Acenaphthene	9.672	153	175245	101.51	ng/ml		100
14) Dibenzofuran	9.847	168	222327	102.81	ng/ml		98
15) 1,6,7-Trimethylnaphtha...	10.057	170	147218	101.68	ng/ml		100
16) Fluorene	10.191	166	185216	104.84	ng/ml		99
18) Dibenzothiopene	11.042	184	245278	100.40	ng/ml		98
19) Phenanthrene	11.170	178	270427	98.94	ng/ml		100
20) Anthracene	11.223	178	259236	101.96	ng/ml		99
21) Carbazole	11.380	167	211369	No Calib			
22) 1-Methylphenanthrene	11.794	192	192550	101.41	ng/ml		98
23) Fluoranthene	12.435	202	280652	101.91	ng/ml		99
25) Pyrene	12.727	202	292089	99.83	ng/ml		99
27) Benz(a)anthracene	14.889	228	213884	98.37	ng/ml		99
28) Chrysene	14.971	228	205074	99.67	ng/ml		99
30) Benzo(b)fluoranthene	17.471	252	189979	103.50	ng/ml		97
31) Benzo(k)fluoranthene	17.535	252	190175	105.23	ng/ml		97
32) Benzo(b+k)fluoranthene	17.535	252	390913	104.11	ng/ml		97
34) Benzo(e)pyrene	18.124	252	188367	101.49	ng/ml		98
35) Benzo(a)pyrene	18.241	252	165951	105.68	ng/ml		99
36) Perylene	18.439	252	198533	102.60	ng/ml		100
38) Indeno(1,2,3-cd)Pyrene	20.764	276	130568	102.18	ng/ml		90
39) Dibenz(a,h)anthracene	20.834	278	122057	101.65	ng/ml		90
40) Benzo(g,h,i)perylene	21.301	276	143780	106.06	ng/ml		91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : N:\data\2019-09\9I06028\
 Data File : N09061919.D
 Acq On : 06 Sep 2019 08:04 pm
 Operator :
 Sample : 9I06028-CAL7
 Misc : 1x, A19I021@100
 ALS Vial : 9 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:47:19 2019
 Quant Method : N:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 10:14:28 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



Data Path : N:\data\2019-09\9I06028\
 Data File : N09061920.D
 Acq On : 06 Sep 2019 08:37 pm
 Operator :
 Sample : 9I06028-CAL8
 Misc : 1x, A19I022@200
 ALS Vial : 10 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:47:30 2019
 Quant Method : N:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 10:14:28 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

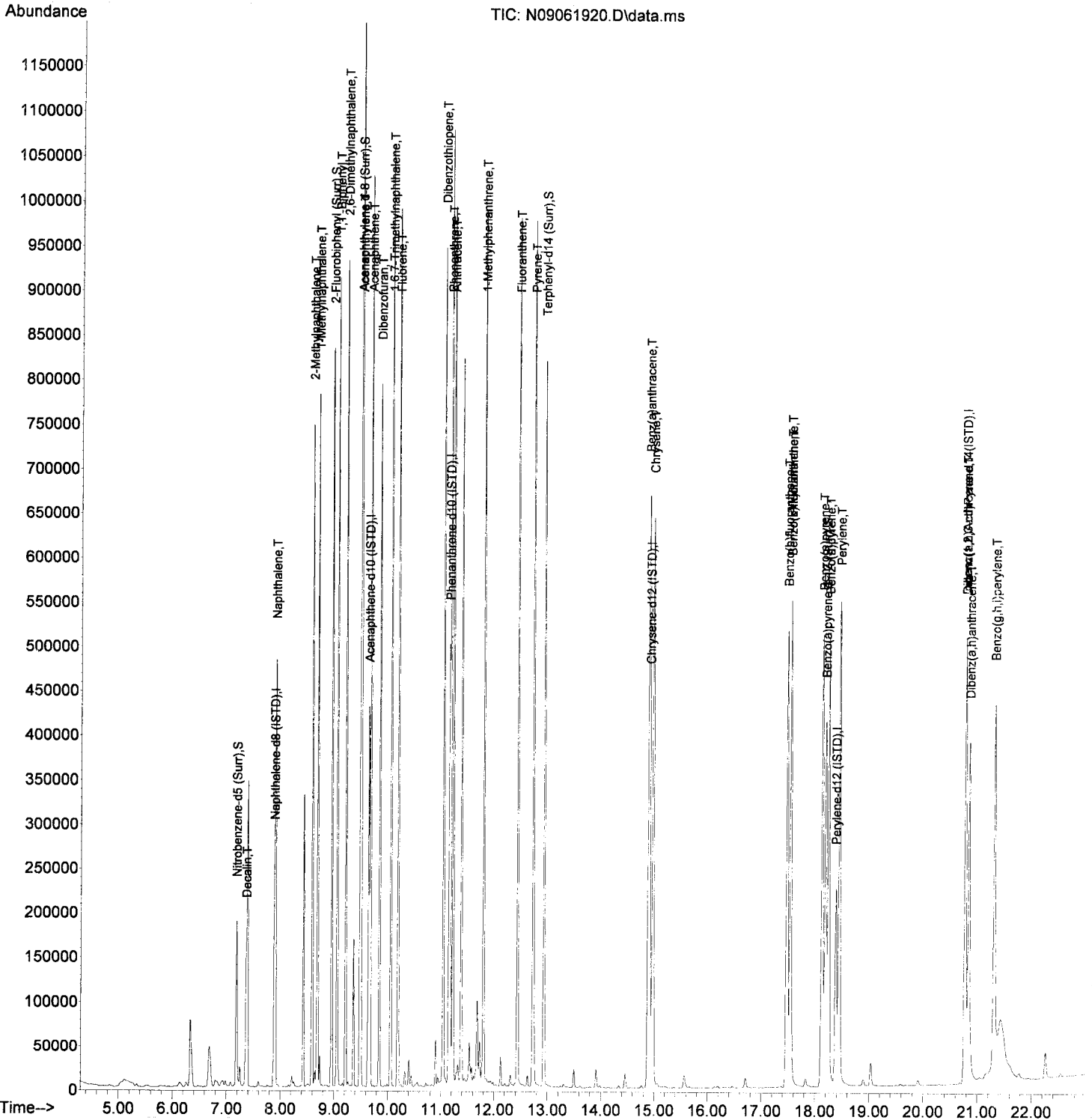
JK 9/9/19

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	
Internal Standards							
1) Naphthalene-d8 (ISTD)	7.883	136	148783	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.638	162	126650	100.00	ng/ml	0.00	
17) Phenanthrene-d10 (ISTD)	11.147	188	244292	100.00	ng/ml	0.00	
24) Chrysene-d12 (ISTD)	14.913	240	211033	100.00	ng/ml	0.00	
29) Perylene-d12 (ISTD)	18.381	264	182214	100.00	ng/ml	0.00	
37) Dibenz(a,h)Anthracene-d...	20.770	292	126578	100.00	ng/ml	0.00	
System Monitoring Compounds							
2) Nitrobenzene-d5 (Surr)	7.184	82	99288	200.83	ng/ml	0.00	
10) 2-Fluorobiphenyl (Surr)	8.956	172	378966	200.57	ng/ml	0.00	
11) Acenaphthylene d-8 (Surr)	9.486	160	514554	202.58	ng/ml	0.00	
26) Terphenyl-d14 (Surr)	12.931	244	430770	194.09	ng/ml	0.00	
33) Benzo(a)pyrene d-12 (S...	18.188	264	322602	221.39	ng/ml	0.01	
Target Compounds							
							Qvalue
3) Decalin	7.364	138	22829	206.09	ng/ml		95
4) Naphthalene	7.907	128	324908	198.00	ng/ml		100
5) 2-Methylnaphthalene	8.588	142	297992	214.30	ng/ml		98
6) 1-Methylnaphthalene	8.688	142	304942	219.34	ng/ml		98
7) 1,1'-Biphenyl	9.055	154	413306	220.99	ng/ml		98
8) 2,6-Dimethylnaphthalene	9.212	156	307564	225.18	ng/ml		99
12) Acenaphthylene	9.498	152	568160	206.64	ng/ml		99
13) Acenaphthene	9.673	153	362489	201.28	ng/ml		100
14) Dibenzofuran	9.848	168	462691	205.12	ng/ml		99
15) 1,6,7-Trimethylnaphtha...	10.057	170	307091	203.33	ng/ml		98
16) Fluorene	10.197	166	391380	212.38	ng/ml		99
18) Dibenzothiopene	11.042	184	515882	201.91	ng/ml		98
19) Phenanthrene	11.171	178	575793	201.42	ng/ml		100
20) Anthracene	11.223	178	544931	204.94	ng/ml		99
21) Carbazole	11.380	167	461912	No Calib			
22) 1-Methylphenanthrene	11.800	192	411489	207.21	ng/ml		99
23) Fluoranthene	12.435	202	599723	208.23	ng/ml		99
25) Pyrene	12.727	202	623857	189.22	ng/ml		100
27) Benz(a)anthracene	14.889	228	484834	197.88	ng/ml		99
28) Chrysene	14.971	228	465584	200.80	ng/ml		99
30) Benzo(b)fluoranthene	17.477	252	448476	213.30	ng/ml		96
31) Benzo(k)fluoranthene	17.541	252	445148	215.03	ng/ml		97
32) Benzo(b+k)fluoranthene	17.541	252	917698	213.36	ng/ml		97
34) Benzo(e)pyrene	18.130	252	441980	207.89	ng/ml		99
35) Benzo(a)pyrene	18.247	252	395245	219.68	ng/ml		98
36) Perylene	18.451	252	467343	210.85	ng/ml		99
38) Indeno(1,2,3-cd)Pyrene	20.770	276	319524	204.65	ng/ml		89
39) Dibenz(a,h)anthracene	20.840	278	302142	205.95	ng/ml		89
40) Benzo(g,h,i)perylene	21.307	276	353209	213.26	ng/ml		90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : N:\data\2019-09\9I06028\
 Data File : N09061920.D
 Acq On : 06 Sep 2019 08:37 pm
 Operator :
 Sample : 9I06028-CAL8
 Misc : 1x, A19I022@200
 ALS Vial : 10 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:47:30 2019
 Quant Method : N:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 10:14:28 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



Data Path : N:\data\2019-09\9I06028\
 Data File : N09061921.D
 Acq On : 06 Sep 2019 09:09 pm
 Operator :
 Sample : 9I06028-CAL9
 Misc : 1x, A19I023@300
 ALS Vial : 11 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:47:34 2019
 Quant Method : N:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 10:14:28 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

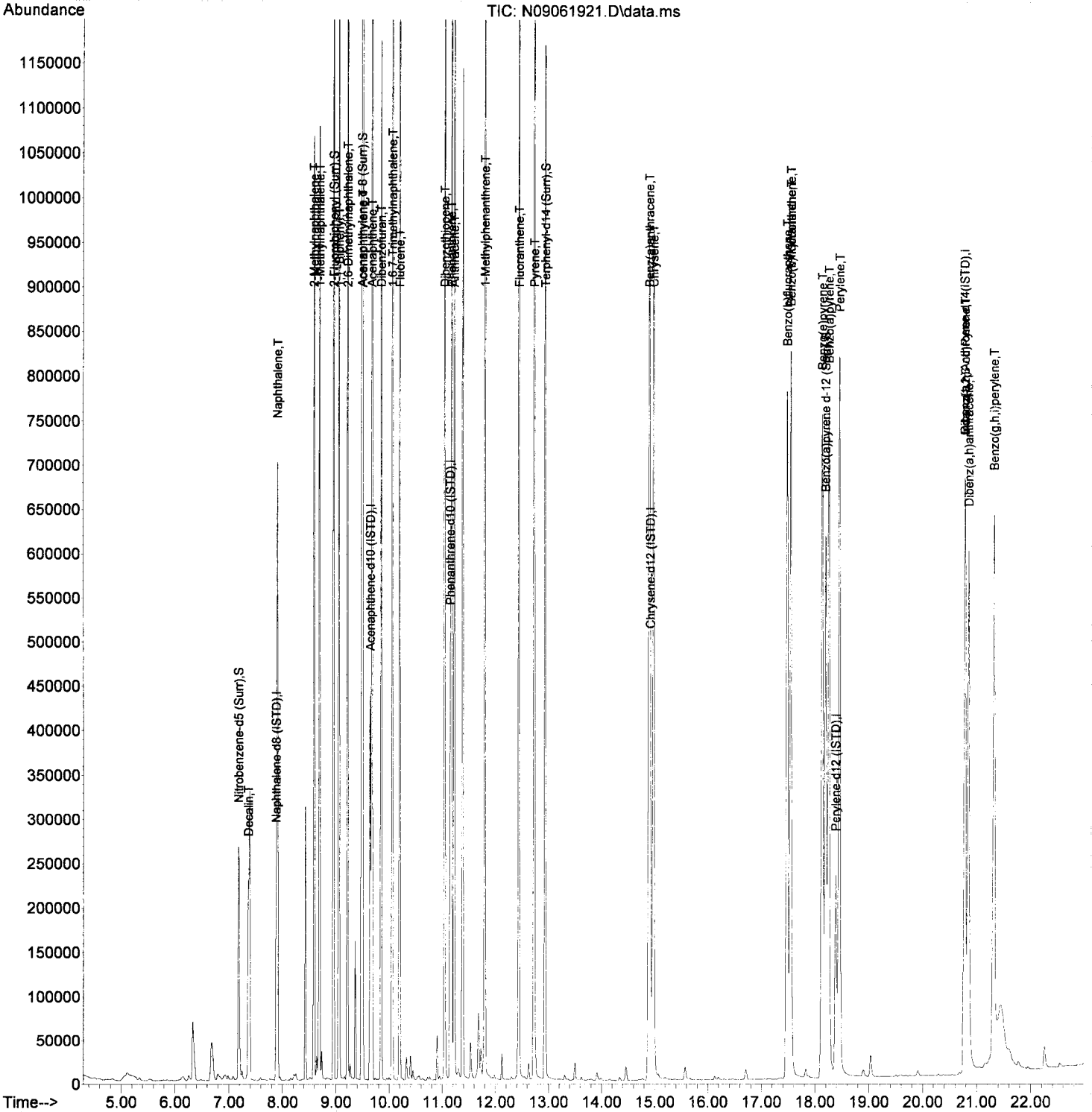
9/9/19

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	
Internal Standards							
1) Naphthalene-d8 (ISTD)	7.883	136	144322	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.643	162	126204	100.00	ng/ml	0.00	
17) Phenanthrene-d10 (ISTD)	11.147	188	242216	100.00	ng/ml	0.00	
24) Chrysene-d12 (ISTD)	14.918	240	215566	100.00	ng/ml	0.01	
29) Perylene-d12 (ISTD)	18.386	264	189767	100.00	ng/ml	0.01	
37) Dibenz(a,h)Anthracene-d...	20.776	292	133133	100.00	ng/ml	0.01	
System Monitoring Compounds							
2) Nitrobenzene-d5 (Surr)	7.184	82	146381	305.23	ng/ml	0.00	
10) 2-Fluorobiphenyl (Surr)	8.955	172	559316	297.07	ng/ml	0.00	
11) Acenaphthylene d-8 (Surr)	9.486	160	745779	295.55	ng/ml	0.00	
26) Terphenyl-d14 (Surr)	12.936	244	642064	283.20	ng/ml	0.00	
33) Benzo(a)pyrene d-12 (S...	18.194	264	500951	330.10	ng/ml	0.02	
Target Compounds							
							Qvalue
3) Decalin	7.364	138	32583	303.24	ng/ml		97
4) Naphthalene	7.906	128	466678	293.18	ng/ml		100
5) 2-Methylnaphthalene	8.588	142	433604	321.46	ng/ml		99
6) 1-Methylnaphthalene	8.693	142	439781	326.10	ng/ml		99
7) 1,1'-Biphenyl	9.055	154	601929	331.80	ng/ml		98
8) 2,6-Dimethylnaphthalene	9.218	156	447080	337.45	ng/ml		99
12) Acenaphthylene	9.498	152	818063	298.58	ng/ml		99
13) Acenaphthene	9.672	153	525474	292.81	ng/ml		99
14) Dibenzofuran	9.847	168	670519	298.30	ng/ml		100
15) 1,6,7-Trimethylnaphtha...	10.057	170	446194	296.47	ng/ml		97
16) Fluorene	10.197	166	565155	307.76	ng/ml		99
18) Dibenzothiopene	11.042	184	757296	298.94	ng/ml		98
19) Phenanthrene	11.170	178	823752	290.63	ng/ml		99
20) Anthracene	11.223	178	800967	303.81	ng/ml		100
21) Carbazole	11.380	167	683176	No Calib			
22) 1-Methylphenanthrene	11.800	192	600130	304.80	ng/ml		99
23) Fluoranthene	12.441	202	885026	309.92	ng/ml		98
25) Pyrene	12.727	202	915663	271.88	ng/ml		100
27) Benz(a)anthracene	14.895	228	736689	294.35	ng/ml		100
28) Chrysene	14.976	228	698605	294.96	ng/ml		99
30) Benzo(b)fluoranthene	17.483	252	692733	316.36	ng/ml		96
31) Benzo(k)fluoranthene	17.547	252	681890	316.29	ng/ml		97
32) Benzo(b+k)fluoranthene	17.547	252	1407871	314.29	ng/ml		97
34) Benzo(e)pyrene	18.136	252	676479	305.53	ng/ml		99
35) Benzo(a)pyrene	18.258	252	607972	324.39	ng/ml		98
36) Perylene	18.456	252	713926	309.27	ng/ml		99
38) Indeno(1,2,3-cd)Pyrene	20.782	276	498760	303.72	ng/ml		88
39) Dibenz(a,h)anthracene	20.846	278	471957	305.86	ng/ml		90
40) Benzo(g,h,i)perylene	21.318	276	546350	313.63	ng/ml		89

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : N:\data\2019-09\9I06028\
Data File : N09061921.D
Acq On : 06 Sep 2019 09:09 pm
Operator :
Sample : 9I06028-CAL9
Misc : 1x, A19I023@300
ALS Vial : 11 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:47:34 2019
Quant Method : N:\methods\SV14_090619_PAH.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Sep 09 10:14:28 2019
Response via : Initial Calibration
InstName : SV-GCMS14



Data Path : N:\data\2019-09\9I06028\
 Data File : N09061922.D
 Acq On : 06 Sep 2019 09:41 pm
 Operator :
 Sample : 9I06028-CALA
 Misc : 1x, A19I024@400
 ALS Vial : 12 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:47:40 2019
 Quant Method : N:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 10:14:28 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

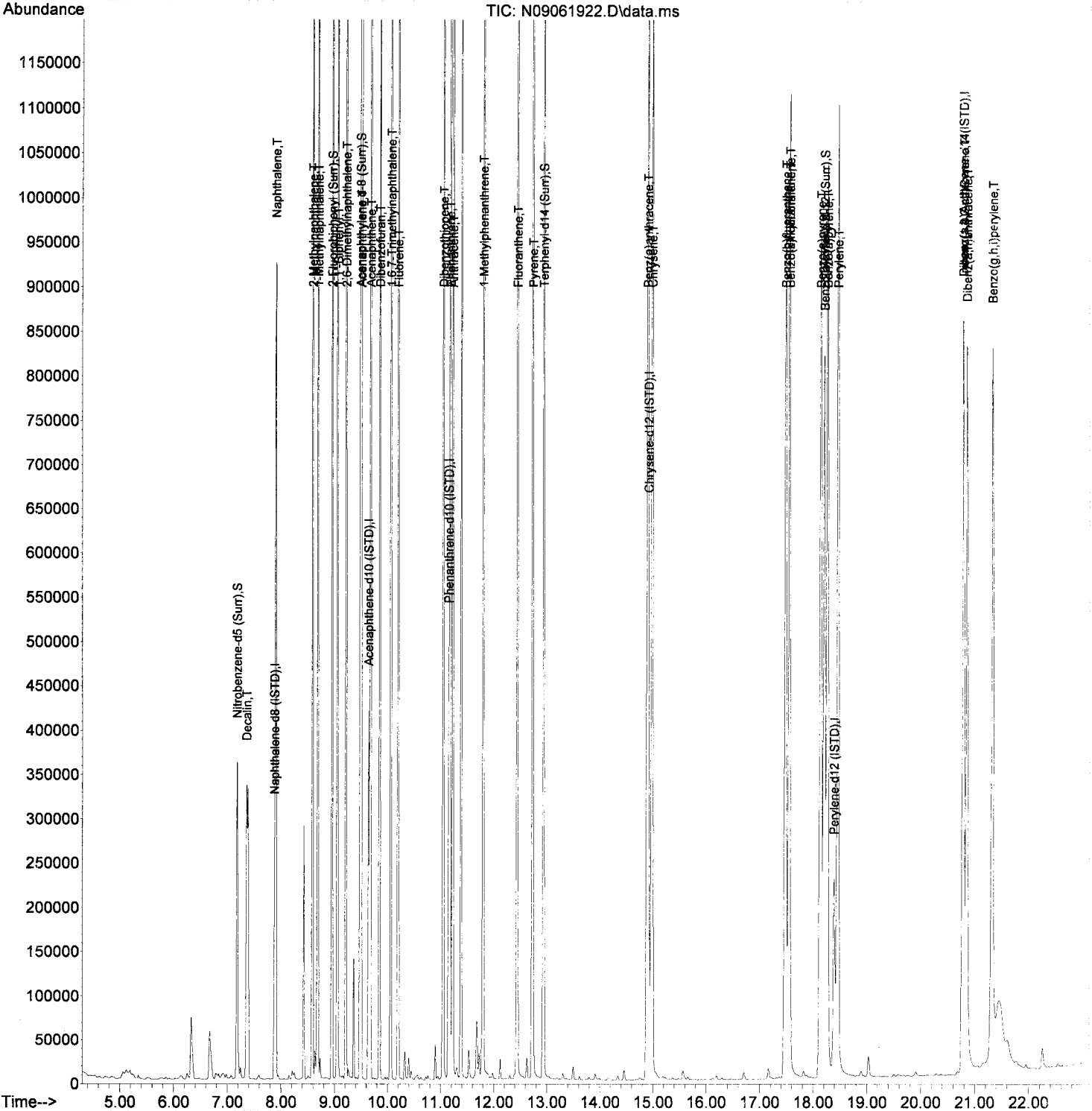
Handwritten signature and date: 9/9/19

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	
Internal Standards							
1) Naphthalene-d8 (ISTD)	7.877	136	151798	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.638	162	120378	100.00	ng/ml	0.00	
17) Phenanthrene-d10 (ISTD)	11.147	188	227701	100.00	ng/ml	0.00	
24) Chrysene-d12 (ISTD)	14.913	240	211373	100.00	ng/ml	0.00	
29) Perylene-d12 (ISTD)	18.387	264	191099	100.00	ng/ml	0.01	
37) Dibenz(a,h)Anthracene-d...	20.776	292	134738	100.00	ng/ml	0.01	
System Monitoring Compounds							
2) Nitrobenzene-d5 (Surr)	7.178	82	204654	405.72	ng/ml	0.00	
10) 2-Fluorobiphenyl (Surr)	8.950	172	721151	401.56	ng/ml	0.00	
11) Acenaphthylene d-8 (Surr)	9.480	160	964800	401.86	ng/ml	0.00	
26) Terphenyl-d14 (Surr)	12.931	244	855839	384.98	ng/ml	0.00	
33) Benzo(a)pyrene d-12 (S...	18.200	264	689197	450.98	ng/ml	0.02	
Target Compounds							
							Qvalue
3) Decalin	7.359	138	49479	437.80	ng/ml		96
4) Naphthalene	7.901	128	662079	395.46	ng/ml		100
5) 2-Methylnaphthalene	8.589	142	592165	417.39	ng/ml		99
6) 1-Methylnaphthalene	8.688	142	595669	419.94	ng/ml		98
7) 1,1'-Biphenyl	9.055	154	776505	406.95	ng/ml		98
8) 2,6-Dimethylnaphthalene	9.212	156	574431	412.22	ng/ml		99
12) Acenaphthylene	9.498	152	1039006	397.57	ng/ml		99
13) Acenaphthene	9.673	153	672408	392.83	ng/ml		99
14) Dibenzofuran	9.848	168	849810	396.36	ng/ml		99
15) 1,6,7-Trimethylnaphtha...	10.057	170	567245	395.14	ng/ml		98
16) Fluorene	10.191	166	710688	405.74	ng/ml		99
18) Dibenzothiopene	11.042	184	950081	398.95	ng/ml		98
19) Phenanthrene	11.171	178	1041489	390.88	ng/ml		99
20) Anthracene	11.223	178	1015402	409.70	ng/ml		100
21) Carbazole	11.380	167	865078	No Calib			
22) 1-Methylphenanthrene	11.794	192	771189	416.65	ng/ml		99
23) Fluoranthene	12.435	202	1148955	427.99	ng/ml		98
25) Pyrene	12.727	202	1201811	363.93	ng/ml		100
27) Benz(a)anthracene	14.889	228	991720	404.11	ng/ml		99
28) Chrysene	14.977	228	942172	405.69	ng/ml		99
30) Benzo(b)fluoranthene	17.483	252	952609	432.01	ng/ml		96
31) Benzo(k)fluoranthene	17.553	252	938589	432.32	ng/ml		96
32) Benzo(b+k)fluoranthene	17.553	252	1935514	429.07	ng/ml		96
34) Benzo(e)pyrene	18.136	252	924774	414.75	ng/ml		99
35) Benzo(a)pyrene	18.258	252	837229	443.59	ng/ml		98
36) Perylene	18.456	252	976822	420.21	ng/ml		99
38) Indeno(1,2,3-cd)Pyrene	20.782	276	691371	416.00	ng/ml		88
39) Dibenz(a,h)anthracene	20.846	278	656172	420.18	ng/ml		89
40) Benzo(g,h,i)perylene	21.318	276	751545	426.28	ng/ml		89

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : N:\data\2019-09\9I06028\
Data File : N09061922.D
Acq On : 06 Sep 2019 09:41 pm
Operator :
Sample : 9I06028-CALA
Misc : 1x, A19I024@400
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:47:40 2019
Quant Method : N:\methods\SV14_090619_PAH.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Sep 09 10:14:28 2019
Response via : Initial Calibration
InstName : SV-GCMS14



Data Path : N:\data\2019-09\9I06028\
 Data File : N09061924.D
 Acq On : 06 Sep 2019 10:45 pm
 Operator :
 Sample : 9I06028-ICV1
 Misc : 1x, A19I025@50
 ALS Vial : 13 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:47:49 2019
 Quant Method : N:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 10:14:28 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

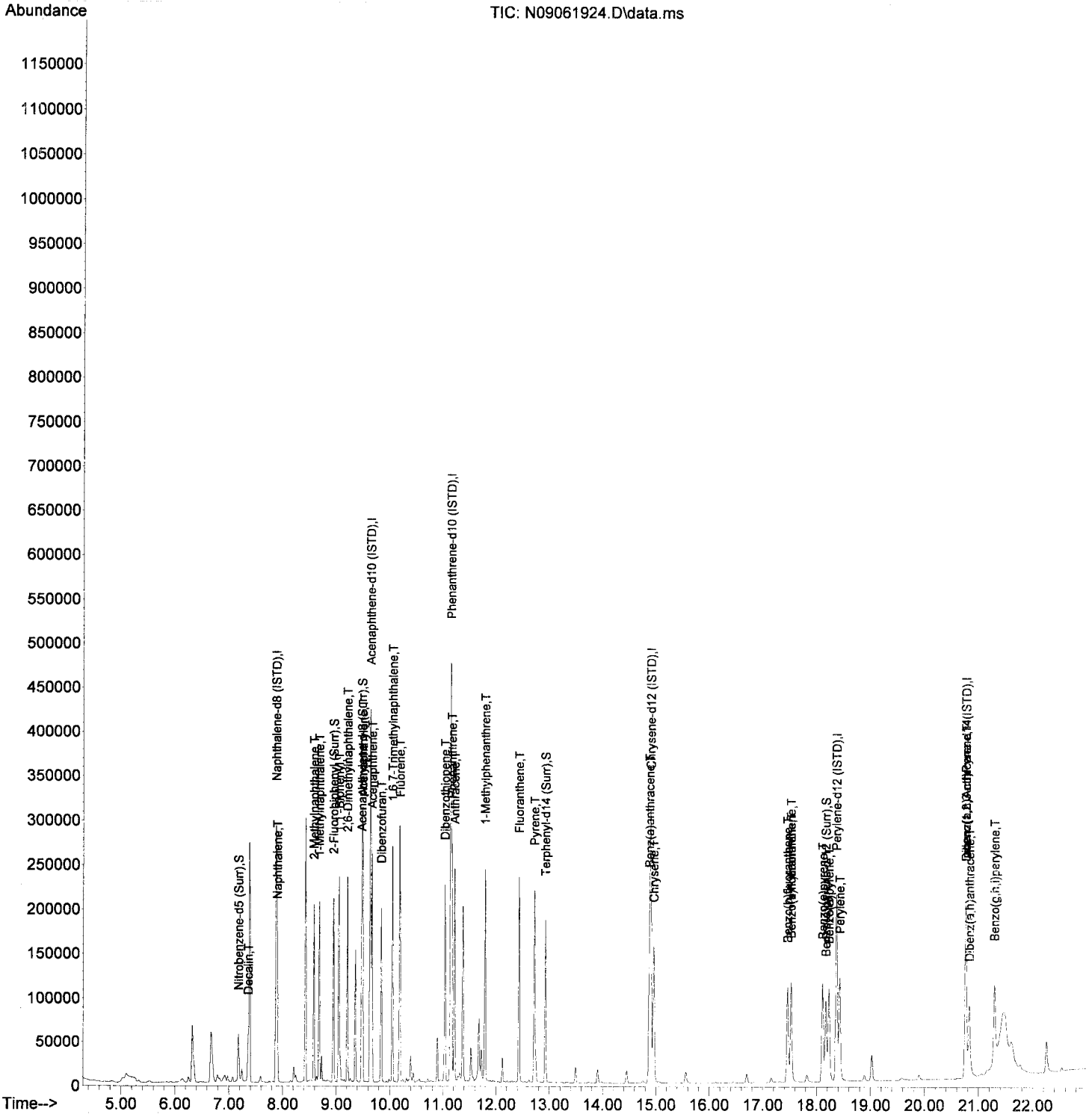
Handwritten signature/initials
 9/9/19

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Naphthalene-d8 (ISTD)	7.877	136	181748	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.638	162	125177	100.00	ng/ml	0.00	
17) Phenanthrene-d10 (ISTD)	11.141	188	235054	100.00	ng/ml	0.00	
24) Chrysene-d12 (ISTD)	14.901	240	188693	100.00	ng/ml	0.00	
29) Perylene-d12 (ISTD)	18.369	264	162940	100.00	ng/ml	0.00	
37) Dibenz(a,h)Anthrcene-d...	20.759	292	108931	100.00	ng/ml	0.00	
System Monitoring Compounds							
2) Nitrobenzene-d5 (Surr)	7.178	82	27909	46.21	ng/ml	0.00	
10) 2-Fluorobiphenyl (Surr)	8.950	172	92755	49.67	ng/ml	0.00	
11) Acenaphthylene d-8 (Surr)	9.474	160	126796	49.31	ng/ml	0.00	
26) Terphenyl-d14 (Surr)	12.925	244	96645	48.70	ng/ml	0.00	
33) Benzo(a)pyrene d-12 (S...	18.171	264	69335	53.21	ng/ml	0.00	
Target Compounds							
3) Decalin	7.359	138	6597	48.75	ng/ml		Qvalue 96
4) Naphthalene	7.901	128	100112	49.94	ng/ml		99
5) 2-Methylnaphthalene	8.583	142	79542	46.83	ng/ml		99
6) 1-Methylnaphthalene	8.682	142	81122	47.77	ng/ml		98
7) 1,1'-Biphenyl	9.049	154	105870	46.34	ng/ml		98
8) 2,6-Dimethylnaphthalene	9.206	156	76410	45.80	ng/ml		98
12) Acenaphthylene	9.492	152	141177	51.95	ng/ml		99
13) Acenaphthene	9.667	153	89594	50.33	ng/ml	100	
14) Dibenzofuran	9.842	168	113513	50.91	ng/ml		98
15) 1,6,7-Trimethylnaphtha...	10.052	170	74864	50.15	ng/ml		99
16) Fluorene	10.191	166	92650	50.87	ng/ml		98
18) Dibenzothiopene	11.037	184	122412	49.79	ng/ml		98
19) Phenanthrene	11.165	178	138621	50.40	ng/ml	100	
20) Anthracene	11.217	178	132505	51.79	ng/ml		99
21) Carbazole	11.375	167	104923	No Calib			
22) 1-Methylphenanthrene	11.788	192	98289	51.44	ng/ml	100	
23) Fluoranthene	12.430	202	140103	50.56	ng/ml		99
25) Pyrene	12.721	202	144864	49.14	ng/ml		99
27) Benz(a)anthracene	14.878	228	106201	48.48	ng/ml		99
28) Chrysene	14.959	228	108583	52.38	ng/ml		99
30) Benzo(b)fluoranthene	17.460	252	95110	50.59	ng/ml		97
31) Benzo(k)fluoranthene	17.524	252	92505	49.97	ng/ml		97
32) Benzo(b+k)fluoranthene	17.524	252	193724	50.37	ng/ml		97
34) Benzo(e)pyrene	18.113	252	95583	50.28	ng/ml		98
35) Benzo(a)pyrene	18.229	252	82357	51.18	ng/ml		99
36) Perylene	18.427	252	100869	50.89	ng/ml	100	
38) Indeno(1,2,3-cd)Pyrene	20.759	276	67142	49.97	ng/ml		89
39) Dibenz(a,h)anthracene	20.823	278	62283	49.33	ng/ml		90
40) Benzo(g,h,i)perylene	21.289	276	76359	53.57	ng/ml		91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : N:\data\2019-09\9I06028\
 Data File : N09061924.D
 Acq On : 06 Sep 2019 10:45 pm
 Operator :
 Sample : 9I06028-ICV1
 Misc : 1x, A19I025@50
 ALS Vial : 13 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:47:49 2019
 Quant Method : N:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 10:14:28 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



Data Path : N:\data\2019-09\9I06028\
 Data File : N09061924.D
 Acq On : 06 Sep 2019 10:45 pm
 Operator :
 Sample : 9I06028-ICV1
 Misc : 1x, A19I025@50
 ALS Vial : 13 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Final Request

Quant Time: Sep 10 10:28:40 2019
 Quant Method : N:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

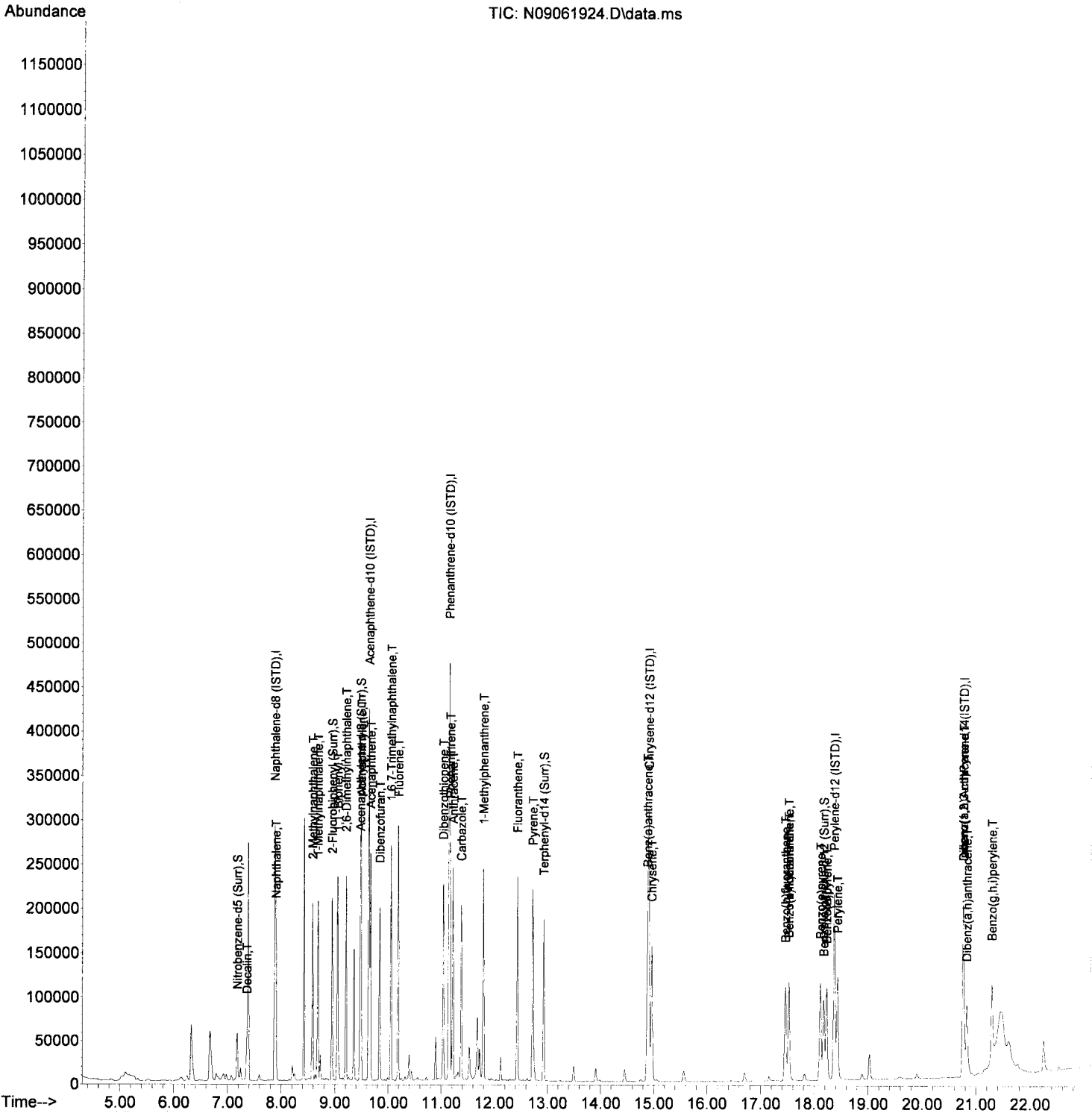
JD 9/10/19

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	
Internal Standards							
1) Naphthalene-d8 (ISTD)	7.877	136	181748	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.638	162	125177	100.00	ng/ml	0.00	
17) Phenanthrene-d10 (ISTD)	11.141	188	235054	100.00	ng/ml	0.00	
24) Chrysene-d12 (ISTD)	14.901	240	188693	100.00	ng/ml	0.00	
29) Perylene-d12 (ISTD)	18.369	264	162940	100.00	ng/ml	0.00	
37) Dibenz(a,h)Anthracene-d...	20.759	292	108931	100.00	ng/ml	0.00	
System Monitoring Compounds							
2) Nitrobenzene-d5 (Surr)	7.178	82	27909	46.21	ng/ml	0.00	
10) 2-Fluorobiphenyl (Surr)	8.950	172	92755	49.67	ng/ml	0.00	
11) Acenaphthylene d-8 (Surr)	9.474	160	126796	49.31	ng/ml	0.00	
26) Terphenyl-d14 (Surr)	12.925	244	96645	48.70	ng/ml	0.00	
33) Benzo(a)pyrene d-12 (S...	18.171	264	69335	53.21	ng/ml	0.00	
Target Compounds							
							Qvalue
3) Decalin	7.359	138	6597	48.75	ng/ml		96
4) Naphthalene	7.901	128	100112	49.94	ng/ml		99
5) 2-Methylnaphthalene	8.583	142	79542	46.83	ng/ml		99
6) 1-Methylnaphthalene	8.682	142	81122	47.77	ng/ml		98
7) 1,1'-Biphenyl	9.049	154	105870	46.34	ng/ml		98
8) 2,6-Dimethylnaphthalene	9.206	156	76410	45.80	ng/ml		98
12) Acenaphthylene	9.492	152	141177	51.95	ng/ml		99
13) Acenaphthene	9.667	153	89594	50.33	ng/ml		100
14) Dibenzofuran	9.842	168	113513	50.91	ng/ml		98
15) 1,6,7-Trimethylnaphtha...	10.052	170	74864	50.15	ng/ml		99
16) Fluorene	10.191	166	92650	50.87	ng/ml		98
18) Dibenzothiopene	11.037	184	122412	49.79	ng/ml		98
19) Phenanthrene	11.165	178	138621	50.40	ng/ml		100
20) Anthracene	11.217	178	132505	51.79	ng/ml		99
21) Carbazole	11.375	167	104923	50.68	ng/ml		99
22) 1-Methylphenanthrene	11.788	192	98289	51.44	ng/ml		100
23) Fluoranthene	12.430	202	140103	50.56	ng/ml		99
25) Pyrene	12.721	202	144864	49.14	ng/ml		99
27) Benz(a)anthracene	14.878	228	106201	48.48	ng/ml		99
28) Chrysene	14.959	228	108583	52.38	ng/ml		99
30) Benzo(b)fluoranthene	17.460	252	95110	50.59	ng/ml		97
31) Benzo(k)fluoranthene	17.524	252	92505	49.97	ng/ml		97
32) Benzo(b+k)fluoranthene	17.524	252	193724	100.73	ng/ml		97
34) Benzo(e)pyrene	18.113	252	95583	50.28	ng/ml		98
35) Benzo(a)pyrene	18.229	252	82357	51.18	ng/ml		99
36) Perylene	18.427	252	100869	50.89	ng/ml		100
38) Indeno(1,2,3-cd)Pyrene	20.759	276	67142	49.98	ng/ml		89
39) Dibenz(a,h)anthracene	20.823	278	62283	49.34	ng/ml		90
40) Benzo(g,h,i)perylene	21.289	276	76359	53.58	ng/ml		91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : N:\data\2019-09\9I06028\
 Data File : N09061924.D
 Acq On : 06 Sep 2019 10:45 pm
 Operator :
 Sample : 9I06028-ICV1
 Misc : 1x, A19I025@50
 ALS Vial : 13 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 10 10:28:40 2019
 Quant Method : N:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



**Conventional Chemistry Parameters
Total Organic Carbon (EPA 9060A mod)
Benchsheet & Analysis Sequence Data**

Batch 9091328
Sequence 9J03020 (A9I0771-01,02,03,04,05,06)



Apex Laboratories
PREPARATION BENCH SHEET

BATCH #: 9091328 (Sediment)

Prep Method: PSEP TOC

#	Lab Number	Analysis	Prepared	Initial (g)	Final (g)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH			
												<2	5-8	>11	
	9091328-BLK1	QC	09/26/19 10:43	5	5										
	9091328-BS1	QC	09/26/19 10:43	5	5	A19I352		1							
	A9I0771-01	A Total Organic Carbon - Soil (5310 B)	09/26/19 10:43	5	5					PDI-014SG-00-0.78-190923					
	A9I0771-02	A Total Organic Carbon - Soil (5310 B)	09/26/19 10:43	5	5					PDI-1014SG-00-0.78-190923					
	A9I0771-03	A Total Organic Carbon - Soil (5310 B)	09/26/19 10:43	5	5					PDI-015SG-00-0.87-190924					
	A9I0771-04	A Total Organic Carbon - Soil (5310 B)	09/26/19 10:43	5	5					PDI-022SG-00-01-190924					
	A9I0771-05	A Total Organic Carbon - Soil (5310 B)	09/26/19 10:43	5	5					PDI-101SG-00-01-190923					
	A9I0771-06	A Total Organic Carbon - Soil (5310 B)	09/26/19 10:43	5	5					PDI-102SG-00-01-190923	MS/MSD this sample				
	9091328-DUP1	QC	09/26/19 10:43	5	5		A9I0771-06								
	A9I0780-01	A Total Organic Carbon - Soil (5310 B)	09/26/19 10:43	5	5					PDI-103SG-00-01-190924					
	A9I0780-02	A Total Organic Carbon - Soil (5310 B)	09/26/19 10:43	5	5					PDI-104SG-00-01-190924					
	A9I0780-03	A Total Organic Carbon - Soil (5310 B)	09/26/19 10:43	5	5					PDI-105SG-00-0.99-190924					
	A9I0780-04	A Total Organic Carbon - Soil (5310 B)	09/26/19 10:43	5	5					PDI-106SG-00-01-190924					

Standards/Reagents

Reagent(s)			Analyte Spike(s)			Surrogate(s)		
Std ID	Exp. Date	Description	Std ID	Exp. Date	Description	Std ID	Exp. Date	Description
A13L221	11/30/23	Wet Chem Balance 3 ✓	A19I352	03/24/20	TOC 10k ppm secondary ✓			

Prepared By: JJP Date: 9-26-19

Reviewed By: CEM Date: 10/4/19



ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence:

9J03020 ✓

Instrument:

TOC

Date:

10/03/19 09:12

Calibration:

A8B0203 ✓

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	9J03020-CCV1	Sediment	QC	QC				A19G013 ✓
2	9J03020-CCB1	Sediment	QC	QC				
3	9091328-BLK1	Sediment	QC	QC		9091328		
4	9091328-BS1	Sediment	QC	QC		9091328		
5	A910771-06	Sediment	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/08/19	9091328		
6	9091328-DUP1	Sediment	QC	QC		9091328		
7	A910771-01	Sediment	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/08/19	9091328		
8	A910771-02	Sediment	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/08/19	9091328		
9	A910771-03	Sediment	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/08/19	9091328		
10	A910771-04	Sediment	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/08/19	9091328		
11	A910771-05	Sediment	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/08/19	9091328		
12	A910780-01	Sediment	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/08/19	9091328		
13	9J03020-CCV2	Sediment	QC	QC				A19G013 ✓
14	9J03020-CCB2	Sediment	QC	QC				
15	A910780-02	Sediment	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/08/19	9091328		
16	A910780-03	Sediment	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/08/19	9091328		
17	A910780-04	Sediment	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/08/19	9091328		
18	9J03020-CCV3	Sediment	QC	QC				A19G013 ✓
19	9J03020-CCB3	Sediment	QC	QC				

Data Entered By: JKP 10-3-19

Comments:

Data Reviewed By: CMM 10/4/19

TOC Data

Sample ID (Reporting Levels based on lowest amount used.)	Rep #	Amount (mg or ul)	instrument response (ug C)	Calculated ug C	TOC (mg/kg or mg/l)	Average TOC (mg/kg or mg/l)	Date and Time
9J03020-CCV1	1	20 ✓	287.80 ✓	214.28	10,713.89	10,565 ✓	10/3/19 @ 10:45 ✓
	2	20 ✓	282.40 ✓	208.33	10,416.40		
9J03020-CCB1	1	100 ✓	0.009 ✓	5.16	51.61	52 ✓	10/3/19 @ 10:50 ✓
	2	100 ✓	0 ✓	5.15	51.53		
9091328-BLK1	1	95 ✓	2.292 ✓	7.31	76.90	73 ✓	10/3/19 @ 10:57 ✓
	2	94.4 ✓	1.452 ✓	6.52	69.07		
	3	98.4 ✓	2.045 ✓	7.08	71.90		
9091328-BS1	1	20.0 ✓	270 ✓	195.4	9,770.00	9,960 ✓	10/3/19 @ 11:18 ✓
	2	20.0 ✓	272.9 ✓	198.33	9,916.74		
	3	20.0 ✓	278.2 ✓	203.84	10,191.85		
A9I0771-06	1	13.1 ✓	327.1 ✓	264.17	20,165.36	20,678 ✓	10/3/19 @ 11:40 ✓
	2	13.2 ✓	345.8 ✓	292.48	22,157.60		
	3	13.3 ✓	325.7 ✓	262.17	19,712.26		
9091328-DUP1	1	14.3 ✓	349.3 ✓	298.14	20,849.15	21,235 ✓	10/3/19 @ 12:05 ✓
	2	14.5 ✓	365.8 ✓	326.48	22,515.52		
	3	13.9 ✓	339.6 ✓	282.74	20,340.72		
A9I0771-01	1	11.5 ✓	406.1 ✓	408.05	35,482.69	32,996 ✓	10/3/19 @ 12:50 ✓
	2	11.5 ✓	396.5 ✓	386.92	33,645.39		
	3	11.0 ✓	366.9 ✓	328.46	29,860.26		
A9I0771-02	1	9.5 ✓	360.3 ✓	316.72	33,339.41	32,343 ✓	10/3/19 @ 13:45 ✓
	2	9.3 ✓	367.1 ✓	328.83	35,357.60		
	3	9.1 ✓	322.6 ✓	257.82	28,331.87		
A9I0771-03	1	10.5 ✓	268.8 ✓	194.2	18,495.32	21,292 ✓	10/3/19 @ 14:19 ✓
	2	11.1 ✓	307.2 ✓	237.39	21,386.14		
	3	11.7 ✓	338.3 ✓	280.74	23,994.75		

TOC Data

Sample ID (Reporting Levels based on lowest amount used.)	Rep #	Amount (mg or ul)	instrument response (ug C)	Calculated ug C	TOC (mg/kg or mg/l)	Average TOC (mg/kg or mg/l)	Date and Time
A910771-04	1	12.8 ✓	125.5 ✓	92.94	7,260.93	8,226 ✓	10/3/19 @ 14:40 ✓
	2	12.0 ✓	144.8 ✓	103.95	8,662.45		
	3	11.9 ✓	145.2 ✓	104.18	8,754.54		
A910771-05	1	11.8 ✓	348.4 ✓	296.68	25,141.99	27,944 ✓	10/3/19 @ 15:05 ✓
	2	12.2 ✓	398.4 ✓	391.02	32,050.49		
	3	13.5 ✓	383.3 ✓	359.64	26,640.08		
A910780-01	1	14.2 ✓	418.8 ✓	437.74	30,827.05	29,453 ✓	10/3/19 @ 15:45 ✓
	2	14.3 ✓	404.8 ✓	405.12	28,330.38		
	3	14.2 ✓	409 ✓	414.65	29,200.98		
9J03020-CCV2	1	20.0 ✓	271.8 ✓	197.22	9,860.77	9,818 ✓	10/3/19 @ 16:00 ✓
	2	20.0 ✓	270.1 ✓	195.5	9,775.01		
9J03020-CCB2	1	100.0 ✓	0 ✓	5.15	51.53	52 ✓	10/3/19 @ 16:19 ✓
	2	100.0 ✓	0.005 ✓	5.16	51.58		
A910780-02	1	11.5 ✓	384.900 ✓	362.84	31,551.43	31,102 ✓	10/3/19 @ 16:26 ✓
	2	11.5 ✓	379.400 ✓	351.96	30,605.23		
	3	12.7 ✓	400.500 ✓	395.59	31,148.90		
A910780-03	1	13.0 ✓	371.5 ✓	336.91	25,916.48	23,099 ✓	10/3/19 @ 16:44 ✓
	2	12.7 ✓	330.7 ✓	269.37	21,210.27		
	3	13.8 ✓	354 ✓	305.93	22,169.19		
A910780-04	1	14.2 ✓	419.2 ✓	438.71	30,895.24	30,975 ✓	10/3/19 @ 17:10 ✓
	2	14.6 ✓	423.6 ✓	449.5	30,787.68		
	3	14.7 ✓	427.5 ✓	459.27	31,243.04		
Sample ID	1			5.15	#DIV/0!	#DIV/0!	
	2			5.15	#DIV/0!		
	3			5.15	#DIV/0!		
Sample ID	1			5.15	#DIV/0!	#DIV/0!	
	2			5.15	#DIV/0!		
	3			5.15	#DIV/0!		

TOC Data

Sample ID (Reporting Levels based on lowest amount used.)	Rep #	Amount (mg or ul)	instrument response (ug C)	Calculated ug C	TOC (mg/kg or mg/l)	Average TOC (mg/kg or mg/l)	Date and Time
Sample ID	1			5.15	#DIV/0!	#DIV/0!	
	2			5.15	#DIV/0!		
	3			5.15	#DIV/0!		
Sample ID	1			5.15	#DIV/0!	#DIV/0!	
	2			5.15	#DIV/0!		
	3			5.15	#DIV/0!		
Sample ID	1			5.15	#DIV/0!	#DIV/0!	
	2			5.15	#DIV/0!		
	3			5.15	#DIV/0!		
Sample ID	1			5.15	#DIV/0!	#DIV/0!	
	2			5.15	#DIV/0!		
	3			5.15	#DIV/0!		
Sample ID	1			5.15	#DIV/0!	#DIV/0!	
	2			5.15	#DIV/0!		
	3			5.15	#DIV/0!		
9J03020-CCV3	1	20.0 ✓	275.2 ✓	200.7	10,035.02	10,048 ✓	10/3/19 @ 17:29 ✓
	2	20.0 ✓	275.7 ✓	201.22	10,060.95		
9J03020-CCB3	1	100.0 ✓	0.001 ✓	5.15	51.54	52 ✓	10/3/19 @ 17:37 ✓
	2	100.0 ✓	0 ✓	5.15	51.53		
				5.15	#DIV/0!		
				5.15	#DIV/0!		
				5.15	#DIV/0!		
				5.15	#DIV/0!		
				5.15	#DIV/0!		
				5.15	#DIV/0!		

Sequence 9JD3020
 Batch 9091328

TOC Soil data log

Date/Time 10-3-19
 Analyst JEP

Sample ID	Wt1(mg or ul)**	raw TOC (ug)	Comments	Date and Time
	Wt2(mg or ul)**	raw TOC (ug)		
	Wt3(mg or ul)**	raw TOC (ug)		
9JD3020 -CCV1	20	287.8		10-3-19 @ 1045
	20	282.4		
9JD3020 -CCB1	100	0.009		1050
	100	0		
9091328 -Bck1	95.0	2.292		1057
	94.4	1.452		
	98.4	2.045		
9091328 -BS1	20	270		1118
	20	272.9		
	20	278.2		
A9I0771 -06	13.1	327.1		1140
	13.2	345.8		
	13.3	325.7		
9091328 -DUP1	14.3	349.3		1205
	14.5	365.8		
	13.9	339.6		
A9I0771 -01	11.5	406.1		1250
	11.5	396.5		
	11.0	366.9		
A9I0771 -02	9.5	360.3		1345
	9.3	367.1		
	9.1	322.6		

Sample ID	Wt1(mg or ul)**	raw TOC (ug)	Comments	Date and Time
	Wt2(mg or ul)**	raw TOC (ug)		
	Wt3(mg or ul)**	raw TOC (ug)		
A9I0771 -03	11.4	390.1	11.7 338.3	1419
	10.5	268.8		
	11.1	307.2		
A9I0771 -04	12.8	125.5		1440
	12.0	144.8		
	11.9	145.2		
A9I0771 -05	11.8	348.4	13.5 383.3	1505
	12.2	358.4		
	12.9	352.4		
A9I0780 -01	14.2	418.8		1545
	14.3	404.8		
	14.2	409		
9JD3020- CCV2	20	271.8		1600
	20	270.1		
9JD3020 -CCB2	100	0		1619
	100	0.005		
A9I0780 -02	11.5	384.9		1626
	11.5	379.4		
	12.7	400.5		
A9I0780 -03	13.0	371.5		1644
	12.7	330.7		
	13.8	354		

**Sample mass input into instrument as 1000 mg to output actual ug C

Sequence 9J03020
 Batch 9091326

TOC Soil data log

Date/Time 10-3-19
 Analyst JRP

Sample ID	Wt1(mg or ul)**	raw TOC (ug)	Comments	Date and Time
	Wt2(mg or ul)**	raw TOC (ug)		
	Wt3(mg or ul)**	raw TOC (ug)		
ATI0780 -04	14.2	419.2		1710
	14.6	423.6		
	14.7	427.5		
9J03020 -CC13	20	275.2		1729
	20	275.7		
9J03020 -CCB3	100	0.001		1737
	100	0		

Sample ID	Wt1(mg or ul)**	raw TOC (ug)	Comments	Date and Time
	Wt2(mg or ul)**	raw TOC (ug)		
	Wt3(mg or ul)**	raw TOC (ug)		

**Sample mass input into instrument as 1000 mg to output actual ug C

**Conventional Chemistry Parameters
Total Organic Carbon (EPA 9060A mod)
Calibration Data**

Sequence 8B02022 (Cal ID A8B0203) TOC

ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence:

8B02022

Instrument:

TOC

Date:

02/02/18 10:15

Calibration:

A8B0203

<u>Order</u>	<u>Lab Number</u>	<u>Matrix</u>	<u>Analysis</u>	<u>Client</u>	<u>Due</u>	<u>Batch</u>	<u>ISTD ID</u>	<u>STD ID</u>
1	8B02022-CAL1	Soil	QC	QC				
2	8B02022-CAL2	Soil	QC	QC				A18B030
3	8B02022-CAL3	Soil	QC	QC				A18B029
4	8B02022-CAL4	Soil	QC	QC				A18B028
5	8B02022-CAL5	Soil	QC	QC				A18B027
6	8B02022-CAL6	Soil	QC	QC				A18B026
7	8B02022-CAL7	Soil	QC	QC				A18B025
8	8B02022-CAL8	Soil	QC	QC				A18B024
9	8B02022-CAL9	Soil	QC	QC				A18B023
10	8B02022-CALA	Soil	QC	QC				A18B022
11	8B02022-CALB	Soil	QC	QC				A18B021
12	8B02022-ICV1	Soil	QC	QC				A18B031
13	8B02022-ICB1	Soil	QC	QC				
14	8B02022-ICV2	Soil	QC	QC				
15	8B02022-ICB2	Soil	QC	QC				A18B031

Data Entered By:

JKP 2-2-18

Comments:

Data Reviewed By:

JCS 2/14/18

2/2/2018

5:40:11PM

TOC Data

Sample ID	Rep #	Amount (mg or ul)	instrument response (ug C)	Calculated ug C	TOC (mg/kg or mg/l)	Average TOC (mg/kg or mg/l)	Date and Time
	1			5.15	#DIV/0!	#DIV/0!	
	2			5.15	#DIV/0!		
	1			5.15	#DIV/0!	#DIV/0!	
	2			5.15	#DIV/0!		
8B02022-CAL1	1	20	1.847	6.89	344.50	323	
	2	20	1.106	6.2	309.77		
	3	20	1.192	6.28	313.81		
8B02022-CAL2	1	20.0	14.4	18.2	909.78		
	2	20.0	16.65	20.13	1,006.70		
	3	20.0	15.74	19.35	967.66		
8B02022-CAL3	1	20.0	44.37	42.07	2,103.69		
	2	20.0	48.3	44.93	2,246.27		
	3	20.0	47.81	44.57	2,228.65		
8B02022-CAL4	1	20.0	123.9	92.03	4,601.40		
	2	20.0	131.8	96.53	4,826.34		
	3	20.0	132.4	96.87	4,843.42		
8B02022-CAL5	1	20.0	278.8	204.47	10,223.57		
	2	20.0	287.6	214.05	10,702.70		
	3	20.0	284.1	210.18	10,508.98		
8B02022-CAL6	1	20.0	350.7	300.44	15,022.06		
	2	20.0	345	291.2	14,560.12		
	3	20.0	361	317.95	15,897.40		
8B02022-CAL7	1	20.0	399.1	392.54	19,626.76		
	2	20.0	402.2	399.33	19,966.67		
	3	20.0	410.3	417.65	20,882.38		

TOC Data

Sample ID	Rep #	Amount (mg or ul)	instrument response (ug C)	Calculated ug C	TOC (mg/kg or mg/l)	Average TOC (mg/kg or mg/l)	Date and Time
8B02022-CALB	1	20.0	437.8	486.05	24,302.72		
	2	20.0	440.9	494.4	24,719.83		
	3	20.0	437.4	484.99	24,249.38		
8B02022-CALG	1	20.0	473.2	589.45	29,472.51		
	2	20.0	473.6	590.72	29,536.19		
	3	20.0	479.7	610.45	30,522.56		
8B02022-CALA	1	20.0	503.7	693.77	34,688.41		
	2	20.0	504.4	696.34	34,816.94		
	3	20.0	504.6	697.07	34,853.73		
	1			5.15	#DIV/0!	#DIV/0!	
	2			5.15	#DIV/0!	#DIV/0!	
	1			5.15	#DIV/0!	#DIV/0!	
	2			5.15	#DIV/0!	#DIV/0!	
8B02022-CALB	1	20	529.100	792.36	39,618.21		
	2	20	532.500	806.41	40,320.67		
	3	20	537.600	827.87	41,393.75		
8B02022-ICV1	1	20.0	298.2	226.32	11,315.89	11,747	
	2	20.0	312	243.55	12,177.38		
	3			5.15	#DIV/0!		
8B022-ICB1	1	20.0	0	5.15	257.64	258	
	2	20.0	0	5.15	257.64		
	3			5.15	#DIV/0!		
8B02022-ICV2	1	20.0	277.9	203.52	10,176.04		
	2	20.0	287.2	213.61	10,680.34		
	3			5.15	#DIV/0!		
8B02022-ICB2	1	20.0	0	5.15	257.64		
	2	20.0	0	5.15	257.64		
	3			5.15	#DIV/0!		

⇒ ICV1 failed high. Re-prepped and re-analyzed below as ICV2. JKP 2-2-18

Sequence 8B02022
 Batch _____

TOC Soil data log

Date/Time 2-2-18 @ 1735
 Analyst JKP JKP

Sample ID	Wt1(mg or ul)**	raw TOC (ug)	Comments
	Wt2(mg or ul)**	raw TOC (ug)	
	Wt3(mg or ul)**	raw TOC (ug)	
8B02022-Cal1	20	1.847	
	20	1.106	
	20	1.192	
8B02022-Cal2	20	14.4	Time Out
	20	16.65	
	20	15.74	
8B02022-Cal3	20	44.37	
	20	48.3	
	20	47.81	
8B02022-Cal4	20	123.9	Time Out
	20	131.8	
	20	132.4	
8B02022-Cal5	20	278.8	
	20	287.6	
	20	284.1	
8B02022-Cal6	20	350.7	Time Out
	20	345	
	20	361	
8B02022-Cal7	20	399.1	Time Out
	20	402.2	
	20	410.3	
8B02022-Cal8	20	437.8	Time Out
	20	440.9	
	20	437.4	

Sample ID	Wt1(mg or ul)**	raw TOC (ug)	Comments
	Wt2(mg or ul)**	raw TOC (ug)	
	Wt3(mg or ul)**	raw TOC (ug)	
8B02022-Cal9	20	473.2	Time Out
	20	473.6	
	20	479.7	
8B02022-Cal10 A JKP 2-2-18	20	503.7	Time Out
	20	504.4	
	20	504.6	
8B02022-Cal11 B JKP 2-2-18	20	529.1	Time Out
	20	532.5	
	20	537.6	
8B02022-ICV1 JKP 2-2-18	20	298.2	Time Out
	20	312	
	20		
8B02022-ICB1 JKP 2-2-18	20	0	
	20	0	
	20		
8B02022-ICV2	20	277.9	Time Out
	20	287.2	
8B02022-ICB2	20	0	
	20	0	

2-2-18

3 ICV1 failed high. Re-prepped and re-analyzed as ICB2 below. JKP 2-2-18

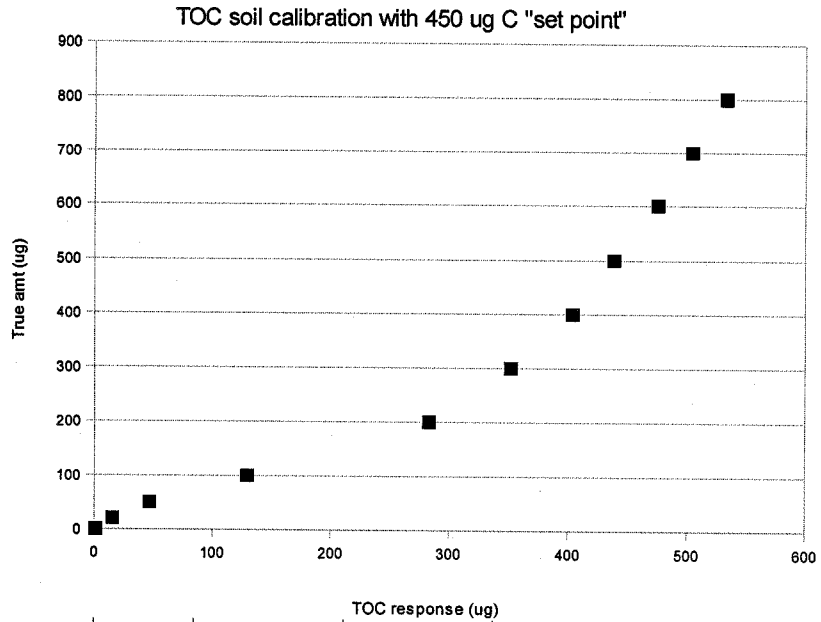
**Sample mass input into instrument as 1000 mg to output actual ug C

Data Entry

Cal Standard	Instrument Reponse	Average Instrument Response
1	1.85	1.38
	1.11	
	1.19	
2	14.4	15.6
	16.65	
	15.74	
3	44.37	46.83
	48.3	
	47.81	
4	123.9	129.37
	131.8	
	132.4	
5	278.8	283.5
	287.6	
	284.1	
6	350.7	352.23
	345	
	361	
7	399.1	403.87
	402.2	
	410.3	
8	437.8	438.7
	440.9	
	437.4	
9	473.2	475.5
	473.6	
	479.7	
10	503.7	504.23
	504.4	
	504.6	
11	529.1	533.07
	532.5	
	537.6	

450 ug curve

TOC resp ug C	True ug C
533.07	800
504.23	700
475.5	600
438.7	500
403.87	400
352.23	300
283.5	200
129.37	100
46.83	50
15.6	20
1.38	0



TOC resp ug (Requant	% recovery
533.07	101.1
504.23	99.39
475.5	99.47
438.7	97.69
403.87	100.76
352.23	100.99
283.5	104.76
129.37	95.14
46.83	87.73
15.6	96.15
1.38	N/A

X (response)	X^2	X^3	y (ug C)	curve calculations			
533.07	284160.07	151476261.9	800	0.00000740	-0.00289199	0.94586231	5.15285875
504.23	254251.25	128201957.5	700	0	0	0.14	5.96
475.5	226100.25	107510668.9	600	0.99945	8.03	#N/A	#N/A
438.7	192457.69	84431188.6	500	4233.13	7	#N/A	#N/A
403.87	163108.28	65873999.14	400	818003.66	450.89	#N/A	#N/A
352.23	124068.32	43700998.31	300				
283.5	80372.25	22785532.88	200				
129.37	16735.73	2165046.18	100				
46.83	2192.74	102678.55	50				
15.6	243.26	3793.98	20				
1.38	1.91	2.64	0				

TOC Data

Sample ID	Rep #	Amount (mg or ul)	instrument response (ug C)	Calculated ug C	TOC (mg/kg or mg/l)	Average TOC (mg/kg or mg/l)	Date and Time
	1			5.15	#DIV/0!	#DIV/0!	
	2			5.15	#DIV/0!		
	1			5.15	#DIV/0!	#DIV/0!	
	2			5.15	#DIV/0!		
8B02022-CAL1	1	20	1.847	6.89	344.50	323	
	2	20	1.106	6.2	309.77		
	3	20	1.192	6.28	313.81		
8B02022-CAL2	1	20.0	14.4	18.2	909.78	961	
	2	20.0	16.65	20.13	1,006.70		
	3	20.0	15.74	19.35	967.66		
8B02022-CAL3	1	20.0	44.37	42.07	2,103.69	2,193	
	2	20.0	48.3	44.93	2,246.27		
	3	20.0	47.81	44.57	2,228.65		
8B02022-CAL4	1	20.0	123.9	92.03	4,601.40	4,757	
	2	20.0	131.8	96.53	4,826.34		
	3	20.0	132.4	96.87	4,843.42		
8B02022-CAL5	1	20.0	278.8	204.47	10,223.57	10,478	
	2	20.0	287.6	214.05	10,702.70		
	3	20.0	284.1	210.18	10,508.98		
8B02022-CAL6	1	20.0	350.7	300.44	15,022.06	15,160	
	2	20.0	345	291.2	14,560.12		
	3	20.0	361	317.95	15,897.40		
8B02022-CAL7	1	20.0	399.1	392.54	19,626.76	20,159	
	2	20.0	402.2	399.33	19,966.67		
	3	20.0	410.3	417.65	20,882.38		

TOC Data

Sample ID	Rep #	Amount (mg or ul)	instrument response (ug C)	Calculated ug C	TOC (mg/kg or mg/l)	Average TOC (mg/kg or mg/l)	Date and Time
8B02022-CAL8	1	20.0	437.8	486.05	24,302.72	24,424	
	2	20.0	440.9	494.4	24,719.83		
	3	20.0	437.4	484.99	24,249.38		
8B02022-CAL9	1	20.0	473.2	589.45	29,472.51	29,844	
	2	20.0	473.6	590.72	29,536.19		
	3	20.0	479.7	610.45	30,522.56		
8B02022-CALA	1	20.0	503.7	693.77	34,688.41	34,786	
	2	20.0	504.4	696.34	34,816.94		
	3	20.0	504.6	697.07	34,853.73		
	1			5.15	#DIV/0!	#DIV/0!	
	2			5.15	#DIV/0!		
	1			5.15	#DIV/0!	#DIV/0!	
	2			5.15	#DIV/0!		
8B02022-CALB	1	20	529.100	792.36	39,618.21	40,444	
	2	20	532.500	806.41	40,320.67		
	3	20	537.600	827.87	41,393.75		
8B02022-ICV1	1	20.0	298.2	226.32	11,315.89	11,747	
	2	20.0	312	243.55	12,177.38		
	3			5.15	#DIV/0!		
8B022-ICB1	1	20.0	0	5.15	257.64	258	
	2	20.0	0	5.15	257.64		
	3			5.15	#DIV/0!		
8B02022-ICV2	1	20.0	277.9	203.52	10,176.04	10,428	
	2	20.0	287.2	213.61	10,680.34		
	3			5.15	#DIV/0!		
8B02022-ICB2	1	20.0	0	5.15	257.64	258	
	2	20.0	0	5.15	257.64		
	3			5.15	#DIV/0!		

**Percent Dry Weight (EPA 8000C)
Benchsheet Data**

Batch 9091299 (A9I0771-01,02,03,04,05,06)



Apex Laboratories
PREPARATION BENCH SHEET

Percent Solids + Dry Weight Worksheet

BATCH #: 9091299 (Matrix: Sediment)

Lab Number	Analysis	QC Source ID	Prepared (Time In)	Weighed (Time Out)	Tare Wt. (g)	Wet Weight (+Tare) (g)	Dry Weight (+Tare) (g)	% Solids (Calc)	LogComments
A910771-01	Dry Weight		09/25/19 17:40		1.26	28.435	16.57	56.3	Use Results from TS. Make NR once done.
A910771-01	Solids, Total (SM 254)		09/25/19 17:40		1.26	28.435	16.57	56.3	Use Results for DW. Make NR once done.
A910771-02	Dry Weight		09/25/19 17:40		1.26	26.895	15.715	56.4	Use Results from TS. Make NR once done.
A910771-02	Solids, Total (SM 254)		09/25/19 17:40		1.26	26.895	15.715	56.4	Use Results for DW. Make NR once done.
A910771-03	Dry Weight		09/25/19 17:40		1.26	28.88	19.895	67.5	Use Results from TS. Make NR once done.
A910771-03	Solids, Total (SM 254)		09/25/19 17:40		1.26	28.88	19.895	67.5	Use Results for DW. Make NR once done.
A910771-04	Dry Weight		09/25/19 17:40		1.26	28.34	17.875	61.4	Use Results from TS. Make NR once done.
A910771-04	Solids, Total (SM 254)		09/25/19 17:40		1.26	28.34	17.875	61.4	Use Results for DW. Make NR once done.
A910771-05	Dry Weight		09/25/19 17:40		1.26	28.2	12.09	40.2	Use Results from TS. Make NR once done.
A910771-05	Solids, Total (SM 254)		09/25/19 17:40		1.26	28.2	12.09	40.2	Use Results for DW. Make NR once done.
A910771-06	Dry Weight		09/25/19 17:40		1.26	26.755	12.74	45.0	Use Results from TS. Make NR once done.
A910771-06	Solids, Total (SM 254)		09/25/19 17:40		1.26	26.755	12.74	45.0	Use Results for DW. Make NR once done.
9091299-DUP1	QC	A910771-06	09/25/19 17:40		1.27	28.515	13.4	44.5	
A910780-01	Dry Weight		09/25/19 17:40		1.26	26.75	13.4	47.6	Use Results from TS. Make NR once completed.
A910780-01	Solids, Total (SM 254)		09/25/19 17:40		1.26	26.75	13.4	47.6	Use Results for Dry Weight.
A910780-02	Dry Weight		09/25/19 17:40		1.26	28.12	12.485	41.8	Use Results from TS. Make NR once completed.
A910780-02	Solids, Total (SM 254)		09/25/19 17:40		1.26	28.12	12.485	41.8	Use Results for Dry Weight.
A910780-03	Dry Weight		09/25/19 17:40		1.27	27.36	14.22	49.6	Use Results from TS. Make NR once completed.
A910780-03	Solids, Total (SM 254)		09/25/19 17:40		1.27	27.36	14.22	49.6	Use Results for Dry Weight.
A910780-04	Dry Weight		09/25/19 17:40		1.26	26.98	11.855	41.2	Use Results from TS. Make NR once completed.
A910780-04	Solids, Total (SM 254)		09/25/19 17:40		1.26	26.98	11.855	41.2	Use Results for Dry Weight.

NRP
Prepared By: _____ Date: 9/30/19

James S. [Signature]
Reviewed By: _____ Date: 09/30/19

Balance Checksheets

Extractions September 2019

Extractions October 2019

Dry Weight September 2019

Wet Chem September 2019

Balance Challenge Log

Extractions
 AND FX-2000
 ID# 5210177

Weight ID	weight (g)	acceptance range (g)	
	=/ < 1g	± 0.02g	
	> 1g	± 2%	
10077	0.5g	0.48	0.52
1000143395	300g	294.00	306.00

If other than as listed above, the weight and tracking ID of the mass used to challenge the balance must be recorded.

Month: September
 Year: 2019

Alternate Weight/ID used: _____ Date Range: _____

Day/Time	Initials
1	
2	
3 09:50	JAG
4 07:00	JAG
5 08:53	ATO
6 10:56	JAG
7	
8	
9 13:12	CAS
10 09:30	JAG
11 06:55	ATO
12 07:10	JAG
13 11:25	Curt
14	
15	
16 07:05	JAG
17 07:40	JAG
18 07:36	ATO
19 07:20	JAG
20 10:50	JC
21	
22	
23 9:50	JAG
24 06:39	ATO
25 07:15	JAG
26 07:37	JAG
27 07:10	JAG
28	
29	
30 7:28	JAG
31	

Weight One	Observed	Weight Two	Observed
	0.51		299.99
	0.49		300.00
	0.51		299.98
	0.50		300.00
	0.51		300.00
	0.51		300.01
	0.48 0.48		299.98
	0.50		300.00
	0.50		300.01
0.50g	0.49	300.00g	299.99
	0.51		300.00
	0.49		299.98
	0.51		300.01
	0.51		299.99
	0.50		299.99
	0.51		299.98
	0.50		299.98
	0.51		300.00
	0.50		299.99
	0.50		299.99

ATO 9/11/19

AS 299.98 299.96

Balance Challenge Log

Extractions
AND FX-2000
ID# 5210177

Weight ID	weight (g)	acceptance range (g)	
	=/ < 1g	± 0.02g	
	> 1g	± 2%	
10077	0.5g	0.48	0.52
1000143395	300g	294.00	306.00

If other than as listed above, the weight and tracking ID of the mass used to challenge the balance must be recorded.

Month: October
Year: 2019

Alternate Weight/ID used: _____ Date Range: _____

Day/Time	Initials
1 10:55	Quitt
2 7:25	JAG
3 07:00	AJT
4 07:12	AJT
5 09:25	AJT
6 07:50	JAG
7 07:05	JAG
8 08:20	JAG
9 10:45	JAG
10 07:01	AJT
11 06:35	AJT
12 9:00	sc
13 9:25	Quitt
14 06:30	AJT
15 07:30	JAG
16 06:44	AJT
17 07:40	JAG
18 07:38	JAG
19 09:10	JAG
20	
21 07:20	JAG
22 10:05	sc
23 06:39	AJT
24 07:04	AJT
25 07:10	JAG
26 09:24	cas
27	
28 07:18	AJT
29 07:30	AJT
30 07:30	JAG
31 07:12	AJT

Weight One	Observed	Weight Two	Observed
	0.50		299.98
	0.50		299.97
	0.49		300.00
	0.50		299.96
	0.51		299.99
	0.50		299.97
	0.50		299.99
	0.50		299.98
	0.50		299.98
	0.50		299.98
	0.51		299.99
	0.50		299.97
	0.50		299.97
	0.49		299.97
	0.50		299.97
	0.51		299.95
0.50g	0.50	300.00g	299.97
	0.49		299.96
	0.50		299.98
	0.48		299.98
	0.49		299.97
	0.49		299.97
	0.50		299.97
	0.49		299.97
	0.52		299.98
	0.51		299.98
	0.51		299.99
	0.51		299.99
	0.52		299.98
	0.49		299.98
	0.49		299.97

AJT 10/28

Balance Challenge Log

Dry Wt Balance 3

Mettler PG403-S
ID# 1120240743

Weight ID

weight (g)
=<1g
>1g

acceptance range (g)
± 0.02g
± 2%

10077 0.5g 0.480 0.520
10077 and 02-J60965-11 100g (50+50) 98.000 102.000

If other than as listed above, the weight and tracking ID of the mass used to challenge the balance must be recorded.

Alternate Weight/ID used:

Date Range:

Month: September
Year: 2019

Day/Time	Initials
1	
2	
3 0800	MEB
4 0730	MEB
5 0725	ADD
6 0755	MEB
7	
8	
9 0710	MEB
10 0705	MEB
11 0750	MEB
12 0725	MEB
13 0800	MEB
14	
15	
16 0800	MEB
17 0720	MEB
18 0730	MEB
19 0730	MEB
20 0700	MEB
21 0740	MEB
22	
23 0740	MEB
24 0755	MEB
25 0730	MEB
26 0745	MEB
27 0800	MEB
28	
29	
30 0715	MEB
31	

Weight One	Observed
	0.499
	0.501
	0.502
	0.498
	0.503
	0.501
	0.499
	0.498
	0.500
0.50g	0.496
	0.502
	0.498
	0.501
	0.500
	0.499
	0.499
	0.504
	0.498
	0.499
	0.501
	0.498

Weight Two	Observed
	100.002
	100.002
	100.000
	100.072
	100.220
	100.000
	100.006
	99.999
	99.798
100.00g	100.000
	100.046
	100.003
	99.998
	100.000
	100.011
	100.005
	100.003
	100.006
	100.000
	99.999

wrong tag
→ corrected 9/24/19 MEB

Balance Challenge Log

Wet Chem Balance 1
 Ohaus Adventurer Pro
 ID# 8C30461093

Weight ID	weight (g)	acceptance range (g)	
	<0.5000g	± 0.5mg	
	>=0.5000g	± 0.1%	
1000015949	0.005g	0.0045	0.0055
66067	0.100g	0.0995	0.1005
66067	100g	99.9000	100.1000

If other than as listed above, the weight and tracking ID of the mass used to challenge the balance must be recorded.

Month: Sept
 Year: 2019

Alternate Weight/ID used: _____
 Date Range: _____

13-c1

Day/Time	Initials
1	
2	
3 7:40	M
4 8:01 7/4 M	MRF
5	
6	
7	
8	
9 8:59	WR
10 9:57	MRF
11 9:40	MRF
12 07:59	MRF
13	
14	
15	
16 02:17	MRF
17 09:44	JLP
18 07:06	MRF
19 08:24	MRF
20	
21	
22	
23 07:41	MRF
24 08:17	MRF
25 11:20	MAS
26 11:51	MAS
27 09:40	MAS
28 10:05	MAS
29	
30 10:05	MAS
31	

Weight 1	Observed
	100.0039
	100.0035
	100.0038
	100.0038
	100.0040
	100.0037
	100.0039
100.0000g	100.0039
	100.0040
	100.0041
	100.0040
	100.0041
	100.0040
	100.0039
	100.0038
	100.0036
	100.0037
	100.0037
	100.0037

Weight 2	Observed
	0.1000
	0.1001
	0.1002
	0.1001
	0.1001
	0.1000
0.1000g	0.1000
	0.1000
	0.1000
	0.1000
	0.1000
	0.1000
	0.1000
	0.1000
	0.1000
	0.1000
	0.1001

Weight 3	Observed
	0.0051
	0.0050
	0.0050
	0.0050
	0.0050
	0.0050
0.0050g	0.0051
	0.0049
	0.0050
	0.0051
	0.0050
	0.0049
	0.0050
	0.0049
	0.0052
	0.0050
	0.0050

M29130