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

Level IV Data Package for

Anchor QEA, LLC

Gasco PreRD_DG 2019 – 4a-b. DOC-CAP Testing Cores

Apex Laboratories Work Order #:

A0B0411

APEX LABORATORIES, LLC
6700 SW Sandburg St. Tigard, OR 97223 phone 503-718-2323

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APEX LABORATORIES, LLC
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Analytical Case Narrative

APEX LABORATORIES, LLC
6700 SW Sandburg St Tigard, OR 97223 phone 503-718-2323

Analytical Case Narrative

Client: Anchor QEA, LLC Date: 04/02/2020
Project: Gasco PreRD_DG 2019 – 4a-b. DOC-CAP Testing Cores
Apex Work Order Number: A0B0411

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

APEX LABORATORIES, LLC
6700 SW Sandburg St. Tigard OR 97223 phone 503-718-2323

Analytical Report

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

AMENDED REPORT

Monday, February 24, 2020

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

RE: A0B0411 - Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cores - [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 A0B0411, which was received by the laboratory on 9/27/2019 at 10:25:00AM.

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	2.1 degC	Cooler #2	1.4 degC
Cooler #3	1.1 degC	Cooler #4	1.0 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.

Darwin Thomas, Business Development Director

Apex Laboratories, LLC

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

AMENDED REPORT

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0B0411 - 02 24 20 1418**

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PDI-100SC-J-06-07-190926	A0B0411-01	Sediment	09/26/19 11:11	09/27/19 10:25
PDI-100SC-J-07-08-190926	A0B0411-02	Sediment	09/26/19 11:11	09/27/19 10:25
PDI-100SC-J-08-09-190926	A0B0411-03	Sediment	09/26/19 11:11	09/27/19 10:25
PDI-100SC-J-09-10-190926	A0B0411-04	Sediment	09/26/19 11:11	09/27/19 10:25
PDI-100SC-J-10-11-190926	A0B0411-05	Sediment	09/26/19 11:11	09/27/19 10:25

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Darwin Thomas, Business Development Director

Apex Laboratories, LLC

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EPA ID: OR01039

AMENDED REPORT

Anchor QEA, LLC	Project:	**Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**
6720 SW Macadam Ave. Suite 125	Project Number:	**[none]**
Portland, OR 97219	Project Manager:	**Ryan Barth**

Report ID:
A0B0411 - 02 24 20 1418

ANALYTICAL CASE NARRATIVE

Work Order: A0B0411

Amended Final Report #1: This report supersedes all previous reports.

EPA 8270D Polyaromatic Hydrocarbon Analysis: Missing Surrogates

The original report did not list result for the surrogates for the rerun of client sample "PDI-100SC-J-08-09-190926" (A0B0411-03RE1).
Missing surrogates are now reported and qualified with the "AMEND" qualifier.

David Jack
Apex Laboratories
February 24, 2020

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

AMENDED REPORT

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0B0411 - 02 24 20 1418**

ANALYTICAL SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
PDI-100SC-J-06-07-190926 (A0B0411-01)				**Matrix: Sediment**		**Batch: 0020497**		**C-07**
Aroclor 1016	ND	0.810	1.61	ug/kg dry	1	02/19/20 09:06	EPA 8082A	
Aroclor 1221	ND	0.810	1.61	ug/kg dry	1	02/19/20 09:06	EPA 8082A	
Aroclor 1232	ND	0.810	1.61	ug/kg dry	1	02/19/20 09:06	EPA 8082A	
Aroclor 1242	ND	0.810	1.61	ug/kg dry	1	02/19/20 09:06	EPA 8082A	
Aroclor 1248	ND	0.810	1.61	ug/kg dry	1	02/19/20 09:06	EPA 8082A	
Aroclor 1254	ND	0.810	1.61	ug/kg dry	1	02/19/20 09:06	EPA 8082A	
Aroclor 1260	ND	0.810	1.61	ug/kg dry	1	02/19/20 09:06	EPA 8082A	
Aroclor 1262	ND	0.810	1.61	ug/kg dry	1	02/19/20 09:06	EPA 8082A	
Aroclor 1268	ND	0.810	1.61	ug/kg dry	1	02/19/20 09:06	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		*Recovery: 84 %*		*Limits: 43-120 %*	*1*	*02/19/20 09:06*	*EPA 8082A*	
PDI-100SC-J-07-08-190926 (A0B0411-02)				**Matrix: Sediment**		**Batch: 0020497**		**C-07**
Aroclor 1016	ND	0.835	1.66	ug/kg dry	1	02/19/20 10:18	EPA 8082A	
Aroclor 1221	ND	0.835	1.66	ug/kg dry	1	02/19/20 10:18	EPA 8082A	
Aroclor 1232	ND	0.835	1.66	ug/kg dry	1	02/19/20 10:18	EPA 8082A	
Aroclor 1242	ND	0.835	1.66	ug/kg dry	1	02/19/20 10:18	EPA 8082A	
Aroclor 1248	ND	0.835	1.66	ug/kg dry	1	02/19/20 10:18	EPA 8082A	
Aroclor 1254	ND	0.835	1.66	ug/kg dry	1	02/19/20 10:18	EPA 8082A	
Aroclor 1260	ND	0.835	1.66	ug/kg dry	1	02/19/20 10:18	EPA 8082A	
Aroclor 1262	ND	0.835	1.66	ug/kg dry	1	02/19/20 10:18	EPA 8082A	
Aroclor 1268	ND	0.835	1.66	ug/kg dry	1	02/19/20 10:18	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		*Recovery: 85 %*		*Limits: 43-120 %*	*1*	*02/19/20 10:18*	*EPA 8082A*	
PDI-100SC-J-08-09-190926 (A0B0411-03)				**Matrix: Sediment**		**Batch: 0020497**		**C-07**
Aroclor 1016	ND	0.839	1.67	ug/kg dry	1	02/19/20 10:54	EPA 8082A	
Aroclor 1221	ND	0.839	1.67	ug/kg dry	1	02/19/20 10:54	EPA 8082A	
Aroclor 1232	ND	0.839	1.67	ug/kg dry	1	02/19/20 10:54	EPA 8082A	
Aroclor 1242	ND	0.839	1.67	ug/kg dry	1	02/19/20 10:54	EPA 8082A	
Aroclor 1248	ND	0.839	1.67	ug/kg dry	1	02/19/20 10:54	EPA 8082A	
Aroclor 1254	ND	0.839	1.67	ug/kg dry	1	02/19/20 10:54	EPA 8082A	
Aroclor 1260	ND	0.839	1.67	ug/kg dry	1	02/19/20 10:54	EPA 8082A	
Aroclor 1262	ND	0.839	1.67	ug/kg dry	1	02/19/20 10:54	EPA 8082A	
Aroclor 1268	ND	0.839	1.67	ug/kg dry	1	02/19/20 10:54	EPA 8082A	

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Darwin Thomas, Business Development Director

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

AMENDED REPORT

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0B0411 - 02 24 20 1418**

ANALYTICAL SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
PDI-100SC-J-08-09-190926 (A0B0411-03)				**Matrix: Sediment**		**Batch: 0020497**		**C-07**
Surrogate: Decachlorobiphenyl (Surr)		*Recovery: 84 %*		*Limits: 43-120 %*	*1*	*02/19/20 10:54*	*EPA 8082A*	
PDI-100SC-J-09-10-190926 (A0B0411-04)				**Matrix: Sediment**		**Batch: 0020497**		**C-07**
Aroclor 1016	ND	0.788	1.56	ug/kg dry	1	02/19/20 11:29	EPA 8082A	
Aroclor 1221	ND	0.788	1.56	ug/kg dry	1	02/19/20 11:29	EPA 8082A	
Aroclor 1232	ND	0.788	1.56	ug/kg dry	1	02/19/20 11:29	EPA 8082A	
Aroclor 1242	ND	0.788	1.56	ug/kg dry	1	02/19/20 11:29	EPA 8082A	
Aroclor 1248	ND	0.788	1.56	ug/kg dry	1	02/19/20 11:29	EPA 8082A	
Aroclor 1254	ND	0.788	1.56	ug/kg dry	1	02/19/20 11:29	EPA 8082A	
Aroclor 1260	ND	0.788	1.56	ug/kg dry	1	02/19/20 11:29	EPA 8082A	
Aroclor 1262	ND	0.788	1.56	ug/kg dry	1	02/19/20 11:29	EPA 8082A	
Aroclor 1268	ND	0.788	1.56	ug/kg dry	1	02/19/20 11:29	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		*Recovery: 91 %*		*Limits: 43-120 %*	*1*	*02/19/20 11:29*	*EPA 8082A*	
PDI-100SC-J-10-11-190926 (A0B0411-05)				**Matrix: Sediment**		**Batch: 0020497**		**C-07**
Aroclor 1016	ND	0.797	1.58	ug/kg dry	1	02/19/20 12:04	EPA 8082A	
Aroclor 1221	ND	0.797	1.58	ug/kg dry	1	02/19/20 12:04	EPA 8082A	
Aroclor 1232	ND	0.797	1.58	ug/kg dry	1	02/19/20 12:04	EPA 8082A	
Aroclor 1242	ND	0.797	1.58	ug/kg dry	1	02/19/20 12:04	EPA 8082A	
Aroclor 1248	ND	0.797	1.58	ug/kg dry	1	02/19/20 12:04	EPA 8082A	
Aroclor 1254	ND	0.797	1.58	ug/kg dry	1	02/19/20 12:04	EPA 8082A	
Aroclor 1260	ND	0.797	1.58	ug/kg dry	1	02/19/20 12:04	EPA 8082A	
Aroclor 1262	ND	0.797	1.58	ug/kg dry	1	02/19/20 12:04	EPA 8082A	
Aroclor 1268	ND	0.797	1.58	ug/kg dry	1	02/19/20 12:04	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		*Recovery: 100 %*		*Limits: 43-120 %*	*1*	*02/19/20 12:04*	*EPA 8082A*	

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Darwin Thomas, Business Development Director

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EPA ID: OR01039

AMENDED REPORT

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0B0411 - 02 24 20 1418**

ANALYTICAL SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
PDI-100SC-J-06-07-190926 (A0B0411-01RE1)				**Matrix: Sediment**		**Batch: 0020516**		**C-05, H-08**
2,4'-DDD	ND	1.21	2.42	ug/kg dry	1	02/18/20 13:50	EPA 8081B	
2,4'-DDE	ND	1.21	2.42	ug/kg dry	1	02/18/20 13:50	EPA 8081B	
2,4'-DDT	ND	1.21	2.42	ug/kg dry	1	02/18/20 13:50	EPA 8081B	
4,4'-DDD	ND	1.21	2.42	ug/kg dry	1	02/18/20 13:50	EPA 8081B	
4,4'-DDE	ND	1.21	2.42	ug/kg dry	1	02/18/20 13:50	EPA 8081B	
4,4'-DDT	ND	1.21	2.42	ug/kg dry	1	02/18/20 13:50	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr)			*Recovery: 55 %*	*Limits: 42-129 %*	*1*	*02/18/20 13:50*	*EPA 8081B*	
Decachlorobiphenyl (Surr)			*103 %*	*55-130 %*	*1*	*02/18/20 13:50*	*EPA 8081B*	
PDI-100SC-J-07-08-190926 (A0B0411-02RE1)				**Matrix: Sediment**		**Batch: 0020516**		**C-05, H-08**
2,4'-DDD	ND	1.24	2.47	ug/kg dry	1	02/18/20 14:24	EPA 8081B	
2,4'-DDE	ND	1.24	2.47	ug/kg dry	1	02/18/20 14:24	EPA 8081B	
2,4'-DDT	ND	1.24	2.47	ug/kg dry	1	02/18/20 14:24	EPA 8081B	
4,4'-DDD	ND	1.24	2.47	ug/kg dry	1	02/18/20 14:24	EPA 8081B	
4,4'-DDE	ND	1.24	2.47	ug/kg dry	1	02/18/20 14:24	EPA 8081B	
4,4'-DDT	ND	1.24	2.47	ug/kg dry	1	02/18/20 14:24	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr)			*Recovery: 51 %*	*Limits: 42-129 %*	*1*	*02/18/20 14:24*	*EPA 8081B*	
Decachlorobiphenyl (Surr)			*103 %*	*55-130 %*	*1*	*02/18/20 14:24*	*EPA 8081B*	
PDI-100SC-J-08-09-190926 (A0B0411-03RE1)				**Matrix: Sediment**		**Batch: 0020516**		**C-05, H-08**
2,4'-DDD	ND	1.27	2.54	ug/kg dry	1	02/18/20 14:40	EPA 8081B	
2,4'-DDE	ND	1.27	2.54	ug/kg dry	1	02/18/20 14:40	EPA 8081B	
2,4'-DDT	ND	1.27	2.54	ug/kg dry	1	02/18/20 14:40	EPA 8081B	
4,4'-DDD	ND	1.27	2.54	ug/kg dry	1	02/18/20 14:40	EPA 8081B	
4,4'-DDE	ND	1.27	2.54	ug/kg dry	1	02/18/20 14:40	EPA 8081B	
4,4'-DDT	ND	1.27	2.54	ug/kg dry	1	02/18/20 14:40	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr)			*Recovery: 67 %*	*Limits: 42-129 %*	*1*	*02/18/20 14:40*	*EPA 8081B*	
Decachlorobiphenyl (Surr)			*104 %*	*55-130 %*	*1*	*02/18/20 14:40*	*EPA 8081B*	
PDI-100SC-J-09-10-190926 (A0B0411-04RE1)				**Matrix: Sediment**		**Batch: 0020516**		**C-05, H-08**
2,4'-DDD	ND	1.17	2.34	ug/kg dry	1	02/18/20 14:57	EPA 8081B	
2,4'-DDE	ND	1.17	2.34	ug/kg dry	1	02/18/20 14:57	EPA 8081B	
2,4'-DDT	ND	1.17	2.34	ug/kg dry	1	02/18/20 14:57	EPA 8081B	
4,4'-DDD	ND	1.17	2.34	ug/kg dry	1	02/18/20 14:57	EPA 8081B	

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Darwin Thomas, Business Development Director

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AMENDED REPORT

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0B0411 - 02 24 20 1418**

ANALYTICAL SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
PDI-100SC-J-09-10-190926 (A0B0411-04RE1)				**Matrix: Sediment**		**Batch: 0020516**		**C-05, H-08**
4,4'-DDE	ND	1.17	2.34	ug/kg dry	1	02/18/20 14:57	EPA 8081B	
4,4'-DDT	ND	1.17	2.34	ug/kg dry	1	02/18/20 14:57	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr)			*Recovery: 58 %*	*Limits: 42-129 %*	*1*	*02/18/20 14:57*	*EPA 8081B*	
Decachlorobiphenyl (Surr)			*100 %*	*55-130 %*	*1*	*02/18/20 14:57*	*EPA 8081B*	
PDI-100SC-J-10-11-190926 (A0B0411-05RE1)				**Matrix: Sediment**		**Batch: 0020516**		**C-05, H-08**
2,4'-DDD	ND	1.18	2.35	ug/kg dry	1	02/18/20 15:14	EPA 8081B	
2,4'-DDE	ND	1.18	2.35	ug/kg dry	1	02/18/20 15:14	EPA 8081B	
2,4'-DDT	ND	1.18	2.35	ug/kg dry	1	02/18/20 15:14	EPA 8081B	
4,4'-DDD	ND	1.18	2.35	ug/kg dry	1	02/18/20 15:14	EPA 8081B	
4,4'-DDE	ND	1.18	2.35	ug/kg dry	1	02/18/20 15:14	EPA 8081B	
4,4'-DDT	ND	1.18	2.35	ug/kg dry	1	02/18/20 15:14	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr)			*Recovery: 53 %*	*Limits: 42-129 %*	*1*	*02/18/20 15:14*	*EPA 8081B*	
Decachlorobiphenyl (Surr)			*106 %*	*55-130 %*	*1*	*02/18/20 15:14*	*EPA 8081B*	

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Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0B0411 - 02 24 20 1418**

ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270D (Scan)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
PDI-100SC-J-06-07-190926 (A0B0411-01)				**Matrix: Sediment**		**Batch: 0020481**		**H-08**
Acenaphthene	**39.4**	1.50	3.01	ug/kg dry	1	02/17/20 17:05	EPA 8270D	
Acenaphthylene	**3.82**	1.50	3.01	ug/kg dry	1	02/17/20 17:05	EPA 8270D	
Anthracene	**4.92**	1.50	3.01	ug/kg dry	1	02/17/20 17:05	EPA 8270D	
Benz(a)anthracene	**13.5**	1.50	3.01	ug/kg dry	1	02/17/20 17:05	EPA 8270D	
Benzo(a)pyrene	**16.9**	1.50	3.01	ug/kg dry	1	02/17/20 17:05	EPA 8270D	
Benzo(b)fluoranthene	**15.1**	1.50	3.01	ug/kg dry	1	02/17/20 17:05	EPA 8270D	
Benzo(k)fluoranthene	**4.82**	1.50	3.01	ug/kg dry	1	02/17/20 17:05	EPA 8270D	**M-05**
Benzo(g,h,i)perylene	**12.9**	1.50	3.01	ug/kg dry	1	02/17/20 17:05	EPA 8270D	
Chrysene	**21.3**	1.50	3.01	ug/kg dry	1	02/17/20 17:05	EPA 8270D	
Dibenz(a,h)anthracene	ND	1.50	3.01	ug/kg dry	1	02/17/20 17:05	EPA 8270D	
Fluoranthene	**53.8**	1.50	3.01	ug/kg dry	1	02/17/20 17:05	EPA 8270D	
Fluorene	**21.2**	1.50	3.01	ug/kg dry	1	02/17/20 17:05	EPA 8270D	
Indeno(1,2,3-cd)pyrene	**11.2**	1.50	3.01	ug/kg dry	1	02/17/20 17:05	EPA 8270D	
2-Methylnaphthalene	**1.66**	1.50	3.01	ug/kg dry	1	02/17/20 17:05	EPA 8270D	**J**
Naphthalene	**5.89**	1.50	3.01	ug/kg dry	1	02/17/20 17:05	EPA 8270D	
Phenanthrene	**6.61**	1.50	3.01	ug/kg dry	1	02/17/20 17:05	EPA 8270D	
Pyrene	**80.5**	1.50	3.01	ug/kg dry	1	02/17/20 17:05	EPA 8270D	
Surrogate: 2-Fluorobiphenyl (Surr)		*Recovery:*	*81 %*	*Limits: 44-115 %*	*1*	*02/17/20 17:05*	*EPA 8270D*	
p-Terphenyl-d14 (Surr)			*81 %*	*54-127 %*	*1*	*02/17/20 17:05*	*EPA 8270D*	
PDI-100SC-J-07-08-190926 (A0B0411-02)				**Matrix: Sediment**		**Batch: 0020481**		**H-08**
Acenaphthene	**26.1**	1.52	3.04	ug/kg dry	1	02/17/20 14:24	EPA 8270D	
Acenaphthylene	ND	1.52	3.04	ug/kg dry	1	02/17/20 14:24	EPA 8270D	
Anthracene	ND	1.52	3.04	ug/kg dry	1	02/17/20 14:24	EPA 8270D	
Benz(a)anthracene	**1.91**	1.52	3.04	ug/kg dry	1	02/17/20 14:24	EPA 8270D	**J**
Benzo(a)pyrene	**2.62**	1.52	3.04	ug/kg dry	1	02/17/20 14:24	EPA 8270D	**J**
Benzo(b)fluoranthene	**2.41**	1.52	3.04	ug/kg dry	1	02/17/20 14:24	EPA 8270D	**J**
Benzo(k)fluoranthene	ND	1.52	3.04	ug/kg dry	1	02/17/20 14:24	EPA 8270D	
Benzo(g,h,i)perylene	**2.21**	1.52	3.04	ug/kg dry	1	02/17/20 14:24	EPA 8270D	**J**
Chrysene	**3.05**	1.52	3.04	ug/kg dry	1	02/17/20 14:24	EPA 8270D	
Dibenz(a,h)anthracene	ND	1.52	3.04	ug/kg dry	1	02/17/20 14:24	EPA 8270D	
Fluoranthene	**7.11**	1.52	3.04	ug/kg dry	1	02/17/20 14:24	EPA 8270D	
Fluorene	**9.95**	1.52	3.04	ug/kg dry	1	02/17/20 14:24	EPA 8270D	

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Darwin Thomas, Business Development Director

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

AMENDED REPORT

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0B0411 - 02 24 20 1418**

ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270D (Scan)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
PDI-100SC-J-07-08-190926 (A0B0411-02)				**Matrix: Sediment**		**Batch: 0020481**		**H-08**
Indeno(1,2,3-cd)pyrene	**2.06**	1.52	3.04	ug/kg dry	1	02/17/20 14:24	EPA 8270D	**J**
2-Methylnaphthalene	ND	1.52	3.04	ug/kg dry	1	02/17/20 14:24	EPA 8270D	
Naphthalene	**2.00**	1.52	3.04	ug/kg dry	1	02/17/20 14:24	EPA 8270D	**J**
Phenanthrene	**3.56**	1.52	3.04	ug/kg dry	1	02/17/20 14:24	EPA 8270D	
Pyrene	**8.97**	1.52	3.04	ug/kg dry	1	02/17/20 14:24	EPA 8270D	
Surrogate: 2-Fluorobiphenyl (Surr)		*Recovery:*	*73 %*	*Limits: 44-115 %*	*1*	*02/17/20 14:24*	*EPA 8270D*	
p-Terphenyl-d14 (Surr)			*79 %*	*54-127 %*	*1*	*02/17/20 14:24*	*EPA 8270D*	
PDI-100SC-J-08-09-190926 (A0B0411-03)				**Matrix: Sediment**		**Batch: 0020481**		**H-08**
Acenaphthene	**117**	1.58	3.15	ug/kg dry	1	02/17/20 17:37	EPA 8270D	
Acenaphthylene	**3.43**	1.58	3.15	ug/kg dry	1	02/17/20 17:37	EPA 8270D	
Anthracene	ND	1.58	3.15	ug/kg dry	1	02/17/20 17:37	EPA 8270D	
Benz(a)anthracene	**1.93**	1.58	3.15	ug/kg dry	1	02/17/20 17:37	EPA 8270D	**J**
Benzo(a)pyrene	**2.64**	1.58	3.15	ug/kg dry	1	02/17/20 17:37	EPA 8270D	**J**
Benzo(b)fluoranthene	**2.45**	1.58	3.15	ug/kg dry	1	02/17/20 17:37	EPA 8270D	**J**
Benzo(k)fluoranthene	ND	1.58	3.15	ug/kg dry	1	02/17/20 17:37	EPA 8270D	
Benzo(g,h,i)perylene	**2.07**	1.58	3.15	ug/kg dry	1	02/17/20 17:37	EPA 8270D	**J**
Chrysene	**2.33**	1.58	3.15	ug/kg dry	1	02/17/20 17:37	EPA 8270D	**J**
Dibenz(a,h)anthracene	ND	1.58	3.15	ug/kg dry	1	02/17/20 17:37	EPA 8270D	
Fluoranthene	**6.62**	1.58	3.15	ug/kg dry	1	02/17/20 17:37	EPA 8270D	
Fluorene	**26.3**	1.58	3.15	ug/kg dry	1	02/17/20 17:37	EPA 8270D	
Indeno(1,2,3-cd)pyrene	**1.82**	1.58	3.15	ug/kg dry	1	02/17/20 17:37	EPA 8270D	**J**
2-Methylnaphthalene	**23.7**	1.58	3.15	ug/kg dry	1	02/17/20 17:37	EPA 8270D	
Phenanthrene	**4.09**	1.58	3.15	ug/kg dry	1	02/17/20 17:37	EPA 8270D	
Pyrene	**7.35**	1.58	3.15	ug/kg dry	1	02/17/20 17:37	EPA 8270D	
Surrogate: 2-Fluorobiphenyl (Surr)		*Recovery:*	*75 %*	*Limits: 44-115 %*	*1*	*02/17/20 17:37*	*EPA 8270D*	
p-Terphenyl-d14 (Surr)			*74 %*	*54-127 %*	*1*	*02/17/20 17:37*	*EPA 8270D*	
PDI-100SC-J-08-09-190926 (A0B0411-03RE1)				**Matrix: Sediment**		**Batch: 0020481**		**H-08**
Naphthalene	**756**	78.9	158	ug/kg dry	50	02/17/20 19:17	EPA 8270D	
Surrogate: 2-Fluorobiphenyl (Surr)		*Recovery:*	*79 %*	*Limits: 44-115 %*	*50*	*02/17/20 19:17*	*EPA 8270D*	*AMEND*
p-Terphenyl-d14 (Surr)			*73 %*	*54-127 %*	*50*	*02/17/20 19:17*	*EPA 8270D*	*AMEND*
PDI-100SC-J-09-10-190926 (A0B0411-04)				**Matrix: Sediment**		**Batch: 0020481**		**H-08**

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Darwin Thomas, Business Development Director

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EPA ID: OR01039

AMENDED REPORT

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0B0411 - 02 24 20 1418**

ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270D (Scan)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
PDI-100SC-J-09-10-190926 (A0B0411-04)				**Matrix: Sediment**		**Batch: 0020481**		**H-08**
Acenaphthene	ND	1.47	2.94	ug/kg dry	1	02/17/20 15:28	EPA 8270D	
Acenaphthylene	ND	1.47	2.94	ug/kg dry	1	02/17/20 15:28	EPA 8270D	
Anthracene	ND	1.47	2.94	ug/kg dry	1	02/17/20 15:28	EPA 8270D	
Benz(a)anthracene	ND	1.47	2.94	ug/kg dry	1	02/17/20 15:28	EPA 8270D	
Benzo(a)pyrene	ND	1.47	2.94	ug/kg dry	1	02/17/20 15:28	EPA 8270D	
Benzo(b)fluoranthene	ND	1.47	2.94	ug/kg dry	1	02/17/20 15:28	EPA 8270D	
Benzo(k)fluoranthene	ND	1.47	2.94	ug/kg dry	1	02/17/20 15:28	EPA 8270D	
Benzo(g,h,i)perylene	ND	1.47	2.94	ug/kg dry	1	02/17/20 15:28	EPA 8270D	
Chrysene	ND	1.47	2.94	ug/kg dry	1	02/17/20 15:28	EPA 8270D	
Dibenz(a,h)anthracene	ND	1.47	2.94	ug/kg dry	1	02/17/20 15:28	EPA 8270D	
Fluoranthene	**2.10**	1.47	2.94	ug/kg dry	1	02/17/20 15:28	EPA 8270D	**J**
Fluorene	ND	1.47	2.94	ug/kg dry	1	02/17/20 15:28	EPA 8270D	
Indeno(1,2,3-cd)pyrene	ND	1.47	2.94	ug/kg dry	1	02/17/20 15:28	EPA 8270D	
2-Methylnaphthalene	ND	1.47	2.94	ug/kg dry	1	02/17/20 15:28	EPA 8270D	
Naphthalene	ND	1.47	2.94	ug/kg dry	1	02/17/20 15:28	EPA 8270D	
Phenanthrene	ND	1.47	2.94	ug/kg dry	1	02/17/20 15:28	EPA 8270D	
Pyrene	**2.34**	1.47	2.94	ug/kg dry	1	02/17/20 15:28	EPA 8270D	**J**
Surrogate: 2-Fluorobiphenyl (Surr)		*Recovery:*	*77 %*	*Limits: 44-115 %*	*1*	*02/17/20 15:28*	*EPA 8270D*	
p-Terphenyl-d14 (Surr)			*78 %*	*54-127 %*	*1*	*02/17/20 15:28*	*EPA 8270D*	
PDI-100SC-J-10-11-190926 (A0B0411-05)				**Matrix: Sediment**		**Batch: 0020481**		**H-08**
Acenaphthene	**1.67**	1.47	2.94	ug/kg dry	1	02/17/20 18:09	EPA 8270D	**J**
Acenaphthylene	ND	1.47	2.94	ug/kg dry	1	02/17/20 18:09	EPA 8270D	
Anthracene	ND	1.47	2.94	ug/kg dry	1	02/17/20 18:09	EPA 8270D	
Benz(a)anthracene	**1.67**	1.47	2.94	ug/kg dry	1	02/17/20 18:09	EPA 8270D	**J**
Benzo(a)pyrene	**1.75**	1.47	2.94	ug/kg dry	1	02/17/20 18:09	EPA 8270D	**J**
Benzo(b)fluoranthene	**1.96**	1.47	2.94	ug/kg dry	1	02/17/20 18:09	EPA 8270D	**J**
Benzo(k)fluoranthene	ND	1.47	2.94	ug/kg dry	1	02/17/20 18:09	EPA 8270D	
Benzo(g,h,i)perylene	**1.66**	1.47	2.94	ug/kg dry	1	02/17/20 18:09	EPA 8270D	**J**
Chrysene	**2.20**	1.47	2.94	ug/kg dry	1	02/17/20 18:09	EPA 8270D	**J**
Dibenz(a,h)anthracene	ND	1.47	2.94	ug/kg dry	1	02/17/20 18:09	EPA 8270D	
Fluoranthene	**5.37**	1.47	2.94	ug/kg dry	1	02/17/20 18:09	EPA 8270D	
Fluorene	ND	1.47	2.94	ug/kg dry	1	02/17/20 18:09	EPA 8270D	

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AMENDED REPORT

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0B0411 - 02 24 20 1418**

ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270D (Scan)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
PDI-100SC-J-10-11-190926 (A0B0411-05)				**Matrix: Sediment**		**Batch: 0020481**		**H-08**
Indeno(1,2,3-cd)pyrene	**1.50**	1.47	2.94	ug/kg dry	1	02/17/20 18:09	EPA 8270D	**J**
2-Methylnaphthalene	ND	1.47	2.94	ug/kg dry	1	02/17/20 18:09	EPA 8270D	
Naphthalene	**1.76**	1.47	2.94	ug/kg dry	1	02/17/20 18:09	EPA 8270D	**J**
Phenanthrene	**3.36**	1.47	2.94	ug/kg dry	1	02/17/20 18:09	EPA 8270D	
Pyrene	**6.51**	1.47	2.94	ug/kg dry	1	02/17/20 18:09	EPA 8270D	
Surrogate: 2-Fluorobiphenyl (Surr)		*Recovery:*	*70 %*	*Limits: 44-115 %*	*1*	*02/17/20 18:09*	*EPA 8270D*	
p-Terphenyl-d14 (Surr)			*82 %*	*54-127 %*	*1*	*02/17/20 18:09*	*EPA 8270D*	

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AMENDED REPORT

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0B0411 - 02 24 20 1418**

ANALYTICAL SAMPLE RESULTS

Demand Parameters

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
PDI-100SC-J-06-07-190926 (A0B0411-01)				**Matrix: Sediment**				
Batch: 0020538								
Total Organic Carbon	**0.039**	---	0.020	% by Weight	1	02/19/20 13:26	SM 5310 B MOD	**H-08**
PDI-100SC-J-07-08-190926 (A0B0411-02)				**Matrix: Sediment**				
Batch: 0020538								
Total Organic Carbon	**0.028**	---	0.020	% by Weight	1	02/19/20 13:58	SM 5310 B MOD	**H-08**
PDI-100SC-J-08-09-190926 (A0B0411-03)				**Matrix: Sediment**				
Batch: 0020538								
Total Organic Carbon	**0.091**	---	0.020	% by Weight	1	02/19/20 14:09	SM 5310 B MOD	**H-08**
PDI-100SC-J-09-10-190926 (A0B0411-04)				**Matrix: Sediment**				
Batch: 0020538								
Total Organic Carbon	**0.058**	---	0.020	% by Weight	1	02/19/20 14:20	SM 5310 B MOD	**H-08**
PDI-100SC-J-10-11-190926 (A0B0411-05)				**Matrix: Sediment**				
Batch: 0020538								
Total Organic Carbon	**0.026**	---	0.020	% by Weight	1	02/19/20 14:31	SM 5310 B MOD	**H-08**

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AMENDED REPORT

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0B0411 - 02 24 20 1418**

ANALYTICAL SAMPLE RESULTS

Solid and Moisture Determinations

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
PDI-100SC-J-06-07-190926 (A0B0411-01)				**Matrix: Sediment**				
Batch: 0020537								
Total Solids	**82.1**	1.00	1.00	% by Weight	1	02/19/20 10:35	SM 2540 G	
PDI-100SC-J-07-08-190926 (A0B0411-02)				**Matrix: Sediment**				
Batch: 0020537								
Total Solids	**80.2**	1.00	1.00	% by Weight	1	02/19/20 10:35	SM 2540 G	
PDI-100SC-J-08-09-190926 (A0B0411-03)				**Matrix: Sediment**				
Batch: 0020537								
Total Solids	**78.4**	1.00	1.00	% by Weight	1	02/19/20 10:35	SM 2540 G	
PDI-100SC-J-09-10-190926 (A0B0411-04)				**Matrix: Sediment**				
Batch: 0020537								
Total Solids	**84.6**	1.00	1.00	% by Weight	1	02/19/20 10:35	SM 2540 G	
PDI-100SC-J-10-11-190926 (A0B0411-05)				**Matrix: Sediment**				
Batch: 0020537								
Total Solids	**83.6**	1.00	1.00	% by Weight	1	02/19/20 10:35	SM 2540 G	

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AMENDED REPORT

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0B0411 - 02 24 20 1418**

QUALITY CONTROL (QC) SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0020497 - EPA 3546							**Sediment**					
Blank (0020497-BLK1)			Prepared: 02/17/20 09:23		Analyzed: 02/19/20 08:31							**C-07**
EPA 8082A												
Aroclor 1016	ND	0.648	1.29	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1221	ND	0.648	1.29	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1232	ND	0.648	1.29	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1242	ND	0.648	1.29	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1248	ND	0.648	1.29	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1254	ND	0.648	1.29	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1260	ND	0.648	1.29	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1262	ND	0.648	1.29	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1268	ND	0.648	1.29	ug/kg wet	1	---	---	---	---	---	---	
Surr: Decachlorobiphenyl (Surr)			*Recovery: 94 %*		*Limits: 43-120 %*			*Dilution: 1x*				
LCS (0020497-BS1)			Prepared: 02/17/20 09:23		Analyzed: 02/19/20 08:49							**C-07**
EPA 8082A												
Aroclor 1016	50.7	0.670	1.33	ug/kg wet	1	83.3	---	61	47-134%	---	---	
Aroclor 1260	72.4	0.670	1.33	ug/kg wet	1	83.3	---	87	53-140%	---	---	
Surr: Decachlorobiphenyl (Surr)			*Recovery: 103 %*		*Limits: 43-120 %*			*Dilution: 1x*				
Duplicate (0020497-DUP1)			Prepared: 02/17/20 09:23		Analyzed: 02/19/20 09:41							**C-07**
QC Source Sample: PDI-100SC-J-06-07-190926 (A0B0411-01)												
EPA 8082A												
Aroclor 1016	ND	0.811	1.61	ug/kg dry	1	---	ND	---	---	---	30%	
Aroclor 1221	ND	0.811	1.61	ug/kg dry	1	---	ND	---	---	---	30%	
Aroclor 1232	ND	0.811	1.61	ug/kg dry	1	---	ND	---	---	---	30%	
Aroclor 1242	ND	0.811	1.61	ug/kg dry	1	---	ND	---	---	---	30%	
Aroclor 1248	ND	0.811	1.61	ug/kg dry	1	---	ND	---	---	---	30%	
Aroclor 1254	ND	0.811	1.61	ug/kg dry	1	---	ND	---	---	---	30%	
Aroclor 1260	ND	0.811	1.61	ug/kg dry	1	---	ND	---	---	---	30%	
Aroclor 1262	ND	0.811	1.61	ug/kg dry	1	---	ND	---	---	---	30%	
Aroclor 1268	ND	0.811	1.61	ug/kg dry	1	---	ND	---	---	---	30%	
Surr: Decachlorobiphenyl (Surr)			*Recovery: 100 %*		*Limits: 43-120 %*			*Dilution: 1x*				
Matrix Spike (0020497-MS1)			Prepared: 02/17/20 09:23		Analyzed: 02/19/20 12:39							**C-07**

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AMENDED REPORT

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0B0411 - 02 24 20 1418**

QUALITY CONTROL (QC) SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0020497 - EPA 3546							**Sediment**					
Matrix Spike (0020497-MS1)			Prepared: 02/17/20 09:23		Analyzed: 02/19/20 12:39							**C-07**
QC Source Sample: PDI-100SC-J-10-11-190926 (A0B0411-05)												
EPA 8082A												
Aroclor 1016	52.0	0.799	1.59	ug/kg dry	1	99.4	ND	52	47-134%	---	---	
Aroclor 1260	73.9	0.799	1.59	ug/kg dry	1	99.4	ND	74	53-140%	---	---	
Surr: Decachlorobiphenyl (Surr)			*Recovery: 85 %*		*Limits: 43-120 %*			*Dilution: 1x*				
Matrix Spike Dup (0020497-MSD1)			Prepared: 02/17/20 10:12		Analyzed: 02/19/20 13:15							**C-07**
QC Source Sample: PDI-100SC-J-10-11-190926 (A0B0411-05)												
EPA 8082A												
Aroclor 1016	61.1	0.799	1.59	ug/kg dry	1	99.3	ND	62	47-134%	16	30%	
Aroclor 1260	82.9	0.799	1.59	ug/kg dry	1	99.3	ND	83	53-140%	11	30%	
Surr: Decachlorobiphenyl (Surr)			*Recovery: 101 %*		*Limits: 43-120 %*			*Dilution: 1x*				

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Darwin Thomas, Business Development Director

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503-718-2323
EPA ID: OR01039

AMENDED REPORT

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0B0411 - 02 24 20 1418**

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 0020516 - EPA 3546/3640A (GPC)							**Sediment**					
Blank (0020516-BLK1)			Prepared: 02/17/20 06:58		Analyzed: 02/18/20 13:16							**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	---	---	---	---	---	---	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 61 %*		*Limits: 42-129 %*			*Dilution: 1x*				
Decachlorobiphenyl (Surr)			*105 %*		*55-130 %*			*"*				
LCS (0020516-BS1)			Prepared: 02/17/20 06:58		Analyzed: 02/18/20 13:33							**C-05**
EPA 8081B												
2,4'-DDD	47.9	1.00	2.00	ug/kg wet	1	50.0	---	96	75-130%	---	---	
2,4'-DDE	40.4	1.00	2.00	ug/kg wet	1	50.0	---	81	74-131%	---	---	
2,4'-DDT	51.0	1.00	2.00	ug/kg wet	1	50.0	---	102	64-136%	---	---	
4,4'-DDD	52.6	1.00	2.00	ug/kg wet	1	50.0	---	105	56-139%	---	---	
4,4'-DDE	46.0	1.00	2.00	ug/kg wet	1	50.0	---	92	56-134%	---	---	
4,4'-DDT	53.3	1.00	2.00	ug/kg wet	1	50.0	---	107	50-141%	---	---	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 62 %*		*Limits: 42-129 %*			*Dilution: 1x*				
Decachlorobiphenyl (Surr)			*108 %*		*55-130 %*			*"*				
Duplicate (0020516-DUP1)			Prepared: 02/17/20 06:58		Analyzed: 02/18/20 14:07							**C-05, H-08**
QC Source Sample: PDI-100SC-J-06-07-190926 (A0B0411-01RE1)												
EPA 8081B												
2,4'-DDD	ND	1.21	2.41	ug/kg dry	1	---	ND	---	---	---	30%	
2,4'-DDE	ND	1.21	2.41	ug/kg dry	1	---	ND	---	---	---	30%	
2,4'-DDT	ND	1.21	2.41	ug/kg dry	1	---	ND	---	---	---	30%	
4,4'-DDD	ND	1.21	2.41	ug/kg dry	1	---	ND	---	---	---	30%	
4,4'-DDE	ND	1.21	2.41	ug/kg dry	1	---	ND	---	---	---	30%	
4,4'-DDT	ND	1.21	2.41	ug/kg dry	1	---	ND	---	---	---	30%	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 61 %*		*Limits: 42-129 %*			*Dilution: 1x*				
Decachlorobiphenyl (Surr)			*107 %*		*55-130 %*			*"*				

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Darwin Thomas, Business Development Director

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AMENDED REPORT

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0B0411 - 02 24 20 1418**

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 0020516 - EPA 3546/3640A (GPC)							**Sediment**					
Matrix Spike (0020516-MS1)			Prepared: 02/17/20 06:58		Analyzed: 02/18/20 15:31							**C-05, H-08**
QC Source Sample: PDI-100SC-J-10-11-190926 (A0B0411-05RE1)												
EPA 8081B												
2,4'-DDD	59.3	1.18	2.36	ug/kg dry	1	59.0	ND	101	75-130%	---	---	
2,4'-DDE	51.4	1.18	2.36	ug/kg dry	1	59.0	ND	87	74-131%	---	---	
2,4'-DDT	60.6	1.18	2.36	ug/kg dry	1	59.0	ND	103	64-136%	---	---	
4,4'-DDD	64.7	1.18	2.36	ug/kg dry	1	59.0	ND	110	56-139%	---	---	
4,4'-DDE	57.8	1.18	2.36	ug/kg dry	1	59.0	ND	98	56-134%	---	---	
4,4'-DDT	64.3	1.18	2.36	ug/kg dry	1	59.0	ND	109	50-141%	---	---	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 69 %*		*Limits: 42-129 %*			*Dilution: 1x*				
Decachlorobiphenyl (Surr)			*104 %*		*55-130 %*			*"*				
Matrix Spike Dup (0020516-MSD1)			Prepared: 02/17/20 07:15		Analyzed: 02/18/20 15:48							**C-05, H-08**
QC Source Sample: PDI-100SC-J-10-11-190926 (A0B0411-05RE1)												
EPA 8081B												
2,4'-DDD	57.9	1.18	2.36	ug/kg dry	1	59.0	ND	98	75-130%	2	35%	
2,4'-DDE	47.1	1.18	2.36	ug/kg dry	1	59.0	ND	80	74-131%	9	35%	
2,4'-DDT	56.8	1.18	2.36	ug/kg dry	1	59.0	ND	96	64-136%	7	35%	
4,4'-DDD	62.5	1.18	2.36	ug/kg dry	1	59.0	ND	106	56-139%	3	30%	
4,4'-DDE	52.4	1.18	2.36	ug/kg dry	1	59.0	ND	89	56-134%	10	30%	
4,4'-DDT	63.4	1.18	2.36	ug/kg dry	1	59.0	ND	108	50-141%	1	30%	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 56 %*		*Limits: 42-129 %*			*Dilution: 1x*				
Decachlorobiphenyl (Surr)			*105 %*		*55-130 %*			*"*				

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AMENDED REPORT

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0B0411 - 02 24 20 1418**

QUALITY CONTROL (QC) SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270D (Scan)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0020481 - EPA 3546							**Sediment**					
Blank (0020481-BLK1)			Prepared: 02/17/20 06:59 Analyzed: 02/17/20 13:19									
EPA 8270D												
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	ND	1.14	2.27	ug/kg wet	1	---	---	---	---	---	---	
Phenanthrene	ND	1.14	2.27	ug/kg wet	1	---	---	---	---	---	---	
Pyrene	ND	1.14	2.27	ug/kg wet	1	---	---	---	---	---	---	
Surr: 2-Fluorobiphenyl (Surr)			*Recovery: 79 %*	*Limits: 44-115 %*				*Dilution: 1x*				
p-Terphenyl-d14 (Surr)			*90 %*	*54-127 %*				*"*				
LCS (0020481-BS1)			Prepared: 02/17/20 06:59 Analyzed: 02/17/20 13:51									
EPA 8270D												
Acenaphthene	16.5	1.25	2.50	ug/kg wet	1	20.0	---	82	40-122%	---	---	
Acenaphthylene	15.5	1.25	2.50	ug/kg wet	1	20.0	---	77	32-132%	---	---	
Anthracene	15.3	1.25	2.50	ug/kg wet	1	20.0	---	77	47-123%	---	---	
Benz(a)anthracene	14.9	1.25	2.50	ug/kg wet	1	20.0	---	74	49-126%	---	---	
Benzo(a)pyrene	14.9	1.25	2.50	ug/kg wet	1	20.0	---	74	45-129%	---	---	
Benzo(b)fluoranthene	15.6	1.25	2.50	ug/kg wet	1	20.0	---	78	45-132%	---	---	
Benzo(k)fluoranthene	15.7	1.25	2.50	ug/kg wet	1	20.0	---	78	47-132%	---	---	
Benzo(g,h,i)perylene	15.2	1.25	2.50	ug/kg wet	1	20.0	---	76	43-134%	---	---	
Chrysene	16.5	1.25	2.50	ug/kg wet	1	20.0	---	83	50-124%	---	---	
Dibenz(a,h)anthracene	15.4	1.25	2.50	ug/kg wet	1	20.0	---	77	45-134%	---	---	
Fluoranthene	16.5	1.25	2.50	ug/kg wet	1	20.0	---	83	50-127%	---	---	

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AMENDED REPORT

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0B0411 - 02 24 20 1418**

QUALITY CONTROL (QC) SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270D (Scan)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0020481 - EPA 3546							**Sediment**					
LCS (0020481-BS1)			Prepared: 02/17/20 06:59	Analyzed: 02/17/20 13:51								
Fluorene	15.6	1.25	2.50	ug/kg wet	1	20.0	---	78	43-125%	---	---	
Indeno(1,2,3-cd)pyrene	15.1	1.25	2.50	ug/kg wet	1	20.0	---	75	45-133%	---	---	
2-Methylnaphthalene	15.1	1.25	2.50	ug/kg wet	1	20.0	---	76	38-122%	---	---	
Naphthalene	16.9	1.25	2.50	ug/kg wet	1	20.0	---	84	35-123%	---	---	
Phenanthrene	16.2	1.25	2.50	ug/kg wet	1	20.0	---	81	50-121%	---	---	
Pyrene	16.8	1.25	2.50	ug/kg wet	1	20.0	---	84	47-127%	---	---	
Surr: 2-Fluorobiphenyl (Surr)			*Recovery: 84 %*	*Limits: 44-115 %*			*Dilution: 1x*					
p-Terphenyl-d14 (Surr)			*87 %*	*54-127 %*			*"*					
Duplicate (0020481-DUP1)			Prepared: 02/17/20 06:59	Analyzed: 02/17/20 14:56								**H-08**
QC Source Sample: PDI-100SC-J-07-08-190926 (A0B0411-02)												
EPA 8270D												
Acenaphthene	**27.5**	1.51	3.03	ug/kg dry	1	---	26.1	---	---	5	30%	
Acenaphthylene	**1.54**	1.51	3.03	ug/kg dry	1	---	ND	---	---		**30%**	Q-05, J
Anthracene	ND	1.51	3.03	ug/kg dry	1	---	ND	---	---	---	30%	
Benz(a)anthracene	**2.15**	1.51	3.03	ug/kg dry	1	---	1.91	---	---	12	30%	J
Benzo(a)pyrene	**2.87**	1.51	3.03	ug/kg dry	1	---	2.62	---	---	9	30%	J
Benzo(b)fluoranthene	**2.69**	1.51	3.03	ug/kg dry	1	---	2.41	---	---	11	30%	J
Benzo(k)fluoranthene	ND	1.51	3.03	ug/kg dry	1	---	ND	---	---	---	30%	
Benzo(g,h,i)perylene	**2.38**	1.51	3.03	ug/kg dry	1	---	2.21	---	---	7	30%	J
Chrysene	**3.31**	1.51	3.03	ug/kg dry	1	---	3.05	---	---	8	30%	
Dibenz(a,h)anthracene	ND	1.51	3.03	ug/kg dry	1	---	ND	---	---	---	30%	
Fluoranthene	**7.26**	1.51	3.03	ug/kg dry	1	---	7.11	---	---	2	30%	
Fluorene	**9.83**	1.51	3.03	ug/kg dry	1	---	9.95	---	---	1	30%	
Indeno(1,2,3-cd)pyrene	**2.24**	1.51	3.03	ug/kg dry	1	---	2.06	---	---	8	30%	J
2-Methylnaphthalene	ND	1.51	3.03	ug/kg dry	1	---	ND	---	---	---	30%	
Naphthalene	**2.20**	1.51	3.03	ug/kg dry	1	---	2.00	---	---	10	30%	J
Phenanthrene	**2.97**	1.51	3.03	ug/kg dry	1	---	3.56	---	---	18	30%	J
Pyrene	**9.96**	1.51	3.03	ug/kg dry	1	---	8.97	---	---	10	30%	
Surr: 2-Fluorobiphenyl (Surr)			*Recovery: 76 %*	*Limits: 44-115 %*			*Dilution: 1x*					
p-Terphenyl-d14 (Surr)			*76 %*	*54-127 %*			*"*					
Matrix Spike (0020481-MS1)			Prepared: 02/17/20 06:59	Analyzed: 02/17/20 16:00								**H-08**

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EPA ID: OR01039

AMENDED REPORT

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0B0411 - 02 24 20 1418**

QUALITY CONTROL (QC) SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270D (Scan)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0020481 - EPA 3546							**Sediment**					
Matrix Spike (0020481-MS1)			Prepared: 02/17/20 06:59		Analyzed: 02/17/20 16:00							**H-08**
QC Source Sample: PDI-100SC-J-09-10-190926 (A0B0411-04)												
EPA 8270D												
Acenaphthene	16.2	1.48	2.95	ug/kg dry	1	23.6	ND	69	40-122%	---	---	
Acenaphthylene	14.6	1.48	2.95	ug/kg dry	1	23.6	ND	62	32-132%	---	---	
Anthracene	15.9	1.48	2.95	ug/kg dry	1	23.6	ND	67	47-123%	---	---	
Benz(a)anthracene	18.4	1.48	2.95	ug/kg dry	1	23.6	ND	78	49-126%	---	---	
Benzo(a)pyrene	19.0	1.48	2.95	ug/kg dry	1	23.6	ND	80	45-129%	---	---	
Benzo(b)fluoranthene	19.2	1.48	2.95	ug/kg dry	1	23.6	ND	81	45-132%	---	---	
Benzo(k)fluoranthene	18.1	1.48	2.95	ug/kg dry	1	23.6	ND	77	47-132%	---	---	
Benzo(g,h,i)perylene	18.5	1.48	2.95	ug/kg dry	1	23.6	ND	78	43-134%	---	---	
Chrysene	19.5	1.48	2.95	ug/kg dry	1	23.6	ND	82	50-124%	---	---	
Dibenz(a,h)anthracene	17.6	1.48	2.95	ug/kg dry	1	23.6	ND	74	45-134%	---	---	
Fluoranthene	21.3	1.48	2.95	ug/kg dry	1	23.6	2.10	81	50-127%	---	---	
Fluorene	15.5	1.48	2.95	ug/kg dry	1	23.6	ND	66	43-125%	---	---	
Indeno(1,2,3-cd)pyrene	18.2	1.48	2.95	ug/kg dry	1	23.6	ND	77	45-133%	---	---	
2-Methylnaphthalene	14.3	1.48	2.95	ug/kg dry	1	23.6	ND	60	38-122%	---	---	
Naphthalene	17.1	1.48	2.95	ug/kg dry	1	23.6	ND	73	35-123%	---	---	
Phenanthrene	17.0	1.48	2.95	ug/kg dry	1	23.6	ND	72	50-121%	---	---	
Pyrene	21.1	1.48	2.95	ug/kg dry	1	23.6	2.34	80	47-127%	---	---	
Surr: 2-Fluorobiphenyl (Surr)			*Recovery: 63 %*		*Limits: 44-115 %*				*Dilution: 1x*			
p-Terphenyl-d14 (Surr)			*81 %*		*54-127 %*				*"*			
Matrix Spike Dup (0020481-MSD1)			Prepared: 02/17/20 07:14		Analyzed: 02/17/20 16:32							**H-08**
QC Source Sample: PDI-100SC-J-09-10-190926 (A0B0411-04)												
EPA 8270D												
Acenaphthene	20.1	1.48	2.95	ug/kg dry	1	23.6	ND	85	40-122%	22	30%	
Acenaphthylene	18.2	1.48	2.95	ug/kg dry	1	23.6	ND	77	32-132%	22	30%	
Anthracene	18.6	1.48	2.95	ug/kg dry	1	23.6	ND	79	47-123%	16	30%	
Benz(a)anthracene	18.9	1.48	2.95	ug/kg dry	1	23.6	ND	80	49-126%	3	30%	
Benzo(a)pyrene	19.9	1.48	2.95	ug/kg dry	1	23.6	ND	84	45-129%	4	30%	
Benzo(b)fluoranthene	19.7	1.48	2.95	ug/kg dry	1	23.6	ND	83	45-132%	2	30%	
Benzo(k)fluoranthene	18.9	1.48	2.95	ug/kg dry	1	23.6	ND	80	47-132%	4	30%	
Benzo(g,h,i)perylene	19.4	1.48	2.95	ug/kg dry	1	23.6	ND	82	43-134%	5	30%	
Chrysene	20.3	1.48	2.95	ug/kg dry	1	23.6	ND	86	50-124%	4	30%	

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

AMENDED REPORT

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0B0411 - 02 24 20 1418**

QUALITY CONTROL (QC) SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270D (Scan)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0020481 - EPA 3546							**Sediment**					
Matrix Spike Dup (0020481-MSD1)			Prepared: 02/17/20 07:14		Analyzed: 02/17/20 16:32							**H-08**
QC Source Sample: PDI-100SC-J-09-10-190926 (A0B0411-04)												
Dibenz(a,h)anthracene	17.8	1.48	2.95	ug/kg dry	1	23.6	ND	76	45-134%	1	30%	
Fluoranthene	23.6	1.48	2.95	ug/kg dry	1	23.6	2.10	91	50-127%	10	30%	
Fluorene	19.3	1.48	2.95	ug/kg dry	1	23.6	ND	82	43-125%	22	30%	
Indeno(1,2,3-cd)pyrene	19.1	1.48	2.95	ug/kg dry	1	23.6	ND	81	45-133%	5	30%	
2-Methylnaphthalene	17.7	1.48	2.95	ug/kg dry	1	23.6	ND	75	38-122%	21	30%	
Naphthalene	23.9	1.48	2.95	ug/kg dry	1	23.6	ND	101	35-123%	**33**	**30%**	Q-24
Phenanthrene	21.4	1.48	2.95	ug/kg dry	1	23.6	ND	91	50-121%	23	30%	
Pyrene	23.8	1.48	2.95	ug/kg dry	1	23.6	2.34	91	47-127%	12	30%	
Surr: 2-Fluorobiphenyl (Surr)			*Recovery: 76 %*		*Limits: 44-115 %*				*Dilution: 1x*			
p-Terphenyl-d14 (Surr)			*80 %*		*54-127 %*				*"*			

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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 0020538 - PSEP-5310B TOC							**Soil**					
Blank (0020538-BLK1)			Prepared: 02/18/20 10:58		Analyzed: 02/19/20 13:04							
SM 5310 B MOD												
Total Organic Carbon	ND	---	0.020	% by Weight	1	---	---	---	---	---	---	
LCS (0020538-BS1)			Prepared: 02/18/20 10:58		Analyzed: 02/19/20 13:15							
SM 5310 B MOD												
Total Organic Carbon	9700	---		mg/kg	1	10000	---	97	90-110%	---	---	
Duplicate (0020538-DUP1)			Prepared: 02/18/20 10:58		Analyzed: 02/19/20 13:37							
QC Source Sample: PDI-100SC-J-06-07-190926 (A0B0411-01)												
SM 5310 B MOD												
Total Organic Carbon	**0.028**	---	0.020	% by Weight	1	---	0.039	---	---	**32**	**20%**	H-08, Q-05
Duplicate (0020538-DUP2)			Prepared: 02/18/20 10:58		Analyzed: 02/19/20 13:47							
QC Source Sample: PDI-100SC-J-06-07-190926 (A0B0411-01)												
SM 5310 B MOD												
Total Organic Carbon	**0.030**	---	0.020	% by Weight	1	---	0.039	---	---	**26**	**20%**	H-08, Q-05

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Portland, OR 97219	Project Manager: **Ryan Barth**	**A0B0411 - 02 24 20 1418**

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 0020537 - Total Solids (SM2540G/PSEP)							**Sediment**					
Duplicate (0020537-DUP1)			Prepared: 02/18/20 07:36		Analyzed: 02/19/20 10:35							
QC Source Sample: PDI-100SC-J-06-07-190926 (A0B0411-01)												
SM 2540 G												
Total Solids	**80.7**	1.00	1.00	% by Weight	1	---	82.1	---	---	2	10%	

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SAMPLE PREPARATION INFORMATION

Polychlorinated Biphenyls by EPA 8082A

Prep: EPA 3546

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 0020497							
A0B0411-01	Sediment	EPA 8082A	09/26/19 11:11	02/17/20 09:23	30.23g/2mL	30g/2mL	0.99
A0B0411-02	Sediment	EPA 8082A	09/26/19 11:11	02/17/20 09:23	30.01g/2mL	30g/2mL	1.00
A0B0411-03	Sediment	EPA 8082A	09/26/19 11:11	02/17/20 09:23	30.55g/2mL	30g/2mL	0.98
A0B0411-04	Sediment	EPA 8082A	09/26/19 11:11	02/17/20 09:23	30.16g/2mL	30g/2mL	1.00
A0B0411-05	Sediment	EPA 8082A	09/26/19 11:11	02/17/20 09:23	30.16g/2mL	30g/2mL	1.00

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
Batch: 0020516							
A0B0411-01RE1	Sediment	EPA 8081B	09/26/19 11:11	02/17/20 06:58	10.08g/10mL	10g/5mL	1.98
A0B0411-02RE1	Sediment	EPA 8081B	09/26/19 11:11	02/17/20 06:58	10.08g/10mL	10g/5mL	1.98
A0B0411-03RE1	Sediment	EPA 8081B	09/26/19 11:11	02/17/20 06:58	10.03g/10mL	10g/5mL	1.99
A0B0411-04RE1	Sediment	EPA 8081B	09/26/19 11:11	02/17/20 06:58	10.09g/10mL	10g/5mL	1.98
A0B0411-05RE1	Sediment	EPA 8081B	09/26/19 11:11	02/17/20 06:58	10.17g/10mL	10g/5mL	1.97

Polyaromatic Hydrocarbons (PAHs) by EPA 8270D (Scan)

Prep: EPA 3546

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 0020481							
A0B0411-01	Sediment	EPA 8270D	09/26/19 11:11	02/17/20 06:59	10.13g/5mL	10g/5mL	0.99
A0B0411-02	Sediment	EPA 8270D	09/26/19 11:11	02/17/20 06:59	10.24g/5mL	10g/5mL	0.98
A0B0411-03	Sediment	EPA 8270D	09/26/19 11:11	02/17/20 06:59	10.11g/5mL	10g/5mL	0.99
A0B0411-03RE1	Sediment	EPA 8270D	09/26/19 11:11	02/17/20 06:59	10.11g/5mL	10g/5mL	0.99
A0B0411-04	Sediment	EPA 8270D	09/26/19 11:11	02/17/20 06:59	10.05g/5mL	10g/5mL	1.00
A0B0411-05	Sediment	EPA 8270D	09/26/19 11:11	02/17/20 06:59	10.16g/5mL	10g/5mL	0.98

Demand Parameters

Prep: PSEP-5310B TOC

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 0020538							
A0B0411-01	Sediment	SM 5310 B MOD	09/26/19 11:11	02/18/20 10:58			NA
A0B0411-02	Sediment	SM 5310 B MOD	09/26/19 11:11	02/18/20 10:58			NA

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SAMPLE PREPARATION INFORMATION

Demand Parameters

Prep: PSEP-5310B TOC

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A0B0411-03	Sediment	SM 5310 B MOD	09/26/19 11:11	02/18/20 10:58			NA
A0B0411-04	Sediment	SM 5310 B MOD	09/26/19 11:11	02/18/20 10:58			NA
A0B0411-05	Sediment	SM 5310 B MOD	09/26/19 11:11	02/18/20 10:58			NA

Solid and Moisture Determinations

Prep: Total Solids (SM2540G/PSEP)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 0020537							
A0B0411-01	Sediment	SM 2540 G	09/26/19 11:11	02/18/20 07:36			NA
A0B0411-02	Sediment	SM 2540 G	09/26/19 11:11	02/18/20 07:36			NA
A0B0411-03	Sediment	SM 2540 G	09/26/19 11:11	02/18/20 07:36			NA
A0B0411-04	Sediment	SM 2540 G	09/26/19 11:11	02/18/20 07:36			NA
A0B0411-05	Sediment	SM 2540 G	09/26/19 11:11	02/18/20 07:36			NA

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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.
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.
C-07	Extract has undergone Sulfuric Acid Cleanup by EPA 3665A, Sulfur Cleanup by EPA 3660B, and Florisil Cleanup by EPA 3620B in order to minimize matrix interference.
H-08	Sample hold time extended by freezing at -18 degrees C. Total time at 4 degrees C was less than the standard hold time.
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-05	Analyses are not controlled on RPD values from sample and duplicate concentrations that are below 5 times the reporting level.
Q-24	The RPD for this spike and spike duplicate is above established control limits. Recoveries for both the spike and spike duplicate are within control limits.

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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 ½ the Reporting Limit (RL).
-For Blank hits falling between ½ 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.

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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.

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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

All reported analytes are included in Apex Laboratories' current ORELAP scope.

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 provded by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

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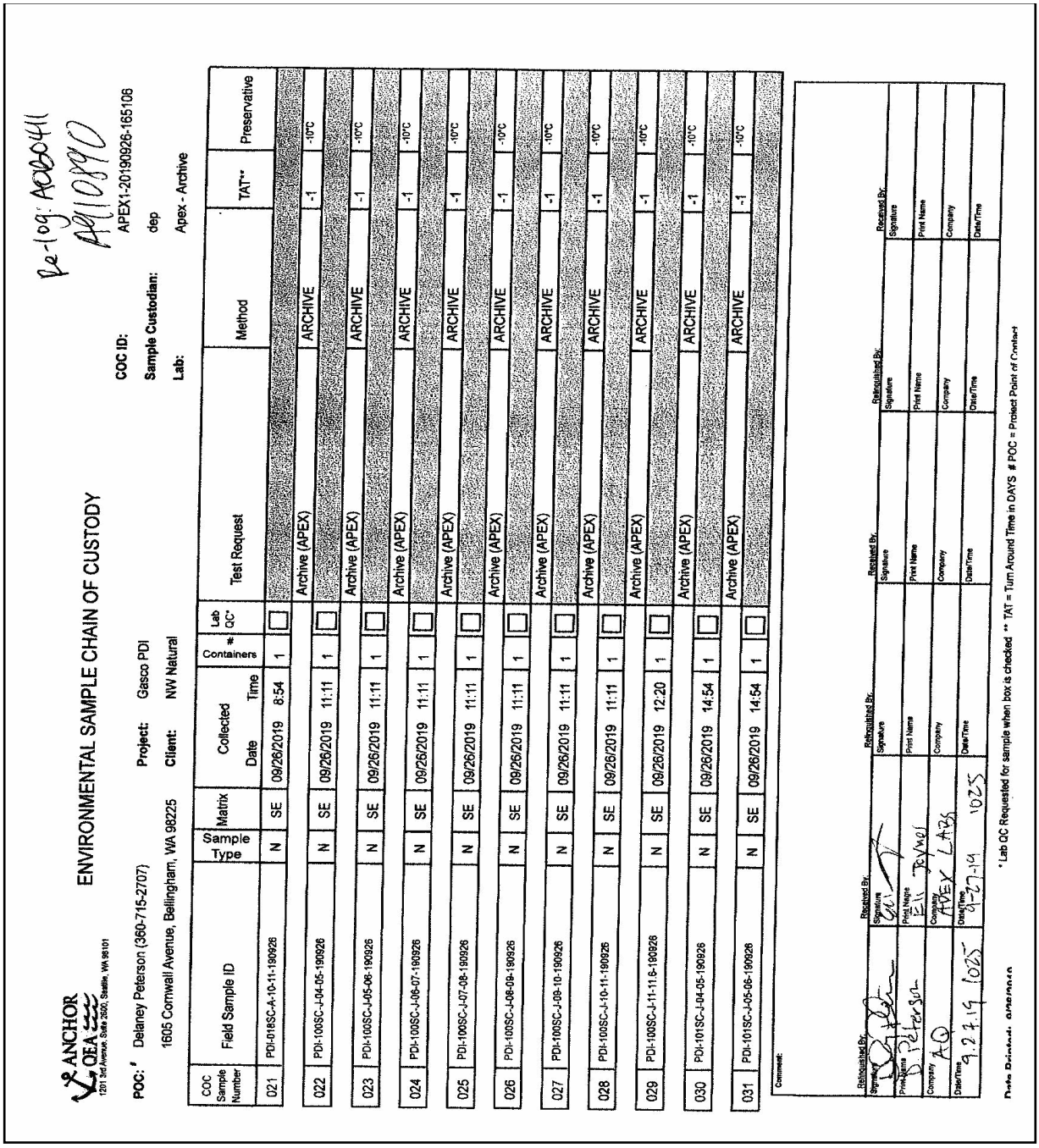

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

ANCHOR QEA LLC, 1201 3rd Avenue, Suite 2500, Seattle, WA 98101

COC ID: APEX1-20190926-165106
Sample Custodian: dep
Lab: Apex - Archive

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

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Collected Time	# Containers	Lab QC*	Test Request	Method	TAT**	Preservative
021	PDI-018SC-A-10-11-190926	N	SE	09/26/2019	8:54	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
022	PDI-100SC-J-04-05-190926	N	SE	09/26/2019	11:11	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
023	PDI-100SC-J-05-06-190926	N	SE	09/26/2019	11:11	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
024	PDI-100SC-J-06-07-190926	N	SE	09/26/2019	11:11	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
025	PDI-100SC-J-07-08-190926	N	SE	09/26/2019	11:11	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
026	PDI-100SC-J-08-09-190926	N	SE	09/26/2019	11:11	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
027	PDI-100SC-J-09-10-190926	N	SE	09/26/2019	11:11	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
028	PDI-100SC-J-10-11-190926	N	SE	09/26/2019	11:11	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
029	PDI-100SC-J-11-11.5-190926	N	SE	09/26/2019	12:20	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
030	PDI-101SC-J-04-05-190926	N	SE	09/26/2019	14:54	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
031	PDI-101SC-J-05-06-190926	N	SE	09/26/2019	14:54	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C

Comment:

Relinquished By: Signature / Print Name / Company / Date/Time — Received By: Signature / Print Name / Company / Date/Time — Relinquished By: Signature / Print Name / Company / Date/Time — Received By: Signature / Print Name / Company / Date/Time

Relinquished By: Signature / Print Name: B Peterson / Company: AQ / Date/Time: 9.27.19 1025 — Received By: Signature / Print Name: Eli Boywel / Company: APEX LABS / Date/Time: 9-27-19 1025

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

Pre-log: A0B0411
A0B1089O

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APEX LABS COOLER RECEIPT FORM

Re-log: A0B0441

Client: Anchor QEA Element WO#: A9 ID890

Project/Project #: Gasco PDI

Delivery Info:

Date/time received: 9-27-19 @ 1025 By: EJ

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

Cooler Inspection Date/time inspected: 9-27-19 @ 1127 By: EJ

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

Signed/dated by client? Yes X No

Signed/dated by Apex? Yes X No

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	2.1	1.4	1.1	1.0			
Received on ice? (Y/N)	Y	Y	Y	Y			
Temp. blanks? (Y/N)	Y	Y	Y	Y			
Ice type: (Gel/Real/Other)	Real	Real	Real	Real			
Condition:	Good	Good	Good	Good			

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: 9-26-19 @ 16:10 By: TAH

All samples intact? Yes X No Comments:

Bottle labels/COCs agree? Yes X No Comments:

COC/container discrepancies form initiated? Yes No NA X

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

Do VOA vials have visible headspace? Yes No NA X

Comments

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

Comments:

Additional information:

Labeled by: TAH Witness: Cooler Inspected by: TAH See Project Contact Form: Y

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.

Darwin Thomas, Business Development Director

APEX LABORATORIES, LLC
6700 SW Sandburg St. Tigard OR 97223 phone 503-718-2323

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

A0B0411

Apex Laboratories

Client: Anchor QEA, LLC
Project: Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing
Project Manager: Darwin Thomas
Project Number: [none]

Report To:
Anchor QEA, LLC
Ryan Barth
6720 SW Macadam Ave. Suite 125
Portland, OR 97219
Phone: (503) 670-1108
Fax: na

Invoice To:
Anchor QEA, LLC Seattle
Accounts Payable
1201 3rd Avenue, Suite 2600
Seattle, WA 98101
Phone :(206) 287-9130
Fax: (206) 287-9131

Date Due: 02/21/20 17:00 (100 day TAT)
Received By: Eli S. Joyner
Date Received: 09/27/19 10:25
Logged In By: Cameron L O'Brien
Date Logged In: 02/14/20 17:54

Cooler #1 received at 2.1°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 1.4°C

Custody Seals	No	Containers Intact	Yes	COC/Labels Agree	Yes	PH Confirmed	No	Received On Ice	Yes
Temperature OK	Yes								

Cooler #3 received at 1.1°C

Custody Seals	No	Containers Intact	Yes	COC/Labels Agree	Yes	PH Confirmed	No	Received On Ice	Yes
Temperature OK	Yes								

Cooler #4 received at 1.0°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
A0B0411-01 PDI-100SC-J-06-07-190926 [Sediment] Sampled 09/26/19 11:11 (GMT-08:00) Pacific Time (US & Canada) 1 Containers				**Copy/Re-log from A9I0890-24**
Dry Weight				
Dry Weight	02/19/20 17:00	3	03/24/20 11:11	Use Results from TS.. Make NR once completed.
Project Mgmt				
Data Package	03/25/20 17:00	3	01/03/20 11:11	
Sample Control				
Archive Samples - Frozen	02/19/20 17:00	3	09/27/19 11:11	
Semivols (ECD)				
8081B 2,4+4,4-DDx Only (+Add)	02/19/20 17:00	3	10/10/19 11:11	MDL. Use Custom Spike.
8082 PCBs - Low Level (30g/2mL)	02/19/20 17:00	3	09/25/20 11:11	+1262,1268
Semivols (Scan)				
8270D LL PAH Only (Scan)	02/19/20 17:00	3	10/10/19 11:11	
Wet Chem				
Solids, Total (SM 2540 G,B)	02/19/20 17:00	3	03/24/20 11:11	Use Results for Dry Weight (Not for Waters)
Total Organic Carbon - Soil (5310 B)	02/19/20 17:00	3	10/24/19 11:11	

A0B0411

Apex Laboratories

Client:	**Anchor QEA, LLC**	**Project Manager:**	**Darwin Thomas**
Project:	**Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing**	**Project Number:**	**[none]**

Analysis	Due	TAT	Expires	Comments
Analysis	**Due**	**TAT**	**Expires**	**Comments**
A0B0411-02 PDI-100SC-J-07-08-190926 [Sediment] Sampled 09/26/19 11:11 (GMT-08:00) Pacific Time (US & Canada) 1 Containers				**Copy/Re-log from A9I0890-25**
Dry Weight				
Dry Weight	02/19/20 17:00	3	03/24/20 11:11	Use Results from TS.. Make NR once completed.
Sample Control				
Archive Samples - Frozen	02/21/20 17:00	5	09/27/19 11:11	
Semivols (ECD)				
8081B 2,4+4,4-DDx Only (+Add)	02/21/20 17:00	5	10/10/19 11:11	MDL. Use Custom Spike.
8082 PCBs - Low Level (30g/2mL)	02/21/20 17:00	5	09/25/20 11:11	+1262,1268
Semivols (Scan)				
8270D LL PAH Only (Scan)	02/21/20 17:00	5	10/10/19 11:11	
Wet Chem				
Solids, Total (SM 2540 G,B)	02/19/20 17:00	3	03/24/20 11:11	Use Results for Dry Weight (Not for Waters)
Total Organic Carbon - Soil (5310 B)	02/21/20 17:00	5	10/24/19 11:11	
A0B0411-03 PDI-100SC-J-08-09-190926 [Sediment] Sampled 09/26/19 11:11 (GMT-08:00) Pacific Time (US & Canada) 1 Containers				**Copy/Re-log from A9I0890-26**
Dry Weight				
Dry Weight	02/19/20 17:00	3	03/24/20 11:11	Use Results from TS.. Make NR once completed.
Sample Control				
Archive Samples - Frozen	02/21/20 17:00	5	09/27/19 11:11	
Semivols (ECD)				
8081B 2,4+4,4-DDx Only (+Add)	02/21/20 17:00	5	10/10/19 11:11	MDL. Use Custom Spike.
8082 PCBs - Low Level (30g/2mL)	02/21/20 17:00	5	09/25/20 11:11	+1262,1268
Semivols (Scan)				
8270D LL PAH Only (Scan)	02/21/20 17:00	5	10/10/19 11:11	
Wet Chem				
Solids, Total (SM 2540 G,B)	02/19/20 17:00	3	03/24/20 11:11	Use Results for Dry Weight (Not for Waters)
Total Organic Carbon - Soil (5310 B)	02/21/20 17:00	5	10/24/19 11:11	

A0B0411

Apex Laboratories

Client:	**Anchor QEA, LLC**	**Project Manager:**	**Darwin Thomas**
Project:	**Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing**	**Project Number:**	**[none]**

Analysis	Due	TAT	Expires	Comments
Analysis	**Due**	**TAT**	**Expires**	**Comments**
A0B0411-04 PDI-100SC-J-09-10-190926 [Sediment] Sampled 09/26/19 11:11 (GMT-08:00) Pacific Time (US & Canada) 1 Containers				**Copy/Re-log from A9I0890-27**
Dry Weight				
Dry Weight	02/19/20 17:00	3	03/24/20 11:11	Use Results from TS.. Make NR once completed.
Sample Control				
Archive Samples - Frozen	02/21/20 17:00	5	09/27/19 11:11	
Semivols (ECD)				
8081B 2,4+4,4-DDx Only (+Add)	02/21/20 17:00	5	10/10/19 11:11	MDL. Use Custom Spike.
8082 PCBs - Low Level (30g/2mL)	02/21/20 17:00	5	09/25/20 11:11	+1262,1268
Semivols (Scan)				
8270D LL PAH Only (Scan)	02/21/20 17:00	5	10/10/19 11:11	
Wet Chem				
Solids, Total (SM 2540 G,B)	02/19/20 17:00	3	03/24/20 11:11	Use Results for Dry Weight (Not for Waters)
Total Organic Carbon - Soil (5310 B)	02/21/20 17:00	5	10/24/19 11:11	
A0B0411-05 PDI-100SC-J-10-11-190926 [Sediment] Sampled 09/26/19 11:11 (GMT-08:00) Pacific Time (US & Canada) 1 Containers				**Copy/Re-log from A9I0890-28**
Dry Weight				
Dry Weight	02/19/20 17:00	3	03/24/20 11:11	Use Results from TS.. Make NR once completed.
Sample Control				
Archive Samples - Frozen	02/21/20 17:00	5	09/27/19 11:11	
Semivols (ECD)				
8081B 2,4+4,4-DDx Only (+Add)	02/21/20 17:00	5	10/10/19 11:11	MDL. Use Custom Spike.
8082 PCBs - Low Level (30g/2mL)	02/21/20 17:00	5	09/25/20 11:11	+1262,1268
Semivols (Scan)				
8270D LL PAH Only (Scan)	02/21/20 17:00	5	10/10/19 11:11	
Wet Chem				
Solids, Total (SM 2540 G,B)	02/19/20 17:00	3	03/24/20 11:11	Use Results for Dry Weight (Not for Waters)
Total Organic Carbon - Soil (5310 B)	02/21/20 17:00	5	10/24/19 11:11	

Reviewed By

Date

Re-log: AOB0411

ANCHOR QEA
1201 3rd Avenue, Suite 2600, Seattle, WA 98101

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

AQ10890

COC ID: APEX1-20190926-165106

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

Project: Gasco PDI
Client: NW Natural

Sample Custodian: dep
Lab: Apex - Archive

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Collected Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
001	PDI-013SC-A-00-01-190925	N	SE	09/25/2019	13:51	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
002	PDI-013SC-A-01-02-190925	N	SE	09/25/2019	13:51	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
003	PDI-013SC-A-02-03-190925	N	SE	09/25/2019	13:51	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
004	PDI-013SC-A-03-04-190925	N	SE	09/25/2019	13:51	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
005	PDI-013SC-A-04-05-190925	N	SE	09/25/2019	13:51	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
006	PDI-013SC-A-05-06-190925	N	SE	09/25/2019	13:51	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
007	PDI-013SC-A-06-07-190925	N	SE	09/25/2019	13:51	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
008	PDI-013SC-A-07-08-190925	N	SE	09/25/2019	13:51	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
009	PDI-013SC-A-08-09-190925	N	SE	09/25/2019	13:51	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
010	PDI-013SC-A-09-10-190925	N	SE	09/25/2019	13:51	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
011	PDI-018SC-A-00-01-190926	N	SE	09/26/2019	8:54	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C

Comment:

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature	Signature	Signature	Signature	Signature	Signature
Print Name: Peterson	Print Name: Emily Joyner	Print Name	Print Name	Print Name	Print Name
Company: AQ	Company: APEX LABS	Company	Company	Company	Company
Date/Time: 9.27.19 1025	Date/Time: 9-27-19 1025	Date/Time	Date/Time	Date/Time	Date/Time

Date Printed: 9/26/2019

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

Re-log: A0B0411
A9108901

ANCHOR QEA
1201 3rd Avenue, Suite 2600, Seattle, WA 98101

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: APEX1-20190926-165106

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

Project: Gasco PDI
Client: NW Natural

Sample Custodian: dep
Lab: Apex - Archive

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Collected Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
011	PDI-018SC-A-00-01-190926	N	SE	09/26/2019	8:54	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
012	PDI-018SC-A-01-02-190926	N	SE	09/26/2019	8:54	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
013	PDI-018SC-A-02-03-190926	N	SE	09/26/2019	8:54	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
014	PDI-018SC-A-03-04-190926	N	SE	09/26/2019	8:54	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
015	PDI-018SC-A-04-05-190926	N	SE	09/26/2019	8:54	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
016	PDI-018SC-A-05-06-190926	N	SE	09/26/2019	8:54	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
017	PDI-018SC-A-06-07-190926	N	SE	09/26/2019	8:54	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
018	PDI-018SC-A-07-08-190926	N	SE	09/26/2019	8:54	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
019	PDI-018SC-A-08-09-190926	N	SE	09/26/2019	8:54	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
020	PDI-018SC-A-09-10-190926	N	SE	09/26/2019	8:54	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
021	PDI-018SC-A-10-11-190926	N	SE	09/26/2019	8:54	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C

Comment:

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature	Signature	Signature	Signature	Signature	Signature
Print Name: D. Peterson	Print Name: Eli Joynel	Print Name	Print Name	Print Name	Print Name
Company: AQ	Company: APEX LABS	Company	Company	Company	Company
Date/Time: 9.27.19 1025	Date/Time: 9-27-19 1025	Date/Time	Date/Time	Date/Time	Date/Time

Date Printed: 9/26/2019

* Lab QC Requested for sample ID's checked

** TAT = Turn Around Time in DAYS # POC = Project Point of Contact

Re-log: AQB0411
AQ10890

ANCHOR QEA
1201 3rd Avenue, Suite 2600, Seattle, WA 98101

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

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

Project: Gasco PDI
Client: NW Natural

COC ID: APEX1-20190926-165106
Sample Custodian: dep
Lab: Apex - Archive

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Collected Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
021	PDI-018SC-A-10-11-190926	N	SE	09/26/2019	8:54	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
022	PDI-100SC-J-04-05-190926	N	SE	09/26/2019	11:11	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
023	PDI-100SC-J-05-06-190926	N	SE	09/26/2019	11:11	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
024	PDI-100SC-J-06-07-190926	N	SE	09/26/2019	11:11	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
025	PDI-100SC-J-07-08-190926	N	SE	09/26/2019	11:11	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
026	PDI-100SC-J-08-09-190926	N	SE	09/26/2019	11:11	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
027	PDI-100SC-J-09-10-190926	N	SE	09/26/2019	11:11	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
028	PDI-100SC-J-10-11-190926	N	SE	09/26/2019	11:11	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
029	PDI-100SC-J-11-11.6-190926	N	SE	09/26/2019	12:20	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
030	PDI-101SC-J-04-05-190926	N	SE	09/26/2019	14:54	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
031	PDI-101SC-J-05-06-190926	N	SE	09/26/2019	14:54	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C

Comment:

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature	Signature	Signature	Signature	Signature	Signature
Print Name: D. Peterson	Print Name: Eli Joyner	Print Name	Print Name	Print Name	Print Name
Company: AQ	Company: APEX LABS	Company	Company	Company	Company
Date/Time: 9.27.19 1025	Date/Time: 9-27-19 1025	Date/Time	Date/Time	Date/Time	Date/Time

Date Printed: 9/26/2019

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

Re-log: A0B0411

ANCHOR QEA
1201 3rd Avenue, Suite 2600, Seattle, WA 98101

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: A910890 APEX1-20190926-165106
Sample Custodian: dep
Lab: Apex - Archive

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

Project: Gasco PDI
Client: NW Natural

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Collected Time	# Containers	Lab QC*	Test Request	Method	TAT**	Preservative
031	PDI-101SC-J-05-06-190926	N	SE	09/26/2019	14:54	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
032	PDI-101SC-J-06-07-190926	N	SE	09/26/2019	14:54	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
033	PDI-101SC-J-07-08-190926	N	SE	09/26/2019	14:54	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
034	PDI-101SC-J-08-09-190926	N	SE	09/26/2019	14:54	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
035	PDI-101SC-J-09-10-190926	N	SE	09/26/2019	14:54	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
036	PDI-101SC-J-10-11-190926	N	SE	09/26/2019	14:54	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
037	PDI-101SC-J-11-12-190926	N	SE	09/26/2019	14:54	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
038	PDI-101SC-J-12-13-190926	N	SE	09/26/2019	14:54	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
039	PDI-101SC-J-13-14-190926	N	SE	09/26/2019	14:54	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
040	PDI-101SC-J-14-15-190926	N	SE	09/26/2019	14:54	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
041	PDI-101SC-J-15-15.6-190926	N	SE	09/26/2019	15:50	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C

Comment:

	Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature	[signature]	[signature]				
Print Name	D. Peterson	Eli Joyner				
Company	AQ	APEX LABS				
Date/Time	9.27.19 1025	9-27-19 1025				

Date Printed: 9/26/2019

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

Re-log: AOB0411
AQ10890

ANCHOR QEA
1201 3rd Avenue, Suite 2600, Seattle, WA 98101

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

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

Project: Gasco PDI
Client: NW Natural

COC ID: APEX1-20190926-165106
Sample Custodian: dep
Lab: Apex - Archive

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Collected Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
041	PDI-101SC-J-15-15.6-190926	N	SE	09/26/2019	15:50	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C

Comment:

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature	Signature	Signature	Signature	Signature	Signature
Print Name D. Peterson	Print Name Eli Joyner	Print Name	Print Name	Print Name	Print Name
Company AQ	Company APEX LABS	Company	Company	Company	Company
Date/Time 9.27.19 1025	Date/Time 9-27-19 1025	Date/Time	Date/Time	Date/Time	Date/Time

Date Printed: 9/26/2019

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

APEX LABS COOLER RECEIPT FORM Pe-log: A0B0441

Client: Anchor QEA Element WO#: A9I0890

Project/Project #: Gasco PDI

Delivery Info:

Date/time received: 9-27-19 @ 1025 By: EJ

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

Cooler Inspection Date/time inspected: 9-27-19 @ 1127 By: EJ

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

Signed/dated by client? Yes X No ___

Signed/dated by Apex? Yes X No ___

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	2.1	1.4	1.1	1.0			
Received on ice? (Y/N)	Y	Y	Y	Y			
Temp. blanks? (Y/N)	Y	Y	Y	Y			
Ice type: (Gel/Real/Other)	Real	Real	Real	Real			
Condition:	Good	Good	Good	Good			

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: 9-26-19 @ 16:10 By: TAH

All samples intact? Yes X No ___ Comments: ___

Bottle labels/COCs agree? Yes X No ___ Comments: ___

COC/container discrepancies form initiated? Yes ___ No ___ NA X

Containers/volumes received appropriate for analysis? Yes (O) No ___ Comments: ___

Do VOA vials have visible headspace? Yes ___ No ___ NA X

Comments ___

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

Comments: ___

Additional information: ___

Labeled by: TAH Witness: ___ Cooler Inspected by: DM See Project Contact Form: Y

APEX LABORATORIES, LLC
6700 SW Sandburg St. Tigard OR 97223 phone 503-718-2323

CLP-Like Forms

Apex Laboratories

SDG: Gasco PreRD_DG 2019

CLASS: GC

METHOD: EPA 8082A

ANALYSES DATA PACKAGE COVER PAGE

EPA 8082A

Laboratory: Apex Laboratories

Client: Anchor QEA, LLC

SDG: Gasco PreRD_DG 2019

Project: Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing C

Client Sample Id:	Lab Sample Id:	Matrix
PDI-100SC-J-06-07-190926	A0B0411-01	Sediment
PDI-100SC-J-07-08-190926	A0B0411-02	Sediment
PDI-100SC-J-08-09-190926	A0B0411-03	Sediment
PDI-100SC-J-09-10-190926	A0B0411-04	Sediment
PDI-100SC-J-10-11-190926	A0B0411-05	Sediment

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 autorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: 

Name: David G. Jack

Forms Created: 3/25/2020 12:37PM

Title: Technical Manager

METHOD DETECTION AND REPORTING LIMITS

EPA 8082A

Laboratory: Apex Laboratories

SDG: Gasco_PreRD_DG 2019

Client: Anchor QEA, LLC

Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP

Batch Matrix: Sediment

Analyte	MDL	MRL	Units
Aroclor 1016	0.670	1.33	ug/kg
Aroclor 1221	0.670	1.33	ug/kg
Aroclor 1232	0.670	1.33	ug/kg
Aroclor 1242	0.670	1.33	ug/kg
Aroclor 1248	0.670	1.33	ug/kg
Aroclor 1254	0.670	1.33	ug/kg
Aroclor 1260	0.670	1.33	ug/kg
Aroclor 1262	0.670	1.33	ug/kg
Aroclor 1268	0.670	1.33	ug/kg

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

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

PDI-100SC-J-06-07-190926

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment	Laboratory ID:	A0B0411-01	File ID:	ECD2R006.D
Sampled:	09/26/19 11:11	Prepared:	02/17/20 09:23	Analyzed:	02/19/20 09:06
Solids:	82.12	Preparation:	EPA 3546	Initial/Final:	30.23 g / 2 mL
Batch:	0020497	Sequence:	0B19023	Calibration:	A0A1501
Instrument:	DUALECD2R				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.810	U
11104-28-2	Aroclor 1221	1	0.810	U
11141-16-5	Aroclor 1232	1	0.810	U
53469-21-9	Aroclor 1242	1	0.810	U
12672-29-6	Aroclor 1248	1	0.810	U
11097-69-1	Aroclor 1254	1	0.810	U
11096-82-5	Aroclor 1260	1	0.810	U
37324-23-5	Aroclor 1262	1	0.810	U
11100-14-4	Aroclor 1268	1	0.810	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl (Surr)	20.1	16.9	84	43 - 120	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

PDI-100SC-J-07-08-190926

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment	Laboratory ID:	A0B0411-02	File ID:	ECD2R010.D
Sampled:	09/26/19 11:11	Prepared:	02/17/20 09:23	Analyzed:	02/19/20 10:18
Solids:	80.22	Preparation:	EPA 3546	Initial/Final:	30.01 g / 2 mL
Batch:	0020497	Sequence:	0B19023	Calibration:	A0A1501
Instrument:	DUALECD2R				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.835	U
11104-28-2	Aroclor 1221	1	0.835	U
11141-16-5	Aroclor 1232	1	0.835	U
53469-21-9	Aroclor 1242	1	0.835	U
12672-29-6	Aroclor 1248	1	0.835	U
11097-69-1	Aroclor 1254	1	0.835	U
11096-82-5	Aroclor 1260	1	0.835	U
37324-23-5	Aroclor 1262	1	0.835	U
11100-14-4	Aroclor 1268	1	0.835	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl (Surr)	20.8	17.7	85	43 - 120	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

PDI-100SC-J-08-09-190926

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment	Laboratory ID:	A0B0411-03	File ID:	ECD2R012.D
Sampled:	09/26/19 11:11	Prepared:	02/17/20 09:23	Analyzed:	02/19/20 10:54
Solids:	78.39	Preparation:	EPA 3546	Initial/Final:	30.55 g / 2 mL
Batch:	0020497	Sequence:	0B19023	Calibration:	A0A1501
Instrument:	DUALECD2R				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.839	U
11104-28-2	Aroclor 1221	1	0.839	U
11141-16-5	Aroclor 1232	1	0.839	U
53469-21-9	Aroclor 1242	1	0.839	U
12672-29-6	Aroclor 1248	1	0.839	U
11097-69-1	Aroclor 1254	1	0.839	U
11096-82-5	Aroclor 1260	1	0.839	U
37324-23-5	Aroclor 1262	1	0.839	U
11100-14-4	Aroclor 1268	1	0.839	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl (Surr)	20.9	17.5	84	43 - 120	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

PDI-100SC-J-09-10-190926

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment	Laboratory ID:	A0B0411-04	File ID:	ECD2R014.D
Sampled:	09/26/19 11:11	Prepared:	02/17/20 09:23	Analyzed:	02/19/20 11:29
Solids:	84.55	Preparation:	EPA 3546	Initial/Final:	30.16 g / 2 mL
Batch:	0020497	Sequence:	0B19023	Calibration:	A0A1501
Instrument:	DUALECD2R				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.788	U
11104-28-2	Aroclor 1221	1	0.788	U
11141-16-5	Aroclor 1232	1	0.788	U
53469-21-9	Aroclor 1242	1	0.788	U
12672-29-6	Aroclor 1248	1	0.788	U
11097-69-1	Aroclor 1254	1	0.788	U
11096-82-5	Aroclor 1260	1	0.788	U
37324-23-5	Aroclor 1262	1	0.788	U
11100-14-4	Aroclor 1268	1	0.788	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl (Surr)	19.6	17.8	91	43 - 120	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

PDI-100SC-J-10-11-190926

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment	Laboratory ID:	A0B0411-05	File ID:	ECD2R016.D
Sampled:	09/26/19 11:11	Prepared:	02/17/20 09:23	Analyzed:	02/19/20 12:04
Solids:	83.62	Preparation:	EPA 3546	Initial/Final:	30.16 g / 2 mL
Batch:	0020497	Sequence:	0B19023	Calibration:	A0A1501
Instrument:	DUALECD2R				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.797	U
11104-28-2	Aroclor 1221	1	0.797	U
11141-16-5	Aroclor 1232	1	0.797	U
53469-21-9	Aroclor 1242	1	0.797	U
12672-29-6	Aroclor 1248	1	0.797	U
11097-69-1	Aroclor 1254	1	0.797	U
11096-82-5	Aroclor 1260	1	0.797	U
37324-23-5	Aroclor 1262	1	0.797	U
11100-14-4	Aroclor 1268	1	0.797	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl (Surr)	19.8	19.9	100	43 - 120	

* Values outside of QC limits

PREPARATION BATCH SUMMARY

EPA 8082A

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Batch: 0020497 Batch Matrix: Sediment Preparation: EPA 3546

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	0020497-BLK1	ECD2R004.D	02/17/20 09:23	
LCS	0020497-BS1	ECD2R005.D	02/17/20 09:23	
PDI-100SC-J-06-07-190926 (Dup)	0020497-DUP1	ECD2R008.D	02/17/20 09:23	
PDI-100SC-J-10-11-190926 (MS)	0020497-MS1	ECD2R018.D	02/17/20 09:23	
PDI-100SC-J-10-11-190926 (MSD)	0020497-MSD1	ECD2R020.D	02/17/20 10:12	
PDI-100SC-J-06-07-190926	A0B0411-01	ECD2R006.D	02/17/20 09:23	
PDI-100SC-J-07-08-190926	A0B0411-02	ECD2R010.D	02/17/20 09:23	
PDI-100SC-J-08-09-190926	A0B0411-03	ECD2R012.D	02/17/20 09:23	
PDI-100SC-J-09-10-190926	A0B0411-04	ECD2R014.D	02/17/20 09:23	
PDI-100SC-J-10-11-190926	A0B0411-05	ECD2R016.D	02/17/20 09:23	

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.

METHOD BLANK DATA SHEET

EPA 8082A

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Matrix:	Sediment	Laboratory ID:	0020497-BLK1	File ID:	ECD2R004.D
Prepared:	02/17/20 09:23	Preparation:	EPA 3546	Initial/Final:	31 g / 2 mL
Analyzed:	02/19/20 08:31	Instrument:	DUALECD2R		
Batch:	0020497	Sequence:	0B19023	Calibration:	A0A1501

CAS NO.	COMPOUND	CONC. (ug/kg wet)	Q
12674-11-2	Aroclor 1016	0.648	U
11104-28-2	Aroclor 1221	0.648	U
11141-16-5	Aroclor 1232	0.648	U
53469-21-9	Aroclor 1242	0.648	U
12672-29-6	Aroclor 1248	0.648	U
11097-69-1	Aroclor 1254	0.648	U
11096-82-5	Aroclor 1260	0.648	U
37324-23-5	Aroclor 1262	0.648	U
11100-14-4	Aroclor 1268	0.648	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg wet)	CONC (ug/kg wet)	% REC	QC LIMITS	Q
Decachlorobiphenyl (Surr)	16.1	15.2	94	43 - 120	

LCS / LCS DUPLICATE RECOVERY

EPA 8082A

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment		
Batch:	0020497	Laboratory ID:	0020497-BS1
Preparation:	EPA 3546	Initial/Final:	30 g / 2 mL

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC. (*=Out)	QC LIMITS REC.
Aroclor 1016	83.3	50.7	61	47 - 134
Aroclor 1260	83.3	72.4	87	53 - 140

* = Values outside of QC limits

DUPLICATES

PDI-100SC-J-06-07-190926

EPA 8082A

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP
Matrix: Sediment
Laboratory ID: 0020497-DUP1
Batch: 0020497
Lab Source ID: A0B0411-01
Preparation: EPA 3546
Initial/Final: 30.18 g / 2 mL
Source Sample Name: PDI-100SC-J-06-07-190926
% Solids: 82.12

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (ug/kg dry)	C	DUPLICATE CONCENTRATION (ug/kg dry)	C	RPD %	Q	METHOD
Aroclor 1016	30	0.00		ND				EPA 8082A
Aroclor 1221	30	0.00		ND				EPA 8082A
Aroclor 1232	30	0.00		ND				EPA 8082A
Aroclor 1242	30	0.00		ND				EPA 8082A
Aroclor 1248	30	0.00		ND				EPA 8082A
Aroclor 1254	30	0.00		ND				EPA 8082A
Aroclor 1260	30	0.00		ND				EPA 8082A
Aroclor 1262	30	0.00		ND				EPA 8082A
Aroclor 1268	30	0.00		ND				EPA 8082A

* Values outside of QC limits

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8082A

PDI-100SC-J-10-11-190926

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cc
Matrix:	Sediment		
Batch:	0020497	Laboratory ID:	0020497-MS1
Preparation:	EPA 3546	Initial/Final:	30.09 g / 2 mL

Source Sample Name: PDI-100SC-J-10-11-190926

COMPOUND	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC. (*=Out)	QC LIMITS REC.
Aroclor 1016	99.4	ND	52.0	52	47 - 134
Aroclor 1260	99.4	ND	73.9	74	53 - 140

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8082A

PDI-100SC-J-10-11-190926

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment		
Batch:	0020497	Laboratory ID:	0020497-MSD1
Preparation:	EPA 3546	Initial/Final:	30.1 g / 2 mL

Source Sample Name: PDI-100SC-J-10-11-190926

COMPOUND	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % RECOVERY	% RPD	QC LIMITS RPD	QC LIMITS REC.
Aroclor 1016	99.3	61.1	62	16	30	47 - 134
Aroclor 1260	99.3	82.9	83	11	30	53 - 140

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8082A

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	0A13050	Instrument:	DUALECD2R
Matrix:	Sediment	Calibration:	A0A1501

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Blank	0A13050-ICB1	ECD2R004.D	01/13/20 17:15
Cal Standard	0A13050-CAL1	ECD2R005.D	01/13/20 17:33
Cal Standard	0A13050-CAL2	ECD2R006.D	01/13/20 17:50
Cal Standard	0A13050-CAL3	ECD2R007.D	01/13/20 18:08
Cal Standard	0A13050-CAL4	ECD2R008.D	01/13/20 18:25
Cal Standard	0A13050-CAL5	ECD2R009.D	01/13/20 18:43
Cal Standard	0A13050-CAL6	ECD2R010.D	01/13/20 19:01
Cal Standard	0A13050-CAL7	ECD2R011.D	01/13/20 19:18
Initial Cal Check	0A13050-ICV1	ECD2R013.D	01/13/20 19:54
Cal Standard	0A13050-CAL8	ECD2R014.D	01/13/20 20:11
Cal Standard	0A13050-CAL9	ECD2R015.D	01/13/20 20:29
Cal Standard	0A13050-CALA	ECD2R016.D	01/13/20 20:46
Cal Standard	0A13050-CALB	ECD2R017.D	01/13/20 21:04
Cal Standard	0A13050-CALC	ECD2R018.D	01/13/20 21:22
Cal Standard	0A13050-CALD	ECD2R019.D	01/13/20 21:39
Cal Standard	0A13050-CALE	ECD2R020.D	01/13/20 21:57
Initial Cal Check	0A13050-ICV2	ECD2R021.D	01/13/20 22:15
Initial Cal Check	0A13050-ICV3	ECD2R022.D	01/13/20 22:32
Initial Cal Check	0A13050-ICV4	ECD2R023.D	01/13/20 22:50
Initial Cal Check	0A13050-ICV5	ECD2R025.D	01/14/20 08:02

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 8082A

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	0B19023	Instrument:	DUALECD2R
Matrix:	Sediment	Calibration:	A0A1501

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	0B19023-CCV1	ECD2R002.D	02/19/20 07:54
Calibration Blank	0B19023-CCB1	ECD2R003.D	02/19/20 08:11
Blank	0020497-BLK1	ECD2R004.D	02/19/20 08:31
LCS	0020497-BS1	ECD2R005.D	02/19/20 08:49
PDI-100SC-J-06-07-190926	A0B0411-01	ECD2R006.D	02/19/20 09:06
PDI-100SC-J-06-07-190926 (Dup)	0020497-DUP1	ECD2R008.D	02/19/20 09:41
PDI-100SC-J-07-08-190926	A0B0411-02	ECD2R010.D	02/19/20 10:18
PDI-100SC-J-08-09-190926	A0B0411-03	ECD2R012.D	02/19/20 10:54
PDI-100SC-J-09-10-190926	A0B0411-04	ECD2R014.D	02/19/20 11:29
PDI-100SC-J-10-11-190926	A0B0411-05	ECD2R016.D	02/19/20 12:04
PDI-100SC-J-10-11-190926 (MS)	0020497-MS1	ECD2R018.D	02/19/20 12:39
PDI-100SC-J-10-11-190926 (MSD)	0020497-MSD1	ECD2R020.D	02/19/20 13:15
Calibration Check	0B19023-CCV2	ECD2R022.D	02/19/20 13:50
Calibration Blank	0B19023-CCB2	ECD2R023.D	02/19/20 14:07

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 8082A

Laboratory: Apex Laboratories SDG: Gasco_PreRD_DG 2019

Client: Anchor QEA, LLC Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing

Calibration: A0A1501 Date: 01/15/20 08:26 Instrument: DUALECD2R

Compound	Mean RF	FIT	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aroclor 1016		Ave						20	
Aroclor 1221		Ave						20	
Aroclor 1232		Ave						20	
Aroclor 1242		Ave						20	
Aroclor 1248		Ave						20	
Aroclor 1254		Ave						20	
Aroclor 1260		Ave						20	
Aroclor 1262		Ave						20	
Aroclor 1268		Ave						20	
Decachlorobiphenyl (Surr)	111223.7	Ave	7.396349	10.55114	1.281006E-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 8082A

Laboratory: Apex Laboratories

Client: Anchor QEA, LLC

Calibration: A0A1501

SDG: Gasco_PreRD_DG 2019

Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Te

Instrument: DUALECD2R

Calibration Date: 01/15/20 08:26

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
1016 (1)	20	7263.95	50	6876.42	100	6397.28	200	5954.215	500	5671.72	1000	5624.087
1016 (2)	20	12472.9	50	11959.92	100	11426.6	200	11672.72	500	10968.62	1000	11025.44
1016 (3)	20	5801.75	50	5801.38	100	5369.91	200	5336.32	500	5077.81	1000	5145.954
1016 (4)	20	5870.45	50	5570.68	100	5194.09	200	4909.52	500	4406.78	1000	4338.878
1016 (5)	20	6568.75	50	6158.62	100	5693.13	200	5381.97	500	5073.978	1000	5224.293
1016 (6)	20	6760.6	50	6310.16	100	5881.35	200	5800.32	500	5147.766	1000	5149.713
Aroclor 1016	20	~~0~~	50	~~0~~	100	~~0~~	200	~~0~~	500	~~0~~	1000	~~0~~
1260 (1)	20	11821.5	50	10819.18	100	10604.65	200	10466.11	500	10161.83	1000	10123.09
1260 (2)	20	14049.55	50	13128.22	100	13214.6	200	12556.99	500	12304.63	1000	12298.76
1260 (3)	20	14118	50	13483.44	100	13273.38	200	13721.19	500	13080.06	1000	12961.67
1260 (4)	20	20729.65	50	20959.06	100	20510.63	200	21259.37	500	20993.46	1000	21886.59
1260 (5)	20	12895.05	50	12167.28	100	12204.07	200	12359.45	500	12141.69	1000	12074.36
1260 (6)	20	5118.75	50	5238.06	100	4788.51	200	5044.68	500	4784.452	1000	4594.659
Aroclor 1260	20	~~0~~	50	~~0~~	100	~~0~~	200	~~0~~	500	~~0~~	1000	~~0~~
Decachlorobiphenyl (Surr)	10	107063.8	25	110239.3	50	107929.1	100	108917.2	250	100873.3	500	117191.4

INITIAL CALIBRATION DATA (Continued)

EPA 8082A

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Te
Calibration: A0A1501
Instrument: DUALECD2R
Matrix:
Calibration Date: 01/15/20 08:26

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
1016 (1)	1500	5486.193										
1016 (2)	1500	10563.24										
1016 (3)	1500	4962.429										
1016 (4)	1500	4294.934										
1016 (5)	1500	4717.885										
1016 (6)	1500	4938.143										
Aroclor 1016	1500	0										
1254 (1)											500	8473.848
1254 (2)											500	13909.83
1254 (3)											500	15174.34
1254 (4)											500	10916.49
1254 (5)											500	11248.66
1254 (6)											500	3527.182
Aroclor 1254											500	0
1260 (1)	1500	9698.7										
1260 (2)	1500	11784.49										
1260 (3)	1500	12190.36										
1260 (4)	1500	21728.56										
1260 (5)	1500	11801.18										
1260 (6)	1500	4590.586										
Aroclor 1260	1500	0										
Decachlorobiphenyl (Surr)	800	126351.8	200	0	200	0	200	0	200	0	200	0

INITIAL CALIBRATION DATA (Continued)

EPA 8082A

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Te
Calibration: A0A1501
Instrument: DUALECD2R
Matrix:
Calibration Date: 01/15/20 08:26

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
1262 (1)	500	10571.7										
1262 (2)	500	15277.51										
1262 (3)	500	12804.2										
1262 (4)	500	27524.62										
1262 (5)	500	16419.55										
1262 (6)	500	7200.532										
Aroclor 1262	500	~~0~~										
Decachlorobiphenyl (Surr)	200	~~0~~	200	~~0~~								

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8082A

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP
Instrument ID:	DUALECD2R	Calibration:	A0A1501
Lab File ID:	ECD2R013.D		
Sequence:	0A13050	Inject Date:	01/13/20
Lab Sample ID:	0A13050-ICV1	Inject Time:	19:54

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
Aroclor 1016	500	472	-5.6	70 - 130
Aroclor 1260	500	503	0.5	70 - 130
Decachlorobiphenyl (Surr)	200	187	-6.4	70 - 130

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8082A

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP
Instrument ID:	DUALECD2R	Calibration:	A0A1501
Lab File ID:	ECD2R021.D		
Sequence:	0A13050	Inject Date:	01/13/20
Lab Sample ID:	0A13050-ICV2	Inject Time:	22:15

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
Aroclor 1221	1000	923	-7.7	70 - 130
Aroclor 1254	500	509	1.9	70 - 130
Decachlorobiphenyl (Surr)	80.0	84.1	5.2	70 - 130

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8082A

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP
Instrument ID:	DUALECD2R	Calibration:	A0A1501
Lab File ID:	ECD2R022.D		
Sequence:	0A13050	Inject Date:	01/13/20
Lab Sample ID:	0A13050-ICV3	Inject Time:	22:32

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
Aroclor 1232	500	513	2.6	70 - 130
Aroclor 1262	500	453	-9.4	70 - 130
Decachlorobiphenyl (Surr)	80.0	84.4	5.5	70 - 130

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8082A

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP
Instrument ID:	DUALECD2R	Calibration:	A0A1501
Lab File ID:	ECD2R023.D		
Sequence:	0A13050	Inject Date:	01/13/20
Lab Sample ID:	0A13050-ICV4	Inject Time:	22:50

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
Aroclor 1242	500	525	5.1	70 - 130
Aroclor 1268	500	503	0.6	70 - 130

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8082A

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP
Instrument ID:	DUALECD2R	Calibration:	A0A1501
Lab File ID:	ECD2R025.D		
Sequence:	0A13050	Inject Date:	01/14/20
Lab Sample ID:	0A13050-ICV5	Inject Time:	08:02

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
Aroclor 1248	500	591	18.2	70 - 130

CONTINUING CALIBRATION CHECK

EPA 8082A

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Instrument ID:	DUALECD2R	Calibration:	A0A1501
Lab File ID:	ECD2R002.D	Calibration Date:	01/15/20 08:26
Sequence:	0B19023	Injection Date:	02/19/20
Lab Sample ID:	0B19023-CCV1	Injection Time:	07:54

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
Aroclor 1016	Ave	500	486				-2.9	20
Aroclor 1260	Ave	500	545				9.1	20

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

* = Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8082A

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Instrument ID:	DUALECD2R	Calibration:	A0A1501
Lab File ID:	ECD2R022.D	Calibration Date:	01/15/20 08:26
Sequence:	0B19023	Injection Date:	02/19/20
Lab Sample ID:	0B19023-CCV2	Injection Time:	13:50

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
Aroclor 1016	Ave	500	520				4.0	20
Aroclor 1260	Ave	500	600				19.9	20

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

* = Values outside of QC limits

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8082A

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	0A13050	Instrument:	DUALECD2R
Matrix:	Sediment	Calibration:	A0A1501

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Initial Cal Check (0A13050-ICV1)			Lab File ID: ECD2R013.D		Analyzed: 01/13/20 19:54			
Decachlorobiphenyl (Surr)	200	94	70 - 130	10.551	10.55114	-0.0001	+/-1.0	
Initial Cal Check (0A13050-ICV2)			Lab File ID: ECD2R021.D		Analyzed: 01/13/20 22:15			
Decachlorobiphenyl (Surr)	80.0	105	70 - 130	10.548	10.55114	-0.0031	+/-1.0	
Initial Cal Check (0A13050-ICV3)			Lab File ID: ECD2R022.D		Analyzed: 01/13/20 22:32			
Decachlorobiphenyl (Surr)	80.0	105	70 - 130	10.549	10.55114	-0.0021	+/-1.0	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8082A

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	0B19023	Instrument:	DUALECD2R
Matrix:	Sediment	Calibration:	A0A1501

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (0B19023-CCV1)			Lab File ID: ECD2R002.D		Analyzed: 02/19/20 07:54			
Decachlorobiphenyl (Surr)	250	111	80 - 120	10.542	10.55114	-0.0091	+/-1.0	
Calibration Blank (0B19023-CCB1)			Lab File ID: ECD2R003.D		Analyzed: 02/19/20 08:11			
Decachlorobiphenyl (Surr)	100	100	43 - 120	10.541	10.55114	-0.0101	+/-1.0	
Blank (0020497-BLK1)			Lab File ID: ECD2R004.D		Analyzed: 02/19/20 08:31			
Decachlorobiphenyl (Surr)	16.1	94	43 - 120	10.542	10.55114	-0.0091	+/-1.0	
LCS (0020497-BS1)			Lab File ID: ECD2R005.D		Analyzed: 02/19/20 08:49			
Decachlorobiphenyl (Surr)	16.7	103	43 - 120	10.541	10.55114	-0.0101	+/-1.0	
PDI-100SC-J-06-07-190926 (A0B0411-01)			Lab File ID: ECD2R006.D		Analyzed: 02/19/20 09:06			
Decachlorobiphenyl (Surr)	20.1	84	43 - 120	10.54	10.55114	-0.0111	+/-1.0	
Duplicate (0020497-DUP1)			Lab File ID: ECD2R008.D		Analyzed: 02/19/20 09:41			
Decachlorobiphenyl (Surr)	20.2	100	43 - 120	10.54	10.55114	-0.0111	+/-1.0	
PDI-100SC-J-07-08-190926 (A0B0411-02)			Lab File ID: ECD2R010.D		Analyzed: 02/19/20 10:18			
Decachlorobiphenyl (Surr)	20.8	85	43 - 120	10.54	10.55114	-0.0111	+/-1.0	
PDI-100SC-J-08-09-190926 (A0B0411-03)			Lab File ID: ECD2R012.D		Analyzed: 02/19/20 10:54			
Decachlorobiphenyl (Surr)	20.9	84	43 - 120	10.538	10.55114	-0.0131	+/-1.0	
PDI-100SC-J-09-10-190926 (A0B0411-04)			Lab File ID: ECD2R014.D		Analyzed: 02/19/20 11:29			
Decachlorobiphenyl (Surr)	19.6	91	43 - 120	10.539	10.55114	-0.0121	+/-1.0	
PDI-100SC-J-10-11-190926 (A0B0411-05)			Lab File ID: ECD2R016.D		Analyzed: 02/19/20 12:04			
Decachlorobiphenyl (Surr)	19.8	100	43 - 120	10.539	10.55114	-0.0121	+/-1.0	
Matrix Spike (0020497-MS1)			Lab File ID: ECD2R018.D		Analyzed: 02/19/20 12:39			
Decachlorobiphenyl (Surr)	19.9	85	43 - 120	10.537	10.55114	-0.0141	+/-1.0	
Matrix Spike Dup (0020497-MSD1)			Lab File ID: ECD2R020.D		Analyzed: 02/19/20 13:15			
Decachlorobiphenyl (Surr)	19.9	101	43 - 120	10.537	10.55114	-0.0141	+/-1.0	
Calibration Check (0B19023-CCV2)			Lab File ID: ECD2R022.D		Analyzed: 02/19/20 13:50			
Decachlorobiphenyl (Surr)	250	121	80 - 120	10.538	10.55114	-0.0131	+/-1.0	*
Calibration Blank (0B19023-CCB2)			Lab File ID: ECD2R023.D		Analyzed: 02/19/20 14:07			
Decachlorobiphenyl (Surr)	100	114	43 - 120	10.536	10.55114	-0.0151	+/-1.0	

HOLDING TIME SUMMARY

EPA 8082A

Laboratory: Apex Laboratories

SDG: Gasco_PreRD_DG 2019

Client: Anchor QEA, LLC

Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C

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-100SC-J-06-07-190926	09/26/19 11:11	09/27/19 10:25	02/17/20 09:23	143.93	365.00	02/19/20 09:06	1.99	40.00	
PDI-100SC-J-07-08-190926	09/26/19 11:11	09/27/19 10:25	02/17/20 09:23	143.93	365.00	02/19/20 10:18	2.04	40.00	
PDI-100SC-J-08-09-190926	09/26/19 11:11	09/27/19 10:25	02/17/20 09:23	143.93	365.00	02/19/20 10:54	2.06	40.00	
PDI-100SC-J-09-10-190926	09/26/19 11:11	09/27/19 10:25	02/17/20 09:23	143.93	365.00	02/19/20 11:29	2.09	40.00	
PDI-100SC-J-10-11-190926	09/26/19 11:11	09/27/19 10:25	02/17/20 09:23	143.93	365.00	02/19/20 12:04	2.11	40.00	

Apex Laboratories

SDG: Gasco PreRD_DG 2019

CLASS: GC

METHOD: EPA 8081B

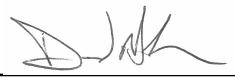
ANALYSES DATA PACKAGE COVER PAGE

EPA 8081B

Laboratory: Apex Laboratories
Client: Anchor QEA, LLC
SDG: Gasco PreRD_DG 2019
Project: Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing C

Client Sample Id:	Lab Sample Id:	Matrix
PDI-100SC-J-06-07-190926	A0B0411-01	Sediment
PDI-100SC-J-07-08-190926	A0B0411-02	Sediment
PDI-100SC-J-08-09-190926	A0B0411-03	Sediment
PDI-100SC-J-09-10-190926	A0B0411-04	Sediment
PDI-100SC-J-10-11-190926	A0B0411-05	Sediment

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 autorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: 
Name: David G. Jack

Forms Created: 3/25/2020 12:37PM
Title: Technical Manager

METHOD DETECTION AND REPORTING LIMITS

EPA 8081B

Laboratory: Apex Laboratories **SDG:** Gasco_PreRD_DG 2019

Client: Anchor QEA, LLC **Project:** Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP

Batch Matrix: Sediment

Analyte	MDL	MRL	Units
2,4'-DDD	0.500	1.00	ug/kg
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	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	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 evalutated to the MDL in this report .

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

PDI-100SC-J-06-07-190926

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment	Laboratory ID:	A0B0411-01RE1	File ID:	ECD8-02182010.D
Sampled:	09/26/19 11:11	Prepared:	02/17/20 06:58	Analyzed:	02/18/20 13:50
Solids:	82.12	Preparation:	EPA 3546/3640A (GPC)	Initial/Final:	10.08 g / 10 mL
Batch:	0020516	Sequence:	0B18034	Calibration:	A0B0404
Instrument:	DUALECD8				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
53-19-0	2,4'-DDD	1	1.21	U
3424-82-6	2,4'-DDE	1	1.21	U
789-02-6	2,4'-DDT	1	1.21	U
72-54-8	4,4'-DDD	1	1.21	U
72-55-9	4,4'-DDE	1	1.21	U
50-29-3	4,4'-DDT	1	1.21	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX (Surr) [2C]	60.4	33.3	55	42 - 129	
Decachlorobiphenyl (Surr) [2C]	60.4	62.4	103	55 - 130	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

PDI-100SC-J-07-08-190926

Laboratory:	Apex Laboratories		SDG:	Gasco_PreRD_DG 2019	
Client:	Anchor QEA, LLC		Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co	
Matrix:	Sediment	Laboratory ID:	A0B0411-02RE1	File ID:	ECD8-02182012.D
Sampled:	09/26/19 11:11	Prepared:	02/17/20 06:58	Analyzed:	02/18/20 14:24
Solids:	80.22	Preparation:	EPA 3546/3640A (GPC)	Initial/Final:	10.08 g / 10 mL
Batch:	0020516	Sequence:	0B18034	Calibration:	A0B0404
Instrument:	DUALECD8				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
53-19-0	2,4'-DDD [2C]	1	1.24	U
3424-82-6	2,4'-DDE [2C]	1	1.24	U
789-02-6	2,4'-DDT [2C]	1	1.24	U
72-54-8	4,4'-DDD [2C]	1	1.24	U
72-55-9	4,4'-DDE [2C]	1	1.24	U
50-29-3	4,4'-DDT [2C]	1	1.24	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX (Surr) [2C]	61.8	31.2	51	42 - 129	
Decachlorobiphenyl (Surr) [2C]	61.8	63.8	103	55 - 130	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

PDI-100SC-J-08-09-190926

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment	Laboratory ID:	A0B0411-03RE1	File ID:	ECD8-02182013.D
Sampled:	09/26/19 11:11	Prepared:	02/17/20 06:58	Analyzed:	02/18/20 14:40
Solids:	78.39	Preparation:	EPA 3546/3640A (GPC)	Initial/Final:	10.03 g / 10 mL
Batch:	0020516	Sequence:	0B18034	Calibration:	A0B0404
Instrument:	DUALECD8				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
53-19-0	2,4'-DDD [2C]	1	1.27	U
3424-82-6	2,4'-DDE [2C]	1	1.27	U
789-02-6	2,4'-DDT [2C]	1	1.27	U
72-54-8	4,4'-DDD [2C]	1	1.27	U
72-55-9	4,4'-DDE [2C]	1	1.27	U
50-29-3	4,4'-DDT [2C]	1	1.27	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX (Surr) [2C]	63.6	42.5	67	42 - 129	
Decachlorobiphenyl (Surr) [2C]	63.6	66.2	104	55 - 130	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

PDI-100SC-J-09-10-190926

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment	Laboratory ID:	A0B0411-04RE1	File ID:	ECD8-02182014.D
Sampled:	09/26/19 11:11	Prepared:	02/17/20 06:58	Analyzed:	02/18/20 14:57
Solids:	84.55	Preparation:	EPA 3546/3640A (GPC)	Initial/Final:	10.09 g / 10 mL
Batch:	0020516	Sequence:	0B18034	Calibration:	A0B0404
Instrument:	DUALECD8				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
53-19-0	2,4'-DDD [2C]	1	1.17	U
3424-82-6	2,4'-DDE [2C]	1	1.17	U
789-02-6	2,4'-DDT [2C]	1	1.17	U
72-54-8	4,4'-DDD [2C]	1	1.17	U
72-55-9	4,4'-DDE [2C]	1	1.17	U
50-29-3	4,4'-DDT [2C]	1	1.17	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX (Surr) [2C]	58.6	33.7	58	42 - 129	
Decachlorobiphenyl (Surr) [2C]	58.6	58.6	100	55 - 130	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

PDI-100SC-J-10-11-190926

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment	Laboratory ID:	A0B0411-05RE1	File ID:	ECD8-02182015.D
Sampled:	09/26/19 11:11	Prepared:	02/17/20 06:58	Analyzed:	02/18/20 15:14
Solids:	83.62	Preparation:	EPA 3546/3640A (GPC)	Initial/Final:	10.17 g / 10 mL
Batch:	0020516	Sequence:	0B18034	Calibration:	A0B0404
Instrument:	DUALECD8				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
53-19-0	2,4'-DDD [2C]	1	1.18	U
3424-82-6	2,4'-DDE [2C]	1	1.18	U
789-02-6	2,4'-DDT [2C]	1	1.18	U
72-54-8	4,4'-DDD [2C]	1	1.18	U
72-55-9	4,4'-DDE [2C]	1	1.18	U
50-29-3	4,4'-DDT [2C]	1	1.18	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX (Surr) [2C]	58.8	31.4	53	42 - 129	
Decachlorobiphenyl (Surr) [2C]	58.8	62.5	106	55 - 130	

* Values outside of QC limits

PREPARATION BATCH SUMMARY

EPA 8081B

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cc
Batch: 0020516
Batch Matrix: Sediment
Preparation: EPA 3546/3640A (GPC)

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	0020516-BLK1	ECD8-02182008.D	02/17/20 06:58	
LCS	0020516-BS1	ECD8-02182009.D	02/17/20 06:58	
PDI-100SC-J-06-07-190926 (Dup)	0020516-DUP1	ECD8-02182011.D	02/17/20 06:58	
PDI-100SC-J-10-11-190926 (MS)	0020516-MS1	ECD8-02182016.D	02/17/20 06:58	
PDI-100SC-J-10-11-190926 (MSD)	0020516-MSD1	ECD8-02182017.D	02/17/20 07:15	
PDI-100SC-J-06-07-190926	A0B0411-01RE1	ECD8-02182010.D	02/17/20 06:58	
PDI-100SC-J-07-08-190926	A0B0411-02RE1	ECD8-02182012.D	02/17/20 06:58	
PDI-100SC-J-08-09-190926	A0B0411-03RE1	ECD8-02182013.D	02/17/20 06:58	
PDI-100SC-J-09-10-190926	A0B0411-04RE1	ECD8-02182014.D	02/17/20 06:58	
PDI-100SC-J-10-11-190926	A0B0411-05RE1	ECD8-02182015.D	02/17/20 06:58	

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 8081B

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Matrix:	Sediment	Laboratory ID:	0020516-BLK1	File ID:	ECD8-02182008.D
Prepared:	02/17/20 06:58	Preparation:	EPA 3546/3640A (GPC)	Initial/Final:	11 g / 10 mL
Analyzed:	02/18/20 13:16	Instrument:	DUALECD8		
Batch:	0020516	Sequence:	0B18034	Calibration:	A0B0404

CAS NO.	COMPOUND	CONC. (ug/kg wet)	Q
53-19-0	2,4'-DDD [2C]	0.909	U
3424-82-6	2,4'-DDE [2C]	0.909	U
789-02-6	2,4'-DDT [2C]	0.909	U
72-54-8	4,4'-DDD [2C]	0.909	U
72-55-9	4,4'-DDE [2C]	0.909	U
50-29-3	4,4'-DDT [2C]	0.909	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg wet)	CONC (ug/kg wet)	% REC	QC LIMITS	Q
2,4,5,6-TCMX (Surr) [2C]	45.5	27.9	61	42 - 129	
Decachlorobiphenyl (Surr) [2C]	45.5	47.8	105	55 - 130	

LCS / LCS DUPLICATE RECOVERY

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment		
Batch:	0020516	Laboratory ID:	0020516-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	47.9	96	75 - 130
2,4'-DDE [2C]	50.0	40.4	81	74 - 131
2,4'-DDT [2C]	50.0	51.0	102	64 - 136
4,4'-DDD [2C]	50.0	52.6	105	56 - 139
4,4'-DDE [2C]	50.0	46.0	92	56 - 134
4,4'-DDT [2C]	50.0	53.3	107	50 - 141

* = Values outside of QC limits

DUPLICATES

EPA 8081B

PDI-100SC-J-06-07-190926

Laboratory: Apex Laboratories
Client: Anchor QEA, LLC
Matrix: Sediment
Batch: 0020516
Preparation: EPA 3546/3640A (GPC)
Source Sample Name: PDI-100SC-J-06-07-190926

SDG: Gasco_PreRD_DG 2019
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP T
Laboratory ID: 0020516-DUP1
Lab Source ID: A0B0411-01RE1
Initial/Final: 10.1 g / 10 mL
% Solids: 82.12

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (ug/kg dry)	C	DUPLICATE CONCENTRATION (ug/kg dry)	C	RPD %	Q	METHOD
2,4'-DDD	30	0.0725		ND				EPA 8081B
2,4'-DDE	30	0.121		ND				EPA 8081B
2,4'-DDT	30	0.0483		ND				EPA 8081B
4,4'-DDD	30	0.0362		ND				EPA 8081B
4,4'-DDE	30	0.0604		ND				EPA 8081B
4,4'-DDT	30	0.0966		ND				EPA 8081B

* Values outside of QC limits

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8081B

PDI-100SC-J-10-11-190926

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cc
Matrix:	Sediment		
Batch:	0020516	Laboratory ID:	0020516-MS1
Preparation:	EPA 3546/3640A (GPC)	Initial/Final:	10.14 g / 10 mL

Source Sample Name: PDI-100SC-J-10-11-190926

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]	59.0	ND	59.3	101	75 - 130
2,4'-DDE [2C]	59.0	ND	51.4	87	74 - 131
2,4'-DDT [2C]	59.0	ND	60.6	103	64 - 136
4,4'-DDD [2C]	59.0	ND	64.7	110	56 - 139
4,4'-DDE [2C]	59.0	ND	57.8	98	56 - 134
4,4'-DDT [2C]	59.0	ND	64.3	109	50 - 141

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8081B

PDI-100SC-J-10-11-190926

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment		
Batch:	0020516	Laboratory ID:	0020516-MSD1
Preparation:	EPA 3546/3640A (GPC)	Initial/Final:	10.14 g / 10 mL

Source Sample Name: PDI-100SC-J-10-11-190926

COMPOUND	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % RECOVERY	% RPD	QC LIMITS RPD	QC LIMITS REC.
2,4'-DDD [2C]	59.0	57.9	98	2	35	75 - 130
2,4'-DDE [2C]	59.0	47.1	80	9	35	74 - 131
2,4'-DDT [2C]	59.0	56.8	96	7	35	64 - 136
4,4'-DDD [2C]	59.0	62.5	106	3	30	56 - 139
4,4'-DDE [2C]	59.0	52.4	89	10	30	56 - 134
4,4'-DDT [2C]	59.0	63.4	108	1	30	50 - 141

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	0B01012	Instrument:	DUALECD8
Matrix:	Sediment	Calibration:	A0B0404

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Blank	0B01012-ICB1	ECD8-02012004.D	02/01/20 15:09
Cal Standard	0B01012-CAL1	ECD8-02012005.D	02/01/20 15:26
Cal Standard	0B01012-CAL2	ECD8-02012006.D	02/01/20 15:43
Cal Standard	0B01012-CAL3	ECD8-02012007.D	02/01/20 16:00
Cal Standard	0B01012-CAL4	ECD8-02012008.D	02/01/20 16:16
Cal Standard	0B01012-CAL5	ECD8-02012009.D	02/01/20 16:33
Cal Standard	0B01012-CAL6	ECD8-02012010.D	02/01/20 16:50
Cal Standard	0B01012-CAL7	ECD8-02012011.D	02/01/20 17:07
Cal Standard	0B01012-CAL8	ECD8-02012012.D	02/01/20 17:24
Cal Standard	0B01012-CAL9	ECD8-02012013.D	02/01/20 17:41
Initial Cal Check	0B01012-ICV1	ECD8-02012015.D	02/01/20 18:14
Cal Standard	0B01012-CALA	ECD8-02012016.D	02/01/20 18:31
Cal Standard	0B01012-CALB	ECD8-02012017.D	02/01/20 18:48
Cal Standard	0B01012-CALC	ECD8-02012018.D	02/01/20 19:05
Cal Standard	0B01012-CALD	ECD8-02012019.D	02/01/20 19:22
Cal Standard	0B01012-CALE	ECD8-02012020.D	02/01/20 19:38
Cal Standard	0B01012-CALF	ECD8-02012021.D	02/01/20 19:55
Cal Standard	0B01012-CALG	ECD8-02012022.D	02/01/20 20:12
Cal Standard	0B01012-CALH	ECD8-02012023.D	02/01/20 20:29
Cal Standard	0B01012-CALI	ECD8-02012024.D	02/01/20 20:46
Initial Cal Check	0B01012-ICV2	ECD8-02012026.D	02/01/20 21:19

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:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	0B18034	Instrument:	DUALECD8
Matrix:	Sediment	Calibration:	A0B0404

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	0B18034-CCV1	ECD8-02182004.D	02/18/20 11:43
Calibration Blank	0B18034-CCB1	ECD8-02182005.D	02/18/20 12:00
Calibration Check	0B18034-CCV2	ECD8-02182006.D	02/18/20 12:42
Calibration Blank	0B18034-CCB2	ECD8-02182007.D	02/18/20 12:59
Blank	0020516-BLK1	ECD8-02182008.D	02/18/20 13:16
LCS	0020516-BS1	ECD8-02182009.D	02/18/20 13:33
PDI-100SC-J-06-07-190926	A0B0411-01RE1	ECD8-02182010.D	02/18/20 13:50
PDI-100SC-J-06-07-190926 (Dup)	0020516-DUP1	ECD8-02182011.D	02/18/20 14:07
PDI-100SC-J-07-08-190926	A0B0411-02RE1	ECD8-02182012.D	02/18/20 14:24
PDI-100SC-J-08-09-190926	A0B0411-03RE1	ECD8-02182013.D	02/18/20 14:40
PDI-100SC-J-09-10-190926	A0B0411-04RE1	ECD8-02182014.D	02/18/20 14:57
PDI-100SC-J-10-11-190926	A0B0411-05RE1	ECD8-02182015.D	02/18/20 15:14
PDI-100SC-J-10-11-190926 (MS)	0020516-MS1	ECD8-02182016.D	02/18/20 15:31
PDI-100SC-J-10-11-190926 (MSD)	0020516-MSD1	ECD8-02182017.D	02/18/20 15:48
Calibration Check	0B18034-CCV3	ECD8-02182018.D	02/18/20 16:05
Calibration Check	0B18034-CCV4	ECD8-02182019.D	02/18/20 16:22
Calibration Blank	0B18034-CCB3	ECD8-02182020.D	02/18/20 16:38

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: Gasco_PreRD_DG 2019

Client: Anchor QEA, LLC Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing

Calibration: A0B0404 Date: 02/04/20 14:02 Instrument: DUALECD8

Compound	Mean RF	FIT	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
2,4'-DDD	1936798	Ave	7.793011	7.612556	1.911156E-02			20	
2,4'-DDD [2C]	1914280	Ave	9.533784	8.484778	7.879728E-03			20	
2,4'-DDE	2312095	Ave	5.8541	7.240444	1.864919E-02			20	
2,4'-DDE [2C]	2273013	Ave	8.648352	8.111111	1.433024E-02			20	
2,4'-DDT	2393139	Ave	8.040802	7.794556	2.031292E-02			20	
2,4'-DDT [2C]	2350817	XXX	11.3194	8.708444	7.111101E-03				
4,4'-DDD	2544986	Ave	9.794206	7.911667	2.608805E-02			20	
4,4'-DDD [2C]	2565700	XXX	19.03125	8.749222	5.867093E-03				
4,4'-DDE	3320795	Ave	7.444198	7.490778	2.130729E-02			20	
4,4'-DDE [2C]	3268173	XXX	17.28967	8.332	1.888748E-02				
4,4'-DDT	2688249	Ave	8.894958	8.108667	5.399958E-03			20	
4,4'-DDT [2C]	2752406	XXX	16.31791	8.975	2.109187E-02				
2,4,5,6-TCMX (Surr) [2C]	3449555	Ave	9.65486	5.981444	9.424963E-03			20	
Decachlorobiphenyl (Surr) [2C]	2554005	XXX	26.09001	10.53678	1.681729E-02				

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

Client: Anchor QEA, LLC

Calibration: A0B0404

SDG: Gasco_PreRD_DG 2019

Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Te

Instrument: DUALECD8

Calibration Date: 02/04/20 14:02

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	0.5	2437342	1	2373048	2	2341753	5	2347446	10	2425920	25	2535112
4,4'-DDD [2C]	0.5	2238768	1	2115078	2	2175356	5	2250804	10	2275793	25	2607089
4,4'-DDE	0.5	3257902	1	2976091	2	3182040	5	3180490	10	3207276	25	3307186
4,4'-DDE [2C]	0.5	2692474	1	2684993	2	2835342	5	2971914	10	3019524	25	3470566
4,4'-DDT	0.5	2703514	1	2497592	2	2453519	5	2526530	10	2469228	25	2723898
4,4'-DDT [2C]	0.5	2721010	1	2317293	2	2367626	5	2327010	10	2513261	25	2821331
2,4,5,6-TCMX (Surr)	0.5	4020774	1	3713760	2	3604656	5	3216240	10	3303150	25	3433192
2,4,5,6-TCMX (Surr) [2C]	0.5	3614914	1	3325610	2	3232462	5	3006254	10	3188100	25	3405973
Decachlorobiphenyl (Surr)	0.5	4275962	1	3342363	2	3075353	5	2710042	10	2660587	25	2658106
Decachlorobiphenyl (Surr) [2C]	0.5	4242420	1	2619998	2	2685755	5	2248528	10	2164163	25	2160717

INITIAL CALIBRATION DATA (Continued)

EPA 8081B

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Te
Calibration: A0B0404
Instrument: DUALECD8
Matrix:
Calibration Date: 02/04/20 14:02

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							0.5	2223074	1	1934222	2	1919460
2,4'-DDD [2C]							0.5	1921738	1	1795089	2	1840073
2,4'-DDE							0.5	2580138	1	2295081	2	2244460
2,4'-DDE [2C]							0.5	2400146	1	2104301	2	2130403
2,4'-DDT							0.5	2837448	1	2374152	2	2363674
2,4'-DDT [2C]							0.5	2420264	1	2100185	2	2093643
4,4'-DDD	50	2506136	100	2976550	200	2961570						
4,4'-DDD [2C]	50	2729506	100	3300586	200	3398319						
4,4'-DDE	50	3360032	100	3787441	200	3628698						
4,4'-DDE [2C]	50	3503806	100	4059366	200	4175570						
4,4'-DDT	50	2695986	100	2988081	200	3135895						
4,4'-DDT [2C]	50	2768264	100	3403450	200	3532407						
2,4,5,6-TCMX (Surr)	50	3203934	100	3554214	200	3415118						
2,4,5,6-TCMX (Surr) [2C]	50	3365706	100	3864483	200	4042490						
Decachlorobiphenyl (Surr)	50	2467448	100	2800902	200	2771847						
Decachlorobiphenyl (Surr) [2C]	50	2075954	100	2400362	200	2388149						

INITIAL CALIBRATION DATA (Continued)

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Te
Calibration:	A0B0404	Instrument:	DUALECD8
Matrix:		Calibration Date:	02/04/20 14:02

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	5	1976528	10	1853462	25	1688137	50	1862671	100	1888996	200	2084630
2,4'-DDD [2C]	5	1859711	10	1806277	25	1718481	50	1984945	100	1955472	200	2346739
2,4'-DDE	5	2348746	10	2280436	25	2088095	50	2327188	100	2230456	200	2414256
2,4'-DDE [2C]	5	2181282	10	2195810	25	2044534	50	2342820	100	2384413	200	2673412
2,4'-DDT	5	2374578	10	2292821	25	2144315	50	2342232	100	2298646	200	2510382
2,4'-DDT [2C]	5	2271608	10	2213786	25	2148938	50	2455132	100	2535689	200	2918111

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP
Instrument ID:	DUALECD8	Calibration:	A0B0404
Lab File ID:	ECD8-02012015.D		
Sequence:	0B01012	Inject Date:	02/01/20
Lab Sample ID:	0B01012-ICV1	Inject Time:	18:14

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
4,4'-DDD	50.0	50.9	1.8	70 - 130
4,4'-DDD [2C]	50.0	49.5	-1.0	70 - 130
4,4'-DDE	50.0	49.7	-0.6	70 - 130
4,4'-DDE [2C]	50.0	48.3	-3.3	70 - 130
4,4'-DDT	50.0	50.5	1.1	70 - 130
4,4'-DDT [2C]	50.0	52.9	5.7	70 - 130
2,4,5,6-TCMX (Surr)	50.0	46.2	-7.6	70 - 130
2,4,5,6-TCMX (Surr) [2C]	50.0	49.3	-1.3	70 - 130
Decachlorobiphenyl (Surr)	50.0	46.1	-7.7	70 - 130
Decachlorobiphenyl (Surr) [2C]	50.0	48.3	-3.4	70 - 130

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP
Instrument ID:	DUALECD8	Calibration:	A0B0404
Lab File ID:	ECD8-02012026.D		
Sequence:	0B01012	Inject Date:	02/01/20
Lab Sample ID:	0B01012-ICV2	Inject Time:	21:19

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
2,4'-DDD	50.0	50.0	-0.06	70 - 130
2,4'-DDD [2C]	50.0	54.0	8.0	70 - 130
2,4'-DDE	50.0	50.9	1.7	70 - 130
2,4'-DDE [2C]	50.0	53.2	6.3	70 - 130
2,4'-DDT	50.0	49.9	-0.2	70 - 130
2,4'-DDT [2C]	50.0	52.2	4.3	70 - 130

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Instrument ID:	DUALECD8	Calibration:	A0B0404
Lab File ID:	ECD8-02182004.D	Calibration Date:	02/04/20 14:02
Sequence:	0B18034	Injection Date:	02/18/20
Lab Sample ID:	0B18034-CCV1	Injection Time:	11:43

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
4,4'-DDD [2C]	XXX	50.0	46.8	-6.4				20
4,4'-DDE [2C]	XXX	50.0	46.0	-8.0				20
4,4'-DDT [2C]	XXX	50.0	48.1	-3.8				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:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Instrument ID:	DUALECD8	Calibration:	A0B0404
Lab File ID:	ECD8-02182006.D	Calibration Date:	02/04/20 14:02
Sequence:	0B18034	Injection Date:	02/18/20
Lab Sample ID:	0B18034-CCV2	Injection Time:	12:42

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
2,4'-DDD [2C]	Ave	50.0	48.7		1914280	1863120	-2.7	20
2,4'-DDE [2C]	Ave	50.0	48.9		2273013	2223198	-2.2	20
2,4'-DDT [2C]	XXX	50.0	47.4	-5.1				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:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Instrument ID:	DUALECD8	Calibration:	A0B0404
Lab File ID:	ECD8-02182018.D	Calibration Date:	02/04/20 14:02
Sequence:	0B18034	Injection Date:	02/18/20
Lab Sample ID:	0B18034-CCV3	Injection Time:	16:05

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
4,4'-DDD [2C]	XXX	100	94.6	-5.4				20
4,4'-DDE [2C]	XXX	100	89.7	-10.3				20
4,4'-DDT [2C]	XXX	100	99.3	-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:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Instrument ID:	DUALECD8	Calibration:	A0B0404
Lab File ID:	ECD8-02182019.D	Calibration Date:	02/04/20 14:02
Sequence:	0B18034	Injection Date:	02/18/20
Lab Sample ID:	0B18034-CCV4	Injection Time:	16:22

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
2,4'-DDD [2C]	Ave	100	102		1914280	1956731	2.2	20
2,4'-DDE [2C]	Ave	100	102		2273013	2320227	2.1	20
2,4'-DDT [2C]	XXX	100	102	2.0				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:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	0B01012	Instrument:	DUALECD8
Matrix:	Sediment	Calibration:	A0B0404

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Initial Cal Check (0B01012-ICV1)				Lab File ID: ECD8-02012015.D		Analyzed: 02/01/20 18:14		
2,4,5,6-TCMX (Surr)	50.0	92	70 - 130	5.297	5.297333	-0.0003	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	50.0	99	70 - 130	5.981	5.981444	-0.0004	+/-1.0	
Decachlorobiphenyl (Surr)	50.0	92	70 - 130	9.507	9.506889	0.0001	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	50.0	97	70 - 130	10.537	10.53678	0.0002	+/-1.0	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	0B18034	Instrument:	DUALECD8
Matrix:	Sediment	Calibration:	A0B0404

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (0B18034-CCV1)			Lab File ID: ECD8-02182004.D		Analyzed: 02/18/20 11:43			
2,4,5,6-TCMX (Surr) [2C]	50.0	90	80 - 120	5.888	5.981444	-0.0934	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	50.0	98	80 - 120	10.423	10.53678	-0.1138	+/-1.0	
Calibration Blank (0B18034-CCB1)			Lab File ID: ECD8-02182005.D		Analyzed: 02/18/20 12:00			
2,4,5,6-TCMX (Surr) [2C]	100	93	42 - 129	5.889	5.981444	-0.0924	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	96	55 - 130	10.425	10.53678	-0.1118	+/-1.0	
Calibration Blank (0B18034-CCB2)			Lab File ID: ECD8-02182007.D		Analyzed: 02/18/20 12:59			
2,4,5,6-TCMX (Surr) [2C]	100	90	42 - 129	5.887	5.981444	-0.0944	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	95	55 - 130	10.425	10.53678	-0.1118	+/-1.0	
Blank (0020516-BLK1)			Lab File ID: ECD8-02182008.D		Analyzed: 02/18/20 13:16			
2,4,5,6-TCMX (Surr) [2C]	45.5	61	42 - 129	5.887	5.981444	-0.0944	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	45.5	105	55 - 130	10.422	10.53678	-0.1148	+/-1.0	
LCS (0020516-BS1)			Lab File ID: ECD8-02182009.D		Analyzed: 02/18/20 13:33			
2,4,5,6-TCMX (Surr) [2C]	50.0	62	42 - 129	5.888	5.981444	-0.0934	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	50.0	108	55 - 130	10.423	10.53678	-0.1138	+/-1.0	
PDI-100SC-J-06-07-190926 (A0B0411-01RE1)			Lab File ID: ECD8-02182010.D		Analyzed: 02/18/20 13:50			
2,4,5,6-TCMX (Surr) [2C]	60.4	55	42 - 129	5.887	5.981444	-0.0944	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	60.4	103	55 - 130	10.423	10.53678	-0.1138	+/-1.0	
Duplicate (0020516-DUP1)			Lab File ID: ECD8-02182011.D		Analyzed: 02/18/20 14:07			
2,4,5,6-TCMX (Surr) [2C]	60.3	61	42 - 129	5.887	5.981444	-0.0944	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	60.3	107	55 - 130	10.421	10.53678	-0.1158	+/-1.0	
PDI-100SC-J-07-08-190926 (A0B0411-02RE1)			Lab File ID: ECD8-02182012.D		Analyzed: 02/18/20 14:24			
2,4,5,6-TCMX (Surr) [2C]	61.8	51	42 - 129	5.887	5.981444	-0.0944	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	61.8	103	55 - 130	10.423	10.53678	-0.1138	+/-1.0	
PDI-100SC-J-08-09-190926 (A0B0411-03RE1)			Lab File ID: ECD8-02182013.D		Analyzed: 02/18/20 14:40			
2,4,5,6-TCMX (Surr) [2C]	63.6	67	42 - 129	5.886	5.981444	-0.0954	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	63.6	104	55 - 130	10.421	10.53678	-0.1158	+/-1.0	
PDI-100SC-J-09-10-190926 (A0B0411-04RE1)			Lab File ID: ECD8-02182014.D		Analyzed: 02/18/20 14:57			
2,4,5,6-TCMX (Surr) [2C]	58.6	58	42 - 129	5.887	5.981444	-0.0944	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	58.6	100	55 - 130	10.421	10.53678	-0.1158	+/-1.0	
PDI-100SC-J-10-11-190926 (A0B0411-05RE1)			Lab File ID: ECD8-02182015.D		Analyzed: 02/18/20 15:14			
2,4,5,6-TCMX (Surr) [2C]	58.8	53	42 - 129	5.887	5.981444	-0.0944	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	58.8	106	55 - 130	10.421	10.53678	-0.1158	+/-1.0	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Sequence:	0B18034	Instrument:	DUALECD8
Matrix:	Sediment	Calibration:	A0B0404

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Matrix Spike (0020516-MS1)			Lab File ID: ECD8-02182016.D		Analyzed: 02/18/20 15:31			
2,4,5,6-TCMX (Surr) [2C]	59.0	69	42 - 129	5.887	5.981444	-0.0944	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	59.0	104	55 - 130	10.421	10.53678	-0.1158	+/-1.0	
Matrix Spike Dup (0020516-MSD1)			Lab File ID: ECD8-02182017.D		Analyzed: 02/18/20 15:48			
2,4,5,6-TCMX (Surr) [2C]	59.0	56	42 - 129	5.887	5.981444	-0.0944	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	59.0	105	55 - 130	10.42	10.53678	-0.1168	+/-1.0	
Calibration Check (0B18034-CCV3)			Lab File ID: ECD8-02182018.D		Analyzed: 02/18/20 16:05			
2,4,5,6-TCMX (Surr) [2C]	100	97	80 - 120	5.887	5.981444	-0.0944	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	102	80 - 120	10.422	10.53678	-0.1148	+/-1.0	
Calibration Blank (0B18034-CCB3)			Lab File ID: ECD8-02182020.D		Analyzed: 02/18/20 16:38			
2,4,5,6-TCMX (Surr) [2C]	100	93	42 - 129	5.888	5.981444	-0.0934	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	100	55 - 130	10.425	10.53678	-0.1118	+/-1.0	

HOLDING TIME SUMMARY

EPA 8081B

Laboratory: Apex Laboratories

SDG: Gasco_PreRD_DG 2019

Client: Anchor QEA, LLC

Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C

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-100SC-J-06-07-190926	09/26/19 11:11	09/27/19 10:25	02/17/20 06:58	143.82	14.00	02/18/20 13:50	1.29	40.00	*
PDI-100SC-J-07-08-190926	09/26/19 11:11	09/27/19 10:25	02/17/20 06:58	143.82	14.00	02/18/20 14:24	1.31	40.00	*
PDI-100SC-J-08-09-190926	09/26/19 11:11	09/27/19 10:25	02/17/20 06:58	143.82	14.00	02/18/20 14:40	1.32	40.00	*
PDI-100SC-J-09-10-190926	09/26/19 11:11	09/27/19 10:25	02/17/20 06:58	143.82	14.00	02/18/20 14:57	1.33	40.00	*
PDI-100SC-J-10-11-190926	09/26/19 11:11	09/27/19 10:25	02/17/20 06:58	143.82	14.00	02/18/20 15:14	1.34	40.00	*

Apex Laboratories

SDG: Gasco PreRD_DG 2019

CLASS: GCMS

METHOD: EPA 8270D

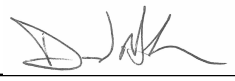
ANALYSES DATA PACKAGE COVER PAGE

EPA 8270D

Laboratory: Apex Laboratories
SDG: Gasco PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing C

Client Sample Id:	Lab Sample Id:	Matrix
PDI-100SC-J-06-07-190926	A0B0411-01	Sediment
PDI-100SC-J-07-08-190926	A0B0411-02	Sediment
PDI-100SC-J-08-09-190926	A0B0411-03	Sediment
PDI-100SC-J-09-10-190926	A0B0411-04	Sediment
PDI-100SC-J-10-11-190926	A0B0411-05	Sediment

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 autorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: 
Name: David G. Jack

Forms Created: 3/25/2020 12:37PM
Title: Technical Manager

METHOD DETECTION AND REPORTING LIMITS

EPA 8270D

Laboratory: Apex Laboratories **SDG:** Gasco_PreRD_DG 2019

Client: Anchor QEA, LLC **Project:** Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP

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 evalutated to the MDL in this report .

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

PDI-100SC-J-06-07-190926

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment	Laboratory ID:	A0B0411-01	File ID:	N02172016.D
Sampled:	09/26/19 11:11	Prepared:	02/17/20 06:59	Analyzed:	02/17/20 17:05
Solids:	82.12	Preparation:	EPA 3546	Initial/Final:	10.13 g / 5 mL
Batch:	0020481	Sequence:	0B17042	Calibration:	A9I1001
Instrument:	SV-GCMS14				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
83-32-9	Acenaphthene	1	39.4	
208-96-8	Acenaphthylene	1	3.82	
120-12-7	Anthracene	1	4.92	
56-55-3	Benz(a)anthracene	1	13.5	
50-32-8	Benzo(a)pyrene	1	16.9	
205-99-2	Benzo(b)fluoranthene	1	15.1	
207-08-9	Benzo(k)fluoranthene	1	4.82	
191-24-2	Benzo(g,h,i)perylene	1	12.9	
218-01-9	Chrysene	1	21.3	
53-70-3	Dibenz(a,h)anthracene	1	1.50	U
206-44-0	Fluoranthene	1	53.8	
86-73-7	Fluorene	1	21.2	
193-39-5	Indeno(1,2,3-cd)pyrene	1	11.2	
91-57-6	2-Methylnaphthalene	1	1.66	J
91-20-3	Naphthalene	1	5.89	
85-01-8	Phenanthrene	1	6.61	
129-00-0	Pyrene	1	80.5	

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl (Surr)	60.1	48.5	81	44 - 115	
p-Terphenyl-d14 (Surr)	60.1	48.7	81	54 - 127	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8 (ISTD)	200676	7.755	157728	7.761	
Acenaphthene-d10 (ISTD)	139395	9.509	115040	9.515	
Phenanthrene-d10 (ISTD)	265530	11.013	204788	11.019	
Chrysene-d12 (ISTD)	235527	14.668	147607	14.674	
Perylene-d12 (ISTD)	221783	18.13	131732	18.136	
Dibenz(a,h)anthracene-d14 (ISTD)	181307	20.514	98887	20.52	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

PDI-100SC-J-07-08-190926

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment	Laboratory ID:	A0B0411-02	File ID:	N02172011.D
Sampled:	09/26/19 11:11	Prepared:	02/17/20 06:59	Analyzed:	02/17/20 14:24
Solids:	80.22	Preparation:	EPA 3546	Initial/Final:	10.24 g / 5 mL
Batch:	0020481	Sequence:	0B17042	Calibration:	A9I1001
Instrument:	SV-GCMS14				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
83-32-9	Acenaphthene	1	26.1	
208-96-8	Acenaphthylene	1	1.52	U
120-12-7	Anthracene	1	1.52	U
56-55-3	Benz(a)anthracene	1	1.91	J
50-32-8	Benzo(a)pyrene	1	2.62	J
205-99-2	Benzo(b)fluoranthene	1	2.41	J
207-08-9	Benzo(k)fluoranthene	1	1.52	U
191-24-2	Benzo(g,h,i)perylene	1	2.21	J
218-01-9	Chrysene	1	3.05	
53-70-3	Dibenz(a,h)anthracene	1	1.52	U
206-44-0	Fluoranthene	1	7.11	
86-73-7	Fluorene	1	9.95	
193-39-5	Indeno(1,2,3-cd)pyrene	1	2.06	J
91-57-6	2-Methylnaphthalene	1	1.52	U
91-20-3	Naphthalene	1	2.00	J
85-01-8	Phenanthrene	1	3.56	
129-00-0	Pyrene	1	8.97	

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl (Surr)	60.9	44.7	73	44 - 115	
p-Terphenyl-d14 (Surr)	60.9	48.3	79	54 - 127	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8 (ISTD)	195846	7.749	157728	7.761	
Acenaphthene-d10 (ISTD)	132526	9.504	115040	9.515	
Phenanthrene-d10 (ISTD)	248403	11.013	204788	11.019	
Chrysene-d12 (ISTD)	214699	14.662	147607	14.674	
Perylene-d12 (ISTD)	204510	18.124	131732	18.136	
Dibenz(a,h)anthracene-d14 (ISTD)	167375	20.508	98887	20.52	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

PDI-100SC-J-08-09-190926

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment	Laboratory ID:	A0B0411-03	File ID:	N02172017.D
Sampled:	09/26/19 11:11	Prepared:	02/17/20 06:59	Analyzed:	02/17/20 17:37
Solids:	78.39	Preparation:	EPA 3546	Initial/Final:	10.11 g / 5 mL
Batch:	0020481	Sequence:	0B17042	Calibration:	A9I1001
Instrument:	SV-GCMS14				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
83-32-9	Acenaphthene	1	117	
208-96-8	Acenaphthylene	1	3.43	
120-12-7	Anthracene	1	1.58	U
56-55-3	Benz(a)anthracene	1	1.93	J
50-32-8	Benzo(a)pyrene	1	2.64	J
205-99-2	Benzo(b)fluoranthene	1	2.45	J
207-08-9	Benzo(k)fluoranthene	1	1.58	U
191-24-2	Benzo(g,h,i)perylene	1	2.07	J
218-01-9	Chrysene	1	2.33	J
53-70-3	Dibenz(a,h)anthracene	1	1.58	U
206-44-0	Fluoranthene	1	6.62	
86-73-7	Fluorene	1	26.3	
193-39-5	Indeno(1,2,3-cd)pyrene	1	1.82	J
91-57-6	2-Methylnaphthalene	1	23.7	
85-01-8	Phenanthrene	1	4.09	
129-00-0	Pyrene	1	7.35	

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl (Surr)	63.1	47.3	75	44 - 115	
p-Terphenyl-d14 (Surr)	63.1	46.7	74	54 - 127	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8 (ISTD)	178494	7.755	157728	7.761	
Acenaphthene-d10 (ISTD)	137763	9.504	115040	9.515	
Phenanthrene-d10 (ISTD)	255828	11.013	204788	11.019	
Chrysene-d12 (ISTD)	224875	14.668	147607	14.674	
Perylene-d12 (ISTD)	211097	18.124	131732	18.136	
Dibenz(a,h)anthracene-d14 (ISTD)	169881	20.514	98887	20.52	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

PDI-100SC-J-08-09-190926

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment	Laboratory ID:	A0B0411-03RE1	File ID:	N02172019.D
Sampled:	09/26/19 11:11	Prepared:	02/17/20 06:59	Analyzed:	02/17/20 19:17
Solids:	78.39	Preparation:	EPA 3546	Initial/Final:	10.11 g / 5 mL
Batch:	0020481	Sequence:	0B17042	Calibration:	A9I1001
Instrument:	SV-GCMS14				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
91-20-3	Naphthalene	50	756	D

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl (Surr)	63.1	50.1	79	44 - 115	D
p-Terphenyl-d14 (Surr)	63.1	46.1	73	54 - 127	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8 (ISTD)	180288	7.749	157728	7.761	
Acenaphthene-d10 (ISTD)	126434	9.503	115040	9.515	
Phenanthrene-d10 (ISTD)	232891	11.013	204788	11.019	
Chrysene-d12 (ISTD)	179712	14.668	147607	14.674	
Perylene-d12 (ISTD)	168111	18.124	131732	18.136	
Dibenz(a,h)anthracene-d14 (ISTD)	127322	20.514	98887	20.52	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

PDI-100SC-J-09-10-190926

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment	Laboratory ID:	A0B0411-04	File ID:	N02172013.D
Sampled:	09/26/19 11:11	Prepared:	02/17/20 06:59	Analyzed:	02/17/20 15:28
Solids:	84.55	Preparation:	EPA 3546	Initial/Final:	10.05 g / 5 mL
Batch:	0020481	Sequence:	0B17042	Calibration:	A9I1001
Instrument:	SV-GCMS14				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
83-32-9	Acenaphthene	1	1.47	U
208-96-8	Acenaphthylene	1	1.47	U
120-12-7	Anthracene	1	1.47	U
56-55-3	Benz(a)anthracene	1	1.47	U
50-32-8	Benzo(a)pyrene	1	1.47	U
205-99-2	Benzo(b)fluoranthene	1	1.47	U
207-08-9	Benzo(k)fluoranthene	1	1.47	U
191-24-2	Benzo(g,h,i)perylene	1	1.47	U
218-01-9	Chrysene	1	1.47	U
53-70-3	Dibenz(a,h)anthracene	1	1.47	U
206-44-0	Fluoranthene	1	2.10	J
86-73-7	Fluorene	1	1.47	U
193-39-5	Indeno(1,2,3-cd)pyrene	1	1.47	U
91-57-6	2-Methylnaphthalene	1	1.47	U
91-20-3	Naphthalene	1	1.47	U
85-01-8	Phenanthrene	1	1.47	U
129-00-0	Pyrene	1	2.34	J

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl (Surr)	58.8	45.3	77	44 - 115	
p-Terphenyl-d14 (Surr)	58.8	45.8	78	54 - 127	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8 (ISTD)	201930	7.755	157728	7.761	
Acenaphthene-d10 (ISTD)	134742	9.509	115040	9.515	
Phenanthrene-d10 (ISTD)	246812	11.013	204788	11.019	
Chrysene-d12 (ISTD)	204945	14.668	147607	14.674	
Perylene-d12 (ISTD)	191183	18.13	131732	18.136	
Dibenz(a,h)anthracene-d14 (ISTD)	155085	20.514	98887	20.52	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

PDI-100SC-J-10-11-190926

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment	Laboratory ID:	A0B0411-05	File ID:	N02172018.D
Sampled:	09/26/19 11:11	Prepared:	02/17/20 06:59	Analyzed:	02/17/20 18:09
Solids:	83.62	Preparation:	EPA 3546	Initial/Final:	10.16 g / 5 mL
Batch:	0020481	Sequence:	0B17042	Calibration:	A9I1001
Instrument:	SV-GCMS14				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
83-32-9	Acenaphthene	1	1.67	J
208-96-8	Acenaphthylene	1	1.47	U
120-12-7	Anthracene	1	1.47	U
56-55-3	Benz(a)anthracene	1	1.67	J
50-32-8	Benzo(a)pyrene	1	1.75	J
205-99-2	Benzo(b)fluoranthene	1	1.96	J
207-08-9	Benzo(k)fluoranthene	1	1.47	U
191-24-2	Benzo(g,h,i)perylene	1	1.66	J
218-01-9	Chrysene	1	2.20	J
53-70-3	Dibenz(a,h)anthracene	1	1.47	U
206-44-0	Fluoranthene	1	5.37	
86-73-7	Fluorene	1	1.47	U
193-39-5	Indeno(1,2,3-cd)pyrene	1	1.50	J
91-57-6	2-Methylnaphthalene	1	1.47	U
91-20-3	Naphthalene	1	1.76	J
85-01-8	Phenanthrene	1	3.36	
129-00-0	Pyrene	1	6.51	

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl (Surr)	58.9	41.0	70	44 - 115	
p-Terphenyl-d14 (Surr)	58.9	48.4	82	54 - 127	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8 (ISTD)	191404	7.755	157728	7.761	
Acenaphthene-d10 (ISTD)	133153	9.503	115040	9.515	
Phenanthrene-d10 (ISTD)	240815	11.013	204788	11.019	
Chrysene-d12 (ISTD)	200651	14.662	147607	14.674	
Perylene-d12 (ISTD)	188754	18.124	131732	18.136	
Dibenz(a,h)anthracene-d14 (ISTD)	148322	20.508	98887	20.52	

* Values outside of QC limits

PREPARATION BATCH SUMMARY

EPA 8270D

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Batch: 0020481 Batch Matrix: Sediment Preparation: EPA 3546

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	0020481-BLK1	N02172009.D	02/17/20 06:59	
LCS	0020481-BS1	N02172010.D	02/17/20 06:59	
PDI-100SC-J-07-08-190926 (Dup)	0020481-DUP1	N02172012.D	02/17/20 06:59	
PDI-100SC-J-09-10-190926 (MS)	0020481-MS1	N02172014.D	02/17/20 06:59	
PDI-100SC-J-09-10-190926 (MSD)	0020481-MSD1	N02172015.D	02/17/20 07:14	
PDI-100SC-J-06-07-190926	A0B0411-01	N02172016.D	02/17/20 06:59	
PDI-100SC-J-07-08-190926	A0B0411-02	N02172011.D	02/17/20 06:59	
PDI-100SC-J-08-09-190926	A0B0411-03	N02172017.D	02/17/20 06:59	
PDI-100SC-J-08-09-190926	A0B0411-03RE1	N02172019.D	02/17/20 06:59	
PDI-100SC-J-09-10-190926	A0B0411-04	N02172013.D	02/17/20 06:59	
PDI-100SC-J-10-11-190926	A0B0411-05	N02172018.D	02/17/20 06:59	

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:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Matrix:	Sediment	Laboratory ID:	0020481-BLK1	File ID:	N02172009.D
Prepared:	02/17/20 06:59	Preparation:	EPA 3546	Initial/Final:	11 g / 5 mL
Analyzed:	02/17/20 13:19	Instrument:	SV-GCMS14		
Batch:	0020481	Sequence:	0B17042	Calibration:	A9I1001

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	1.14	U
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	35.8	79	44 - 115	
p-Terphenyl-d14 (Surr)	45.5	40.7	90	54 - 127	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8 (ISTD)	172846	7.755	157728	7.761	
Acenaphthene-d10 (ISTD)	117775	9.509	115040	9.515	
Phenanthrene-d10 (ISTD)	195193	11.013	204788	11.019	
Chrysene-d12 (ISTD)	137032	14.668	147607	14.674	
Perylene-d12 (ISTD)	119541	18.124	131732	18.136	
Dibenz(a,h)anthracene-d14 (ISTD)	92428	20.514	98887	20.52	

LCS / LCS DUPLICATE RECOVERY

EPA 8270D

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment		
Batch:	0020481	Laboratory ID:	0020481-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	16.5	82	40 - 122
Acenaphthylene	20.0	15.5	77	32 - 132
Anthracene	20.0	15.3	77	47 - 123
Benz(a)anthracene	20.0	14.9	74	49 - 126
Benzo(a)pyrene	20.0	14.9	74	45 - 129
Benzo(b)fluoranthene	20.0	15.6	78	45 - 132
Benzo(k)fluoranthene	20.0	15.7	78	47 - 132
Benzo(g,h,i)perylene	20.0	15.2	76	43 - 134
Chrysene	20.0	16.5	83	50 - 124
Dibenz(a,h)anthracene	20.0	15.4	77	45 - 134
Fluoranthene	20.0	16.5	83	50 - 127
Fluorene	20.0	15.6	78	43 - 125
Indeno(1,2,3-cd)pyrene	20.0	15.1	75	45 - 133
2-Methylnaphthalene	20.0	15.1	76	38 - 122
Naphthalene	20.0	16.9	84	35 - 123
Phenanthrene	20.0	16.2	81	50 - 121
Pyrene	20.0	16.8	84	47 - 127

* = Values outside of QC limits

DUPLICATES

EPA 8270D

PDI-100SC-J-07-08-190926

Laboratory: Apex Laboratories
Client: Anchor QEA, LLC
Matrix: Sediment
Batch: 0020481
Preparation: EPA 3546
Source Sample Name: PDI-100SC-J-07-08-190926

SDG: Gasco_PreRD_DG 2019
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP
Laboratory ID: 0020481-DUP1
Lab Source ID: A0B0411-02
Initial/Final: 10.29 g / 5 mL
% Solids: 80.22

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (ug/kg dry)	C	DUPLICATE CONCENTRATION (ug/kg dry)	C	RPD %	Q	METHOD
Acenaphthene	30	26.1		27.5		5		EPA 8270D
Acenaphthylene	30	1.37		1.54		200	*	EPA 8270D
Anthracene	30	1.06		ND				EPA 8270D
Benz(a)anthracene	30	1.91		2.15		12		EPA 8270D
Benzo(a)pyrene	30	2.62		2.87		9		EPA 8270D
Benzo(b)fluoranthene	30	2.41		2.69		11		EPA 8270D
Benzo(k)fluoranthene	30	0.968		ND				EPA 8270D
Benzo(g,h,i)perylene	30	2.21		2.38		7		EPA 8270D
Chrysene	30	3.05		3.31		8		EPA 8270D
Dibenz(a,h)anthracene	30	0.00		ND				EPA 8270D
Fluoranthene	30	7.11		7.26		2		EPA 8270D
Fluorene	30	9.95		9.83		1		EPA 8270D
Indeno(1,2,3-cd)pyrene	30	2.06		2.24		8		EPA 8270D
2-Methylnaphthalene	30	0.695		ND				EPA 8270D
Naphthalene	30	2.00		2.20		10		EPA 8270D
Phenanthrene	30	3.56		2.97		18		EPA 8270D
Pyrene	30	8.97		9.96		10		EPA 8270D

* Values outside of QC limits

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8270D

PDI-100SC-J-09-10-190926

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cc
Matrix:	Sediment		
Batch:	0020481	Laboratory ID:	0020481-MS1
Preparation:	EPA 3546	Initial/Final:	10.01 g / 5 mL

Source Sample Name: PDI-100SC-J-09-10-190926

COMPOUND	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC. (*=Out)	QC LIMITS REC.
Acenaphthene	23.6	ND	16.2	69	40 - 122
Acenaphthylene	23.6	ND	14.6	62	32 - 132
Anthracene	23.6	ND	15.9	67	47 - 123
Benz(a)anthracene	23.6	ND	18.4	78	49 - 126
Benzo(a)pyrene	23.6	ND	19.0	80	45 - 129
Benzo(b)fluoranthene	23.6	ND	19.2	81	45 - 132
Benzo(k)fluoranthene	23.6	ND	18.1	77	47 - 132
Benzo(g,h,i)perylene	23.6	ND	18.5	78	43 - 134
Chrysene	23.6	ND	19.5	82	50 - 124
Dibenz(a,h)anthracene	23.6	ND	17.6	74	45 - 134
Fluoranthene	23.6	2.10	21.3	81	50 - 127
Fluorene	23.6	ND	15.5	66	43 - 125
Indeno(1,2,3-cd)pyrene	23.6	ND	18.2	77	45 - 133
2-Methylnaphthalene	23.6	ND	14.3	60	38 - 122
Naphthalene	23.6	ND	17.1	73	35 - 123
Phenanthrene	23.6	ND	17.0	72	50 - 121
Pyrene	23.6	2.34	21.1	80	47 - 127

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8270D

PDI-100SC-J-09-10-190926

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment		
Batch:	0020481	Laboratory ID:	0020481-MSD1
Preparation:	EPA 3546	Initial/Final:	10.02 g / 5 mL

Source Sample Name: PDI-100SC-J-09-10-190926

COMPOUND	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % RECOVERY	% RPD		QC LIMITS RPD	QC LIMITS REC.
Acenaphthene	23.6	20.1	85	22		30	40 - 122
Acenaphthylene	23.6	18.2	77	22		30	32 - 132
Anthracene	23.6	18.6	79	16		30	47 - 123
Benz(a)anthracene	23.6	18.9	80	3		30	49 - 126
Benzo(a)pyrene	23.6	19.9	84	4		30	45 - 129
Benzo(b)fluoranthene	23.6	19.7	83	2		30	45 - 132
Benzo(k)fluoranthene	23.6	18.9	80	4		30	47 - 132
Benzo(g,h,i)perylene	23.6	19.4	82	5		30	43 - 134
Chrysene	23.6	20.3	86	4		30	50 - 124
Dibenz(a,h)anthracene	23.6	17.8	76	1		30	45 - 134
Fluoranthene	23.6	23.6	91	10		30	50 - 127
Fluorene	23.6	19.3	82	22		30	43 - 125
Indeno(1,2,3-cd)pyrene	23.6	19.1	81	5		30	45 - 133
2-Methylnaphthalene	23.6	17.7	75	21		30	38 - 122
Naphthalene	23.6	23.9	101	33	*	30	35 - 123
Phenanthrene	23.6	21.4	91	23		30	50 - 121
Pyrene	23.6	23.8	91	12		30	47 - 127

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270D

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	0B17042	Instrument:	SV-GCMS14
Matrix:	Sediment	Calibration:	A9I1001

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	0B17042-TUN1	N02172006.D	02/17/20 11:48
Calibration Check	0B17042-CCV1	N02172007.D	02/17/20 12:15
Calibration Blank	0B17042-CCB1	N02172008.D	02/17/20 12:47
Blank	0020481-BLK1	N02172009.D	02/17/20 13:19
LCS	0020481-BS1	N02172010.D	02/17/20 13:51
PDI-100SC-J-07-08-190926	A0B0411-02	N02172011.D	02/17/20 14:24
PDI-100SC-J-07-08-190926 (Dup)	0020481-DUP1	N02172012.D	02/17/20 14:56
PDI-100SC-J-09-10-190926	A0B0411-04	N02172013.D	02/17/20 15:28
PDI-100SC-J-09-10-190926 (MS)	0020481-MS1	N02172014.D	02/17/20 16:00
PDI-100SC-J-09-10-190926 (MSD)	0020481-MSD1	N02172015.D	02/17/20 16:32
PDI-100SC-J-06-07-190926	A0B0411-01	N02172016.D	02/17/20 17:05
PDI-100SC-J-08-09-190926	A0B0411-03	N02172017.D	02/17/20 17:37
PDI-100SC-J-10-11-190926	A0B0411-05	N02172018.D	02/17/20 18:09
PDI-100SC-J-08-09-190926	A0B0411-03RE1	N02172019.D	02/17/20 19:17

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.

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270D

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
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.

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8270D

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Lab File ID:	N02172006.D	Injection Date:	02/17/20
Instrument ID:	SV-GCMS14	Injection Time:	11:48
Sequence:	0B17042	Lab Sample ID:	0B17042-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
m/z 68	Less than 2% of m/z 69	1.64	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	0.50	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	3.83	PASS
m/z 441	Less than 150% of m/z 443	77.80	PASS
m/z 442	0.1 - 200% of m/z 198	120.77	PASS
m/z 443	15 - 24% of m/z 442	19.38	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8270D

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
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

INITIAL CALIBRATION DATA (Summary)

EPA 8270D

Laboratory: Apex Laboratories SDG: Gasco_PreRD_DG 2019

Client: Anchor QEA, LLC Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing

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	2.552096	9.498	1.184114E-02			20	
Anthracene	1.088444	Ave	2.157422	11.223	6.057048E-03			20	
Benz(a)anthracene	1.161023	Ave	7.869327	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	3.852542	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	5.160882	8.5884	7.334806E-03			20	
Naphthalene	1.102926	Ave	2.419226	7.9059	1.784269E-02			20	
Phenanthrene	1.170171	Ave	3.845982	11.1707	1.240085E-02			20	
Pyrene	1.562337	Ave	6.478501	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

Client: Anchor QEA, LLC

Calibration: A9I1001

SDG: Gasco_PreRD_DG 2019

Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Te

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	2.171664
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	1.097579
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	1.404786	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	1.164716	25	1.154027	50	1.151784
Pyrene	1	1.63414	2.5	1.742266	5	1.585271	10	1.635519	25	1.580246	50	1.570799
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:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Te
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	1.102277	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	0.9654102	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	1.559688	200	1.478103	300	1.415905	400	1.421434				
Carbazole	100	0.9049028	200	0.9454096	300	0.9401746	400	0.949796				
Dibenzofuran	100	1.831193	200	1.826652	300	1.770993	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:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP T
Instrument ID:	SV-GCMS14	Calibration:	A9I1001
Lab File ID:	N09061924.D		
Sequence:	9I06028	Inject Date:	09/06/19
Lab Sample ID:	9I06028-ICV1	Inject Time:	22:45

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:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Instrument ID:	SV-GCMS14	Calibration:	A9I1001
Lab File ID:	N02172007.D	Calibration Date:	09/10/19 10:37
Sequence:	0B17042	Injection Date:	02/17/20
Lab Sample ID:	0B17042-CCV1	Injection Time:	12:15

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	48.4		1.421956	1.375382	-3.3	20
Acenaphthylene	Ave	50.0	46.5		2.170985	2.018272	-7.0	20
Anthracene	Ave	50.0	45.6		1.088444	0.9937203	-8.7	20
Benz(a)anthracene	Ave	50.0	43.2		1.161023	1.003218	-13.6	20
Benzo(a)pyrene	Ave	50.0	45.2		0.9876419	0.8936477	-9.5	20
Benzo(b)fluoranthene	Ave	50.0	46.2		1.153887	1.066362	-7.6	20
Benzo(k)fluoranthene	Ave	50.0	46.7		1.136093	1.060335	-6.7	20
Benzo(g,h,i)perylene	Ave	50.0	45.6		1.308305	1.193079	-8.8	20
Chrysene	Ave	50.0	45.8		1.098706	1.006782	-8.4	20
Dibenz(a,h)anthracene	Ave	50.0	46.1		1.158853	1.067764	-7.9	20
Fluoranthene	Ave	50.0	46.3		1.178979	1.092457	-7.3	20
Fluorene	Ave	50.0	47.3		1.455085	1.376513	-5.4	20
Indeno(1,2,3-cd)pyrene	Ave	50.0	44.4		1.233305	1.096039	-11.1	20
2-Methylnaphthalene	Ave	50.0	47.5		0.9346173	0.8870587	-5.1	20
Naphthalene	Ave	50.0	49.3		1.102926	1.088038	-1.3	20
Phenanthrene	Ave	50.0	47.5		1.170171	1.110827	-5.1	20
Pyrene	Ave	50.0	50.8		1.562337	1.588231	1.7	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:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	0B17042	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 (0B17042-CCV1)			Lab File ID: N02172007.D		Analyzed: 02/17/20 12:15			
2-Fluorobiphenyl (Surr)	50.0	100	80 - 120	8.827	8.9523	-0.1253	+/-1.0	
p-Terphenyl-d14 (Surr)	50.0	97	80 - 120	12.762	12.9315	-0.1695	+/-1.0	
Calibration Blank (0B17042-CCB1)			Lab File ID: N02172008.D		Analyzed: 02/17/20 12:47			
2-Fluorobiphenyl (Surr)			44 - 115	0	8.9523	-8.9523	+/-1.0	
p-Terphenyl-d14 (Surr)			54 - 127	12.767	12.9315	-0.1645	+/-1.0	
Blank (0020481-BLK1)			Lab File ID: N02172009.D		Analyzed: 02/17/20 13:19			
2-Fluorobiphenyl (Surr)	45.5	79	44 - 115	8.821	8.9523	-0.1313	+/-1.0	
p-Terphenyl-d14 (Surr)	45.5	90	54 - 127	12.756	12.9315	-0.1755	+/-1.0	
LCS (0020481-BS1)			Lab File ID: N02172010.D		Analyzed: 02/17/20 13:51			
2-Fluorobiphenyl (Surr)	50.0	84	44 - 115	8.821	8.9523	-0.1313	+/-1.0	
p-Terphenyl-d14 (Surr)	50.0	87	54 - 127	12.756	12.9315	-0.1755	+/-1.0	
PDI-100SC-J-07-08-190926 (A0B0411-02)			Lab File ID: N02172011.D		Analyzed: 02/17/20 14:24			
2-Fluorobiphenyl (Surr)	60.9	73	44 - 115	8.816	8.9523	-0.1363	+/-1.0	
p-Terphenyl-d14 (Surr)	60.9	79	54 - 127	12.756	12.9315	-0.1755	+/-1.0	
Duplicate (0020481-DUP1)			Lab File ID: N02172012.D		Analyzed: 02/17/20 14:56			
2-Fluorobiphenyl (Surr)	60.6	76	44 - 115	8.822	8.9523	-0.1303	+/-1.0	
p-Terphenyl-d14 (Surr)	60.6	76	54 - 127	12.756	12.9315	-0.1755	+/-1.0	
PDI-100SC-J-09-10-190926 (A0B0411-04)			Lab File ID: N02172013.D		Analyzed: 02/17/20 15:28			
2-Fluorobiphenyl (Surr)	58.8	77	44 - 115	8.822	8.9523	-0.1303	+/-1.0	
p-Terphenyl-d14 (Surr)	58.8	78	54 - 127	12.756	12.9315	-0.1755	+/-1.0	
Matrix Spike (0020481-MS1)			Lab File ID: N02172014.D		Analyzed: 02/17/20 16:00			
2-Fluorobiphenyl (Surr)	59.1	63	44 - 115	8.821	8.9523	-0.1313	+/-1.0	
p-Terphenyl-d14 (Surr)	59.1	81	54 - 127	12.756	12.9315	-0.1755	+/-1.0	
Matrix Spike Dup (0020481-MSD1)			Lab File ID: N02172015.D		Analyzed: 02/17/20 16:32			
2-Fluorobiphenyl (Surr)	59.0	76	44 - 115	8.822	8.9523	-0.1303	+/-1.0	
p-Terphenyl-d14 (Surr)	59.0	80	54 - 127	12.756	12.9315	-0.1755	+/-1.0	
PDI-100SC-J-06-07-190926 (A0B0411-01)			Lab File ID: N02172016.D		Analyzed: 02/17/20 17:05			
2-Fluorobiphenyl (Surr)	60.1	81	44 - 115	8.822	8.9523	-0.1303	+/-1.0	
p-Terphenyl-d14 (Surr)	60.1	81	54 - 127	12.756	12.9315	-0.1755	+/-1.0	
PDI-100SC-J-08-09-190926 (A0B0411-03)			Lab File ID: N02172017.D		Analyzed: 02/17/20 17:37			
2-Fluorobiphenyl (Surr)	63.1	75	44 - 115	8.822	8.9523	-0.1303	+/-1.0	
p-Terphenyl-d14 (Surr)	63.1	74	54 - 127	12.756	12.9315	-0.1755	+/-1.0	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8270D

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Sequence:	0B17042	Instrument:	SV-GCMS14
Matrix:	Sediment	Calibration:	A9I1001

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
PDI-100SC-J-10-11-190926 (A0B0411-05)			Lab File ID: N02172018.D		Analyzed: 02/17/20 18:09			
2-Fluorobiphenyl (Surr)	58.9	70	44 - 115	8.821	8.9523	-0.1313	+/-1.0	
p-Terphenyl-d14 (Surr)	58.9	82	54 - 127	12.756	12.9315	-0.1755	+/-1.0	
PDI-100SC-J-08-09-190926 (A0B0411-03RE1)			Lab File ID: N02172019.D		Analyzed: 02/17/20 19:17			
2-Fluorobiphenyl (Surr)	63.1	79	44 - 115	8.822	8.9523	-0.1303	+/-1.0	
p-Terphenyl-d14 (Surr)	63.1	73	54 - 127	12.756	12.9315	-0.1755	+/-1.0	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8270D

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	9I06028	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
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	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270D

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	0B17042	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 (0B17042-CCV1)			Lab File ID: N02172007.D			Analyzed: 02/17/20 12:15			
Naphthalene-d8 (ISTD)	157728	7.761	148351	7.883	106	50 - 200	-0.1220	+/-0.50	
Acenaphthene-d10 (ISTD)	115040	9.515	117951	9.638	98	50 - 200	-0.1230	+/-0.50	
Phenanthrene-d10 (ISTD)	204788	11.019	219661	11.147	93	50 - 200	-0.1280	+/-0.50	
Chrysene-d12 (ISTD)	147607	14.674	169841	14.907	87	50 - 200	-0.2330	+/-0.50	
Perylene-d12 (ISTD)	131732	18.136	142416	18.375	92	50 - 200	-0.2390	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	98887	20.52	93265	20.765	106	50 - 200	-0.2450	+/-0.50	
Calibration Blank (0B17042-CCB1)			Lab File ID: N02172008.D			Analyzed: 02/17/20 12:47			
Naphthalene-d8 (ISTD)	171587	7.761	157728	7.761	109	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	121471	9.515	115040	9.515	106	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	208370	11.019	204788	11.019	102	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	169068	14.673	147607	14.674	115	50 - 200	-0.0010	+/-0.50	
Perylene-d12 (ISTD)	156617	18.136	131732	18.136	119	50 - 200	0.0000	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	127689	20.52	98887	20.52	129	50 - 200	0.0000	+/-0.50	
Blank (0020481-BLK1)			Lab File ID: N02172009.D			Analyzed: 02/17/20 13:19			
Naphthalene-d8 (ISTD)	172846	7.755	157728	7.761	110	50 - 200	-0.0060	+/-0.50	
Acenaphthene-d10 (ISTD)	117775	9.509	115040	9.515	102	50 - 200	-0.0060	+/-0.50	
Phenanthrene-d10 (ISTD)	195193	11.013	204788	11.019	95	50 - 200	-0.0060	+/-0.50	
Chrysene-d12 (ISTD)	137032	14.668	147607	14.674	93	50 - 200	-0.0060	+/-0.50	
Perylene-d12 (ISTD)	119541	18.124	131732	18.136	91	50 - 200	-0.0120	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	92428	20.514	98887	20.52	93	50 - 200	-0.0060	+/-0.50	
LCS (0020481-BS1)			Lab File ID: N02172010.D			Analyzed: 02/17/20 13:51			
Naphthalene-d8 (ISTD)	178495	7.755	157728	7.761	113	50 - 200	-0.0060	+/-0.50	
Acenaphthene-d10 (ISTD)	124009	9.503	115040	9.515	108	50 - 200	-0.0120	+/-0.50	
Phenanthrene-d10 (ISTD)	217572	11.013	204788	11.019	106	50 - 200	-0.0060	+/-0.50	
Chrysene-d12 (ISTD)	165036	14.668	147607	14.674	112	50 - 200	-0.0060	+/-0.50	
Perylene-d12 (ISTD)	148592	18.124	131732	18.136	113	50 - 200	-0.0120	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	112751	20.508	98887	20.52	114	50 - 200	-0.0120	+/-0.50	
PDI-100SC-J-07-08-190926 (A0B0411-02)			Lab File ID: N02172011.D			Analyzed: 02/17/20 14:24			
Naphthalene-d8 (ISTD)	195846	7.749	157728	7.761	124	50 - 200	-0.0120	+/-0.50	
Acenaphthene-d10 (ISTD)	132526	9.504	115040	9.515	115	50 - 200	-0.0110	+/-0.50	
Phenanthrene-d10 (ISTD)	248403	11.013	204788	11.019	121	50 - 200	-0.0060	+/-0.50	
Chrysene-d12 (ISTD)	214699	14.662	147607	14.674	145	50 - 200	-0.0120	+/-0.50	
Perylene-d12 (ISTD)	204510	18.124	131732	18.136	155	50 - 200	-0.0120	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	167375	20.508	98887	20.52	169	50 - 200	-0.0120	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270D

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Sequence:	0B17042	Instrument:	SV-GCMS14
Matrix:	Sediment	Calibration:	A9I1001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Duplicate (0020481-DUP1)			Lab File ID: N02172012.D			Analyzed: 02/17/20 14:56			
Naphthalene-d8 (ISTD)	192599	7.755	157728	7.761	122	50 - 200	-0.0060	+/-0.50	
Acenaphthene-d10 (ISTD)	129398	9.504	115040	9.515	112	50 - 200	-0.0110	+/-0.50	
Phenanthrene-d10 (ISTD)	231361	11.013	204788	11.019	113	50 - 200	-0.0060	+/-0.50	
Chrysene-d12 (ISTD)	178527	14.668	147607	14.674	121	50 - 200	-0.0060	+/-0.50	
Perylene-d12 (ISTD)	164886	18.124	131732	18.136	125	50 - 200	-0.0120	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	131452	20.508	98887	20.52	133	50 - 200	-0.0120	+/-0.50	
PDI-100SC-J-09-10-190926 (A0B0411-04)			Lab File ID: N02172013.D			Analyzed: 02/17/20 15:28			
Naphthalene-d8 (ISTD)	201930	7.755	157728	7.761	128	50 - 200	-0.0060	+/-0.50	
Acenaphthene-d10 (ISTD)	134742	9.509	115040	9.515	117	50 - 200	-0.0060	+/-0.50	
Phenanthrene-d10 (ISTD)	246812	11.013	204788	11.019	121	50 - 200	-0.0060	+/-0.50	
Chrysene-d12 (ISTD)	204945	14.668	147607	14.674	139	50 - 200	-0.0060	+/-0.50	
Perylene-d12 (ISTD)	191183	18.13	131732	18.136	145	50 - 200	-0.0060	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	155085	20.514	98887	20.52	157	50 - 200	-0.0060	+/-0.50	
Matrix Spike (0020481-MS1)			Lab File ID: N02172014.D			Analyzed: 02/17/20 16:00			
Naphthalene-d8 (ISTD)	191785	7.755	157728	7.761	122	50 - 200	-0.0060	+/-0.50	
Acenaphthene-d10 (ISTD)	134429	9.509	115040	9.515	117	50 - 200	-0.0060	+/-0.50	
Phenanthrene-d10 (ISTD)	248177	11.013	204788	11.019	121	50 - 200	-0.0060	+/-0.50	
Chrysene-d12 (ISTD)	200049	14.668	147607	14.674	136	50 - 200	-0.0060	+/-0.50	
Perylene-d12 (ISTD)	181792	18.13	131732	18.136	138	50 - 200	-0.0060	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	139063	20.514	98887	20.52	141	50 - 200	-0.0060	+/-0.50	
Matrix Spike Dup (0020481-MSD1)			Lab File ID: N02172015.D			Analyzed: 02/17/20 16:32			
Naphthalene-d8 (ISTD)	195796	7.755	157728	7.761	124	50 - 200	-0.0060	+/-0.50	
Acenaphthene-d10 (ISTD)	136354	9.509	115040	9.515	119	50 - 200	-0.0060	+/-0.50	
Phenanthrene-d10 (ISTD)	247545	11.013	204788	11.019	121	50 - 200	-0.0060	+/-0.50	
Chrysene-d12 (ISTD)	198598	14.668	147607	14.674	135	50 - 200	-0.0060	+/-0.50	
Perylene-d12 (ISTD)	183057	18.124	131732	18.136	139	50 - 200	-0.0120	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	138277	20.514	98887	20.52	140	50 - 200	-0.0060	+/-0.50	
PDI-100SC-J-06-07-190926 (A0B0411-01)			Lab File ID: N02172016.D			Analyzed: 02/17/20 17:05			
Naphthalene-d8 (ISTD)	200676	7.755	157728	7.761	127	50 - 200	-0.0060	+/-0.50	
Acenaphthene-d10 (ISTD)	139395	9.509	115040	9.515	121	50 - 200	-0.0060	+/-0.50	
Phenanthrene-d10 (ISTD)	265530	11.013	204788	11.019	130	50 - 200	-0.0060	+/-0.50	
Chrysene-d12 (ISTD)	235527	14.668	147607	14.674	160	50 - 200	-0.0060	+/-0.50	
Perylene-d12 (ISTD)	221783	18.13	131732	18.136	168	50 - 200	-0.0060	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	181307	20.514	98887	20.52	183	50 - 200	-0.0060	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270D

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Sequence:	0B17042	Instrument:	SV-GCMS14
Matrix:	Sediment	Calibration:	A9I1001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
PDI-100SC-J-08-09-190926 (A0B0411-03)			Lab File ID: N02172017.D			Analyzed: 02/17/20 17:37			
Naphthalene-d8 (ISTD)	178494	7.755	157728	7.761	113	50 - 200	-0.0060	+/-0.50	
Acenaphthene-d10 (ISTD)	137763	9.504	115040	9.515	120	50 - 200	-0.0110	+/-0.50	
Phenanthrene-d10 (ISTD)	255828	11.013	204788	11.019	125	50 - 200	-0.0060	+/-0.50	
Chrysene-d12 (ISTD)	224875	14.668	147607	14.674	152	50 - 200	-0.0060	+/-0.50	
Perylene-d12 (ISTD)	211097	18.124	131732	18.136	160	50 - 200	-0.0120	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	169881	20.514	98887	20.52	172	50 - 200	-0.0060	+/-0.50	
PDI-100SC-J-10-11-190926 (A0B0411-05)			Lab File ID: N02172018.D			Analyzed: 02/17/20 18:09			
Naphthalene-d8 (ISTD)	191404	7.755	157728	7.761	121	50 - 200	-0.0060	+/-0.50	
Acenaphthene-d10 (ISTD)	133153	9.503	115040	9.515	116	50 - 200	-0.0120	+/-0.50	
Phenanthrene-d10 (ISTD)	240815	11.013	204788	11.019	118	50 - 200	-0.0060	+/-0.50	
Chrysene-d12 (ISTD)	200651	14.662	147607	14.674	136	50 - 200	-0.0120	+/-0.50	
Perylene-d12 (ISTD)	188754	18.124	131732	18.136	143	50 - 200	-0.0120	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	148322	20.508	98887	20.52	150	50 - 200	-0.0120	+/-0.50	
PDI-100SC-J-08-09-190926 (A0B0411-03RE1)			Lab File ID: N02172019.D			Analyzed: 02/17/20 19:17			
Naphthalene-d8 (ISTD)	180288	7.749	157728	7.761	114	50 - 200	-0.0120	+/-0.50	
Acenaphthene-d10 (ISTD)	126434	9.503	115040	9.515	110	50 - 200	-0.0120	+/-0.50	
Phenanthrene-d10 (ISTD)	232891	11.013	204788	11.019	114	50 - 200	-0.0060	+/-0.50	
Chrysene-d12 (ISTD)	179712	14.668	147607	14.674	122	50 - 200	-0.0060	+/-0.50	
Perylene-d12 (ISTD)	168111	18.124	131732	18.136	128	50 - 200	-0.0120	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	127322	20.514	98887	20.52	129	50 - 200	-0.0060	+/-0.50	

HOLDING TIME SUMMARY

EPA 8270D

Laboratory: Apex Laboratories

SDG: Gasco_PreRD_DG 2019

Client: Anchor QEA, LLC

Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C

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-100SC-J-06-07-190926	09/26/19 11:11	09/27/19 10:25	02/17/20 06:59	143.83	14.00	02/17/20 17:05	0.42	40.00	*
PDI-100SC-J-07-08-190926	09/26/19 11:11	09/27/19 10:25	02/17/20 06:59	143.83	14.00	02/17/20 14:24	0.31	40.00	*
PDI-100SC-J-08-09-190926	09/26/19 11:11	09/27/19 10:25	02/17/20 06:59	143.83	14.00	02/17/20 17:37	0.44	40.00	*
PDI-100SC-J-08-09-190926	09/26/19 11:11	09/27/19 10:25	02/17/20 06:59	143.83	14.00	02/17/20 19:17	0.51	40.00	*
PDI-100SC-J-09-10-190926	09/26/19 11:11	09/27/19 10:25	02/17/20 06:59	143.83	14.00	02/17/20 15:28	0.35	40.00	*
PDI-100SC-J-10-11-190926	09/26/19 11:11	09/27/19 10:25	02/17/20 06:59	143.83	14.00	02/17/20 18:09	0.47	40.00	*

Apex Laboratories

SDG: Gasco PreRD_DG 2019

CLASS: WET

METHOD: SM 5310 B MOD

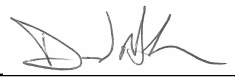
ANALYSES DATA PACKAGE COVER PAGE

SM 5310 B MOD

Laboratory: Apex Laboratories
SDG: Gasco PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing C

Client Sample Id:	Lab Sample Id:	Matrix
PDI-100SC-J-06-07-190926	A0B0411-01	Sediment
PDI-100SC-J-07-08-190926	A0B0411-02	Sediment
PDI-100SC-J-08-09-190926	A0B0411-03	Sediment
PDI-100SC-J-09-10-190926	A0B0411-04	Sediment
PDI-100SC-J-10-11-190926	A0B0411-05	Sediment

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 autorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: 
Name: David G. Jack

Forms Created: 3/25/2020 12:37PM
Title: Technical Manager

METHOD DETECTION AND REPORTING LIMITS

SM 5310 B MOD

Laboratory: Apex Laboratories

SDG: Gasco_PreRD_DG 2019

Client: Anchor QEA, LLC

Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP

Batch Matrix: Sediment

Analyte	MDL	MRL	Units
Total Organic Carbon	200	200	mg/kg

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

METHOD DETECTION AND REPORTING LIMITS

SM 5310 B MOD

Laboratory: Apex Laboratories

SDG: Gasco_PreRD_DG 2019

Client: Anchor QEA, LLC

Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP

Batch Matrix: Soil

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

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

INORGANIC ANALYSIS DATA SHEET

SM 5310 B MOD

PDI-100SC-J-06-07-190926

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cores
Matrix: Sediment
Laboratory ID: A0B0411-01
File ID: 0B19031.txt-007
Sampled: 09/26/19 11:11
Prepared: 02/18/20 10:58
Analyzed: 02/19/20 13:26
Solids: 82.12
Preparation: PSEP-5310B TOC
Initial/Final: 0.2 N/A / 0.2 N/A
Batch: 0020538
Sequence: 0B19031
Calibration: A0A0805
Instrument: TOC6

CAS NO.	Analyte	Concentration (% by Weight)	Dilution Factor	Q	Method
TOC	Total Organic Carbon	0.039	1		SM 5310 B MOD

INORGANIC ANALYSIS DATA SHEET

SM 5310 B MOD

PDI-100SC-J-07-08-190926

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cores
Matrix: Sediment
Laboratory ID: A0B0411-02
File ID: 0B19031.txt-010
Sampled: 09/26/19 11:11
Prepared: 02/18/20 10:58
Analyzed: 02/19/20 13:58
Solids: 80.22
Preparation: PSEP-5310B TOC
Initial/Final: 0.2 N/A / 0.2 N/A
Batch: 0020538
Sequence: 0B19031
Calibration: A0A0805
Instrument: TOC6

CAS NO.	Analyte	Concentration (% by Weight)	Dilution Factor	Q	Method
TOC	Total Organic Carbon	0.028	1		SM 5310 B MOD

INORGANIC ANALYSIS DATA SHEET

SM 5310 B MOD

PDI-100SC-J-08-09-190926

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cores
Matrix: Sediment
Laboratory ID: A0B0411-03
File ID: 0B19031.txt-011
Sampled: 09/26/19 11:11
Prepared: 02/18/20 10:58
Analyzed: 02/19/20 14:09
Solids: 78.39
Preparation: PSEP-5310B TOC
Initial/Final: 0.2 N/A / 0.2 N/A
Batch: 0020538
Sequence: 0B19031
Calibration: A0A0805
Instrument: TOC6

CAS NO.	Analyte	Concentration (% by Weight)	Dilution Factor	Q	Method
TOC	Total Organic Carbon	0.091	1		SM 5310 B MOD

INORGANIC ANALYSIS DATA SHEET

SM 5310 B MOD

PDI-100SC-J-09-10-190926

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cores
Matrix: Sediment
Laboratory ID: A0B0411-04
File ID: 0B19031.txt-012
Sampled: 09/26/19 11:11
Prepared: 02/18/20 10:58
Analyzed: 02/19/20 14:20
Solids: 84.55
Preparation: PSEP-5310B TOC
Initial/Final: 0.2 N/A / 0.2 N/A
Batch: 0020538
Sequence: 0B19031
Calibration: A0A0805
Instrument: TOC6

CAS NO.	Analyte	Concentration (% by Weight)	Dilution Factor	Q	Method
TOC	Total Organic Carbon	0.058	1		SM 5310 B MOD

INORGANIC ANALYSIS DATA SHEET

SM 5310 B MOD

PDI-100SC-J-10-11-190926

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cores
Matrix: Sediment
Laboratory ID: A0B0411-05
File ID: 0B19031.txt-013
Sampled: 09/26/19 11:11
Prepared: 02/18/20 10:58
Analyzed: 02/19/20 14:31
Solids: 83.62
Preparation: PSEP-5310B TOC
Initial/Final: 0.2 N/A / 0.2 N/A
Batch: 0020538
Sequence: 0B19031
Calibration: A0A0805
Instrument: TOC6

CAS NO.	Analyte	Concentration (% by Weight)	Dilution Factor	Q	Method
TOC	Total Organic Carbon	0.026	1		SM 5310 B MOD

PREPARATION BATCH SUMMARY

SM 5310 B MOD

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cc
Batch: 0020538 Batch Matrix: Soil
Preparation: PSEP-5310B TOC

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	0020538-BLK1	0B19031.txt-005	02/18/20 10:58	
LCS	0020538-BS1	0B19031.txt-006	02/18/20 10:58	
PDI-100SC-J-06-07-190926 (Dup)	0020538-DUP1	0B19031.txt-008	02/18/20 10:58	
PDI-100SC-J-06-07-190926 (Dup)	0020538-DUP2	0B19031.txt-009	02/18/20 10:58	
PDI-100SC-J-06-07-190926	A0B0411-01	0B19031.txt-007	02/18/20 10:58	
PDI-100SC-J-07-08-190926	A0B0411-02	0B19031.txt-010	02/18/20 10:58	
PDI-100SC-J-08-09-190926	A0B0411-03	0B19031.txt-011	02/18/20 10:58	
PDI-100SC-J-09-10-190926	A0B0411-04	0B19031.txt-012	02/18/20 10:58	
PDI-100SC-J-10-11-190926	A0B0411-05	0B19031.txt-013	02/18/20 10:58	

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:	Apex Laboratories		SDG:	Gasco_PreRD_DG 2019	
Client:	Anchor QEA, LLC		Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C	
Matrix:	Soil	Laboratory ID:	0020538-BLK1	File ID:	0B19031.txt-005
Prepared:	02/18/20 10:58	Preparation:	PSEP-5310B TOC	Initial/Final:	0.2 N/A / 0.2 N/A
Analyzed:	02/19/20 13:04	Instrument:	TOC6		
Batch:	0020538	Sequence:	0B19031	Calibration:	A0A0805

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

LCS / LCS DUPLICATE RECOVERY

SM 5310 B MOD

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Soil		
Batch:	0020538	Laboratory ID:	0020538-BS1
Preparation:	PSEP-5310B TOC	Initial/Final:	0.2 N/A / 0.2 N/A

COMPOUND	SPIKE ADDED (mg/kg)	LCS CONCENTRATION (mg/kg)	LCS % REC. (*=Out)	QC LIMITS REC.
Total Organic Carbon	10000	9700	97	90 - 110

* = Values outside of QC limits

PDI-100SC-J-06-07-190926

DUPLICATES

SM 5310 B MOD

Laboratory: Apex Laboratories
Client: Anchor QEA, LLC
Matrix: Soil
Batch: 0020538
Preparation: PSEP-5310B TOC
Source Sample Name: PDI-100SC-J-06-07-190926

SDG: Gasco_PreRD_DG 2019
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP T
Laboratory ID: 0020538-DUP1
Lab Source ID: A0B0411-01
Initial/Final: 0.2 N/A / 0.2 N/A
% Solids: 82.12

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (% by Weight)	C	DUPLICATE CONCENTRATION (% by Weight)	C	RPD %	Q	METHOD
Total Organic Carbon	20	0.039		0.028		32	*	SM 5310 B MOD

* Values outside of QC limits

PDI-100SC-J-06-07-190926

DUPLICATES

SM 5310 B MOD

Laboratory: Apex Laboratories
Client: Anchor QEA, LLC
Matrix: Soil
Batch: 0020538
Preparation: PSEP-5310B TOC
Source Sample Name: PDI-100SC-J-06-07-190926

SDG: Gasco_PreRD_DG 2019
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP T
Laboratory ID: 0020538-DUP2
Lab Source ID: A0B0411-01
Initial/Final: 0.2 N/A / 0.2 N/A
% Solids: 82.12

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (% by Weight)	C	DUPLICATE CONCENTRATION (% by Weight)	C	RPD %	Q	METHOD
Total Organic Carbon	20	0.039		0.030		26	*	SM 5310 B MOD

* Values outside of QC limits

ANALYSIS BATCH (SEQUENCE) SUMMARY
SM 5310 B MOD

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	0A08052	Instrument:	TOC6
Matrix:	Sediment	Calibration:	A0A0805

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	0A08052-CAL2	0A08052.txt-005	01/08/20 18:59
Cal Standard	0A08052-CAL3	0A08052.txt-006	01/08/20 19:09
Cal Standard	0A08052-CAL4	0A08052.txt-007	01/08/20 19:20
Cal Standard	0A08052-CAL5	0A08052.txt-008	01/08/20 19:31
Cal Standard	0A08052-CAL6	0A08052.txt-009	01/08/20 19:42
Cal Standard	0A08052-CAL7	0A08052.txt-010	01/08/20 19:53
Cal Standard	0A08052-CAL8	0A08052.txt-011	01/08/20 20:03
Cal Standard	0A08052-CAL9	0A08052.txt-012	01/08/20 20:14
Initial Cal Check	0A08052-ICV1	0A08052.txt-014	01/08/20 20:36
Initial Cal Blank	0A08052-ICB1	0A08052.txt-015	01/08/20 20:47

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:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	0B19031	Instrument:	TOC6
Matrix:	Soil	Calibration:	A0A0805

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	0B19031-CCV1	0B19031.txt-003	02/19/20 12:43
Calibration Blank	0B19031-CCB1	0B19031.txt-004	02/19/20 12:54
Blank	0020538-BLK1	0B19031.txt-005	02/19/20 13:04
LCS	0020538-BS1	0B19031.txt-006	02/19/20 13:15
PDI-100SC-J-06-07-190926	A0B0411-01	0B19031.txt-007	02/19/20 13:26
PDI-100SC-J-06-07-190926 (Dup)	0020538-DUP1	0B19031.txt-008	02/19/20 13:37
PDI-100SC-J-06-07-190926 (Dup)	0020538-DUP2	0B19031.txt-009	02/19/20 13:47
PDI-100SC-J-07-08-190926	A0B0411-02	0B19031.txt-010	02/19/20 13:58
PDI-100SC-J-08-09-190926	A0B0411-03	0B19031.txt-011	02/19/20 14:09
PDI-100SC-J-09-10-190926	A0B0411-04	0B19031.txt-012	02/19/20 14:20
PDI-100SC-J-10-11-190926	A0B0411-05	0B19031.txt-013	02/19/20 14:31
Calibration Check	0B19031-CCV2	0B19031.txt-014	02/19/20 14:41
Calibration Blank	0B19031-CCB2	0B19031.txt-015	02/19/20 14:52

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: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing
Calibration: A0A0805
Date: 01/08/20 16:30
Instrument: TOC6

Compound	Mean RF	FIT	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Total Organic Carbon	107.0509	Lin	3.685489			0.99994			

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:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Te
Calibration:	A0A0805	Instrument:	TOC6
		Calibration Date:	01/08/20 16:30

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	200	114.6217	500	110.0738	1000	108.4645	2500	105.6496	5000	103.2242	12500	102.6331

INITIAL CALIBRATION DATA (Continued)

SM 5310 B MOD

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Te
Calibration:	A0A0805	Instrument:	TOC6
Matrix:		Calibration Date:	01/08/20 16:30

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	106.7626	50000	104.9773								

INITIAL AND CONTINUING CALIBRATION CHECK

SM 5310 B MOD

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Instrument ID: TOC6
Calibration: A0A0805
Control Limt: +/- 10.00%
Sequence: 0A08052

Lab Sample ID	Analyte	True	Found	%R	Units	Method
0A08052-ICV1	Total Organic Carbon	10000	10000	100	mg/kg	SM 5310 B MOD

* Values outside of QC limits

INITIAL AND CONTINUING CALIBRATION CHECK

SM 5310 B MOD

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Instrument ID: TOC6
Calibration: A0A0805
Control Limt: +/- 10.00%
Sequence: 0B19031

Lab Sample ID	Analyte	True	Found	%R	Units	Method
0B19031-CCV1	Total Organic Carbon	10000	9600	96	mg/kg	SM 5310 B MOD
0B19031-CCV2	Total Organic Carbon	10000	9600	96	mg/kg	SM 5310 B MOD

* Values outside of QC limits

INSTRUMENT BLANKS
SM 5310 B MOD

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Instrument ID: TOC6
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cores
Sequence: 0A08052
Calibration: A0A0805

Lab Sample ID	Analyte	Found	RL	Units	C	Method
0A08052-ICB1	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.

INSTRUMENT BLANKS
SM 5310 B MOD

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Instrument ID: TOC6
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cores
Sequence: 0B19031
Calibration: A0A0805

Lab Sample ID	Analyte	Found	RL	Units	C	Method
0B19031-CCB1	Total Organic Carbon	ND	200 (Inst)	mg/kg		SM 5310 B MOD
0B19031-CCB2	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: Gasco_PreRD_DG 2019

Client: Anchor QEA, LLC

Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C

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-100SC-J-06-07-190926	09/26/19 11:11	09/27/19 10:25	02/18/20 10:58	144.99	28.00	02/19/20 13:26	146.09	28.00	*
PDI-100SC-J-07-08-190926	09/26/19 11:11	09/27/19 10:25	02/18/20 10:58	144.99	28.00	02/19/20 13:58	146.12	28.00	*
PDI-100SC-J-08-09-190926	09/26/19 11:11	09/27/19 10:25	02/18/20 10:58	144.99	28.00	02/19/20 14:09	146.12	28.00	*
PDI-100SC-J-09-10-190926	09/26/19 11:11	09/27/19 10:25	02/18/20 10:58	144.99	28.00	02/19/20 14:20	146.13	28.00	*
PDI-100SC-J-10-11-190926	09/26/19 11:11	09/27/19 10:25	02/18/20 10:58	144.99	28.00	02/19/20 14:31	146.14	28.00	*

Apex Laboratories

SDG: Gasco PreRD_DG 2019

CLASS: WET

METHOD: SM 2540 G

ANALYSES DATA PACKAGE COVER PAGE

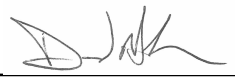
SM 2540 G

Laboratory: Apex Laboratories
Client: Anchor QEA, LLC

SDG: Gasco PreRD_DG 2019
Project: Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing C

Client Sample Id:	Lab Sample Id:	Matrix
PDI-100SC-J-06-07-190926	A0B0411-01	Sediment
PDI-100SC-J-07-08-190926	A0B0411-02	Sediment
PDI-100SC-J-08-09-190926	A0B0411-03	Sediment
PDI-100SC-J-09-10-190926	A0B0411-04	Sediment
PDI-100SC-J-10-11-190926	A0B0411-05	Sediment

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 autorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: 
Name: David G. Jack

Forms Created: 3/25/2020 12:37PM
Title: Technical Manager

METHOD DETECTION AND REPORTING LIMITS

SM 2540 G

Laboratory: Apex Laboratories

SDG: Gasco_PreRD_DG 2019

Client: Anchor QEA, LLC

Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP

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 evalutated to the MDL in this report .

INORGANIC ANALYSIS DATA SHEET

SM 2540 G

PDI-100SC-J-06-07-190926

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cores
Matrix: Sediment
Laboratory ID: A0B0411-01
Sampled: 09/26/19 11:11
Prepared: 02/18/20 07:36
Analyzed: 02/19/20 10:35
Solids: 82.12
Preparation: Total Solids (SM2540G/PSEP)
Initial/Final: 1 N/A / 1 N/A
Batch: 0020537
Calibration:
Instrument: Wet Chem Balance 1

CAS NO.	Analyte	Concentration (% by Weight)	Dilution Factor	Q	Method
TS	Total Solids	82.1	1		SM 2540 G

INORGANIC ANALYSIS DATA SHEET

SM 2540 G

PDI-100SC-J-07-08-190926

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cores
Matrix: Sediment
Laboratory ID: A0B0411-02
Sampled: 09/26/19 11:11
Prepared: 02/18/20 07:36
Analyzed: 02/19/20 10:35
Solids: 80.22
Preparation: Total Solids (SM2540G/PSEP)
Initial/Final: 1 N/A / 1 N/A
Batch: 0020537
Calibration:
Instrument: Wet Chem Balance 1

CAS NO.	Analyte	Concentration (% by Weight)	Dilution Factor	Q	Method
TS	Total Solids	80.2	1		SM 2540 G

INORGANIC ANALYSIS DATA SHEET

SM 2540 G

PDI-100SC-J-08-09-190926

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cores
Matrix: Sediment
Laboratory ID: A0B0411-03
Sampled: 09/26/19 11:11
Prepared: 02/18/20 07:36
Analyzed: 02/19/20 10:35
Solids: 78.39
Preparation: Total Solids (SM2540G/PSEP)
Initial/Final: 1 N/A / 1 N/A
Batch: 0020537
Calibration:
Instrument: Wet Chem Balance 1

CAS NO.	Analyte	Concentration (% by Weight)	Dilution Factor	Q	Method
TS	Total Solids	78.4	1		SM 2540 G

INORGANIC ANALYSIS DATA SHEET

SM 2540 G

PDI-100SC-J-09-10-190926

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cores
Matrix: Sediment
Laboratory ID: A0B0411-04
Sampled: 09/26/19 11:11
Prepared: 02/18/20 07:36
Analyzed: 02/19/20 10:35
Solids: 84.55
Preparation: Total Solids (SM2540G/PSEP)
Initial/Final: 1 N/A / 1 N/A
Batch: 0020537
Calibration:
Instrument: Wet Chem Balance 1

CAS NO.	Analyte	Concentration (% by Weight)	Dilution Factor	Q	Method
TS	Total Solids	84.6	1		SM 2540 G

INORGANIC ANALYSIS DATA SHEET

SM 2540 G

PDI-100SC-J-10-11-190926

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cores
Matrix: Sediment
Laboratory ID: A0B0411-05
Sampled: 09/26/19 11:11
Prepared: 02/18/20 07:36
Analyzed: 02/19/20 10:35
Solids: 83.62
Preparation: Total Solids (SM2540G/PSEP)
Initial/Final: 1 N/A / 1 N/A
Batch: 0020537
Calibration:
Instrument: Wet Chem Balance 1

CAS NO.	Analyte	Concentration (% by Weight)	Dilution Factor	Q	Method
TS	Total Solids	83.6	1		SM 2540 G

PREPARATION BATCH SUMMARY

SM 2540 G

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cc
Batch: 0020537 Batch Matrix: Sediment Preparation: Total Solids (SM2540G/PSEP)

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
PDI-100SC-J-06-07-190926 (Dup)	0020537-DUP1		02/18/20 07:36	
PDI-100SC-J-06-07-190926	A0B0411-01		02/18/20 07:36	
PDI-100SC-J-07-08-190926	A0B0411-02		02/18/20 07:36	
PDI-100SC-J-08-09-190926	A0B0411-03		02/18/20 07:36	
PDI-100SC-J-09-10-190926	A0B0411-04		02/18/20 07:36	
PDI-100SC-J-10-11-190926	A0B0411-05		02/18/20 07:36	

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.

PDI-100SC-J-06-07-190926

DUPLICATES

SM 2540 G

Laboratory: Apex Laboratories
Client: Anchor QEA, LLC
Matrix: Sediment
Batch: 0020537
Preparation: Total Solids (SM2540G/PSEP)
Source Sample Name: PDI-100SC-J-06-07-190926

SDG: Gasco_PreRD_DG 2019
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP
Laboratory ID: 0020537-DUP1
Lab Source ID: A0B0411-01
Initial/Final: 1 N/A / 1 N/A
% Solids: 82.12

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (% by Weight)	C	DUPLICATE CONCENTRATION (% by Weight)	C	RPD %	Q	METHOD
Total Solids	10	82.1		80.7		2		SM 2540 G

* Values outside of QC limits

HOLDING TIME SUMMARY

SM 2540 G

Laboratory: Apex Laboratories

SDG: Gasco_PreRD_DG 2019

Client: Anchor QEA, LLC

Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C

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-100SC-J-06-07-190926	09/26/19 11:11	09/27/19 10:25	02/18/20 07:36	144.85	180.00	02/19/20 10:35	1.12		
PDI-100SC-J-07-08-190926	09/26/19 11:11	09/27/19 10:25	02/18/20 07:36	144.85	180.00	02/19/20 10:35	1.12		
PDI-100SC-J-08-09-190926	09/26/19 11:11	09/27/19 10:25	02/18/20 07:36	144.85	180.00	02/19/20 10:35	1.12		
PDI-100SC-J-09-10-190926	09/26/19 11:11	09/27/19 10:25	02/18/20 07:36	144.85	180.00	02/19/20 10:35	1.12		
PDI-100SC-J-10-11-190926	09/26/19 11:11	09/27/19 10:25	02/18/20 07:36	144.85	180.00	02/19/20 10:35	1.12		

APEX LABORATORIES, LLC
6700 SW Sandburg St. Tigard OR 97223 phone 503-718-2323

Raw Data

APEX LABORATORIES, LLC
6700 SW Sandburg St. Tigard OR 97223 phone 503-718-2323

Polychlorinated Biphenyls by EPA 8082A
Benchsheet & Analysis Sequence Data

Batch 0020497
Sequence 0B19023 (A0B0411-01,02,03,04,05)

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0020497 (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	pH Other	pH >11
	0020497-BLK1		QC	02/17/20 09:23	31	2				100					
	0020497-BS1		QC	02/17/20 09:23	30	2	A20B033		100	100					
	A0B0411-01	A	8082 PCBs - Low Level (30g/2mL)	02/17/20 09:23	30.23	2				100	PDI-100SC-J-06-07-190926	+1262,1268			
	0020497-DUP1		QC	02/17/20 09:23	30.18	2		A0B0411-01		100					
	A0B0411-02	A	8082 PCBs - Low Level (30g/2mL)	02/17/20 09:23	30.01	2				100	PDI-100SC-J-07-08-190926	+1262,1268			
	A0B0411-03	A	8082 PCBs - Low Level (30g/2mL)	02/17/20 09:23	30.55	2				100	PDI-100SC-J-08-09-190926	+1262,1268			
	A0B0411-04	A	8082 PCBs - Low Level (30g/2mL)	02/17/20 09:23	30.16	2				100	PDI-100SC-J-09-10-190926	+1262,1268			
	A0B0411-05	A	8082 PCBs - Low Level (30g/2mL)	02/17/20 09:23	30.16	2				100	PDI-100SC-J-10-11-190926	+1262,1268			
	0020497-MS1		QC	02/17/20 09:23	30.09	2	A20B033	A0B0411-05	100	100					
	0020497-MSD1		QC	02/17/20 10:12	30.1	2	A20B033	A0B0411-05	100	100					

Standards/Reagents

Reagent(s)

Std ID	Exp. Date	Description
A13L219	11/30/23	Extractions Balance
A18K311	12/31/20	Glass Wool
A19C104	09/03/23	Florisil Lot 817211-CM
A19G279	01/18/22	Sulfuric Acid
A19I211	05/07/22	Copper, Granular Lot# J260003
A19I263	03/18/20	DCM CHEM PROD. 194934
A20A032	06/30/23	n-Hexane Lot# 197051
A20A282	07/19/21	Sodium Sulfate Lot # 194865

Analyte Spike(s)

Std ID	Exp. Date	Description
A20B033	07/03/20	8082 PCB Matrix Spike

Surrogate(s)

Std ID	Exp. Date	Description
A20B060	07/17/20	8082 PCB Surrogate Spike

Method 3546 digestion time and temperture achieved.
Initial:

Witness:_____

Prepared By: Date

Reviewed By: 2/19/20 Date

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0020497 (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	pH other	pH >11
1/2	0020497-BLK1		QC	02/17/20 09:23	~~30~~ 30	2				100					
3/4	0020497-BS1		QC	02/17/20 09:23	30	2	A20B033		100	100					
5/6	A0B0411-01	A	8082 PCBs - Low Level (30g/2mL)	02/17/20 09:23	~~30~~ 30.23	2				100	PDI-100SC-J-06-07-190926	+1262,1268 Sand			
7/8	0020497-DUP1		QC	02/17/20 09:23	~~30~~ ~~30~~ 30.18	2		A0B0411-01		100		Sand			
9/10	A0B0411-02	A	8082 PCBs - Low Level (30g/2mL)	02/17/20 09:23	~~30~~ 30.01	2				100	PDI-100SC-J-07-08-190926	+1262,1268 Sand			
11/12	A0B0411-03	A	8082 PCBs - Low Level (30g/2mL)	02/17/20 09:23	~~30~~ 30.55	2				100	PDI-100SC-J-08-09-190926	+1262,1268 Sand			
13/14	A0B0411-04	A	8082 PCBs - Low Level (30g/2mL)	02/17/20 09:23	~~30~~ 30.16	2				100	PDI-100SC-J-09-10-190926	+1262,1268 Sand			
15/16	A0B0411-05	A	8082 PCBs - Low Level (30g/2mL)	02/17/20 09:23	~~30~~ 30.16	2				100	PDI-100SC-J-10-11-190926	+1262,1268 sand.			
17/18	0020497-MS1		QC	02/17/20 09:23	~~30~~ 30.09	2	A20B033	A0B0411-05	100	100		Sand			
19/20	0020497-MSD1		QC	02/17/20 10:12	~~30~~ 30.10	2	A20B033	A0B0411-05	100	100		Sand			

Standards/Reagents

Reagent(s)

Std ID	Exp. Date	Description
A13L219	11/30/23	Extractions Balance
A18K311	12/31/20	Glass Wool
A19C104	09/03/23	Florisil Lot 817211-CM
A19G279	01/18/22	Sulfuric Acid
A19I211	05/07/22	Copper, Granular Lot# J260003
A19I263	03/18/20	DCM CHEM PROD. 194934
A20A032	06/30/23	n-Hexane Lot# 197051
A20A282	07/19/21	Sodium Sulfate Lot # 194865

Analyte Spike(s)

Std ID	Exp. Date	Description
A20B033	07/03/20	8082 PCB Matrix Spike

CAH

Surrogate(s)

Std ID	Exp. Date	Description
A20B060	07/17/20	8082 PCB Surrogate Spike

CAH

Method 3546 digestion time and temperture achieved.
Initial: CAH

Witness: AJJ 2-17-20

CAH 02/17/20
Prepared By: Date

CAS 02/18/2020
Reviewed By: Date

ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence:	**0B19023**	Instrument:	**DUALECD2R**
Date:	**02/19/20 07:22**	Calibration:	**A0A1501**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0B19023-CCV1	Sediment	QC	QC				A20A394
2	0B19023-CCB1	Sediment	QC	QC				A20A395
3	0020497-BLK1	Sediment	QC	QC		0020497		
4	0020497-BS1	Sediment	QC	QC		0020497		
5	A0B0411-01	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	02/19/20	0020497		
6	0B19023-IBL1	Sediment	QC	QC				
7	0020497-DUP1	Sediment	QC	QC		0020497		
8	0B19023-IBL2	Sediment	QC	QC				
9	A0B0411-02	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	02/21/20	0020497		
10	0B19023-IBL3	Sediment	QC	QC				
11	A0B0411-03	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	02/21/20	0020497		
12	0B19023-IBL4	Sediment	QC	QC				
13	A0B0411-04	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	02/21/20	0020497		
14	0B19023-IBL5	Sediment	QC	QC				
15	A0B0411-05	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	02/21/20	0020497		
16	0B19023-IBL6	Sediment	QC	QC				
17	0020497-MS1	Sediment	QC	QC		0020497		
18	0B19023-IBL7	Sediment	QC	QC				
19	0020497-MSD1	Sediment	QC	QC		0020497		
20	0B19023-IBL8	Sediment	QC	QC				
21	0B19023-CCV2	Sediment	QC	QC				A20A394
22	0B19023-CCB2	Sediment	QC	QC				A20A395

Comments:

Data Entered By: 2/19/20

Data Reviewed By: MVT 2/19/20

TOTAL AROCLOR AVERAGE RESULTS

The average result for the 1016 and 1260 selected peaks are reported here to facilitate data entry and review. Averages are done on all individual peaks and must be for matrix spikes if all peaks are not used in the average.

0B19023-CCV1

Aroclor 1016

Peak	Initial Res
1016 (1)	508.60
1016 (2)	462.02
1016 (3)	435.28
1016 (4)	515.13
1016 (5)	505.97
1016 (6)	486.84
Average:	**485.64**

Aroclor 1260

Peak	Initial Res
1260 (1)	531.43
1260 (2)	560.79
1260 (3)	538.24
1260 (4)	532.45
1260 (5)	559.84
1260 (6)	549.78
Average:	**545.42**

0020497-BS1

Aroclor 1016

Peak	Initial Res
1016 (1)	759.37
1016 (2)	750.59
1016 (3)	620.11
1016 (4)	853.33
1016 (5)	851.41
1016 (6)	728.05
Average:	**760.48**

Aroclor 1260

Peak	Initial Res
1260 (1)	1,024.64
1260 (2)	1,078.37
1260 (3)	992.56
1260 (4)	1,174.42
1260 (5)	1,098.66
1260 (6)	1,147.72
Average:	**1,086.06**

TOTAL AROCLOR AVERAGE RESULTS

The average result for the 1016 and 1260 selected peaks are reported here to facilitate data entry and review. Averages are done on all individual peaks and must be for matrix spikes if all peaks are not used in the average.

0020497-MS1

Aroclor 1016

Peak	Initial Res
1016 (1)	625.97
1016 (2)	627.28
1016 (3)	518.75
1016 (4)	755.15
1016 (5)	751.66
1016 (6)	644.66
Average:	**653.91**

Aroclor 1260

Peak	Initial Res
1260 (1)	869.97
1260 (2)	989.59
1260 (3)	812.47
1260 (4)	1,004.84
1260 (5)	905.44
1260 (6)	998.00
Average:	**930.05**

0020497-MSD1

Aroclor 1016

Peak	Initial Res
1016 (1)	741.14
1016 (2)	755.39
1016 (3)	617.86
1016 (4)	894.84
1016 (5)	856.55
1016 (6)	747.42
Average:	**768.87**

Aroclor 1260

Peak	Initial Res
1260 (1)	968.36
1260 (2)	1,083.75
1260 (3)	970.04
1260 (4)	1,136.70
1260 (5)	1,018.08
1260 (6)	1,083.94
Average:	**1,043.48**

TOTAL AROCLOR AVERAGE RESULTS

The average result for the 1016 and 1260 selected peaks are reported here to facilitate data entry and review. Averages are done on all individual peaks and must be for matrix spikes if all peaks are not used in the average.

0B19023-CCV2

Aroclor 1016

Peak	Initial Res
1016 (1)	546.93
1016 (2)	479.70
1016 (3)	458.00
1016 (4)	574.63
1016 (5)	531.37
1016 (6)	528.44
Average:	**519.85**

Aroclor 1260

Peak	Initial Res
1260 (1)	590.72
1260 (2)	585.48
1260 (3)	622.44
1260 (4)	604.14
1260 (5)	596.72
1260 (6)	598.71
Average:	**599.70**

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B19023\
Data File : ECD2R002.D
Signal(s) : ECD2B.CH
Acq On : 19 Feb 2020 7:54
Operator : MJB / KAK
Sample : 0B19023-CCV1
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 19 10:13:19 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

2/19/20

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	5.625	59273688	262.708	ng/ml
62)	S DCBP (S)	10.542	30738554	276.367	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.296	3144166	508.602	ng/ml
3)	Aroclor 1016 (2)	6.787	5286141	462.021	ng/ml
4)	Aroclor 1016 (3)	6.914	2331567	435.278	ng/ml
5)	Aroclor 1016 (4)	6.999	2545156	515.135	ng/ml
6)	Aroclor 1016 (5)	7.045	2805864	505.970	ng/ml
7)	Aroclor 1016 (6)	7.170	2781085	486.836	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.787	259577	149.395	ng/ml
10)	Aroclor 1221 (2)	5.873	417470	243.142	ng/ml
11)	Aroclor 1221 (3)	5.961	1848202	323.848	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.961	1848202	404.421	ng/ml
14)	Aroclor 1232 (2)	6.296	3144166	1208.025	ng/ml
15)	Aroclor 1232 (3)	6.787	5286141	1080.577	ng/ml
16)	Aroclor 1232 (4)	6.999	2545156	1504.374	ng/ml
17)	Aroclor 1232 (5)	7.045	2805864	1348.425	ng/ml
18)	Aroclor 1232 (6)	7.170	2781085	1281.798	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.296	3144166	691.583	ng/ml
21)	Aroclor 1242 (2)	6.787	5286141	599.169	ng/ml
22)	Aroclor 1242 (3)	6.914	2331567	608.737	ng/ml
23)	Aroclor 1242 (4)	6.999	2545156	770.421	ng/ml
24)	Aroclor 1242 (5)	7.045	2805864	702.532	ng/ml
25)	Aroclor 1242 (6)	7.170	2781085	666.797	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.759	4524765	876.548	ng/ml
28)	Aroclor 1248 (2)	6.999	2545156	400.223	ng/ml
29)	Aroclor 1248 (3)	7.045	2805864	472.704	ng/ml
30)	Aroclor 1248 (4)	7.170	2781085	381.205	ng/ml
31)	Aroclor 1248 (5)	7.536	619130	69.552	ng/ml
32)	Aroclor 1248 (6)	7.693	2353719	289.111	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.512	1913046	225.759	ng/ml
35)	Aroclor 1254 (2)	7.693	2353719	169.213	ng/ml
36)	Aroclor 1254 (3)	8.004	1356202	89.375	ng/ml
37)	Aroclor 1254 (4)	8.243	945379	86.601	ng/ml
38)	Aroclor 1254 (5)	8.579	7137687	634.537	ng/ml
39)	Aroclor 1254 (6)	8.824	4897107	1388.391	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	8.139	5594802	531.428	ng/ml
42)	Aroclor 1260 (2)	8.346	7157014	560.786	ng/ml
43)	Aroclor 1260 (3)	8.579	7137687	538.240	ng/ml
44)	Aroclor 1260 (4)	9.062	11262542	532.446	ng/ml
45)	Aroclor 1260 (5)	9.320	6849504	559.841	ng/ml
46)	Aroclor 1260 (6)	9.883	2682883	549.776	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B19023\
Data File : ECD2R002.D
Signal(s) : ECD2B.CH
Acq On : 19 Feb 2020 7:54
Operator : MJB / KAK
Sample : 0B19023-CCV1
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 19 10:13:19 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

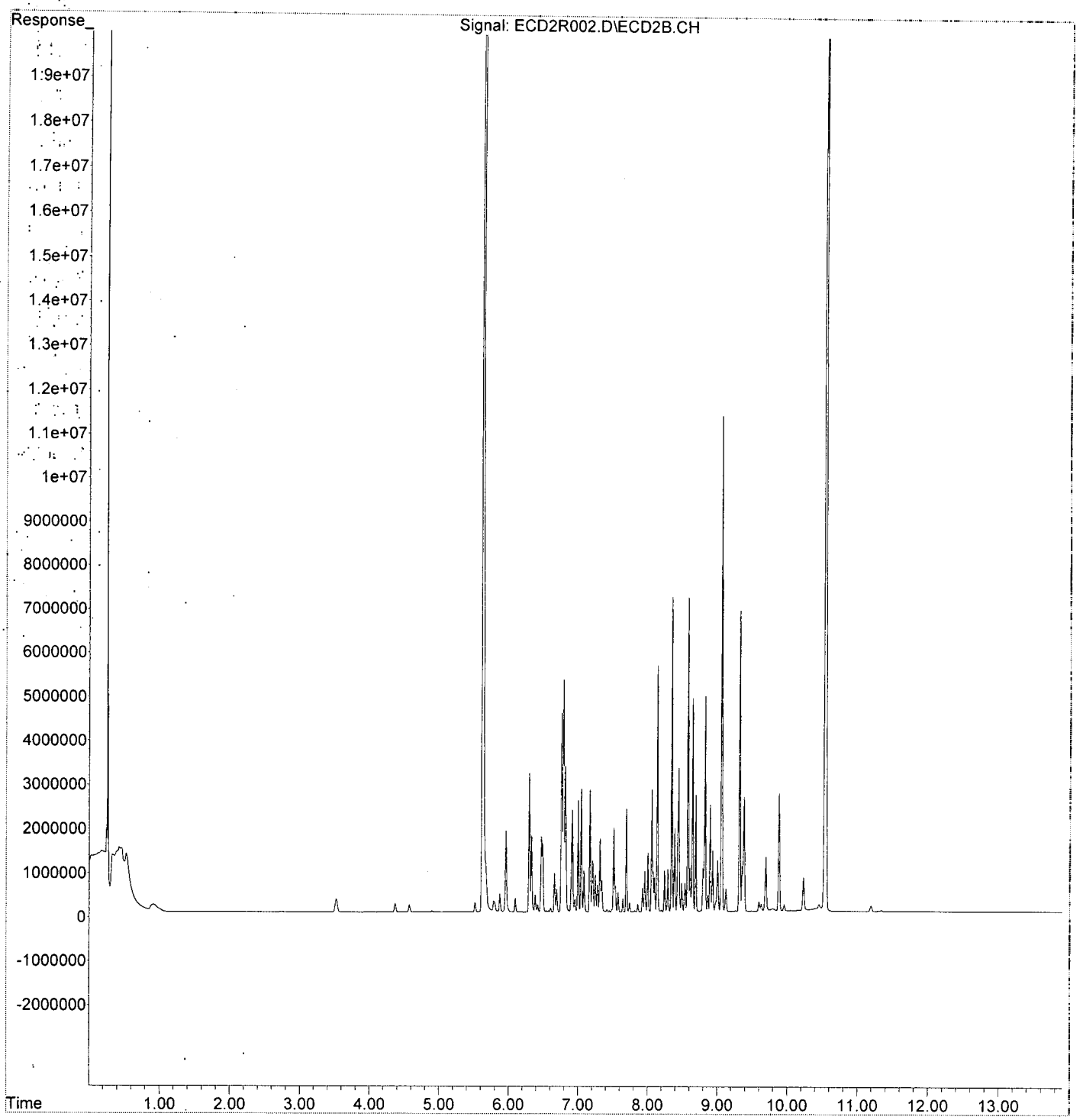
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	8.346	7157014	676.998 ng/ml
49)	Aroclor 1262 (2)	8.646	4856935	317.914 ng/ml
50)	Aroclor 1262 (3)	8.824	4897107	382.461 ng/ml
51)	Aroclor 1262 (4)	9.062	11262542	409.181 ng/ml
52)	Aroclor 1262 (5)	9.320	6849504	417.155 ng/ml
53)	Aroclor 1262 (6)	9.883	2682883	372.595 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.864	386299	61.985 ng/ml
56)	Aroclor 1268 (2)	9.320	6849504	246.682 ng/ml
57)	Aroclor 1268 (3)	9.383	2605001	115.694 ng/ml
58)	Aroclor 1268 (4)	9.597	239577	12.443 ng/ml
59)	Aroclor 1268 (5)	9.883	2682883	342.940 ng/ml
60)	Aroclor 1268 (6)	10.232	787245	15.554 ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D. ng/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B19023\
Data File : ECD2R002.D
Signal(s) : ECD2B.CH
Acq On : 19 Feb 2020 7:54
Operator : MJB / KAK
Sample : 0B19023-CCV1
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 19 10:13:19 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B19023\
Data File : ECD2R003.D
Signal(s) : ECD2B.CH
Acq On : 19 Feb 2020 8:11
Operator : MJB / KAK
Sample : 0B19023-CCB1
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 19 10:13:40 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

2/19/20
clean

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	5.626	19295486	85.520	ng/ml
62)	S DCBP (S)	10.541	11160992	100.347	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.294	848	0.137	ng/ml
3)	Aroclor 1016 (2)	6.781	682	0.060	ng/ml
4)	Aroclor 1016 (3)	6.918	866	0.162	ng/ml
5)	Aroclor 1016 (4)	6.995	909	0.184	ng/ml
6)	Aroclor 1016 (5)	7.047	1409	0.254	ng/ml
7)	Aroclor 1016 (6)	7.176	1165	0.204	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.833	10464	6.022	ng/ml
10)	Aroclor 1221 (2)	5.873	7907	4.605	ng/ml
11)	Aroclor 1221 (3)	5.946	31484	5.517	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.946	31484	6.889	ng/ml
14)	Aroclor 1232 (2)	6.294	848	0.326	ng/ml
15)	Aroclor 1232 (3)	6.781	682	0.139	ng/ml
16)	Aroclor 1232 (4)	6.995	909	0.537	ng/ml
17)	Aroclor 1232 (5)	7.047	1409	0.677	ng/ml
18)	Aroclor 1232 (6)	7.176	1165	0.537	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.294	848	0.186	ng/ml
21)	Aroclor 1242 (2)	6.781	682	0.077	ng/ml
22)	Aroclor 1242 (3)	6.918	866	0.226	ng/ml
23)	Aroclor 1242 (4)	6.995	909	0.275	ng/ml
24)	Aroclor 1242 (5)	7.047	1409	0.353	ng/ml
25)	Aroclor 1242 (6)	7.176	1165	0.279	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.770	830	0.161	ng/ml
28)	Aroclor 1248 (2)	6.995	909	0.143	ng/ml
29)	Aroclor 1248 (3)	7.047	1409	0.237	ng/ml
30)	Aroclor 1248 (4)	7.176	1165	0.160	ng/ml
31)	Aroclor 1248 (5)	7.533	1353	0.152	ng/ml
32)	Aroclor 1248 (6)	7.702	2965	0.364	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.510	1472	0.174	ng/ml
35)	Aroclor 1254 (2)	7.702	2965	0.213	ng/ml
36)	Aroclor 1254 (3)	8.005	8579	0.565	ng/ml
37)	Aroclor 1254 (4)	8.246	9612	0.881	ng/ml
38)	Aroclor 1254 (5)	8.578	15204	1.352	ng/ml
39)	Aroclor 1254 (6)	8.814	14526	4.118	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	8.142	8902	0.846	ng/ml
42)	Aroclor 1260 (2)	8.348	13566	1.063	ng/ml
43)	Aroclor 1260 (3)	8.578	15204	1.146	ng/ml
44)	Aroclor 1260 (4)	9.060	16685	0.789	ng/ml
45)	Aroclor 1260 (5)	9.319	19403	1.586	ng/ml
46)	Aroclor 1260 (6)	9.885	27712	5.679	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B19023\
Data File : ECD2R003.D
Signal(s) : ECD2B.CH
Acq On : 19 Feb 2020 8:11
Operator : MJB / KAK
Sample : 0B19023-CCB1
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 19 10:13:40 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

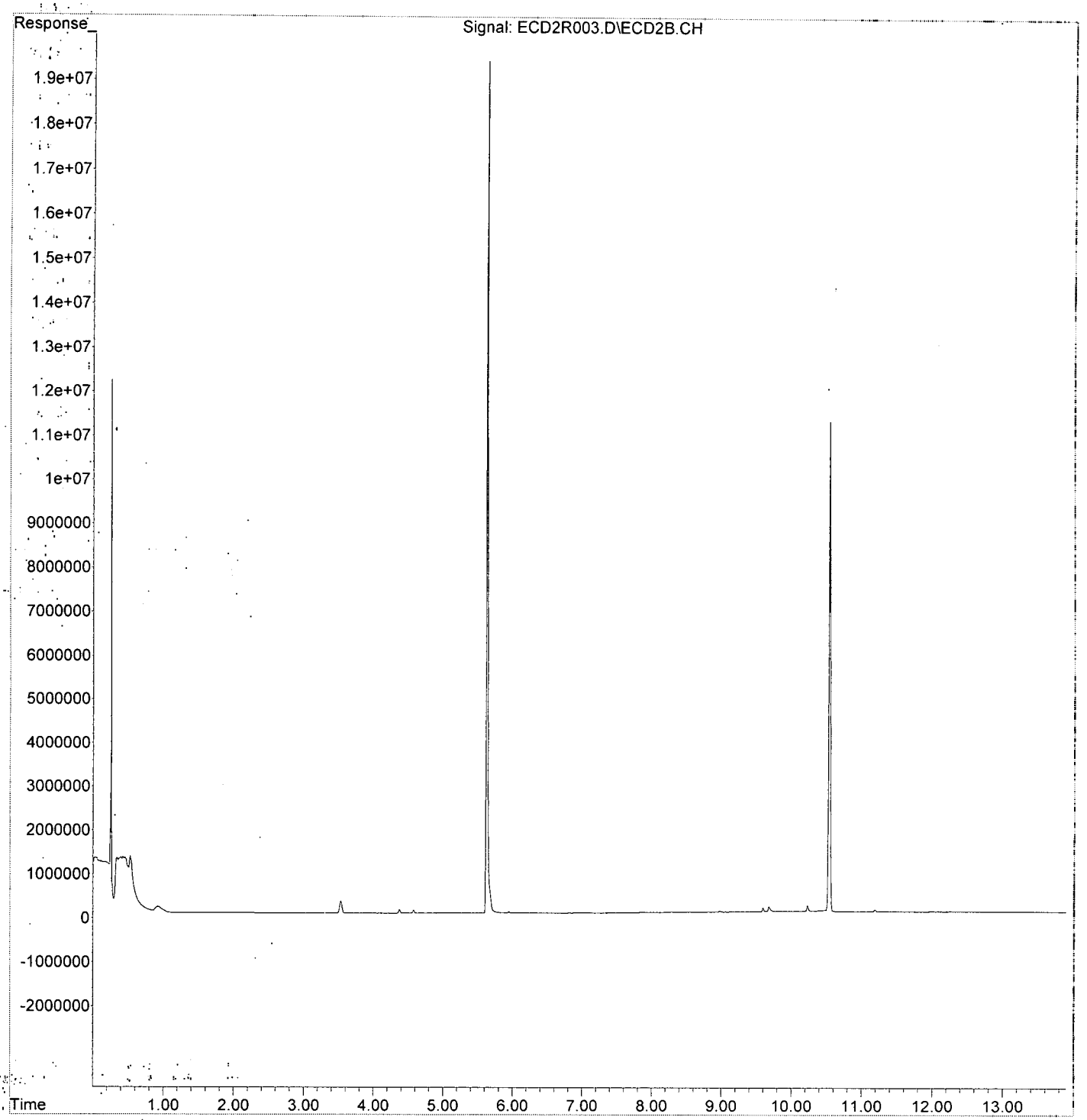
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	8.348	13566	1.283	ng/ml
49)	Aroclor 1262 (2)	8.645	14415	0.944	ng/ml
50)	Aroclor 1262 (3)	8.823	14734	1.151	ng/ml
51)	Aroclor 1262 (4)	9.060	16685	0.606	ng/ml
52)	Aroclor 1262 (5)	9.319	19403	1.182	ng/ml
53)	Aroclor 1262 (6)	9.885	27712	3.849	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	8.873	13792	2.213	ng/ml
56)	Aroclor 1268 (2)	9.319	19403	0.699	ng/ml
57)	Aroclor 1268 (3)	9.384	18533	0.823	ng/ml
58)	Aroclor 1268 (4)	9.597	109979	5.712	ng/ml
59)	Aroclor 1268 (5)	9.885	27712	3.542	ng/ml
60)	Aroclor 1268 (6)	10.231	155423	3.071	ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B19023\
Data File : ECD2R003.D
Signal(s) : ECD2B.CH
Acq On : 19 Feb 2020 8:11
Operator : MJB / KAK
Sample : 0B19023-CCB1
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 19 10:13:40 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B19023\
Data File : ECD2R004.D
Signal(s) : ECD2B.CH
Acq On : 19 Feb 2020 8:31
Operator : MJB / KAK
Sample : 0020497-BLK1
Misc :
ALS Vial : 54 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 19 10:14:02 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

2/19/20
clean

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	5.625	32619244	144.572	ng/ml
62)	S DCBP (S)	10.542	26227221	235.806	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.298	2493	0.403	ng/ml
3)	Aroclor 1016 (2)	6.790	2900	0.253	ng/ml
4)	Aroclor 1016 (3)	6.918	1687	0.315	ng/ml
5)	Aroclor 1016 (4)	7.002	2177	0.441	ng/ml
6)	Aroclor 1016 (5)	7.046	2308	0.416	ng/ml
7)	Aroclor 1016 (6)	7.169	2520	0.441	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.832	12846	7.393	ng/ml
10)	Aroclor 1221 (2)	5.889	9316	5.426	ng/ml
11)	Aroclor 1221 (3)	5.932	601174	105.339	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.932	601174	131.548	ng/ml
14)	Aroclor 1232 (2)	6.298	2493	0.958	ng/ml
15)	Aroclor 1232 (3)	6.790	2900	0.593	ng/ml
16)	Aroclor 1232 (4)	7.002	2177	1.287	ng/ml
17)	Aroclor 1232 (5)	7.046	2308	1.109	ng/ml
18)	Aroclor 1232 (6)	7.169	2520	1.162	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.298	2493	0.548	ng/ml
21)	Aroclor 1242 (2)	6.790	2900	0.329	ng/ml
22)	Aroclor 1242 (3)	6.918	1687	0.440	ng/ml
23)	Aroclor 1242 (4)	7.002	2177	0.659	ng/ml
24)	Aroclor 1242 (5)	7.046	2308	0.578	ng/ml
25)	Aroclor 1242 (6)	7.169	2520	0.604	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.761	2973	0.576	ng/ml
28)	Aroclor 1248 (2)	7.002	2177	0.342	ng/ml
29)	Aroclor 1248 (3)	7.046	2308	0.389	ng/ml
30)	Aroclor 1248 (4)	7.169	2520	0.345	ng/ml
31)	Aroclor 1248 (5)	7.538	1530	0.172	ng/ml
32)	Aroclor 1248 (6)	7.698	3087	0.379	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.513	2160	0.255	ng/ml
35)	Aroclor 1254 (2)	7.698	3087	0.222	ng/ml
36)	Aroclor 1254 (3)	8.006	6160	0.406	ng/ml
37)	Aroclor 1254 (4)	8.245	1877	0.172	ng/ml
38)	Aroclor 1254 (5)	8.578	10162	0.903	ng/ml
39)	Aroclor 1254 (6)	8.823	6469	1.834	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	8.140	7533	0.716	ng/ml
42)	Aroclor 1260 (2)	8.344	12913	1.012	ng/ml
43)	Aroclor 1260 (3)	8.578	10162	0.766	ng/ml
44)	Aroclor 1260 (4)	9.060	8257	0.390	ng/ml
45)	Aroclor 1260 (5)	9.322	9769	0.798	ng/ml
46)	Aroclor 1260 (6)	9.889	14337	2.938	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B19023\
Data File : ECD2R004.D
Signal(s) : ECD2B.CH
Acq On : 19 Feb 2020 8:31
Operator : MJB / KAK
Sample : 0020497-BLK1
Misc :
ALS Vial : 54 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 19 10:14:02 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

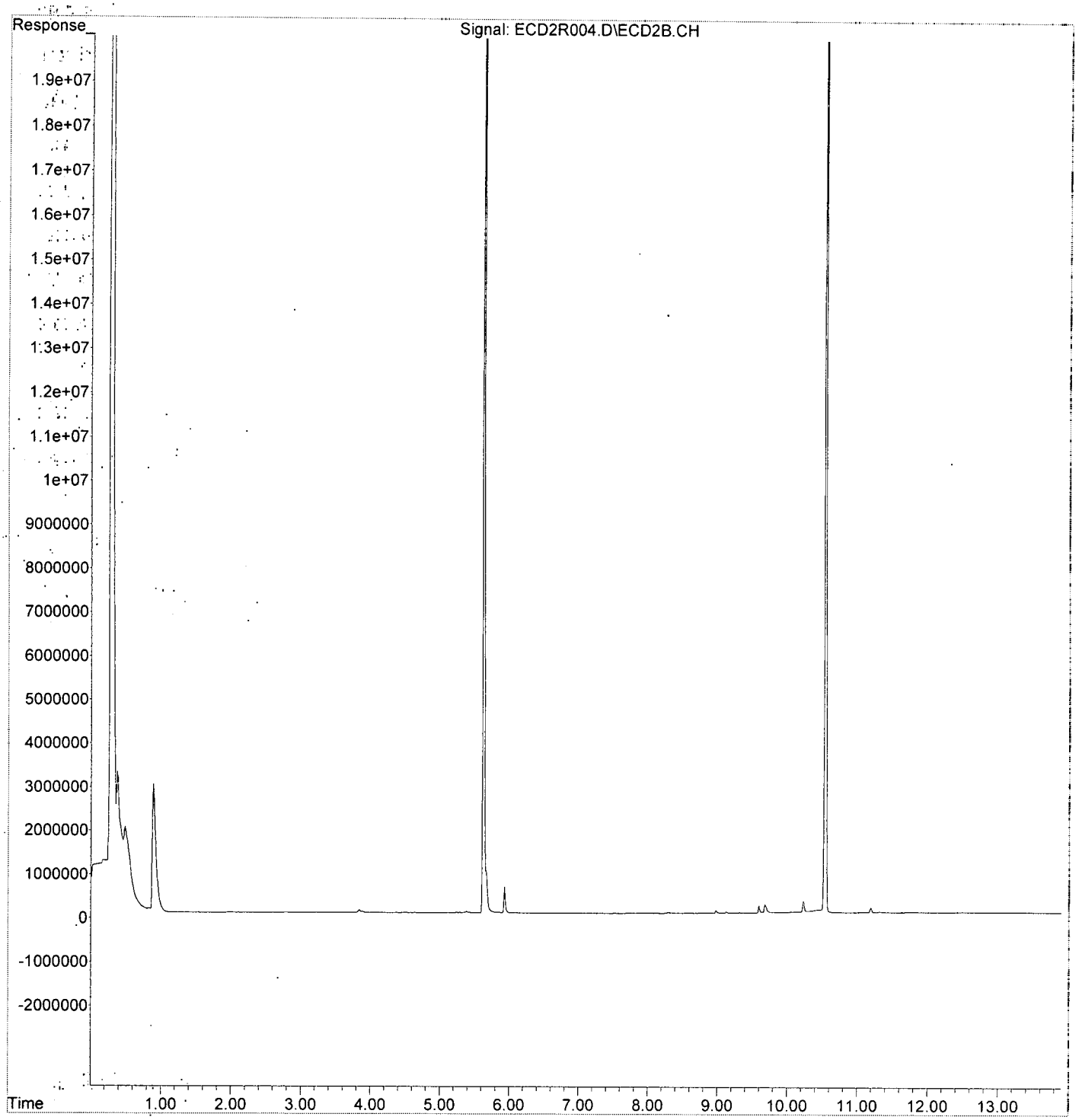
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	8.344	12913	1.221 ng/ml
49)	Aroclor 1262 (2)	8.647	6483	0.424 ng/ml
50)	Aroclor 1262 (3)	8.823	6469	0.505 ng/ml
51)	Aroclor 1262 (4)	9.060	8257	0.300 ng/ml
52)	Aroclor 1262 (5)	9.322	9769	0.595 ng/ml
53)	Aroclor 1262 (6)	9.889	14337	1.991 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.868	1454	0.233 ng/ml
56)	Aroclor 1268 (2)	9.322	9769	0.352 ng/ml
57)	Aroclor 1268 (3)	9.382	5326	0.237 ng/ml
58)	Aroclor 1268 (4)	9.598	167379	8.694 ng/ml
59)	Aroclor 1268 (5)	9.889	14337	1.833 ng/ml
60)	Aroclor 1268 (6)	10.233	260639	5.149 ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D. ng/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B19023\
Data File : ECD2R004.D
Signal(s) : ECD2B.CH
Acq On : 19 Feb 2020 8:31
Operator : MJB / KAK
Sample : 0020497-BLK1
Misc :
ALS Vial : 54 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 19 10:14:02 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B19023\
Data File : ECD2R005.D
Signal(s) : ECD2B.CH
Acq On : 19 Feb 2020 8:49
Operator : MJB / KAK
Sample : 0020497-BS1
Misc :
ALS Vial : 55 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 19 10:14:24 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

2/19/20

	Compound	R.T.	Response	Conc	Units
System Monitoring Compounds					
1) S	TCMX (S)	5.626	34608710	153.390	ng/ml
62) S	DCBP (S)	10.541	28689436	257.944	ng/ml
Target Compounds					
2)	Aroclor 1016 (1)	6.297	4694441	759.375	ng/ml
3)	Aroclor 1016 (2)	6.788	8587721	750.586	ng/ml
4)	Aroclor 1016 (3)	6.915	3321614	620.108	ng/ml
5)	Aroclor 1016 (4)	7.000	4216086	853.327	ng/ml
6)	Aroclor 1016 (5)	7.045	4721508	851.410	ng/ml
7)	Aroclor 1016 (6)	7.171	4159014	728.045	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.800	306447	176.370	ng/ml
10)	Aroclor 1221 (2)	5.875	561582	327.076	ng/ml
11)	Aroclor 1221 (3)	5.962	2557409	448.117	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.962	2557409	559.608	ng/ml
14)	Aroclor 1232 (2)	6.297	4694441	1803.658	ng/ml
15)	Aroclor 1232 (3)	6.788	8587721	1755.477	ng/ml
16)	Aroclor 1232 (4)	7.000	4216086	2492.016	ng/ml
17)	Aroclor 1232 (5)	7.045	4721508	2269.034	ng/ml
18)	Aroclor 1232 (6)	7.171	4159014	1916.883	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.297	4694441	1032.578	ng/ml
21)	Aroclor 1242 (2)	6.788	8587721	973.394	ng/ml
22)	Aroclor 1242 (3)	6.915	3321614	867.224	ng/ml
23)	Aroclor 1242 (4)	7.000	4216086	1276.213	ng/ml
24)	Aroclor 1242 (5)	7.045	4721508	1182.171	ng/ml
25)	Aroclor 1242 (6)	7.171	4159014	997.171	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.761	7247696	1404.040	ng/ml
28)	Aroclor 1248 (2)	7.000	4216086	662.974	ng/ml
29)	Aroclor 1248 (3)	7.045	4721508	795.432	ng/ml
30)	Aroclor 1248 (4)	7.171	4159014	570.079	ng/ml
31)	Aroclor 1248 (5)	7.536	1041479	116.997	ng/ml
32)	Aroclor 1248 (6)	7.694	4178433	513.244	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.512	3364106	396.999	ng/ml
35)	Aroclor 1254 (2)	7.694	4178433	300.394	ng/ml
36)	Aroclor 1254 (3)	8.004	2045795	134.819	ng/ml
37)	Aroclor 1254 (4)	8.244	1533319	140.459	ng/ml
38)	Aroclor 1254 (5)	8.579	13162440	1170.134	ng/ml
39)	Aroclor 1254 (6)	8.824	9956763	2822.866	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	8.140	10787253	1024.639	ng/ml
42)	Aroclor 1260 (2)	8.346	13762650	1078.370	ng/ml
43)	Aroclor 1260 (3)	8.579	13162440	992.556	ng/ml
44)	Aroclor 1260 (4)	9.061	24841784	1174.415	ng/ml
45)	Aroclor 1260 (5)	9.319	13441784	1098.658	ng/ml
46)	Aroclor 1260 (6)	9.884	5600829	1147.721	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B19023\
Data File : ECD2R005.D
Signal(s) : ECD2B.CH
Acq On : 19 Feb 2020 8:49
Operator : MJB / KAK
Sample : 0020497-BS1
Misc :
ALS Vial : 55 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 19 10:14:24 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

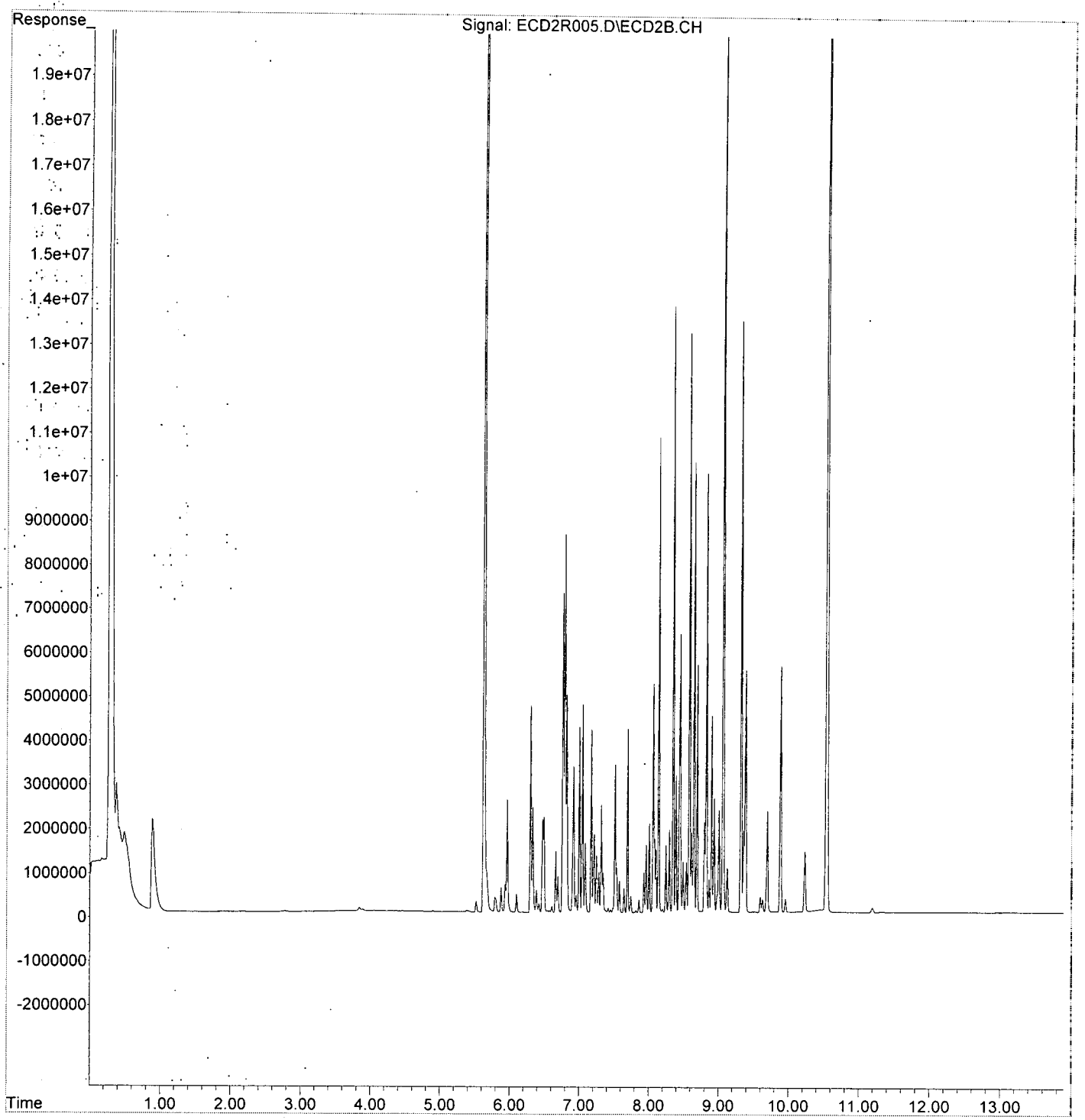
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	8.346	13762650	1301.839	ng/ml
49)	Aroclor 1262 (2)	8.647	10233920	669.869	ng/ml
50)	Aroclor 1262 (3)	8.824	9956763	777.617	ng/ml
51)	Aroclor 1262 (4)	9.061	24841784	902.530	ng/ml
52)	Aroclor 1262 (5)	9.319	13441784	818.645	ng/ml
53)	Aroclor 1262 (6)	9.884	5600829	777.835	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	8.864	753728	120.942	ng/ml
56)	Aroclor 1268 (2)	9.319	13441784	484.100	ng/ml
57)	Aroclor 1268 (3)	9.383	5508704	244.654	ng/ml
58)	Aroclor 1268 (4)	9.596	353391	18.355	ng/ml
59)	Aroclor 1268 (5)	9.884	5600829	715.927	ng/ml
60)	Aroclor 1268 (6)	10.231	1394666	27.554	ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B19023\
Data File : ECD2R005.D
Signal(s) : ECD2B.CH
Acq On : 19 Feb 2020 8:49
Operator : MJB / KAK
Sample : 0020497-BS1
Misc :
ALS Vial : 55 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 19 10:14:24 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B19023\
Data File : ECD2R006.D
Signal(s) : ECD2B,CH 4
Acq On : 19 Feb 2020 9:06
Operator : MJB / KAK
Sample : A0B0411-01
Misc :
ALS Vial : 56 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 19 10:14:44 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

2/19/20

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	5.625	31135345	137.995	ng/ml
62)	S DCBP (S)	10.540	23320006	209.668	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.297	5257	0.850	ng/ml
3)	Aroclor 1016 (2)	6.786	5876	0.514	ng/ml
4)	Aroclor 1016 (3)	6.916	4487	0.838	ng/ml
5)	Aroclor 1016 (4)	7.001	6344	1.284	ng/ml
6)	Aroclor 1016 (5)	7.045	7000	1.262	ng/ml
7)	Aroclor 1016 (6)	7.174	7696	1.347	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	0.000	0	N.D.	ng/ml
10)	Aroclor 1221 (2)	5.901	551	0.321	ng/ml N.P.M
11)	Aroclor 1221 (3)	5.933	570377	99.943	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.933	570377	124.809	ng/ml
14)	Aroclor 1232 (2)	6.297	5257	2.020	ng/ml
15)	Aroclor 1232 (3)	6.786	5876	1.201	ng/ml
16)	Aroclor 1232 (4)	7.001	6344	3.750	ng/ml
17)	Aroclor 1232 (5)	7.045	7000	3.364	ng/ml
18)	Aroclor 1232 (6)	7.174	7696	3.547	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.297	5257	1.156	ng/ml
21)	Aroclor 1242 (2)	6.786	5876	0.666	ng/ml
22)	Aroclor 1242 (3)	6.916	4487	1.172	ng/ml
23)	Aroclor 1242 (4)	7.001	6344	1.920	ng/ml
24)	Aroclor 1242 (5)	7.045	7000	1.753	ng/ml
25)	Aroclor 1242 (6)	7.174	7696	1.845	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.762	6403	1.240	ng/ml
28)	Aroclor 1248 (2)	7.001	6344	0.998	ng/ml
29)	Aroclor 1248 (3)	7.045	7000	1.179	ng/ml
30)	Aroclor 1248 (4)	7.174	7696	1.055	ng/ml
31)	Aroclor 1248 (5)	7.538	7574	0.851	ng/ml
32)	Aroclor 1248 (6)	7.694	10889	1.338	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.514	8689	1.025	ng/ml
35)	Aroclor 1254 (2)	7.694	10889	0.783	ng/ml
36)	Aroclor 1254 (3)	8.005	11598	0.764	ng/ml
37)	Aroclor 1254 (4)	8.241	6539	0.599	ng/ml
38)	Aroclor 1254 (5)	8.577	12784	1.137	ng/ml
39)	Aroclor 1254 (6)	8.824	6888	1.953	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	8.141	12157	1.155	ng/ml
42)	Aroclor 1260 (2)	8.344	16708	1.309	ng/ml
43)	Aroclor 1260 (3)	8.577	12784	0.964	ng/ml
44)	Aroclor 1260 (4)	9.060	11680	0.552	ng/ml
45)	Aroclor 1260 (5)	9.319	11414	0.933	ng/ml
46)	Aroclor 1260 (6)	9.886	12486	2.559	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B19023\
Data File : ECD2R006.D
Signal(s) : ECD2B.CH
Acq On : 19 Feb 2020 9:06
Operator : MJB / KAK
Sample : A0B0411-01
Misc :
ALS Vial : 56 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 19 10:14:44 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

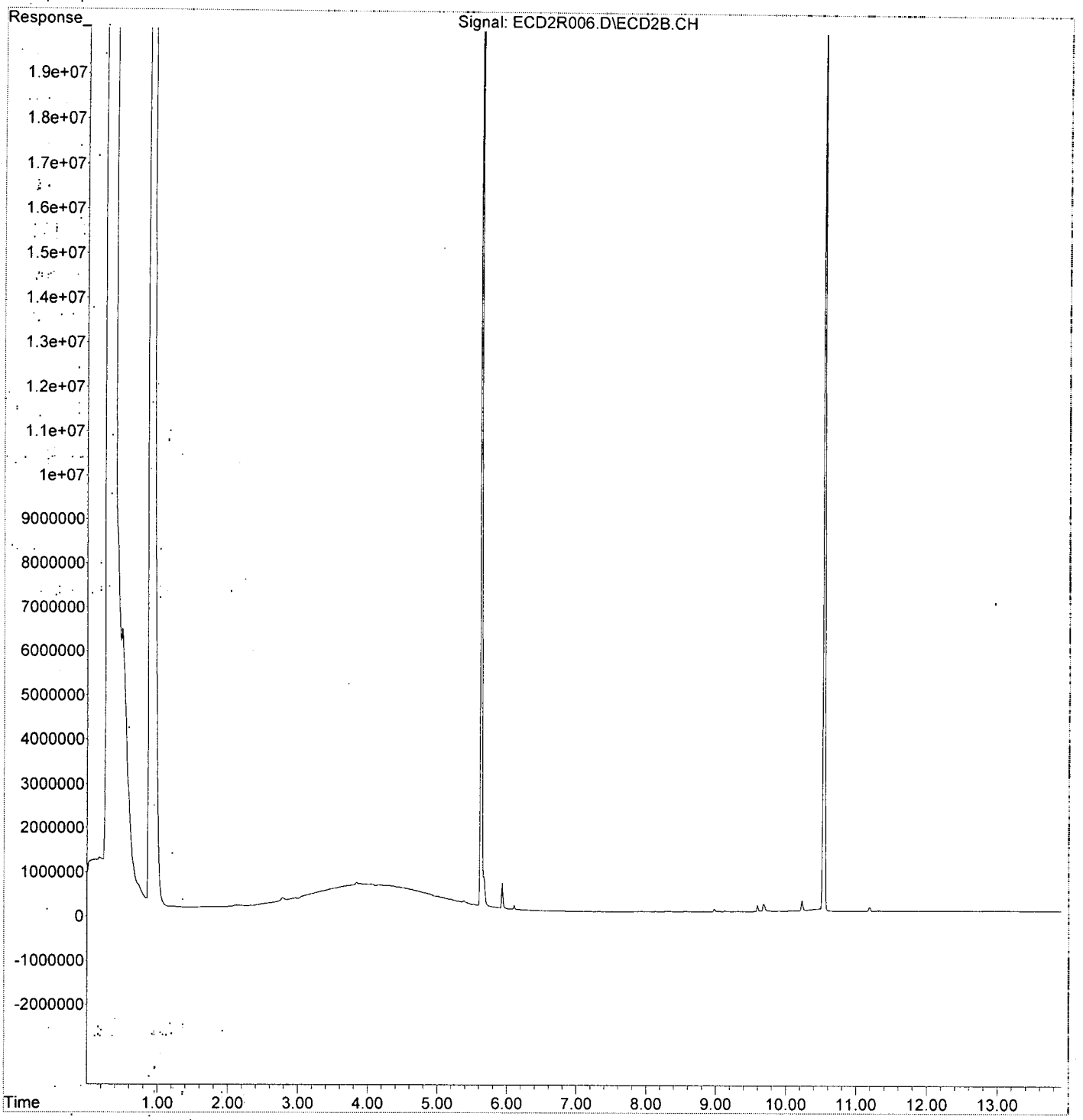
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	8.344	16708	1.580 ng/ml
49)	Aroclor 1262 (2)	8.645	8727	0.571 ng/ml
50)	Aroclor 1262 (3)	8.824	6888	0.538 ng/ml
51)	Aroclor 1262 (4)	9.060	11680	0.424 ng/ml
52)	Aroclor 1262 (5)	9.319	11414	0.695 ng/ml
53)	Aroclor 1262 (6)	9.886	12486	1.734 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.866	2036	0.327 ng/ml
56)	Aroclor 1268 (2)	9.319	11414	0.411 ng/ml
57)	Aroclor 1268 (3)	9.383	4817	0.214 ng/ml
58)	Aroclor 1268 (4)	9.597	150253	7.804 ng/ml
59)	Aroclor 1268 (5)	9.886	12486	1.596 ng/ml
60)	Aroclor 1268 (6)	10.233	248106	4.902 ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D. ng/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B19023\
Data File : ECD2R006.D
Signal(s) : ECD2B.CH
Acq On : 19 Feb 2020 9:06
Operator : MJB / KAK
Sample : A0B0411-01
Misc. :
ALS Vial : 56 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 19 10:14:44 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B19023\
Data File : ECD2R008.D
Signal(s) : ECD2B.CH
Acq On : 19 Feb 2020 9:41
Operator : MJB / KAK
Sample : 0020497-DUP1
Misc :
ALS Vial : 57 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 19 10:15:06 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

2/19/20

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	5.627	36210508	160.489	ng/ml
62)	S DCBP (S)	10.540	27909492	250.931	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.297	5814	0.940	ng/ml
3)	Aroclor 1016 (2)	6.786	5679	0.496	ng/ml
4)	Aroclor 1016 (3)	6.913	6118	1.142	ng/ml
5)	Aroclor 1016 (4)	7.003	6549	1.326	ng/ml
6)	Aroclor 1016 (5)	7.047	6544	1.180	ng/ml
7)	Aroclor 1016 (6)	7.172	7447	1.304	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.844f	12394	7.133	ng/ml
10)	Aroclor 1221 (2)	5.878	10798	6.289	ng/ml
11)	Aroclor 1221 (3)	5.933	682126	119.524	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.933	682126	149.262	ng/ml
14)	Aroclor 1232 (2)	6.297	5814	2.234	ng/ml
15)	Aroclor 1232 (3)	6.786	5679	1.161	ng/ml
16)	Aroclor 1232 (4)	7.003	6549	3.871	ng/ml
17)	Aroclor 1232 (5)	7.047	6544	3.145	ng/ml
18)	Aroclor 1232 (6)	7.172	7447	3.432	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.297	5814	1.279	ng/ml
21)	Aroclor 1242 (2)	6.786	5679	0.644	ng/ml
22)	Aroclor 1242 (3)	6.913	6118	1.597	ng/ml
23)	Aroclor 1242 (4)	7.003	6549	1.982	ng/ml
24)	Aroclor 1242 (5)	7.047	6544	1.638	ng/ml
25)	Aroclor 1242 (6)	7.172	7447	1.786	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.757	6543	1.268	ng/ml
28)	Aroclor 1248 (2)	7.003	6549	1.030	ng/ml
29)	Aroclor 1248 (3)	7.047	6544	1.102	ng/ml
30)	Aroclor 1248 (4)	7.172	7447	1.021	ng/ml
31)	Aroclor 1248 (5)	7.537	8044	0.904	ng/ml
32)	Aroclor 1248 (6)	7.696	9343	1.148	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.512	8385	0.989	ng/ml
35)	Aroclor 1254 (2)	7.696	9343	0.672	ng/ml
36)	Aroclor 1254 (3)	8.018	9532	0.628	ng/ml
37)	Aroclor 1254 (4)	8.244	6428	0.589	ng/ml
38)	Aroclor 1254 (5)	8.577	10685	0.950	ng/ml
39)	Aroclor 1254 (6)	8.812	5571	1.579	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	8.142	9068	0.861	ng/ml
42)	Aroclor 1260 (2)	8.342	13952	1.093	ng/ml
43)	Aroclor 1260 (3)	8.577	10685	0.806	ng/ml
44)	Aroclor 1260 (4)	9.058	5634	0.266	ng/ml
45)	Aroclor 1260 (5)	9.321	9179	0.750	ng/ml
46)	Aroclor 1260 (6)	9.885	12305	2.521	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B19023\
Data File : ECD2R008.D
Signal(s) : ECD2B.CH
Acq On : 19 Feb 2020 9:41
Operator : MJB / KAK
Sample : 0020497-DUP1
Misc :
ALS Vial : 57 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 19 10:15:06 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

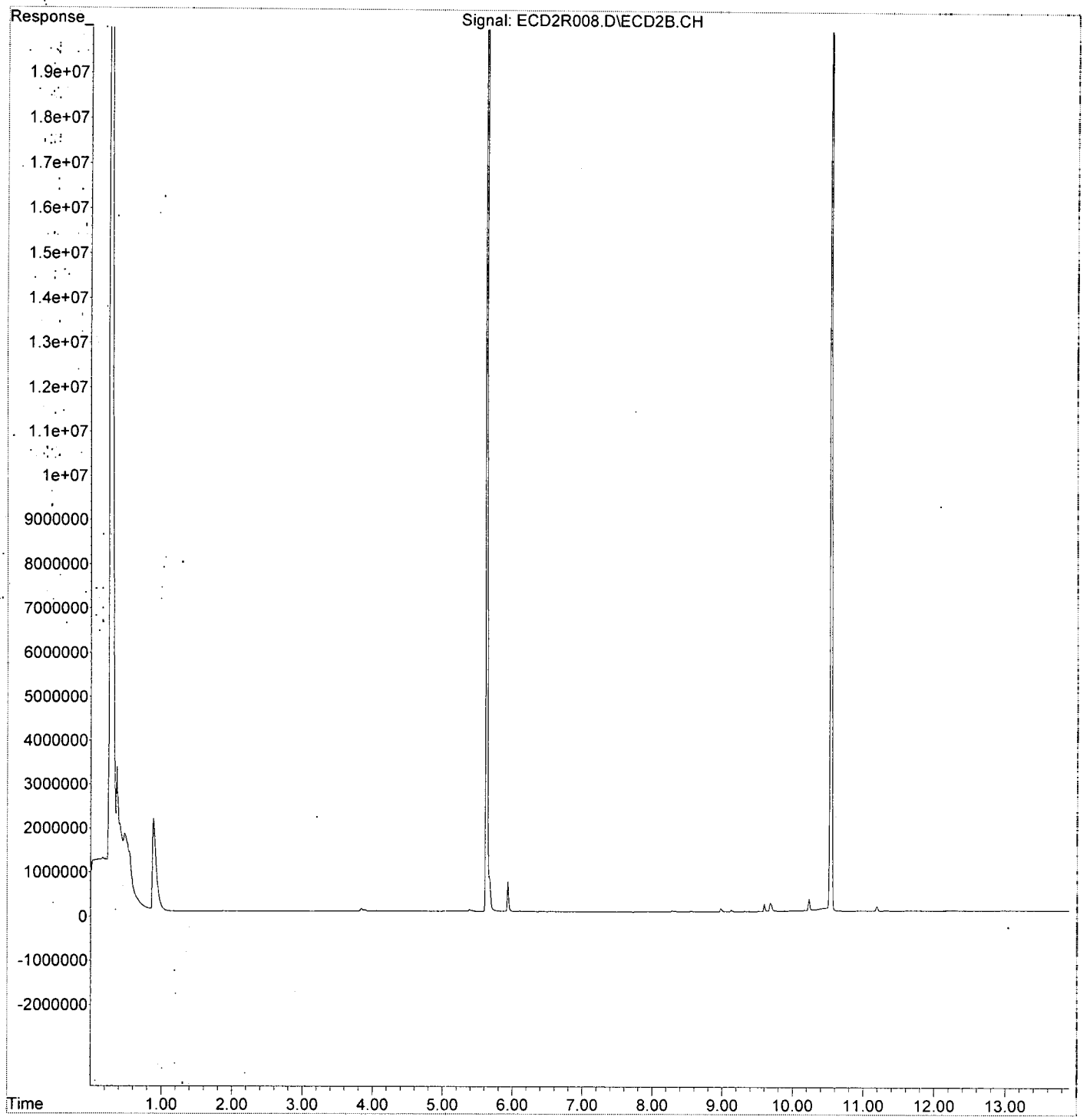
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	8.342	13952	1.320 ng/ml
49)	Aroclor 1262 (2)	8.643	5935	0.388 ng/ml
50)	Aroclor 1262 (3)	8.818	5750	0.449 ng/ml
51)	Aroclor 1262 (4)	9.058	5634	0.205 ng/ml
52)	Aroclor 1262 (5)	9.321	9179	0.559 ng/ml
53)	Aroclor 1262 (6)	9.885	12305	1.709 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.871	3072	0.493 ng/ml
56)	Aroclor 1268 (2)	9.321	9179	0.331 ng/ml
57)	Aroclor 1268 (3)	9.383	3647	0.162 ng/ml
58)	Aroclor 1268 (4)	9.598	171760	8.921 ng/ml
59)	Aroclor 1268 (5)	9.885	12305	1.573 ng/ml
60)	Aroclor 1268 (6)	10.232	275897	5.451 ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D. ng/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B19023\
Data File : ECD2R008.D
Signal(s) : ECD2B.CH
Acq On : 19 Feb 2020 9:41
Operator : MJB / KAK
Sample : 0020497-DUP1
Misc :
ALS Vial : 57 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 19 10:15:06 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B19023\
Data File : ECD2R010.D
Signal(s) : ECD2B.CH
Acq On : 19 Feb 2020 10:18
Operator : MJB / KAK
Sample : A0B0411-02
Misc :
ALS Vial : 58 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 19 10:47:50 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

2/19/20

		Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds							
1)	S	TCMX (S)	5.624	31090674	137.797	ng/ml	
62)	S	DCBP (S)	10.540	23702582	213.107	ng/ml	
Target Compounds							
2)		Aroclor 1016 (1)	6.297	2104	0.340	ng/ml	
3)		Aroclor 1016 (2)	6.789	2552	0.223	ng/ml	
4)		Aroclor 1016 (3)	6.921	2152	0.402	ng/ml	
5)		Aroclor 1016 (4)	7.005	2310	0.468	ng/ml	
6)		Aroclor 1016 (5)	7.049	2076	0.374	ng/ml	
7)		Aroclor 1016 (6)	7.170	2462	0.431	ng/ml	
8)		Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml	
9)		Aroclor 1221 (1)	5.860f	3319	1.910	ng/ml	
10)		Aroclor 1221 (2)	5.880	2357	1.373	ng/ml	N.P.M.
11)		Aroclor 1221 (3)	5.931	587818	102.999	ng/ml	
12)		Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml	
13)		Aroclor 1232 (1)	5.931	587818	128.625	ng/ml	
14)		Aroclor 1232 (2)	6.297	2104	0.808	ng/ml	
15)		Aroclor 1232 (3)	6.789	2552	0.522	ng/ml	
16)		Aroclor 1232 (4)	7.005	2310	1.365	ng/ml	
17)		Aroclor 1232 (5)	7.049	2076	0.998	ng/ml	
18)		Aroclor 1232 (6)	7.170	2462	1.135	ng/ml	
19)		Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml	
20)		Aroclor 1242 (1)	6.297	2104	0.463	ng/ml	
21)		Aroclor 1242 (2)	6.789	2552	0.289	ng/ml	
22)		Aroclor 1242 (3)	6.911	2122	0.554	ng/ml	
23)		Aroclor 1242 (4)	7.005	2310	0.699	ng/ml	
24)		Aroclor 1242 (5)	7.049	2076	0.520	ng/ml	
25)		Aroclor 1242 (6)	7.170	2462	0.590	ng/ml	
26)		Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml	
27)		Aroclor 1248 (1)	6.757	3547	0.687	ng/ml	
28)		Aroclor 1248 (2)	7.005	2310	0.363	ng/ml	
29)		Aroclor 1248 (3)	7.049	2076	0.350	ng/ml	
30)		Aroclor 1248 (4)	7.170	2462	0.338	ng/ml	
31)		Aroclor 1248 (5)	7.539	2628	0.295	ng/ml	
32)		Aroclor 1248 (6)	7.697	3201	0.393	ng/ml	
33)		Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml	
34)		Aroclor 1254 (1)	7.509	2800	0.330	ng/ml	
35)		Aroclor 1254 (2)	7.697	3201	0.230	ng/ml	
36)		Aroclor 1254 (3)	7.999	12556	0.827	ng/ml	
37)		Aroclor 1254 (4)	8.228	12426	1.138	ng/ml	
38)		Aroclor 1254 (5)	8.578	24865	2.211	ng/ml	
39)		Aroclor 1254 (6)	8.813	27009	7.658	ng/ml	
40)		Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml	
41)		Aroclor 1260 (1)	8.132	13905	1.321	ng/ml	
42)		Aroclor 1260 (2)	8.341	23179	1.816	ng/ml	
43)		Aroclor 1260 (3)	8.578	24865	1.875	ng/ml	
44)		Aroclor 1260 (4)	9.074	33887	1.602	ng/ml	
45)		Aroclor 1260 (5)	9.320	42847	3.502	ng/ml	
46)		Aroclor 1260 (6)	9.884	60090	12.314	ng/ml	
47)		Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml	

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B19023\
Data File : ECD2R010.D
Signal(s) : ECD2B.CH
Acq On : 19 Feb 2020 10:18
Operator : MJB / KAK
Sample : A0B0411-02
Misc :
ALS Vial : 58 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 19 10:47:50 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

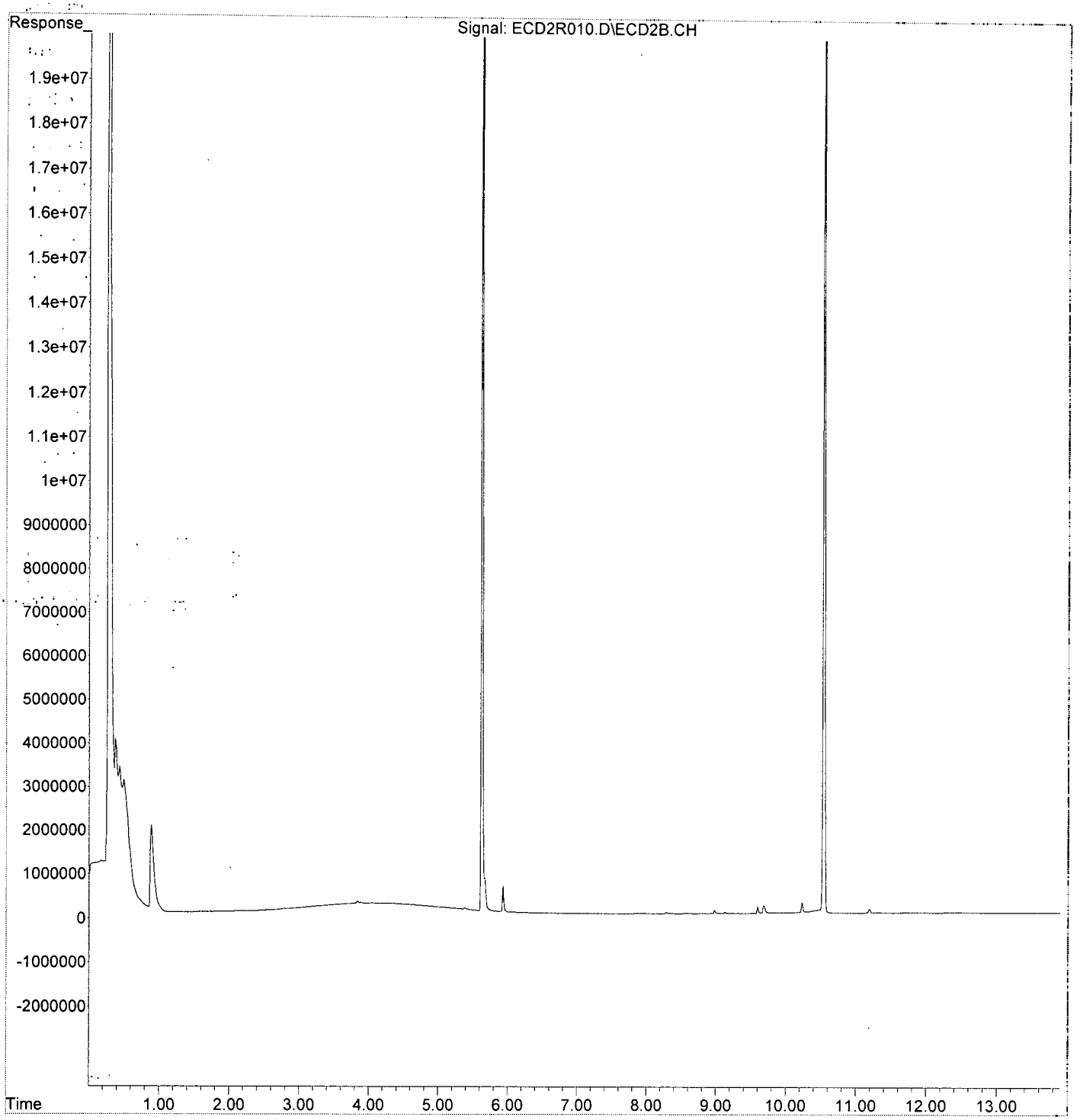
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	8.341	23179	2.193 ng/ml
49)	Aroclor 1262 (2)	8.646	22490	1.472 ng/ml
50)	Aroclor 1262 (3)	8.813	27009	2.109 ng/ml
51)	Aroclor 1262 (4)	9.074	33887	1.231 ng/ml
52)	Aroclor 1262 (5)	9.320	42847	2.609 ng/ml
53)	Aroclor 1262 (6)	9.884	60090	8.345 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.872	25837	4.146 ng/ml
56)	Aroclor 1268 (2)	9.320	42847	1.543 ng/ml
57)	Aroclor 1268 (3)	9.382	39503	1.754 ng/ml
58)	Aroclor 1268 (4)	9.597	193892	10.071 ng/ml
59)	Aroclor 1268 (5)	9.884	60090	7.681 ng/ml
60)	Aroclor 1268 (6)	10.233	298898	5.905 ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D. ng/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B19023\
Data File : ECD2R010.D
Signal(s) : ECD2B.CH
Acq On : 19 Feb 2020 10:18
Operator : MJB / KAK
Sample : A0B0411-02
Misc :
ALS Vial : 58 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 19 10:47:50 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B19023\
Data File : ECD2R012.D
Signal(s) : ECD2B.CH
Acq On : 19 Feb 2020 10:54
Operator : MJB / KAK
Sample : A0B0411-03
Misc :
ALS Vial : 59 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 19 11:09:38 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

2/19/20

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	5.625	27932899	123.802	ng/ml
62) S	DCBP (S)	10.538	23320621	209.673	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.304	1850	0.299	ng/ml
3)	Aroclor 1016 (2)	6.786	1778	0.155	ng/ml
4)	Aroclor 1016 (3)	6.914	1667	0.311	ng/ml
5)	Aroclor 1016 (4)	7.000	2406	0.487	ng/ml
6)	Aroclor 1016 (5)	7.050	2149	0.388	ng/ml
7)	Aroclor 1016 (6)	7.173	2729	0.478	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.800	11086	6.380	ng/ml
10)	Aroclor 1221 (2)	5.875	6794	3.957	ng/ml
11)	Aroclor 1221 (3)	5.932	552269	96.770	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.932	552269	120.847	ng/ml
14)	Aroclor 1232 (2)	6.295	2157	0.829	ng/ml
15)	Aroclor 1232 (3)	6.786	1778	0.363	ng/ml
16)	Aroclor 1232 (4)	7.000	2406	1.422	ng/ml
17)	Aroclor 1232 (5)	7.045	2240	1.077	ng/ml
18)	Aroclor 1232 (6)	7.173	2729	1.258	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.295	2157	0.474	ng/ml
21)	Aroclor 1242 (2)	6.786	1778	0.202	ng/ml
22)	Aroclor 1242 (3)	6.914	1667	0.435	ng/ml
23)	Aroclor 1242 (4)	7.000	2406	0.728	ng/ml
24)	Aroclor 1242 (5)	7.045	2240	0.561	ng/ml
25)	Aroclor 1242 (6)	7.173	2729	0.654	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.762	2079	0.403	ng/ml
28)	Aroclor 1248 (2)	7.000	2406	0.378	ng/ml
29)	Aroclor 1248 (3)	7.050	2149	0.362	ng/ml
30)	Aroclor 1248 (4)	7.173	2729	0.374	ng/ml
31)	Aroclor 1248 (5)	7.538	3410	0.383	ng/ml
32)	Aroclor 1248 (6)	7.692	5112	0.628	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.509	3436	0.405	ng/ml
35)	Aroclor 1254 (2)	7.692	5112	0.368	ng/ml
36)	Aroclor 1254 (3)	8.001	8931	0.589	ng/ml
37)	Aroclor 1254 (4)	8.243	6131	0.562	ng/ml
38)	Aroclor 1254 (5)	8.576	12815	1.139	ng/ml
39)	Aroclor 1254 (6)	8.820	9008	2.554	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	8.138	7499	0.712	ng/ml
42)	Aroclor 1260 (2)	8.341	13418	1.051	ng/ml
43)	Aroclor 1260 (3)	8.576	12815	0.966	ng/ml
44)	Aroclor 1260 (4)	9.060	11192	0.529	ng/ml
45)	Aroclor 1260 (5)	9.319	16670	1.363	ng/ml
46)	Aroclor 1260 (6)	9.883	23084	4.730	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B19023\
Data File : ECD2R012.D
Signal(s) : ECD2B.CH
Acq On : 19 Feb 2020 10:54
Operator : MJB / KAK
Sample : A0B0411-03
Misc :
ALS Vial : 59 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 19 11:09:38 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

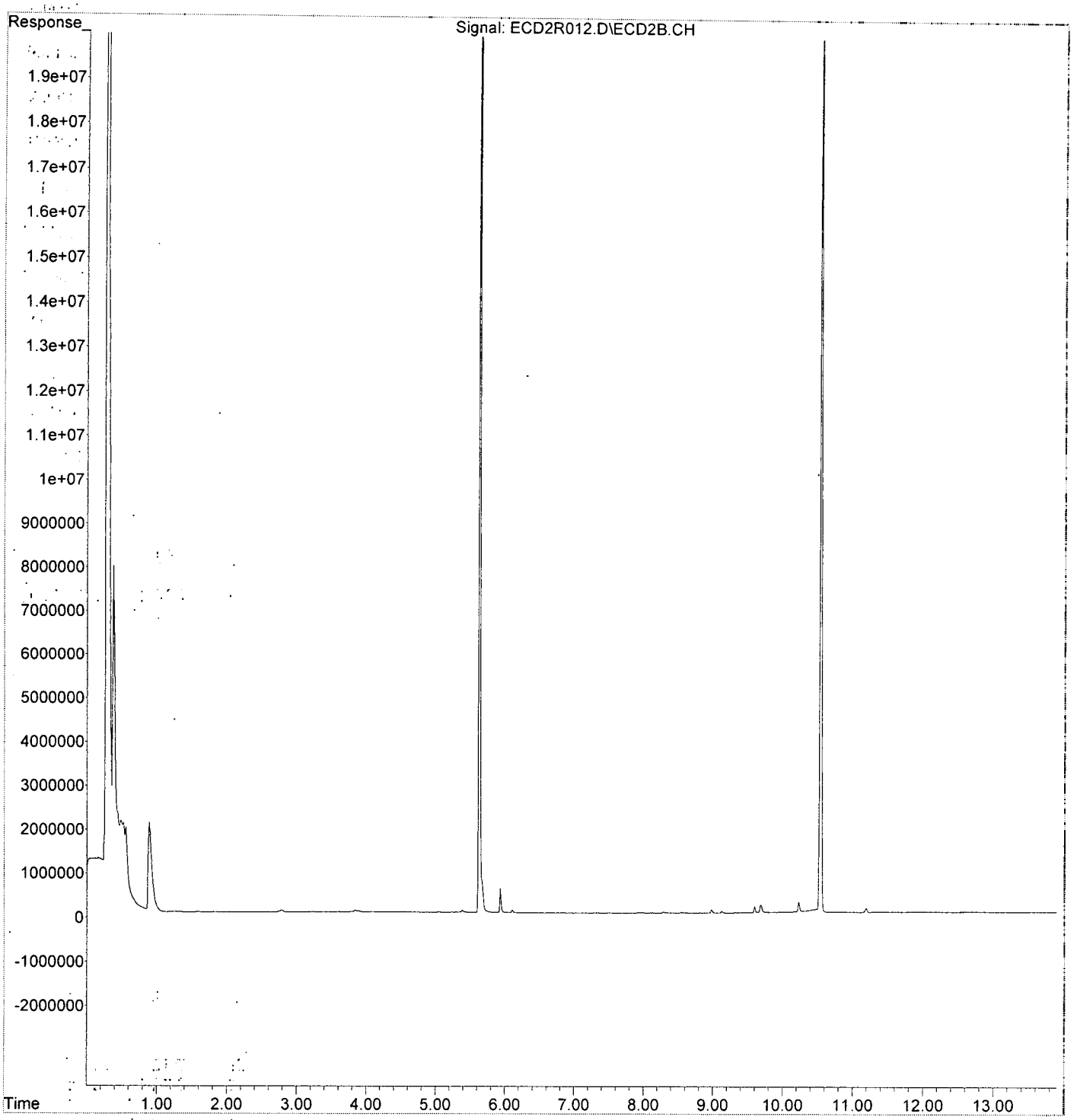
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	8.341	13418	1.269 ng/ml
49)	Aroclor 1262 (2)	8.645	7617	0.499 ng/ml
50)	Aroclor 1262 (3)	8.820	9008	0.704 ng/ml
51)	Aroclor 1262 (4)	9.060	11192	0.407 ng/ml
52)	Aroclor 1262 (5)	9.319	16670	1.015 ng/ml
53)	Aroclor 1262 (6)	9.883	23084	3.206 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.866	6592	1.058 ng/ml
56)	Aroclor 1268 (2)	9.319	16670	0.600 ng/ml
57)	Aroclor 1268 (3)	9.399	9672	0.430 ng/ml
58)	Aroclor 1268 (4)	9.597	155853	8.095 ng/ml
59)	Aroclor 1268 (5)	9.883	23084	2.951 ng/ml
60)	Aroclor 1268 (6)	10.230	247880	4.897 ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D. ng/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B19023\
Data File : ECD2R012.D
Signal(s) : ECD2B.CH
Acq On : 19 Feb 2020 10:54
Operator : MJB / KAK
Sample : A0B0411-03
Misc :
ALS Vial : 59 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 19 11:09:38 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B19023\
Data File : ECD2R012.D
Signal(s) : ECD2B.CH
Acq On : 19 Feb 2020 10:54
Operator : MJB / KAK
Sample : A0B0411-03
Misc :
ALS Vial : 59 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 19 13:48:55 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

2/19/20

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
1) S	TCMX (S)	5.625	27932899	123.802 ng/ml
62) S	DCBP (S)	10.538	23320621	209.673 ng/ml
	Target Compounds			
2)	Aroclor 1016 (1)	6.304	1850	0.299 ng/ml
3)	Aroclor 1016 (2)	6.786	1778	0.155 ng/ml
4)	Aroclor 1016 (3)	6.914	1667	0.311 ng/ml
5)	Aroclor 1016 (4)	7.000	2406	0.487 ng/ml
6)	Aroclor 1016 (5)	7.050	2149	0.388 ng/ml
7)	Aroclor 1016 (6)	7.173	2729	0.478 ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9)	Aroclor 1221 (1)	5.800	11086	6.380 ng/ml
10)	Aroclor 1221 (2)	5.875	6794	3.957 ng/ml
11)	Aroclor 1221 (3)	5.932	552269	96.770 ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13)	Aroclor 1232 (1)	5.932	552269	120.847 ng/ml
14)	Aroclor 1232 (2)	6.295	2157	0.829 ng/ml
15)	Aroclor 1232 (3)	6.786	1778	0.363 ng/ml
16)	Aroclor 1232 (4)	7.000	2406	1.422 ng/ml
17)	Aroclor 1232 (5)	7.045	2240	1.077 ng/ml
18)	Aroclor 1232 (6)	7.173	2729	1.258 ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20)	Aroclor 1242 (1)	6.295	2157	0.474 ng/ml
21)	Aroclor 1242 (2)	6.786	1778	0.202 ng/ml
22)	Aroclor 1242 (3)	6.914	1667	0.435 ng/ml
23)	Aroclor 1242 (4)	7.000	2406	0.728 ng/ml
24)	Aroclor 1242 (5)	7.045	2240	0.561 ng/ml
25)	Aroclor 1242 (6)	7.173	2729	0.654 ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27)	Aroclor 1248 (1)	6.762	2079	0.403 ng/ml
28)	Aroclor 1248 (2)	7.000	2406	0.378 ng/ml
29)	Aroclor 1248 (3)	7.050	2149	0.362 ng/ml
30)	Aroclor 1248 (4)	7.173	2729	0.374 ng/ml
31)	Aroclor 1248 (5)	7.538	3410	0.383 ng/ml
32)	Aroclor 1248 (6)	7.692	5112	0.628 ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34)	Aroclor 1254 (1)	7.509	3436	0.405 ng/ml
35)	Aroclor 1254 (2)	7.692	5112	0.368 ng/ml
36)	Aroclor 1254 (3)	8.001	8931	0.589 ng/ml
37)	Aroclor 1254 (4)	8.243	6131	0.562 ng/ml
38)	Aroclor 1254 (5)	8.576	12815	1.139 ng/ml
39)	Aroclor 1254 (6)	8.820	9008	2.554 ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41)	Aroclor 1260 (1)	8.138	7499	0.712 ng/ml
42)	Aroclor 1260 (2)	8.341	13418	1.051 ng/ml
43)	Aroclor 1260 (3)	8.576	12815	0.966 ng/ml
44)	Aroclor 1260 (4)	9.060	11192	0.529 ng/ml
45)	Aroclor 1260 (5)	9.319	16670	1.363 ng/ml
46)	Aroclor 1260 (6)	9.883	23084	4.730 ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B19023\
Data File : ECD2R012.D
Signal(s) : ECD2B.CH
Acq On : 19 Feb 2020 10:54
Operator : MJB / KAK
Sample : A0B0411-03
Misc :
ALS Vial : 59 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 19 13:48:55 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

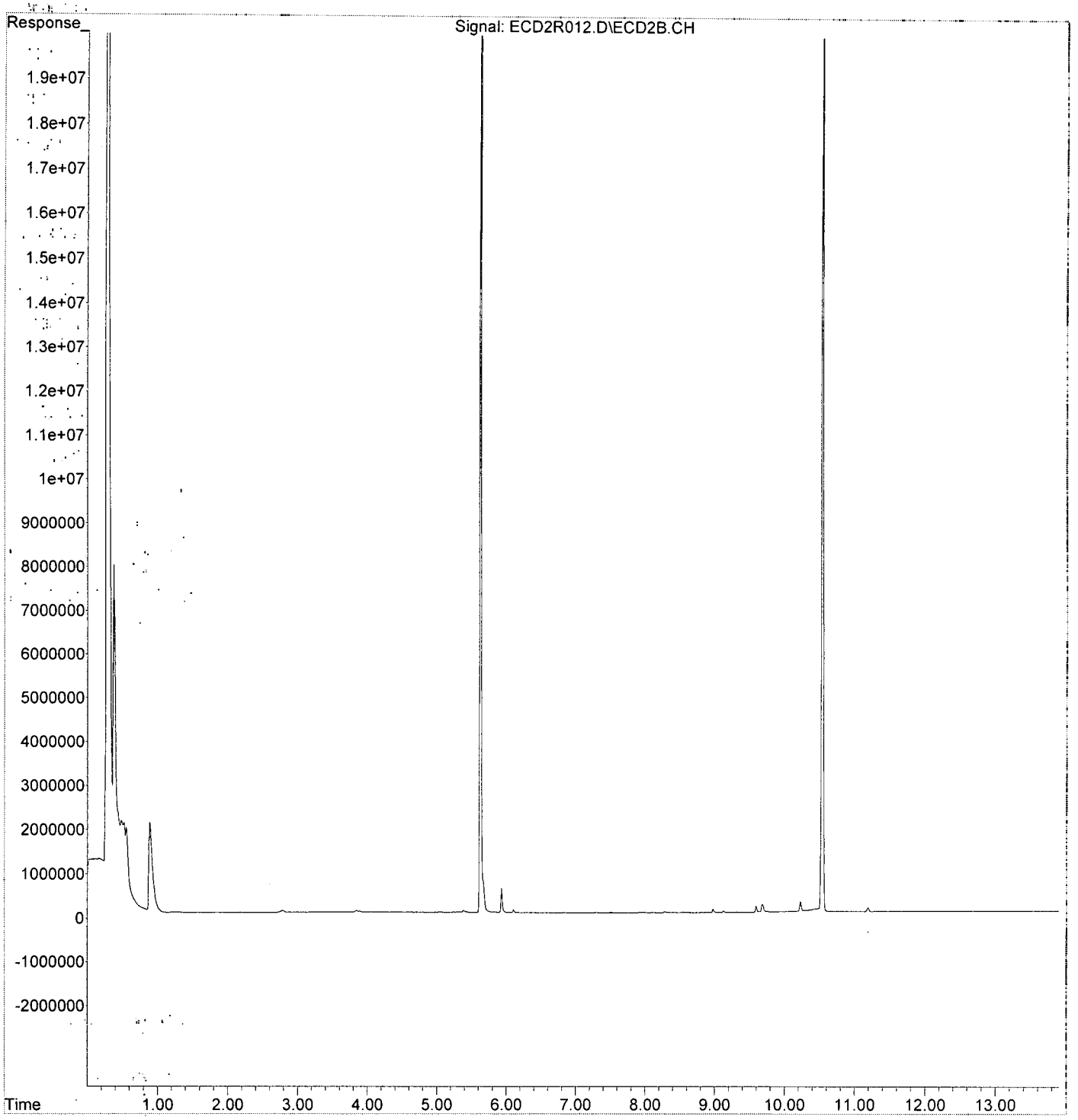
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	8.341	13418	1.269 ng/ml
49)	Aroclor 1262 (2)	8.645	7617	0.499 ng/ml
50)	Aroclor 1262 (3)	8.820	9008	0.704 ng/ml
51)	Aroclor 1262 (4)	9.060	11192	0.407 ng/ml
52)	Aroclor 1262 (5)	9.319	16670	1.015 ng/ml
53)	Aroclor 1262 (6)	9.883	23084	3.206 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.866	6592	1.058 ng/ml
56)	Aroclor 1268 (2)	9.319	16670	0.600 ng/ml
57)	Aroclor 1268 (3)	9.399	9672	0.430 ng/ml
58)	Aroclor 1268 (4)	9.597	155853	8.095 ng/ml
59)	Aroclor 1268 (5)	9.883	23084	2.951 ng/ml
60)	Aroclor 1268 (6)	10.230	247880	4.897 ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D. ng/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B19023\
Data File : ECD2R012.D
Signal(s) : ECD2B.CH
Acq On : 19 Feb 2020 10:54
Operator : MJB / KAK
Sample : A0B0411-03
Misc :
ALS Vial : 59 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 19 13:48:55 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B19023\
Data File : ECD2R014.D
Signal(s) : ECD2B.CH
Acq On : 19 Feb 2020 11:29
Operator : MJB / KAK
Sample : A0B0411-04
Misc :
ALS Vial : 60 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 19 13:49:17 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator : ChemStation 6890 Scale Mode: Small noise peaks clipped

2/19/20

		Compound	R.T.	Response	Conc	Units
System Monitoring Compounds						
1)	S	TCMX (S)	5.625	32173485	142.597	ng/ml
62)	S	DCBP (S)	10.539	25198929	226.561	ng/ml
Target Compounds						
2)		Aroclor 1016 (1)	6.294	3134	0.507	ng/ml
3)		Aroclor 1016 (2)	6.786	5978	0.522	ng/ml
4)		Aroclor 1016 (3)	6.918	5421	1.012	ng/ml
5)		Aroclor 1016 (4)	7.001	6669	1.350	ng/ml
6)		Aroclor 1016 (5)	7.046	6884	1.241	ng/ml
7)		Aroclor 1016 (6)	7.167	7565	1.324	ng/ml
8)		Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)		Aroclor 1221 (1)	5.824	9223	5.308	ng/ml
10)		Aroclor 1221 (2)	5.879	7257	4.227	ng/ml
11)		Aroclor 1221 (3)	5.932	590639	103.494	ng/ml
12)		Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)		Aroclor 1232 (1)	5.932	590639	129.243	ng/ml
14)		Aroclor 1232 (2)	6.294	3134	1.204	ng/ml
15)		Aroclor 1232 (3)	6.786	5978	1.222	ng/ml
16)		Aroclor 1232 (4)	7.001	6669	3.942	ng/ml
17)		Aroclor 1232 (5)	7.046	6884	3.308	ng/ml
18)		Aroclor 1232 (6)	7.167	7565	3.486	ng/ml
19)		Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)		Aroclor 1242 (1)	6.294	3134	0.689	ng/ml
21)		Aroclor 1242 (2)	6.786	5978	0.678	ng/ml
22)		Aroclor 1242 (3)	6.918	5421	1.415	ng/ml
23)		Aroclor 1242 (4)	7.001	6669	2.019	ng/ml
24)		Aroclor 1242 (5)	7.046	6884	1.724	ng/ml
25)		Aroclor 1242 (6)	7.167	7565	1.814	ng/ml
26)		Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)		Aroclor 1248 (1)	6.761	5872	1.138	ng/ml
28)		Aroclor 1248 (2)	7.001	6669	1.049	ng/ml
29)		Aroclor 1248 (3)	7.046	6884	1.160	ng/ml
30)		Aroclor 1248 (4)	7.167	7565	1.037	ng/ml
31)		Aroclor 1248 (5)	7.536	6554	0.736	ng/ml
32)		Aroclor 1248 (6)	7.696	7434	0.913	ng/ml
33)		Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)		Aroclor 1254 (1)	7.511	7280	0.859	ng/ml
35)		Aroclor 1254 (2)	7.696	7434	0.534	ng/ml
36)		Aroclor 1254 (3)	7.998	10777	0.710	ng/ml
37)		Aroclor 1254 (4)	8.243	6182	0.566	ng/ml
38)		Aroclor 1254 (5)	8.575	11610	1.032	ng/ml
39)		Aroclor 1254 (6)	8.822	5236	1.485	ng/ml
40)		Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)		Aroclor 1260 (1)	8.136	10210	0.970	ng/ml
42)		Aroclor 1260 (2)	8.343	15030	1.178	ng/ml
43)		Aroclor 1260 (3)	8.575	11610	0.875	ng/ml
44)		Aroclor 1260 (4)	9.059	7584	0.359	ng/ml
45)		Aroclor 1260 (5)	9.319	9863	0.806	ng/ml
46)		Aroclor 1260 (6)	9.882	15196	3.114	ng/ml
47)		Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B19023\
Data File : ECD2R014.D
Signal(s) : ECD2B.CH
Acq On : 19 Feb 2020 11:29
Operator : MJB / KAK
Sample : A0B0411-04
Misc :
ALS Vial : 60 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 19 13:49:17 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

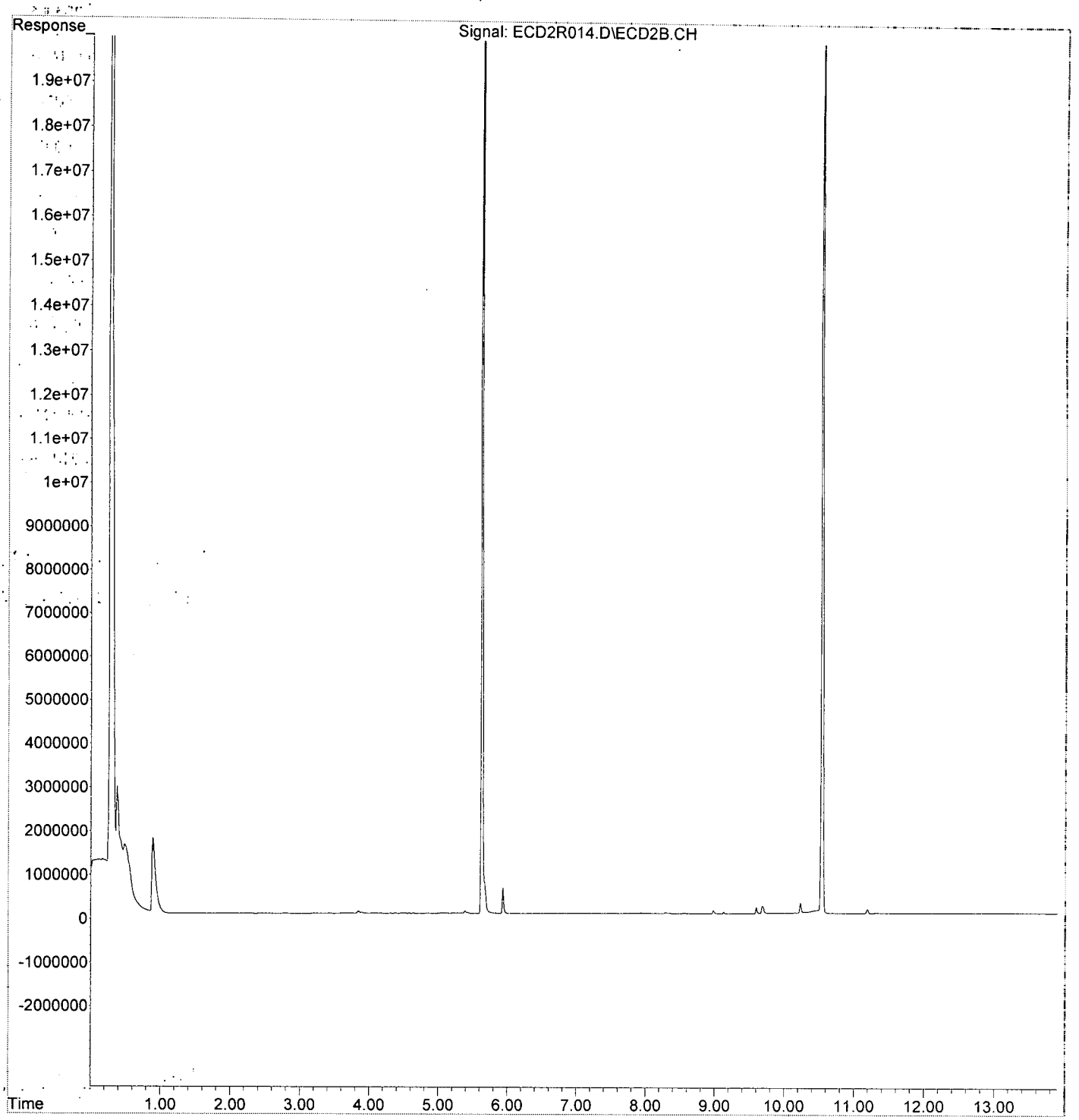
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	8.343	15030	1.422 ng/ml
49)	Aroclor 1262 (2)	8.641	6280	0.411 ng/ml
50)	Aroclor 1262 (3)	8.822	5236	0.409 ng/ml
51)	Aroclor 1262 (4)	9.059	7584	0.276 ng/ml
52)	Aroclor 1262 (5)	9.319	9863	0.601 ng/ml
53)	Aroclor 1262 (6)	9.882	15196	2.110 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.868	2113	0.339 ng/ml
56)	Aroclor 1268 (2)	9.319	9863	0.355 ng/ml
57)	Aroclor 1268 (3)	9.381	4654	0.207 ng/ml
58)	Aroclor 1268 (4)	9.596	151150	7.851 ng/ml
59)	Aroclor 1268 (5)	9.882	15196	1.942 ng/ml
60)	Aroclor 1268 (6)	10.231	247203	4.884 ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D. ng/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B19023\
Data File : ECD2R014.D
Signal(s) : ECD2B.CH
Acq On : 19 Feb 2020 11:29
Operator : MJB / KAK
Sample : A0B0411-04
Misc :
ALS Vial : 60 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 19 13:49:17 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B19023\
Data File : ECD2R016.D
Signal(s) : ECD2B.CH
Acq On : 19 Feb 2020 12:04
Operator : MJB / KAK
Sample : A0B0411-05
Misc :
ALS Vial : 61 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 19 13:49:37 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

2/19/20

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	5.625	34688593	153.744	ng/ml
62)	S DCBP (S)	10.539	27902086	250.865	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.294	2790	0.451	ng/ml
3)	Aroclor 1016 (2)	6.787	3024	0.264	ng/ml
4)	Aroclor 1016 (3)	6.917	1707	0.319	ng/ml
5)	Aroclor 1016 (4)	6.996	2365	0.479	ng/ml
6)	Aroclor 1016 (5)	7.045	2351	0.424	ng/ml
7)	Aroclor 1016 (6)	7.176	2520	0.441	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.835	10360	5.963	ng/ml
10)	Aroclor 1221 (2)	5.879	8078	4.705	ng/ml
11)	Aroclor 1221 (3)	5.932	646591	113.298	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.932	646591	141.486	ng/ml
14)	Aroclor 1232 (2)	6.294	2790	1.072	ng/ml
15)	Aroclor 1232 (3)	6.787	3024	0.618	ng/ml
16)	Aroclor 1232 (4)	6.996	2365	1.398	ng/ml
17)	Aroclor 1232 (5)	7.045	2351	1.130	ng/ml
18)	Aroclor 1232 (6)	7.170	2393	1.103	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.294	2790	0.614	ng/ml
21)	Aroclor 1242 (2)	6.787	3024	0.343	ng/ml
22)	Aroclor 1242 (3)	6.917	1707	0.446	ng/ml
23)	Aroclor 1242 (4)	6.996	2365	0.716	ng/ml
24)	Aroclor 1242 (5)	7.045	2351	0.589	ng/ml
25)	Aroclor 1242 (6)	7.170	2393	0.574	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.759	3302	0.640	ng/ml
28)	Aroclor 1248 (2)	6.996	2365	0.372	ng/ml
29)	Aroclor 1248 (3)	7.045	2351	0.396	ng/ml
30)	Aroclor 1248 (4)	7.170	2393	0.328	ng/ml
31)	Aroclor 1248 (5)	7.537	2283	0.256	ng/ml
32)	Aroclor 1248 (6)	7.693	3068	0.377	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.514	2487	0.294	ng/ml
35)	Aroclor 1254 (2)	7.693	3068	0.221	ng/ml
36)	Aroclor 1254 (3)	8.004	9877	0.651	ng/ml
37)	Aroclor 1254 (4)	8.231	2977	0.273	ng/ml
38)	Aroclor 1254 (5)	8.576	10358	0.921	ng/ml
39)	Aroclor 1254 (6)	8.823	4177	1.184	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	8.135	6981	0.663	ng/ml
42)	Aroclor 1260 (2)	8.343	17679	1.385	ng/ml
43)	Aroclor 1260 (3)	8.576	10358	0.781	ng/ml
44)	Aroclor 1260 (4)	9.070	6319	0.299	ng/ml
45)	Aroclor 1260 (5)	9.321	5516	0.451	ng/ml
46)	Aroclor 1260 (6)	9.887	10486	2.149	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B19023\
Data File : ECD2R016.D
Signal(s) : ECD2B.CH
Acq On : 19 Feb 2020 12:04
Operator : MJB / KAK
Sample : A0B0411-05
Misc :
ALS Vial : 61 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 19 13:49:37 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

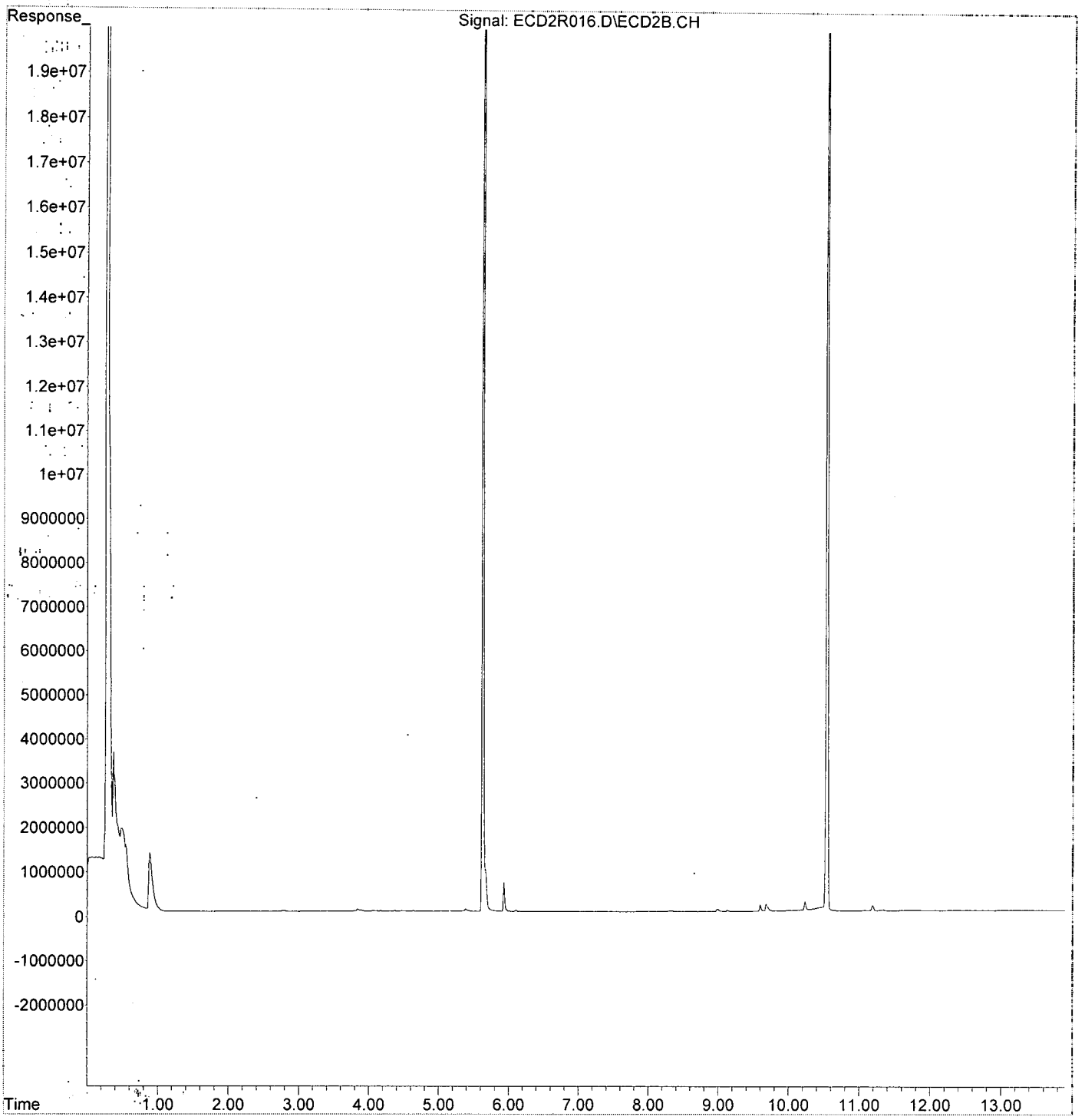
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	8.343	17679	1.672 ng/ml
49)	Aroclor 1262 (2)	8.643	5413	0.354 ng/ml
50)	Aroclor 1262 (3)	8.823	4177	0.326 ng/ml
51)	Aroclor 1262 (4)	9.060	6940	0.252 ng/ml
52)	Aroclor 1262 (5)	9.321	5516	0.336 ng/ml
53)	Aroclor 1262 (6)	9.887	10486	1.456 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.881	1619	0.260 ng/ml
56)	Aroclor 1268 (2)	9.321	5516	0.199 ng/ml
57)	Aroclor 1268 (3)	9.383	3283	0.146 ng/ml
58)	Aroclor 1268 (4)	9.597	144150	7.487 ng/ml
59)	Aroclor 1268 (5)	9.887	10486	1.340 ng/ml
60)	Aroclor 1268 (6)	10.233	215676	4.261 ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D. ng/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B19023\
Data File : ECD2R016.D
Signal(s) : ECD2B.CH
Acq On : 19 Feb 2020 12:04
Operator : MJB / KAK
Sample : A0B0411-05
Misc :
ALS Vial : 61 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 19 13:49:37 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B19023\
Data File : ECD2R018.D
Signal(s) : ECD2B.CH
Acq On : 19 Feb 2020 12:39
Operator : MJB / KAK
Sample : 0020497-MS1
Misc :
ALS Vial : 62 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 19 13:50:22 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

2/19/20

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	5.623	26887877	119.170	ng/ml
62)	S DCBP (S)	10.537	23721399	213.277	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.295	3869728	625.969	ng/ml
3)	Aroclor 1016 (2)	6.786	7176896	627.277	ng/ml
4)	Aroclor 1016 (3)	6.913	2778666	518.746	ng/ml
5)	Aroclor 1016 (4)	6.998	3731012	755.149	ng/ml
6)	Aroclor 1016 (5)	7.043	4168347	751.661	ng/ml
7)	Aroclor 1016 (6)	7.168	3682648	644.656	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.785	301259	173.385	ng/ml
10)	Aroclor 1221 (2)	5.872	498366	290.258	ng/ml
11)	Aroclor 1221 (3)	5.960	2318724	406.294	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.960	2318724	507.380	ng/ml
14)	Aroclor 1232 (2)	6.295	3869728	1486.794	ng/ml
15)	Aroclor 1232 (3)	6.786	7176896	1467.080	ng/ml
16)	Aroclor 1232 (4)	6.998	3731012	2205.302	ng/ml
17)	Aroclor 1232 (5)	7.043	4168347	2003.199	ng/ml
18)	Aroclor 1232 (6)	7.168	3682648	1697.327	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.295	3869728	851.176	ng/ml
21)	Aroclor 1242 (2)	6.786	7176896	813.481	ng/ml
22)	Aroclor 1242 (3)	6.913	2778666	725.468	ng/ml
23)	Aroclor 1242 (4)	6.998	3731012	1129.380	ng/ml
24)	Aroclor 1242 (5)	7.043	4168347	1043.671	ng/ml
25)	Aroclor 1242 (6)	7.168	3682648	882.957	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.758	6424533	1244.575	ng/ml
28)	Aroclor 1248 (2)	6.998	3731012	586.697	ng/ml
29)	Aroclor 1248 (3)	7.043	4168347	702.241	ng/ml
30)	Aroclor 1248 (4)	7.168	3682648	504.783	ng/ml
31)	Aroclor 1248 (5)	7.534	908773	102.089	ng/ml
32)	Aroclor 1248 (6)	7.691	3722966	457.299	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.511	2867343	338.375	ng/ml
35)	Aroclor 1254 (2)	7.691	3722966	267.650	ng/ml
36)	Aroclor 1254 (3)	8.002	1757587	115.826	ng/ml
37)	Aroclor 1254 (4)	8.241	1380995	126.505	ng/ml
38)	Aroclor 1254 (5)	8.576	10774312	957.831	ng/ml
39)	Aroclor 1254 (6)	8.821	8233908	2334.415	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	8.137	9158933	869.971	ng/ml
42)	Aroclor 1260 (2)	8.344	12629542	989.585	ng/ml
43)	Aroclor 1260 (3)	8.576	10774312	812.471	ng/ml
44)	Aroclor 1260 (4)	9.059	21254884	1004.842	ng/ml
45)	Aroclor 1260 (5)	9.317	11077773	905.437	ng/ml
46)	Aroclor 1260 (6)	9.879	4870221	998.005	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B19023\
Data File : ECD2R018.D
Signal(s) : ECD2B.CH
Acq On : 19 Feb 2020 12:39
Operator : MJB / KAK
Sample : 0020497-MS1
Misc :
ALS Vial : 62 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 19 13:50:22 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

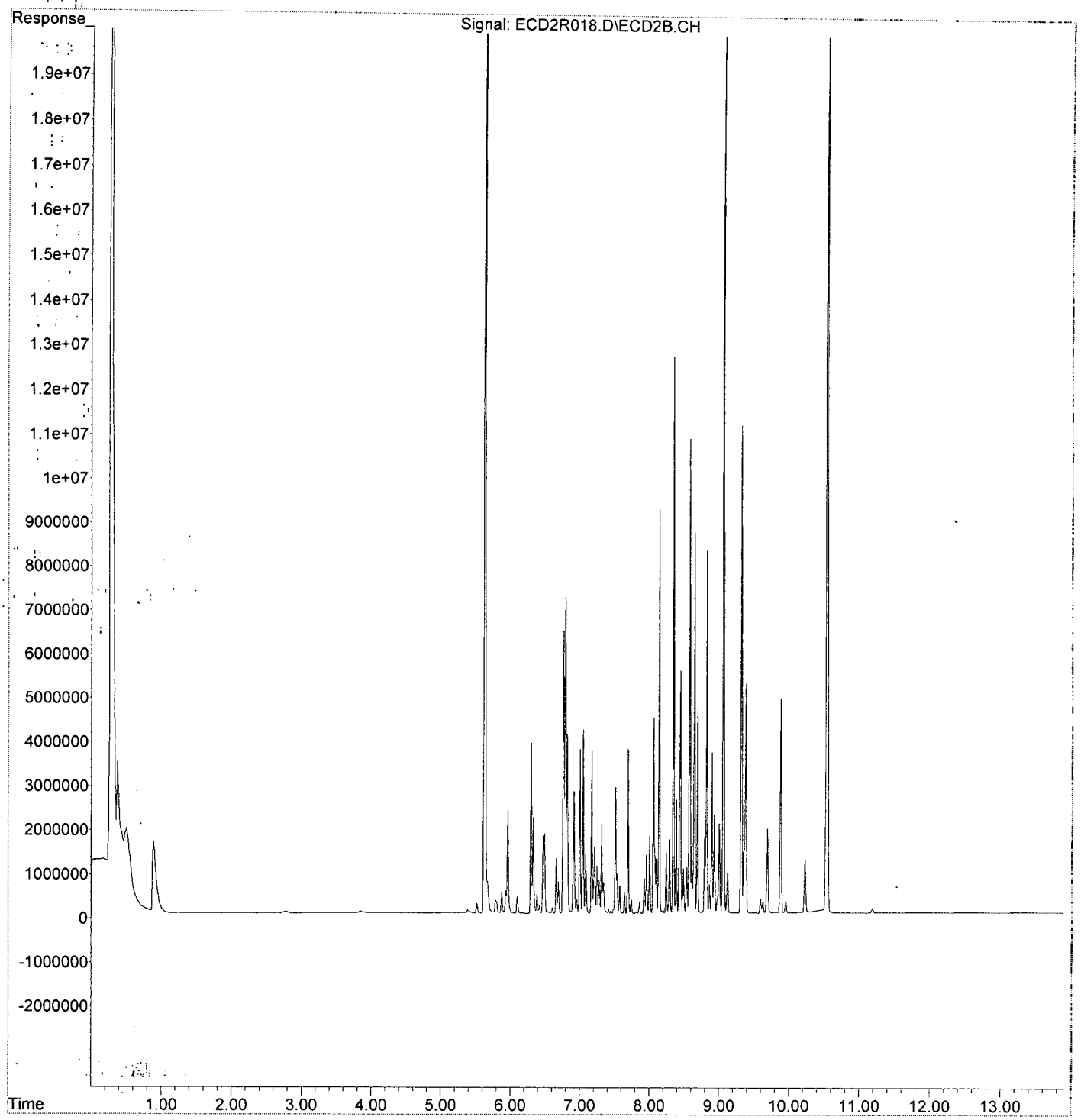
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	8.344	12629542	1194.656	ng/ml
49)	Aroclor 1262 (2)	8.644	8629332	564.839	ng/ml
50)	Aroclor 1262 (3)	8.821	8233908	643.063	ng/ml
51)	Aroclor 1262 (4)	9.059	21254884	772.214	ng/ml
52)	Aroclor 1262 (5)	9.317	11077773	674.670	ng/ml
53)	Aroclor 1262 (6)	9.879	4870221	676.370	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	8.862	661569	106.154	ng/ml
56)	Aroclor 1268 (2)	9.317	11077773	398.961	ng/ml
57)	Aroclor 1268 (3)	9.379	5201847	231.026	ng/ml
58)	Aroclor 1268 (4)	9.594	322851	16.769	ng/ml
59)	Aroclor 1268 (5)	9.879	4870221	622.537	ng/ml
60)	Aroclor 1268 (6)	10.227	1231731	24.335	ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B19023\
Data File : ECD2R018.D
Signal(s) : ECD2B.CH
Acq On : 19 Feb 2020 12:39
Operator : MJB / KAK
Sample : 0020497-MS1
Misc :
ALS Vial : 62 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 19 13:50:22 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B19023\
Data File : ECD2R020.D
Signal(s) : ECD2B.CH
Acq On : 19 Feb 2020 13:15
Operator : MJB / KAK
Sample : 0020497-MSD1
Misc :
ALS Vial : 63 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 19 13:50:44 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

2/19/20

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	5.624	34445447	152.666	ng/ml
62)	S DCBP (S)	10.537	28171517	253.287	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.295	4581730	741.142	ng/ml
3)	Aroclor 1016 (2)	6.786	8642662	755.388	ng/ml
4)	Aroclor 1016 (3)	6.913	3309592	617.864	ng/ml
5)	Aroclor 1016 (4)	6.998	4421180	894.838	ng/ml
6)	Aroclor 1016 (5)	7.043	4749989	856.546	ng/ml
7)	Aroclor 1016 (6)	7.168	4269667	747.415	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.798	311409	179.226	ng/ml
10)	Aroclor 1221 (2)	5.873	570434	332.231	ng/ml
11)	Aroclor 1221 (3)	5.960	2782940	487.635	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.960	2782940	608.959	ng/ml
14)	Aroclor 1232 (2)	6.295	4581730	1760.354	ng/ml
15)	Aroclor 1232 (3)	6.786	8642662	1766.707	ng/ml
16)	Aroclor 1232 (4)	6.998	4421180	2613.242	ng/ml
17)	Aroclor 1232 (5)	7.043	4749989	2282.721	ng/ml
18)	Aroclor 1232 (6)	7.168	4269667	1967.883	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.295	4581730	1007.786	ng/ml
21)	Aroclor 1242 (2)	6.786	8642662	979.621	ng/ml
22)	Aroclor 1242 (3)	6.913	3309592	864.085	ng/ml
23)	Aroclor 1242 (4)	6.998	4421180	1338.295	ng/ml
24)	Aroclor 1242 (5)	7.043	4749989	1189.303	ng/ml
25)	Aroclor 1242 (6)	7.168	4269667	1023.702	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.758	7759370	1503.163	ng/ml
28)	Aroclor 1248 (2)	6.998	4421180	695.225	ng/ml
29)	Aroclor 1248 (3)	7.043	4749989	800.231	ng/ml
30)	Aroclor 1248 (4)	7.168	4269667	585.246	ng/ml
31)	Aroclor 1248 (5)	7.533	1076386	120.918	ng/ml
32)	Aroclor 1248 (6)	7.692	4250094	522.047	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.510	3276633	386.676	ng/ml
35)	Aroclor 1254 (2)	7.692	4250094	305.546	ng/ml
36)	Aroclor 1254 (3)	8.002	1953053	128.708	ng/ml
37)	Aroclor 1254 (4)	8.241	1569948	143.814	ng/ml
38)	Aroclor 1254 (5)	8.576	12863830	1143.588	ng/ml
39)	Aroclor 1254 (6)	8.822	9377041	2658.508	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	8.137	10194802	968.364	ng/ml
42)	Aroclor 1260 (2)	8.344	13831379	1083.755	ng/ml
43)	Aroclor 1260 (3)	8.576	12863830	970.038	ng/ml
44)	Aroclor 1260 (4)	9.059	24044033	1136.701	ng/ml
45)	Aroclor 1260 (5)	9.317	12455967	1018.083	ng/ml
46)	Aroclor 1260 (6)	9.880	5289574	1083.938	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B19023\
Data File : ECD2R020.D
Signal(s) : ECD2B.CH
Acq On : 19 Feb 2020 13:15
Operator : MJB / KAK
Sample : 0020497-MSD1
Misc :
ALS Vial : 63 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 19 13:50:44 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

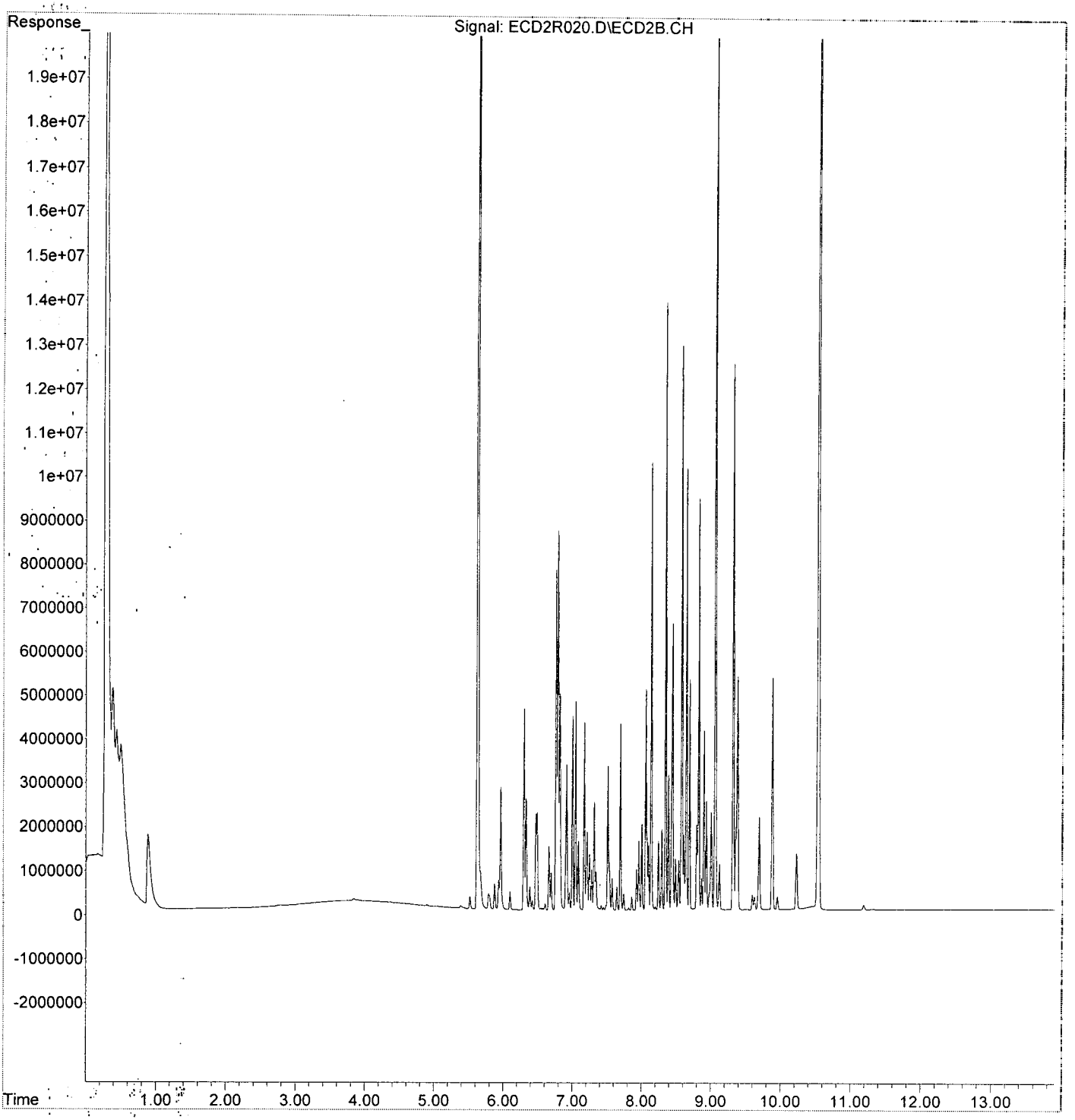
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	8.344	13831379	1308.341	ng/ml
49)	Aroclor 1262 (2)	8.644	10087137	660.261	ng/ml
50)	Aroclor 1262 (3)	8.822	9377041	732.341	ng/ml
51)	Aroclor 1262 (4)	9.059	24044033	873.547	ng/ml
52)	Aroclor 1262 (5)	9.317	12455967	758.606	ng/ml
53)	Aroclor 1262 (6)	9.880	5289574	734.609	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	8.863	732278	117.500	ng/ml
56)	Aroclor 1268 (2)	9.317	12455967	448.597	ng/ml
57)	Aroclor 1268 (3)	9.380	5312878	235.957	ng/ml
58)	Aroclor 1268 (4)	9.594	344756	17.906	ng/ml
59)	Aroclor 1268 (5)	9.880	5289574	676.141	ng/ml
60)	Aroclor 1268 (6)	10.227	1281829	25.325	ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B19023\
Data File : ECD2R020.D
Signal(s) : ECD2B.CH
Acq On : 19 Feb 2020 13:15
Operator : MJB / KAK
Sample : 0020497-MSD1
Misc :
ALS Vial : 63 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 19 13:50:44 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B19023\
Data File : ECD2R022.D
Signal(s) : ECD2B.CH
Acq On : 19 Feb 2020 13:50
Operator : MJB / KAK
Sample : 0B19023-CCV2
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 19 14:07:17 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

2/19/20

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	5.625	61201195	271.251	ng/ml
62)	S DCBP (S)	10.538	33536891	301.527	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.296	3381105	546.929	ng/ml
3)	Aroclor 1016 (2)	6.787	5488424	479.701	ng/ml
4)	Aroclor 1016 (3)	6.913	2453283	458.001	ng/ml
5)	Aroclor 1016 (4)	6.998	2839128	574.634	ng/ml
6)	Aroclor 1016 (5)	7.043	2946710	531.368	ng/ml
7)	Aroclor 1016 (6)	7.169	3018746	528.439	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.799	253060	145.644	ng/ml
10)	Aroclor 1221 (2)	5.873	446158	259.851	ng/ml
11)	Aroclor 1221 (3)	5.961	1961244	343.655	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.961	1961244	429.156	ng/ml
14)	Aroclor 1232 (2)	6.296	3381105	1299.060	ng/ml
15)	Aroclor 1232 (3)	6.787	5488424	1121.927	ng/ml
16)	Aroclor 1232 (4)	6.998	2839128	1678.133	ng/ml
17)	Aroclor 1232 (5)	7.043	2946710	1416.112	ng/ml
18)	Aroclor 1232 (6)	7.169	3018746	1391.336	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.296	3381105	743.700	ng/ml
21)	Aroclor 1242 (2)	6.787	5488424	622.098	ng/ml
22)	Aroclor 1242 (3)	6.913	2453283	640.516	ng/ml
23)	Aroclor 1242 (4)	6.998	2839128	859.407	ng/ml
24)	Aroclor 1242 (5)	7.043	2946710	737.797	ng/ml
25)	Aroclor 1242 (6)	7.169	3018746	723.779	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.758	4767417	923.555	ng/ml
28)	Aroclor 1248 (2)	6.998	2839128	446.449	ng/ml
29)	Aroclor 1248 (3)	7.043	2946710	496.432	ng/ml
30)	Aroclor 1248 (4)	7.169	3018746	413.781	ng/ml
31)	Aroclor 1248 (5)	7.534	696558	78.250	ng/ml
32)	Aroclor 1248 (6)	7.693	2537721	311.713	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.511	2127617	251.080	ng/ml
35)	Aroclor 1254 (2)	7.693	2537721	182.441	ng/ml
36)	Aroclor 1254 (3)	8.003	1485421	97.890	ng/ml
37)	Aroclor 1254 (4)	8.242	996456	91.280	ng/ml
38)	Aroclor 1254 (5)	8.576	8254274	733.800	ng/ml
39)	Aroclor 1254 (6)	8.822	5366220	1521.390	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	8.138	6218997	590.718	ng/ml
42)	Aroclor 1260 (2)	8.344	7472156	585.479	ng/ml
43)	Aroclor 1260 (3)	8.576	8254274	622.440	ng/ml
44)	Aroclor 1260 (4)	9.059	12779059	604.140	ng/ml
45)	Aroclor 1260 (5)	9.317	7300757	596.724	ng/ml
46)	Aroclor 1260 (6)	9.880	2921698	598.714	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B19023\
Data File : ECD2R022.D
Signal(s) : ECD2B.CH
Acq On : 19 Feb 2020 13:50
Operator : MJB / KAK
Sample : 0B19023-CCV2
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 19 14:07:17 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

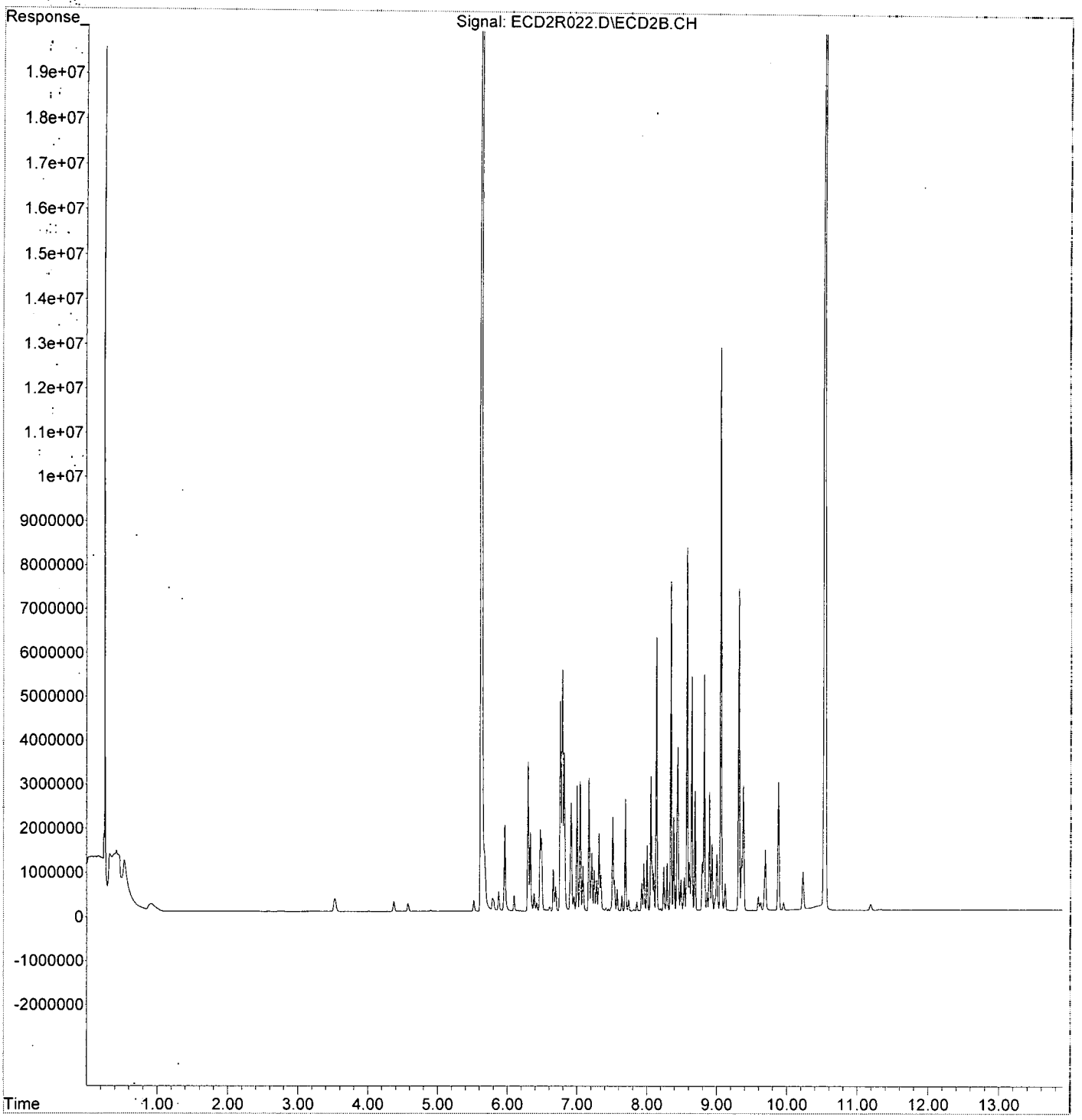
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	8.344	7472156	706.808	ng/ml
49)	Aroclor 1262 (2)	8.644	5308782	347.490	ng/ml
50)	Aroclor 1262 (3)	8.822	5366220	419.098	ng/ml
51)	Aroclor 1262 (4)	9.059	12779059	464.278	ng/ml
52)	Aroclor 1262 (5)	9.317	7300757	444.638	ng/ml
53)	Aroclor 1262 (6)	9.880	2921698	405.761	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	8.862	422460	67.787	ng/ml
56)	Aroclor 1268 (2)	9.317	7300757	262.934	ng/ml
57)	Aroclor 1268 (3)	9.380	2827980	125.597	ng/ml
58)	Aroclor 1268 (4)	9.594	312233	16.217	ng/ml
59)	Aroclor 1268 (5)	9.880	2921698	373.467	ng/ml
60)	Aroclor 1268 (6)	10.228	876896	17.325	ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B19023\
Data File : ECD2R022.D
Signal(s) : ECD2B.CH
Acq On : 19 Feb 2020 13:50
Operator : MJB / KAK
Sample : 0B19023-CCV2
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 19 14:07:17 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B19023\
Data File : ECD2R023.D
Signal(s) : ECD2B.CH
Acq On : 19 Feb 2020 14:07
Operator : MJB / KAK
Sample : 0B19023-CCB2
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 19 14:23:02 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

2/19/20 clean

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
1)	S	TCMX (S)	5.624	20158773	89.346	ng/ml
62)	S	DCBP (S)	10.536	12733183	114.483	ng/ml
		Target Compounds				
2)		Aroclor 1016 (1)	6.299	1418	0.229	ng/ml
3)		Aroclor 1016 (2)	6.788	958	0.084	ng/ml
4)		Aroclor 1016 (3)	6.912	1359	0.254	ng/ml
5)		Aroclor 1016 (4)	6.998	1605	0.325	ng/ml
6)		Aroclor 1016 (5)	7.050	1860	0.335	ng/ml
7)		Aroclor 1016 (6)	7.175	1697	0.297	ng/ml
8)		Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)		Aroclor 1221 (1)	5.826	12092	6.959	ng/ml
10)		Aroclor 1221 (2)	5.869	8956	5.216	ng/ml
11)		Aroclor 1221 (3)	5.943	34040	5.965	ng/ml
12)		Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)		Aroclor 1232 (1)	5.943	34040	7.449	ng/ml
14)		Aroclor 1232 (2)	6.299	1418	0.545	ng/ml
15)		Aroclor 1232 (3)	6.788	958	0.196	ng/ml
16)		Aroclor 1232 (4)	6.998	1605	0.949	ng/ml
17)		Aroclor 1232 (5)	7.050	1860	0.894	ng/ml
18)		Aroclor 1232 (6)	7.175	1697	0.782	ng/ml
19)		Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)		Aroclor 1242 (1)	6.299	1418	0.312	ng/ml
21)		Aroclor 1242 (2)	6.788	958	0.109	ng/ml
22)		Aroclor 1242 (3)	6.912	1359	0.355	ng/ml
23)		Aroclor 1242 (4)	6.998	1605	0.486	ng/ml
24)		Aroclor 1242 (5)	7.050	1860	0.466	ng/ml
25)		Aroclor 1242 (6)	7.175	1697	0.407	ng/ml
26)		Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)		Aroclor 1248 (1)	6.761	1094	0.212	ng/ml
28)		Aroclor 1248 (2)	6.998	1605	0.252	ng/ml
29)		Aroclor 1248 (3)	7.050	1860	0.313	ng/ml
30)		Aroclor 1248 (4)	7.175	1697	0.233	ng/ml
31)		Aroclor 1248 (5)	7.532	1199	0.135	ng/ml
32)		Aroclor 1248 (6)	7.693	1037	0.127	ng/ml
33)		Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)		Aroclor 1254 (1)	7.511	1415	0.167	ng/ml
35)		Aroclor 1254 (2)	7.693	1037	0.075	ng/ml
36)		Aroclor 1254 (3)	7.998	5739	0.378	ng/ml
37)		Aroclor 1254 (4)	8.248	2644	0.242	ng/ml
38)		Aroclor 1254 (5)	8.575	6522	0.580	ng/ml
39)		Aroclor 1254 (6)	8.821	4007	1.136	ng/ml
40)		Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)		Aroclor 1260 (1)	8.139	4316	0.410	ng/ml
42)		Aroclor 1260 (2)	8.339	8231	0.645	ng/ml
43)		Aroclor 1260 (3)	8.575	6522	0.492	ng/ml
44)		Aroclor 1260 (4)	9.058	7382	0.349	ng/ml
45)		Aroclor 1260 (5)	9.319	10238	0.837	ng/ml
46)		Aroclor 1260 (6)	9.884	15947	3.268	ng/ml
47)		Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B19023\
Data File : ECD2R023.D
Signal(s) : ECD2B.CH
Acq On : 19 Feb 2020 14:07
Operator : MJB / KAK
Sample : 0B19023-CCB2
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 19 14:23:02 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

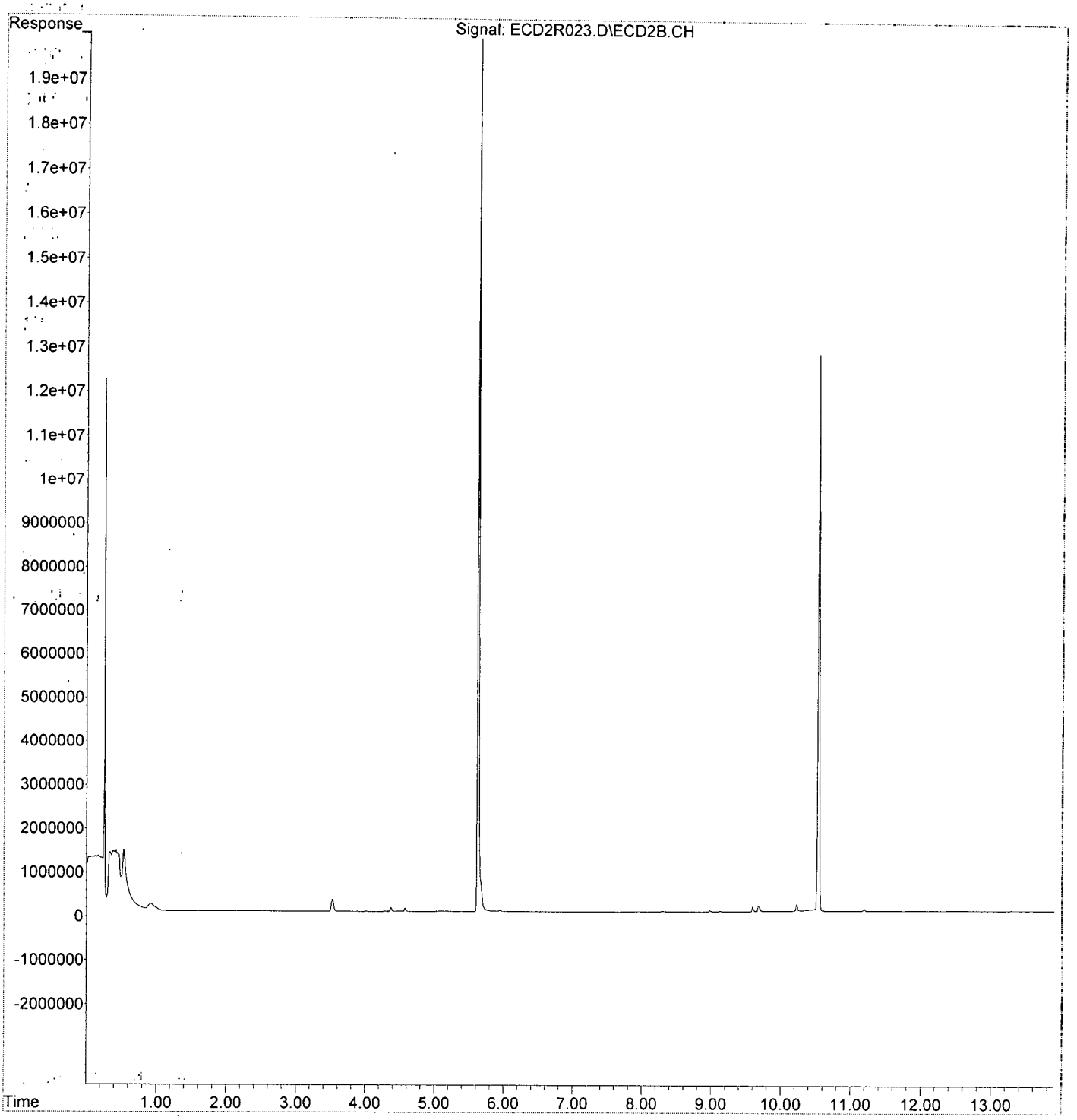
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	8.339	8231	0.779 ng/ml
49)	Aroclor 1262 (2)	8.644	3958	0.259 ng/ml
50)	Aroclor 1262 (3)	8.821	4007	0.313 ng/ml
51)	Aroclor 1262 (4)	9.058	7382	0.268 ng/ml
52)	Aroclor 1262 (5)	9.319	10238	0.624 ng/ml
53)	Aroclor 1262 (6)	9.884	15947	2.215 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.867	2909	0.467 ng/ml
56)	Aroclor 1268 (2)	9.319	10238	0.369 ng/ml
57)	Aroclor 1268 (3)	9.378	7791	0.346 ng/ml
58)	Aroclor 1268 (4)	9.594	123892	6.435 ng/ml
59)	Aroclor 1268 (5)	9.884	15947	2.038 ng/ml
60)	Aroclor 1268 (6)	10.228	176731	3.492 ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D. ng/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B19023\
Data File : ECD2R023.D
Signal(s) : ECD2B.CH
Acq On : 19 Feb 2020 14:07
Operator : MJB / KAK
Sample : 0B19023-CCB2
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 19 14:23:02 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



APEX LABORATORIES, LLC
6700 SW Sandburg St. Tigard OR 97223 phone 503-718-2323

Polychlorinated Biphenyls by EPA 8082A
Calibration Data

Sequence 0A13050 (Cal ID A0A1501) DUALECD2R

APEX LABORATORIES

ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence: **0A13050** Instrument: **DUALECD2R**

Date: **01/13/20 16:03** Calibration: **A0A1501**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0A13050-ICB1	Water	QC	QC				A19L339
2	0A13050-CAL1	Water	QC	QC				A19L280
3	0A13050-CAL2	Water	QC	QC				A19L281
4	0A13050-CAL3	Water	QC	QC				A19L282
5	0A13050-CAL4	Water	QC	QC				A19L283
6	0A13050-CAL5	Water	QC	QC				A19L276
7	0A13050-CAL6	Water	QC	QC				A19L278
8	0A13050-CAL7	Water	QC	QC				A19L279
9	0A13050-IBL1	Water	QC	QC				
10	0A13050-ICV1	Water	QC	QC				A19H459
11	0A13050-CAL8	Water	QC	QC				A19H447
12	0A13050-CAL9	Water	QC	QC				A19H448
13	0A13050-CALA	Water	QC	QC				A19H449
14	0A13050-CALB	Water	QC	QC				A19H450
15	0A13050-CALC	Water	QC	QC				A19H451
16	0A13050-CALD	Water	QC	QC				A19H452
17	0A13050-CALE	Water	QC	QC				A19H453
18	0A13050-ICV2	Water	QC	QC				A19H405
19	0A13050-ICV3	Water	QC	QC				A19J367
20	0A13050-ICV4	Water	QC	QC				A19H406
21	0A13050-ICV5	Water	QC	QC				A19L037

Comments:

Data Entered By: 1/15/20

Data Reviewed By: 1/16/2020

Calibration Status Report HP G1530A

Method Path : L:\Methods\
Method File : RECD2_QUANTPCB_200113.M
Title : PCB Data Analysis
Last Update : Tue Jan 14 09:35:58 2020
Response Via : Initial Calibration

A0A1501

1/15/20

#	ID	Conc	ISTD Conc	Path\File
1	1	10	0	K:\DATA\0A13050\ECD2R005.D
2	2	25	0	K:\DATA\0A13050\ECD2R006.D
3	3	50	0	K:\DATA\0A13050\ECD2R007.D
4	4	100	0	K:\DATA\0A13050\ECD2R008.D
5	5	250	0	K:\DATA\0A13050\ECD2R020.D
6	6	500	0	K:\DATA\0A13050\ECD2R010.D
7	7	800	0	K:\DATA\0A13050\ECD2R011.D

#	ID	Update Time	Quant Time	Acquisition Time
1	1	Jan 14 09:33 2020	Jan 14 08:56 2020	13 Jan 2020 17:33
2	2	Jan 14 09:33 2020	Jan 14 09:03 2020	13 Jan 2020 17:50
3	3	Jan 14 09:34 2020	Jan 14 09:04 2020	13 Jan 2020 18:08
4	4	Jan 14 09:34 2020	Jan 14 09:05 2020	13 Jan 2020 18:25
5	5	Jan 14 09:35 2020	Jan 14 09:32 2020	13 Jan 2020 21:57
6	6	Jan 14 09:34 2020	Jan 14 09:06 2020	13 Jan 2020 19:01
7	7	Jan 14 09:34 2020	Jan 14 09:07 2020	13 Jan 2020 19:18

RECD2_QUANTPCB_200113.M Tue Jan 14 11:44:09 2020

Response Factor Report HP G1530A

Method Path : L:\Methods\
Method File : RECD2_QUANTPCB_200113.M
Title : PCB Data Analysis
Last Update : Tue Jan 14 09:35:58 2020
Response Via : Initial Calibration

Calibration Files
1 =ECD2R005.D 2 =ECD2R006.D 3 =ECD2R007.D
4 =ECD2R008.D 5 =ECD2R020.D 6 =ECD2R010.D

1/15/20

		Compound	1	2	3	4	5	6	Avg		%RSD
1)	S	TCMX (S)	2.096	2.125	2.217	2.268	2.155	2.497	2.256	E5	6.90
2)		Aroclor 1016 ...	7.264	6.876	6.397	5.954	5.672	5.624	6.182	E3	11.06 ✓
3)		Aroclor 1016 ...	1.247	1.196	1.143	1.167	1.097	1.103	1.144	E4	5.70 ✓
4)		Aroclor 1016 ...	5.802	5.801	5.370	5.336	5.078	5.146	5.357	E3	6.26 ✓
5)		Aroclor 1016 ...	5.870	5.571	5.194	4.910	4.407	4.339	4.941	E3	12.78 ✓
6)		Aroclor 1016 ...	6.569	6.159	5.693	5.382	5.074	5.224	5.546	E3	11.60 ✓
7)		Aroclor 1016 (6)	6.761	6.310	5.881	5.800	5.148	5.150	5.713	E3	11.80 ✓
8)		Aroclor 1016 ...							0.000		-1.00
9)		Aroclor 1221 (1)					1.738		1.738	E3	0.00
10)		Aroclor 1221 (2)					1.717		1.717	E3	0.00
11)		Aroclor 1221 (3)					5.707		5.707	E3	0.00
12)		Aroclor 1221 ...							0.000		-1.00
13)		Aroclor 1232 (1)					4.570		4.570	E3	0.00
14)		Aroclor 1232 (2)					2.603		2.603	E3	0.00
15)		Aroclor 1232 (3)					4.892		4.892	E3	0.00
16)		Aroclor 1232 (4)					1.692		1.692	E3	0.00
17)		Aroclor 1232 (5)					2.081		2.081	E3	0.00
18)		Aroclor 1232 (6)					2.170		2.170	E3	0.00
19)		Aroclor 1232 ...							0.000		-1.00
20)		Aroclor 1242 ...					4.546		4.546	E3	0.00
21)		Aroclor 1242 ...					8.822		8.822	E3	0.00
22)		Aroclor 1242 ...					3.830		3.830	E3	0.00
23)		Aroclor 1242 ...					3.304		3.304	E3	0.00
24)		Aroclor 1242 ...					3.994		3.994	E3	0.00
25)		Aroclor 1242 (6)					4.171		4.171	E3	0.00
26)		Aroclor 1242 ...							0.000		-1.00
27)		Aroclor 1248 ...					5.162		5.162	E3	0.00
28)		Aroclor 1248 ...					6.359		6.359	E3	0.00
29)		Aroclor 1248 ...					5.936		5.936	E3	0.00
30)		Aroclor 1248 ...					7.296		7.296	E3	0.00
31)		Aroclor 1248 ...					8.902		8.902	E3	0.00
32)		Aroclor 1248 (6)					8.141		8.141	E3	0.00
33)		Aroclor 1248 ...							0.000		-1.00
34)		Aroclor 1254 ...					8.474		8.474	E3	0.00
35)		Aroclor 1254 ...					1.391		1.391	E4	0.00
36)		Aroclor 1254 ...					1.517		1.517	E4	0.00
37)		Aroclor 1254 ...					1.092		1.092	E4	0.00
38)		Aroclor 1254 ...					1.125		1.125	E4	0.00
39)		Aroclor 1254 (6)					3.527		3.527	E3	0.00
40)		Aroclor 1254 ...							0.000		-1.00
41)		Aroclor 1260 ...	1.182	1.082	1.060	1.047	1.016	1.012	1.053	E4	6.43 ✓
42)		Aroclor 1260 ...	1.405	1.313	1.321	1.256	1.230	1.230	1.276	E4	5.91 ✓
43)		Aroclor 1260 (3)	1.412	1.348	1.327	1.372	1.308	1.296	1.326	E4	4.63 ✓
44)		Aroclor 1260 (4)	2.073	2.096	2.051	2.126	2.099	2.189	2.115	E4	2.39 ✓
45)		Aroclor 1260 (5)	1.290	1.217	1.220	1.236	1.214	1.207	1.223	E4	2.75 ✓
46)		Aroclor 1260 (6)	5.119	5.238	4.789	5.045	4.784	4.595	4.880	E3	5.26 ✓
47)		Aroclor 1260 ...							0.000		-1.00
48)		Aroclor 1262 (1)					1.057		1.057	E4	0.00
49)		Aroclor 1262 (2)					1.528		1.528	E4	0.00
50)		Aroclor 1262 (3)					1.280		1.280	E4	0.00
51)		Aroclor 1262 (4)					2.752		2.752	E4	0.00
52)		Aroclor 1262 (5)					1.642		1.642	E4	0.00
53)		Aroclor 1262 (6)					7.201		7.201	E3	0.00
54)		Aroclor 1262 ...							0.000		-1.00
55)		Aroclor 1268 (1)					6.232		6.232	E3	0.00
56)		Aroclor 1268 (2)					2.777		2.777	E4	0.00
57)		Aroclor 1268 (3)					2.252		2.252	E4	0.00
58)		Aroclor 1268 (4)					1.925		1.925	E4	0.00
59)		Aroclor 1268 (5)					7.823		7.823	E3	0.00
60)		Aroclor 1268 (6)					5.062		5.062	E4	0.00

Response Factor Report HP G1530A

Method Path : L:\Methods\
Method File : RECD2_QUANTPCB_200113.M
Title : PCB Data Analysis
Last Update : Tue Jan 14 09:35:58 2020
Response Via : Initial Calibration

Calibration Files
1 =ECD2R005.D 2 =ECD2R006.D 3 =ECD2R007.D
4 =ECD2R008.D 5 =ECD2R020.D 6 =ECD2R010.D

	Compound	1	2	3	4	5	6	Avg	%RSD
61)	Aroclor 1268 ...							0.000	-1.00
62) S	DCBP (S)	1.071	1.102	1.079	1.089	1.009	1.172	1.112 E5	7.40

(#) = Out of Range ### Number of calibration levels exceeded format ###

Compound List Report HP G1530A

Method Path : L:\Methods\
Method File : RECD2_QUANTPCB_200113.M
Title : PCB Data Analysis
Last Update : Tue Jan 14 09:35:58 2020
Response Via : Initial Calibration

Total Cpnds : 62

1/15/20

PK#		Compound Name	Exp_RT	Rel_RT	Cal	A/H	ID
1	S	TCMX (S)	5.629	1.000	A	H	R
2		Aroclor 1016 (1)	6.300	1.000	A	H	R
3		Aroclor 1016 (2)	6.789	1.000	A	H	R
4		Aroclor 1016 (3)	6.916	1.000	A	H	R
5		Aroclor 1016 (4)	7.003	1.000	A	H	R
6		Aroclor 1016 (5)	7.048	1.000	A	H	R
7		Aroclor 1016 (6)	7.173	1.000	A	H	R
8		Aroclor 1016 - AVE	1.729	1.000	A	H	R
9		Aroclor 1221 (1)	5.806	1.000	A	H	R
10		Aroclor 1221 (2)	5.878	1.000	A	H	R
11		Aroclor 1221 (3)	5.965	1.000	A	H	R
12		Aroclor 1221 - AVE	1.729	1.000	A	H	R
13		Aroclor 1232 (1)	5.963	1.000	A	H	R
14		Aroclor 1232 (2)	6.298	1.000	A	H	R
15		Aroclor 1232 (3)	6.789	1.000	A	H	R
16		Aroclor 1232 (4)	7.002	1.000	A	H	R
17		Aroclor 1232 (5)	7.047	1.000	A	H	R
18		Aroclor 1232 (6)	7.172	1.000	A	H	R
19		Aroclor 1232 - AVE	1.729	1.000	A	H	R
20		Aroclor 1242 (1)	6.299	1.000	A	H	R
21		Aroclor 1242 (2)	6.788	1.000	A	H	R
22		Aroclor 1242 (3)	6.916	1.000	A	H	R
23		Aroclor 1242 (4)	7.003	1.000	A	H	R
24		Aroclor 1242 (5)	7.047	1.000	A	H	R
25		Aroclor 1242 (6)	7.172	1.000	A	H	R
26		Aroclor 1242 - AVE	1.729	1.000	A	H	R
27		Aroclor 1248 (1)	6.761	1.000	A	H	R
28		Aroclor 1248 (2)	7.003	1.000	A	H	R
29		Aroclor 1248 (3)	7.047	1.000	A	H	R
30		Aroclor 1248 (4)	7.172	1.000	A	H	R
31		Aroclor 1248 (5)	7.538	1.000	A	H	R
32		Aroclor 1248 (6)	7.695	1.000	A	H	R
33		Aroclor 1248 - AVE	1.729	1.000	A	H	R
34		Aroclor 1254 (1)	7.515	1.000	A	H	R
35		Aroclor 1254 (2)	7.696	1.000	A	H	R
36		Aroclor 1254 (3)	8.006	1.000	A	H	R
37		Aroclor 1254 (4)	8.246	1.000	A	H	R
38		Aroclor 1254 (5)	8.580	1.000	A	H	R
39		Aroclor 1254 (6)	8.810	1.000	A	H	R
40		Aroclor 1254 - AVE	1.729	1.000	A	H	R
41		Aroclor 1260 (1)	8.144	1.000	A	H	R
42		Aroclor 1260 (2)	8.350	1.000	A	H	R
43		Aroclor 1260 (3)	8.582	1.000	A	H	R
44		Aroclor 1260 (4)	9.066	1.000	A	H	R
45		Aroclor 1260 (5)	9.324	1.000	A	H	R
46		Aroclor 1260 (6)	9.890	1.000	A	H	R
47		Aroclor 1260 - AVE	1.729	1.000	A	H	R
48		Aroclor 1262 (1)	8.349	1.000	A	H	R
49		Aroclor 1262 (2)	8.650	1.000	A	H	R
50		Aroclor 1262 (3)	8.828	1.000	A	H	R
51		Aroclor 1262 (4)	9.065	1.000	A	H	R
52		Aroclor 1262 (5)	9.324	1.000	A	H	R
53		Aroclor 1262 (6)	9.888	1.000	A	H	R
54		Aroclor 1262 - AVE	1.729	1.000	A	H	R
55		Aroclor 1268 (1)	8.867	1.000	A	H	R
56		Aroclor 1268 (2)	9.324	1.000	A	H	R

57		Aroclor 1268 (3)	9.390	1.000	A	H	R
58		Aroclor 1268 (4)	9.601	1.000	A	H	R
59		Aroclor 1268 (5)	9.888	1.000	A	H	R
60		Aroclor 1268 (6)	10.237	1.000	A	H	R
61		Aroclor 1268 - AVE	1.728	1.000	A	H	R
62	S	DCBP (S)	10.552	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

RECD2_QUANTPCB_200113.M Tue Jan 14 11:43:59 2020

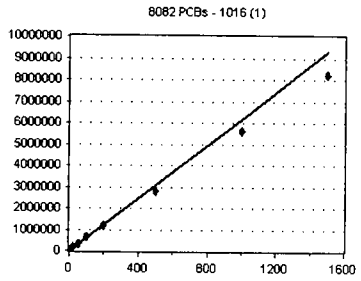
Element Calibration Review Sheet

Calibration ID: **A0A1501** Instrument: **DUALECD2R** Calibration Date: **01/15/2020**

Analysis: **8082 PCBs** Instrument Cal ID: **RECD2_QUANTPCB_20011**

1016 (1)

Curve Fit: **AVERAGE RF**

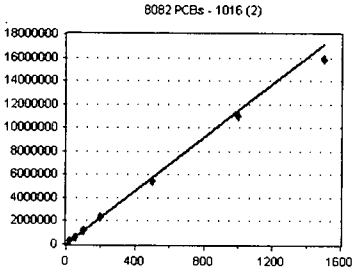


Standard	Concentration	Response	Response Factor	RT
0A13050-CAL1	20	145279	7263.950	6.30
0A13050-CAL2	50	343821	6876.420	6.30
0A13050-CAL3	100	639728	6397.280	6.30
0A13050-CAL4	200	1190843	5954.215	6.30
0A13050-CAL5	500	2835860	5671.720	6.30
0A13050-CAL6	1000	5624087	5624.087	6.30
0A13050-CAL7	1500	8229290	5486.193	6.30

AVE RF **6181.981** RF RSD **11.06** AVE RT **6.30**

1016 (2)

Curve Fit: **AVERAGE RF**

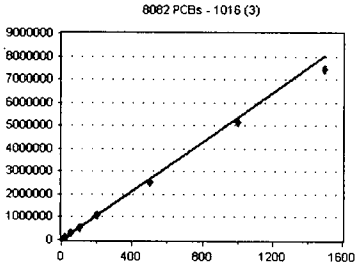


Standard	Concentration	Response	Response Factor	RT
0A13050-CAL1	20	249458	12472.900	6.79
0A13050-CAL2	50	597996	11959.920	6.79
0A13050-CAL3	100	1142660	11426.600	6.79
0A13050-CAL4	200	2334544	11672.720	6.79
0A13050-CAL5	500	5484312	10968.620	6.79
0A13050-CAL6	1000	102544E+07	11025.440	6.79
0A13050-CAL7	1500	584486E+07	10563.240	6.79

AVE RF **11441.350** RF RSD **5.70** AVE RT **6.79**

1016 (3)

Curve Fit: **AVERAGE RF**

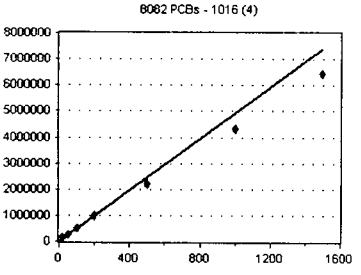


Standard	Concentration	Response	Response Factor	RT
0A13050-CAL1	20	116035	5801.750	6.92
0A13050-CAL2	50	290069	5801.380	6.92
0A13050-CAL3	100	536991	5369.910	6.92
0A13050-CAL4	200	1067264	5336.320	6.92
0A13050-CAL5	500	2538905	5077.810	6.92
0A13050-CAL6	1000	5145954	5145.954	6.92
0A13050-CAL7	1500	7443643	4962.429	6.92

AVE RF **5356.508** RF RSD **6.26** AVE RT **6.92**

1016 (4)

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0A13050-CAL1	20	117409	5870.450	7.00
0A13050-CAL2	50	278534	5570.680	7.00
0A13050-CAL3	100	519409	5194.090	7.00
0A13050-CAL4	200	981904	4909.520	7.00
0A13050-CAL5	500	2203390	4406.780	7.00
0A13050-CAL6	1000	4338878	4338.878	7.00
0A13050-CAL7	1500	6442401	4294.934	7.00

AVE RF **4940.762** RF RSD **12.78** AVE RT **7.00**

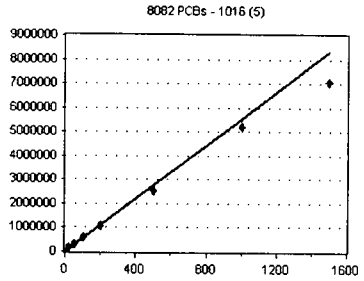
Element Calibration Review Sheet

Calibration ID: **A0A1501** Instrument: **DUALECD2R** Calibration Date: **01/15/2020**

Analysis: **8082 PCBs** Instrument Cal ID: **RECD2_QUANTPCB_20011**

1016 (5)

Curve Fit: **AVERAGE RF**

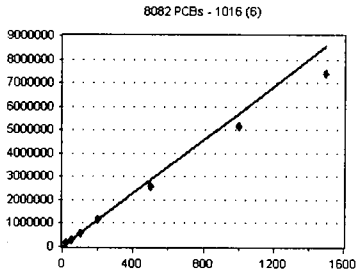


Standard	Concentration	Response	Response Factor	RT
0A13050-CAL1	20	131375	6568.750	7.05
0A13050-CAL2	50	307931	6158.620	7.05
0A13050-CAL3	100	569313	5693.130	7.05
0A13050-CAL4	200	1076394	5381.970	7.05
0A13050-CAL5	500	2536989	5073.978	7.05
0A13050-CAL6	1000	5224293	5224.293	7.05
0A13050-CAL7	1500	7076827	4717.885	7.05

AVE RF **5545.518** RF RSD **11.60** AVE RT **7.05**

1016 (6)

Curve Fit: **AVERAGE RF**

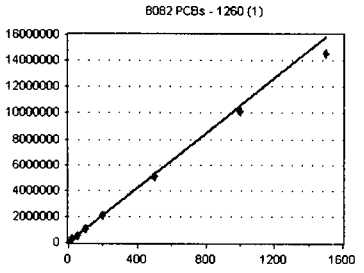


Standard	Concentration	Response	Response Factor	RT
0A13050-CAL1	20	135212	6760.600	7.17
0A13050-CAL2	50	315508	6310.160	7.17
0A13050-CAL3	100	588135	5881.350	7.17
0A13050-CAL4	200	1160064	5800.320	7.17
0A13050-CAL5	500	2573883	5147.766	7.17
0A13050-CAL6	1000	5149713	5149.713	7.17
0A13050-CAL7	1500	7407214	4938.143	7.17

AVE RF **5712.579** RF RSD **11.80** AVE RT **7.17**

1260 (1)

Curve Fit: **AVERAGE RF**

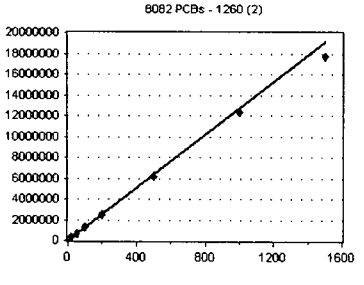


Standard	Concentration	Response	Response Factor	RT
0A13050-CAL1	20	236430	11821.500	8.14
0A13050-CAL2	50	540959	10819.180	8.14
0A13050-CAL3	100	1060465	10604.650	8.14
0A13050-CAL4	200	2093221	10466.110	8.14
0A13050-CAL5	500	5080914	10161.830	8.14
0A13050-CAL6	1000	012309E+07	10123.090	8.14
0A13050-CAL7	1500	454805E+07	9698.700	8.14

AVE RF **10527.860** RF RSD **6.43** AVE RT **8.14**

1260 (2)

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0A13050-CAL1	20	280991	14049.550	8.35
0A13050-CAL2	50	656411	13128.220	8.35
0A13050-CAL3	100	1321460	13214.600	8.35
0A13050-CAL4	200	2511397	12556.990	8.35
0A13050-CAL5	500	6152313	12304.630	8.35
0A13050-CAL6	1000	229876E+07	12298.760	8.35
0A13050-CAL7	1500	767673E+07	11784.490	8.35

AVE RF **12762.460** RF RSD **5.91** AVE RT **8.35**

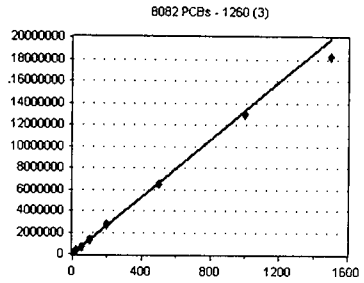
Element Calibration Review Sheet

Calibration ID: **A0A1501** Instrument: **DUALECD2R** Calibration Date: **01/15/2020**

Analysis: **8082 PCBs** Instrument Cal ID: **RECD2_QUANTPCB_20011**

1260 (3)

Curve Fit: **AVERAGE RF**

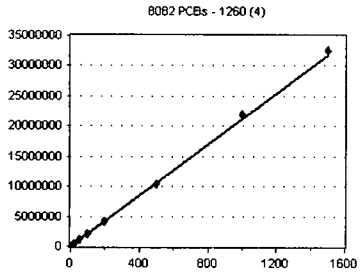


Standard	Concentration	Response	Response Factor	RT
0A13050-CAL1	20	282360	14118.000	8.58
0A13050-CAL2	50	674172	13483.440	8.58
0A13050-CAL3	100	1327338	13273.380	8.58
0A13050-CAL4	200	2744238	13721.190	8.58
0A13050-CAL5	500	6540031	13080.060	8.58
0A13050-CAL6	1000	296167E+07	12961.670	8.58
0A13050-CAL7	1500	828554E+07	12190.360	8.58

AVE RF **13261.160** RF RSD **4.63** AVE RT **8.58**

1260 (4)

Curve Fit: **AVERAGE RF**

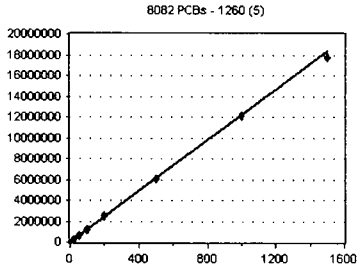


Standard	Concentration	Response	Response Factor	RT
0A13050-CAL1	20	414593	20729.650	9.07
0A13050-CAL2	50	1047953	20959.060	9.07
0A13050-CAL3	100	2051063	20510.630	9.07
0A13050-CAL4	200	4251874	21259.370	9.07
0A13050-CAL5	500	049673E+07	20993.460	9.07
0A13050-CAL6	1000	188659E+07	21886.590	9.07
0A13050-CAL7	1500	259284E+07	21728.560	9.07

AVE RF **21152.470** RF RSD **2.39** AVE RT **9.07**

1260 (5)

Curve Fit: **AVERAGE RF**

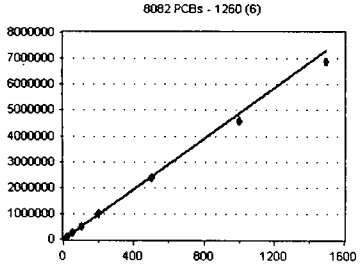


Standard	Concentration	Response	Response Factor	RT
0A13050-CAL1	20	257901	12895.050	9.33
0A13050-CAL2	50	608364	12167.280	9.33
0A13050-CAL3	100	1220407	12204.070	9.33
0A13050-CAL4	200	2471890	12359.450	9.33
0A13050-CAL5	500	6070844	12141.690	9.33
0A13050-CAL6	1000	207436E+07	12074.360	9.33
0A13050-CAL7	1500	770177E+07	11801.180	9.33

AVE RF **12234.730** RF RSD **2.75** AVE RT **9.33**

1260 (6)

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0A13050-CAL1	20	102375	5118.750	9.89
0A13050-CAL2	50	261903	5238.060	9.89
0A13050-CAL3	100	478851	4788.510	9.89
0A13050-CAL4	200	1008936	5044.680	9.89
0A13050-CAL5	500	2392226	4784.452	9.89
0A13050-CAL6	1000	4594659	4594.659	9.89
0A13050-CAL7	1500	6885880	4590.586	9.89

AVE RF **4879.957** RF RSD **5.26** AVE RT **9.89**

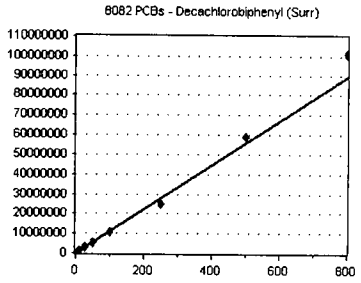
Element Calibration Review Sheet

Calibration ID: **A0A1501** Instrument: **DUALECD2R** Calibration Date: **01/15/2020**

Analysis: **8082 PCBs** Instrument Cal ID: **RECD2_QUANTPCB_20011**

Decachlorobiphenyl (Surr)

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0A13050-CAL1	10	1070638	107063.800	10.55
0A13050-CAL2	25	2755983	110239.300	10.55
0A13050-CAL3	50	5396453	107929.100	10.55
0A13050-CAL4	100	089172E+07	108917.200	10.55
0A13050-CAL5	250	521832E+07	100873.300	10.55
0A13050-CAL6	500	859571E+07	117191.400	10.55
0A13050-CAL7	800	010814E+08	126351.800	10.55

AVE RF **111223.700** RF RSD **7.40** AVE RT **10.55**

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 0A13050

Analysis Included

1311/8082 TCLP PCBs
608 PCBs
608 PCBs - LL (1000/1mL) +1262/68
8082 PCBs
8082 PCBs - Low Level (2mL FV)
8082 PCBs - Low Level (2mL FV) +1262/68
8082 PCBs - Low Level (1000/1mL)
8082 PCBs - Low Level (1000/1mL) +1262/68
8082 PCBs - Low Level (30g/2mL)
8082 PCBs + 1262/1268
8082 PCBs in Trans. Oil - LL

INSTRUMENT SEQUENCE LOG

SampleID	SampleName	Matrix	STDID	ISTD ID	Analyzed
0A13050-ICB1	Initial Cal Blank	Water	A19L339		1/13/2020 5:15:00PM
0A13050-CAL1	Cal Standard	Water	A19L280	"	1/13/2020 5:33:00PM
0A13050-CAL2	Cal Standard	Water	A19L281	"	1/13/2020 5:50:00PM
0A13050-CAL3	Cal Standard	Water	A19L282	"	1/13/2020 6:08:00PM
0A13050-CAL4	Cal Standard	Water	A19L283	"	1/13/2020 6:25:00PM
0A13050-CAL5	Cal Standard	Water	A19L276	"	1/13/2020 6:43:00PM
0A13050-CAL6	Cal Standard	Water	A19L278	"	1/13/2020 7:01:00PM
0A13050-CAL7	Cal Standard	Water	A19L279	"	1/13/2020 7:18:00PM
0A13050-ICV1	Initial Cal Check	Water	A19H459	"	1/13/2020 7:54:00PM
0A13050-CAL8	Cal Standard	Water	A19H447	"	1/13/2020 8:11:00PM
0A13050-CAL9	Cal Standard	Water	A19H448	"	1/13/2020 8:29:00PM
0A13050-CALA	Cal Standard	Water	A19H449	"	1/13/2020 8:46:00PM
0A13050-CALB	Cal Standard	Water	A19H450	"	1/13/2020 9:04:00PM
0A13050-CALC	Cal Standard	Water	A19H451	"	1/13/2020 9:22:00PM
0A13050-CALD	Cal Standard	Water	A19H452	"	1/13/2020 9:39:00PM
0A13050-CALE	Cal Standard	Water	A19H453	"	1/13/2020 9:57:00PM
0A13050-ICV2	Initial Cal Check	Water	A19H405	"	1/13/2020 10:15:00PM
0A13050-ICV3	Initial Cal Check	Water	A19J367	"	1/13/2020 10:32:00PM
0A13050-ICV4	Initial Cal Check	Water	A19H406	"	1/13/2020 10:50:00PM
0A13050-ICV5	Initial Cal Check	Water	A19L037	"	1/14/2020 8:02:00AM

CALIBRATION STANDARD RECOVERIES

Calibration: A0A1501 Instrument: DUALECD2R

1311/8082 TCLP PCBs Sequence: 0A13050 Matrix: Water

0A13050-CAL1	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
Aroclor 1016	0.0000	0.00	20.0	0	
Aroclor 1260	0.0000	0.00	20.0	0	
Aroclor 1016	0.0000	0.00	20.0	0	
Aroclor 1260	0.0000	0.00	20.0	0	

0A13050-CAL2	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
Aroclor 1016	0.0000	0.00	50.0	0	
Aroclor 1260	0.0000	0.00	50.0	0	

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 0A13050

Aroclor 1016	0.0000	0.00	50.0	0
Aroclor 1260	0.0000	0.00	50.0	0

0A13050-CAL3	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
Aroclor 1016	0.0000	0.00	100	0	
Aroclor 1260	0.0000	0.00	100	0	
Aroclor 1016	0.0000	0.00	100	0	
Aroclor 1260	0.0000	0.00	100	0	

0A13050-CAL4	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
Aroclor 1016	0.0000	0.00	200	0	
Aroclor 1260	0.0000	0.00	200	0	
Aroclor 1016	0.0000	0.00	200	0	
Aroclor 1260	0.0000	0.00	200	0	

0A13050-CAL5	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
Aroclor 1016	0.0000	0.00	500	0	
Aroclor 1260	0.0000	0.00	500	0	
Aroclor 1016	0.0000	0.00	500	0	
Aroclor 1260	0.0000	0.00	500	0	

0A13050-CAL6	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
Aroclor 1016	800.0000	0.00	1000	0	
Aroclor 1260	800.0000	0.00	1000	0	
Aroclor 1016	0.0000	0.00	1000	0	
Aroclor 1260	0.0000	0.00	1000	0	
Aroclor 1016	0.0000	0.00	1000	0	
Aroclor 1260	0.0000	0.00	1000	0	

0A13050-CAL7	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
Aroclor 1016	800.0000	0.00	1500	0	
Aroclor 1260	800.0000	0.00	1500	0	
Aroclor 1016	0.0000	0.00	1500	0	
Aroclor 1260	0.0000	0.00	1500	0	
Aroclor 1016	0.0000	0.00	1500	0	
Aroclor 1260	0.0000	0.00	1500	0	

0A13050-CAL8	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
Aroclor 1221	0.0000	0.00	500	0	
Aroclor 1221	0.0000	0.00	500	0	

0A13050-CAL9	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
Aroclor 1232	0.0000	0.00	500	0	
Aroclor 1232	0.0000	0.00	500	0	

0A13050-CALA	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
Aroclor 1242	0.0000	0.00	500	0	
Aroclor 1242	0.0000	0.00	500	0	

0A13050-CALB	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
Aroclor 1248	0.0000	0.00	500	0	
Aroclor 1248	0.0000	0.00	500	0	

0A13050-CALC	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
Aroclor 1254	0.0000	0.00	500	0	
Aroclor 1254	0.0000	0.00	500	0	

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 0A13050

0A13050-CALD	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
Aroclor 1262	0.0000	0.00	500	0	
Aroclor 1262	0.0000	0.00	500	0	

0A13050-CALE	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
Aroclor 1268	0.0000	0.00	500	0	
Aroclor 1268	0.0000	0.00	500	0	

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 quadatic fit compounds.

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 otpion, they must be checked against the requanted curve points to determine if the recalculated results are within limits (70-130 or as specified).

ICV RECOVERIES

Calibration: **A0A1501** Instrument: **DUALECD2R**

608 PCBs - LL (1000/1mL) +1 Sequence: **0A13050** Matrix: **Water**

0A13050-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.

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R004.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 17:15
Operator : MJB / KAK
Sample : 0A13050-ICB1
Misc : [redacted]
ALS Vial : 53 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 11:23:02 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

1/14/20
clean

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
1) S	TCMX (S)	5.630	20489642	90.812 ng/ml
62) S	DCBP (S)	10.551	10248760	92.145 ng/ml
	Target Compounds			
2)	Aroclor 1016 (1)	6.307	2281	0.369 ng/ml
3)	Aroclor 1016 (2)	6.801	10752	0.940 ng/ml
4)	Aroclor 1016 (3)	6.911	6858	1.280 ng/ml
5)	Aroclor 1016 (4)	7.004	8287	1.677 ng/ml
6)	Aroclor 1016 (5)	7.042	8379	1.511 ng/ml
7)	Aroclor 1016 (6)	7.167	10112	1.770 ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9)	Aroclor 1221 (1)	5.806	6155	3.543 ng/ml
10)	Aroclor 1221 (2)	5.880	2591	1.509 ng/ml
11)	Aroclor 1221 (3)	5.949	32038	5.614 ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13)	Aroclor 1232 (1)	5.949	32038	7.010 ng/ml
14)	Aroclor 1232 (2)	6.307	2281	0.877 ng/ml
15)	Aroclor 1232 (3)	6.801	10752	2.198 ng/ml
16)	Aroclor 1232 (4)	7.004	8287	4.898 ng/ml
17)	Aroclor 1232 (5)	7.042	8379	4.027 ng/ml
18)	Aroclor 1232 (6)	7.167	10112	4.661 ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20)	Aroclor 1242 (1)	6.307	2281	0.502 ng/ml
21)	Aroclor 1242 (2)	6.801	10752	1.219 ng/ml
22)	Aroclor 1242 (3)	6.911	6858	1.791 ng/ml
23)	Aroclor 1242 (4)	7.004	8287	2.509 ng/ml
24)	Aroclor 1242 (5)	7.042	8379	2.098 ng/ml
25)	Aroclor 1242 (6)	7.167	10112	2.425 ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27)	Aroclor 1248 (1)	6.756	5790	1.122 ng/ml
28)	Aroclor 1248 (2)	7.004	8287	1.303 ng/ml
29)	Aroclor 1248 (3)	7.042	8379	1.412 ng/ml
30)	Aroclor 1248 (4)	7.167	10112	1.386 ng/ml
31)	Aroclor 1248 (5)	7.538	44690	5.020 ng/ml
32)	Aroclor 1248 (6)	7.679	43107	5.295 ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34)	Aroclor 1254 (1)	7.495	12470	1.472 ng/ml
35)	Aroclor 1254 (2)	7.679	43107	3.099 ng/ml
36)	Aroclor 1254 (3)	8.002	12574	0.829 ng/ml
37)	Aroclor 1254 (4)	8.266	37477	3.433 ng/ml
38)	Aroclor 1254 (5)	8.581	4733	0.421 ng/ml
39)	Aroclor 1254 (6)	8.814	1031	0.292 ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41)	Aroclor 1260 (1)	8.144	11404	1.083 ng/ml
42)	Aroclor 1260 (2)	8.351	8866	0.695 ng/ml
43)	Aroclor 1260 (3)	8.581	4733	0.357 ng/ml
44)	Aroclor 1260 (4)	9.066	3813	0.180 ng/ml
45)	Aroclor 1260 (5)	9.322	4847	0.396 ng/ml
46)	Aroclor 1260 (6)	9.899	14949	3.063 ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R004.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 17:15
Operator : MJB / KAK
Sample : 0A13050-ICB1
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 11:23:02 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

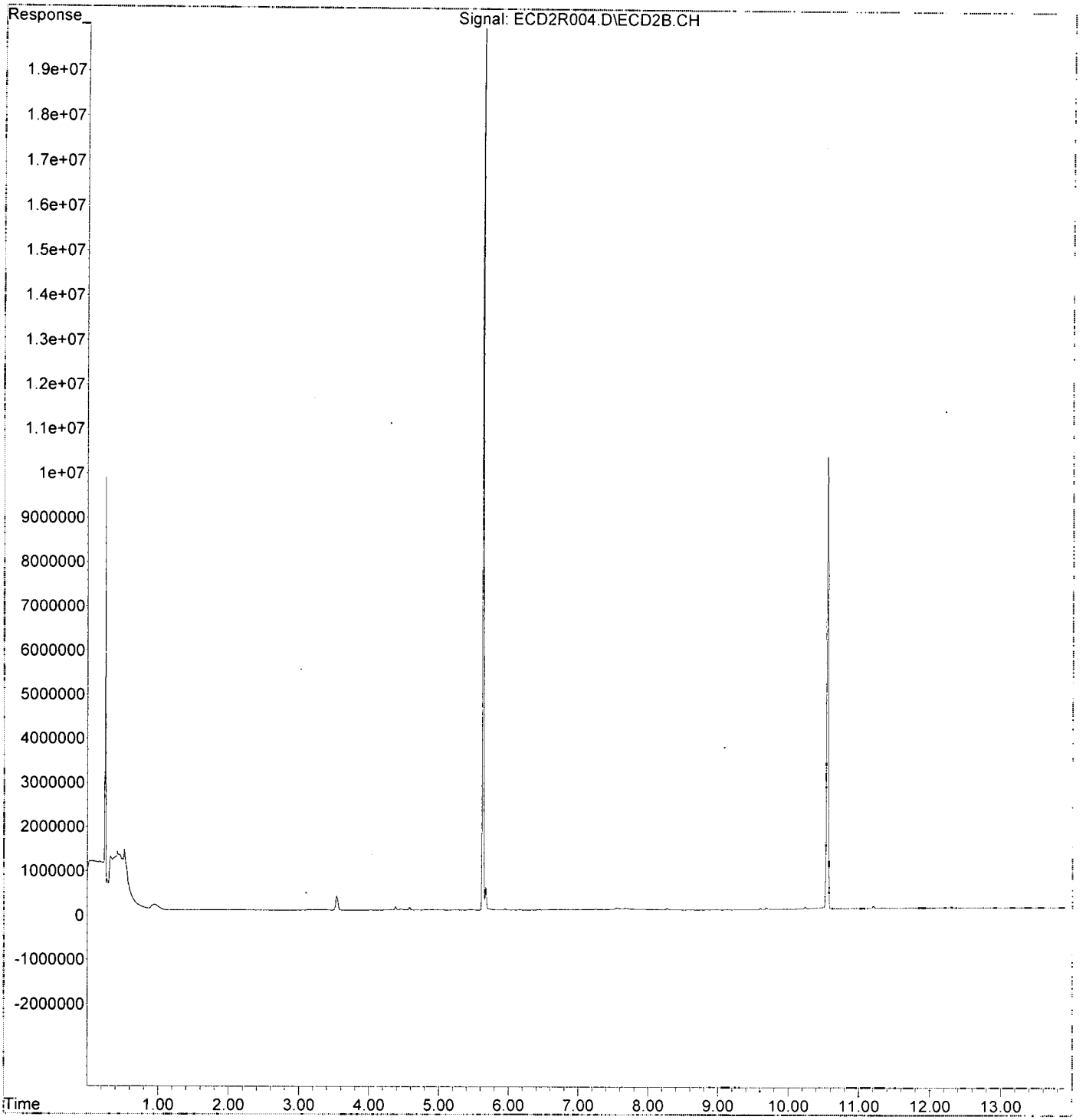
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	8.351	8866	0.839 ng/ml
49)	Aroclor 1262 (2)	8.652	2754	0.180 ng/ml
50)	Aroclor 1262 (3)	8.829	2251	0.176 ng/ml
51)	Aroclor 1262 (4)	9.066	3813	0.139 ng/ml
52)	Aroclor 1262 (5)	9.322	4847	0.295 ng/ml
53)	Aroclor 1262 (6)	9.899	14949	2.076 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.867	1260	0.202 ng/ml
56)	Aroclor 1268 (2)	9.322	4847	0.175 ng/ml
57)	Aroclor 1268 (3)	9.393	5166	0.229 ng/ml
58)	Aroclor 1268 (4)	9.605	45322	2.354 ng/ml
59)	Aroclor 1268 (5)	9.899	14949	1.911 ng/ml
60)	Aroclor 1268 (6)	10.242	60375	1.193 ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D. ng/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R004.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 17:15
Operator : MJB / KAK
Sample : 0A13050-ICB1
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 11:23:02 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R012.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 19:36
Operator : MJB / KAK
Sample : 0A13050-IBL1
Misc : [redacted]
ALS Vial : 51 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 11:23:31 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

1/14/20

clean

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
1)	S	TCMX (S)	5.626	1688	0.007	ng/ml
62)	S	DCBP (S)	10.549	12235	0.110	ng/ml
		Target Compounds				
2)		Aroclor 1016 (1)	6.301	11225	1.816	ng/ml
3)		Aroclor 1016 (2)	6.790	16600	1.451	ng/ml
4)		Aroclor 1016 (3)	6.922	16045	2.995	ng/ml
5)		Aroclor 1016 (4)	7.002	17187	3.479	ng/ml
6)		Aroclor 1016 (5)	7.050	17297	3.119	ng/ml
7)		Aroclor 1016 (6)	7.177	20261	3.547	ng/ml
8)		Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)		Aroclor 1221 (1)	5.809	10729	6.175	ng/ml
10)		Aroclor 1221 (2)	5.875	9335	5.437	ng/ml
11)		Aroclor 1221 (3)	5.964	12881	2.257	ng/ml
12)		Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)		Aroclor 1232 (1)	5.964	12881	2.819	ng/ml
14)		Aroclor 1232 (2)	6.296	11019	4.234	ng/ml
15)		Aroclor 1232 (3)	6.790	16600	3.393	ng/ml
16)		Aroclor 1232 (4)	7.002	17187	10.159	ng/ml
17)		Aroclor 1232 (5)	7.050	17297	8.313	ng/ml
18)		Aroclor 1232 (6)	7.177	20261	9.338	ng/ml
19)		Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)		Aroclor 1242 (1)	6.301	11225	2.469	ng/ml
21)		Aroclor 1242 (2)	6.790	16600	1.882	ng/ml
22)		Aroclor 1242 (3)	6.922	16045	4.189	ng/ml
23)		Aroclor 1242 (4)	7.002	17187	5.203	ng/ml
24)		Aroclor 1242 (5)	7.050	17297	4.331	ng/ml
25)		Aroclor 1242 (6)	7.177	20261	4.858	ng/ml
26)		Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)		Aroclor 1248 (1)	6.733	14917	2.890	ng/ml
28)		Aroclor 1248 (2)	7.002	17187	2.703	ng/ml
29)		Aroclor 1248 (3)	7.050	17297	2.914	ng/ml
30)		Aroclor 1248 (4)	7.177	20261	2.777	ng/ml
31)		Aroclor 1248 (5)	7.539	40332	4.531	ng/ml
32)		Aroclor 1248 (6)	7.688	50144	6.159	ng/ml
33)		Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)		Aroclor 1254 (1)	7.500	20521	2.422	ng/ml
35)		Aroclor 1254 (2)	7.688	50144	3.605	ng/ml
36)		Aroclor 1254 (3)	8.005	20501	1.351	ng/ml
37)		Aroclor 1254 (4)	8.229	15200	1.392	ng/ml
38)		Aroclor 1254 (5)	8.580	11034	0.981	ng/ml
39)		Aroclor 1254 (6)	8.795	231	0.065	ng/ml
40)		Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)		Aroclor 1260 (1)	8.145	19053	1.810	ng/ml
42)		Aroclor 1260 (2)	8.351	14859	1.164	ng/ml
43)		Aroclor 1260 (3)	8.584	10985	0.828	ng/ml
44)		Aroclor 1260 (4)	9.068	8772	0.415	ng/ml
45)		Aroclor 1260 (5)	9.323	6842	0.559	ng/ml
46)		Aroclor 1260 (6)	9.889	5119	1.049	ng/ml
47)		Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R012.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 19:36
Operator : MJB / KAK
Sample : 0A13050-IBL1
Misc :
ALS Vial : 51 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 11:23:31 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

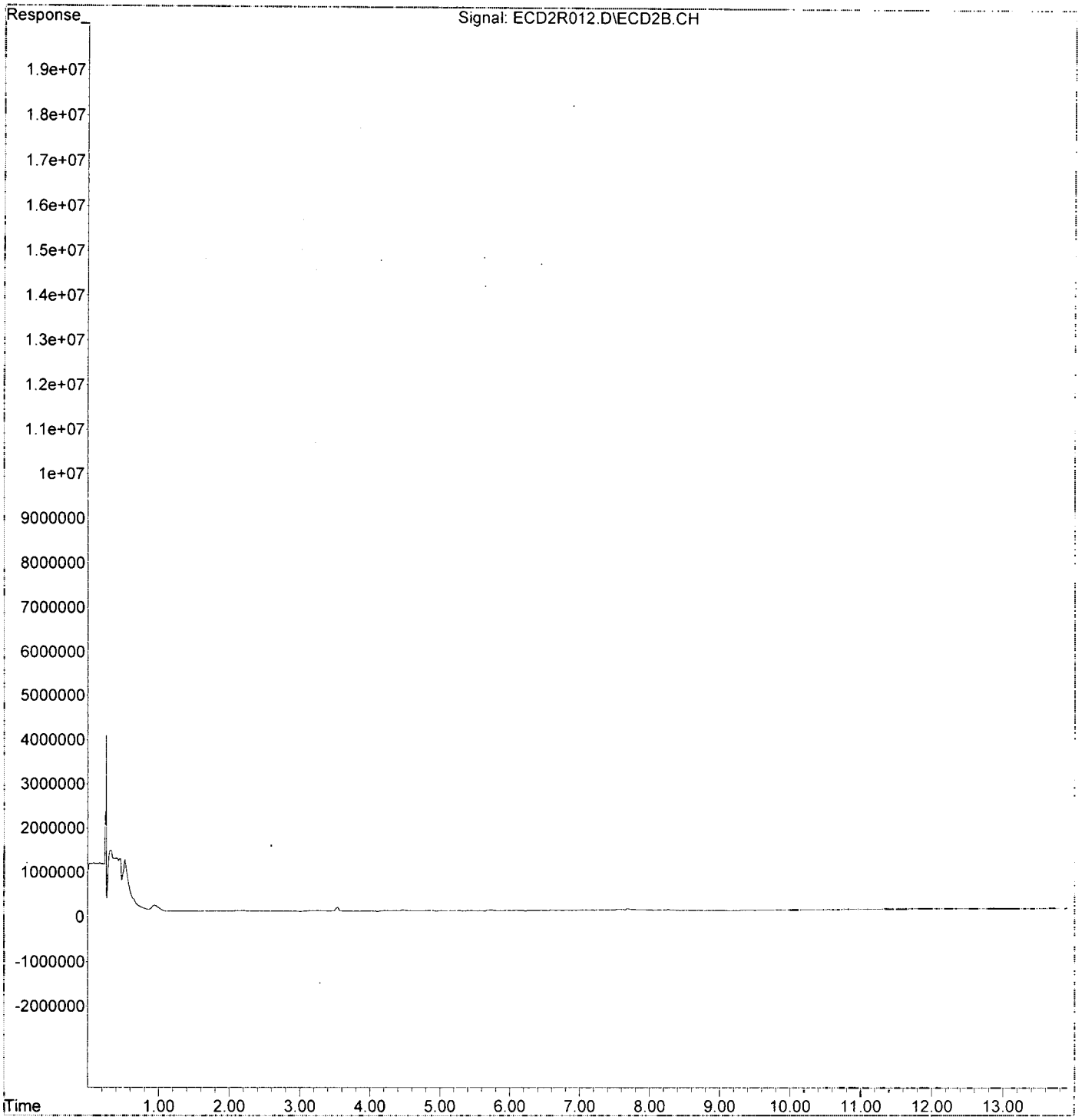
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	8.351	14859	1.406 ng/ml
49)	Aroclor 1262 (2)	8.648	8953	0.586 ng/ml
50)	Aroclor 1262 (3)	8.830	8859	0.692 ng/ml
51)	Aroclor 1262 (4)	9.068	8772	0.319 ng/ml
52)	Aroclor 1262 (5)	9.323	6842	0.417 ng/ml
53)	Aroclor 1262 (6)	9.889	5119	0.711 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.866	6961	1.117 ng/ml
56)	Aroclor 1268 (2)	9.323	6842	0.246 ng/ml
57)	Aroclor 1268 (3)	9.392	5187	0.230 ng/ml
58)	Aroclor 1268 (4)	9.602	4728	0.246 ng/ml
59)	Aroclor 1268 (5)	9.889	5119	0.654 ng/ml
60)	Aroclor 1268 (6)	10.234	4357	0.086 ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D. ng/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R012.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 19:36
Operator : MJB / KAK
Sample : 0A13050-IBL1
Misc :
ALS Vial : 51 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 11:23:31 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R013.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 19:54
Operator : MJB / KAK
Sample : 0A13050-ICV1
Misc : [redacted]
ALS Vial : 61 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:37:43 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

1/14/20

1016, 1260

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	5.630	42078237	186.496	ng/ml
62)	S DCBP (S)	10.551	20822783	187.215	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.301	2889380	467.387	ng/ml
3)	Aroclor 1016 (2)	6.790	5607269	490.088	ng/ml
4)	Aroclor 1016 (3)	6.917	2567499	479.323	ng/ml
5)	Aroclor 1016 (4)	7.004	2249246	455.243	ng/ml
6)	Aroclor 1016 (5)	7.048	2695002	485.978	ng/ml
7)	Aroclor 1016 (6)	7.174	2593036	453.917	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.805	201677	116.072	ng/ml
10)	Aroclor 1221 (2)	5.878	410071	238.833	ng/ml
11)	Aroclor 1221 (3)	5.965	1966837	344.635	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.965	1966837	430.380	ng/ml
14)	Aroclor 1232 (2)	6.301	2889380	1110.133	ng/ml
15)	Aroclor 1232 (3)	6.790	5607269	1146.221	ng/ml
16)	Aroclor 1232 (4)	7.004	2249246	1329.470	ng/ml
17)	Aroclor 1232 (5)	7.048	2695002	1295.148	ng/ml
18)	Aroclor 1232 (6)	7.174	2593036	1195.127	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.301	2889380	635.541	ng/ml
21)	Aroclor 1242 (2)	6.790	5607269	635.568	ng/ml
22)	Aroclor 1242 (3)	6.917	2567499	670.336	ng/ml
23)	Aroclor 1242 (4)	7.004	2249246	680.849	ng/ml
24)	Aroclor 1242 (5)	7.048	2695002	674.775	ng/ml
25)	Aroclor 1242 (6)	7.174	2593036	621.710	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.763	4488766	869.574	ng/ml
28)	Aroclor 1248 (2)	7.004	2249246	353.691	ng/ml
29)	Aroclor 1248 (3)	7.048	2695002	454.027	ng/ml
30)	Aroclor 1248 (4)	7.174	2593036	355.429	ng/ml
31)	Aroclor 1248 (5)	7.539	576503	64.763	ng/ml
32)	Aroclor 1248 (6)	7.698	2400401	294.846	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.516	2114363	249.516	ng/ml
35)	Aroclor 1254 (2)	7.698	2400401	172.569	ng/ml
36)	Aroclor 1254 (3)	8.008	1313048	86.531	ng/ml
37)	Aroclor 1254 (4)	8.247	825780	75.645	ng/ml
38)	Aroclor 1254 (5)	8.583	7455081	662.753	ng/ml
39)	Aroclor 1254 (6)	8.801	882029	250.066	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	8.144	5628529	534.632	ng/ml
42)	Aroclor 1260 (2)	8.350	7018796	549.956	ng/ml
43)	Aroclor 1260 (3)	8.583	7455081	562.174	ng/ml
44)	Aroclor 1260 (4)	9.067	10304134	487.136	ng/ml
45)	Aroclor 1260 (5)	9.325	6100150	498.593	ng/ml
46)	Aroclor 1260 (6)	9.890	1867409	382.669	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

471.989

502.527

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R013.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 19:54
Operator : MJB / KAK
Sample : 0A13050-ICV1
Misc :
ALS Vial : 61 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:37:43 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

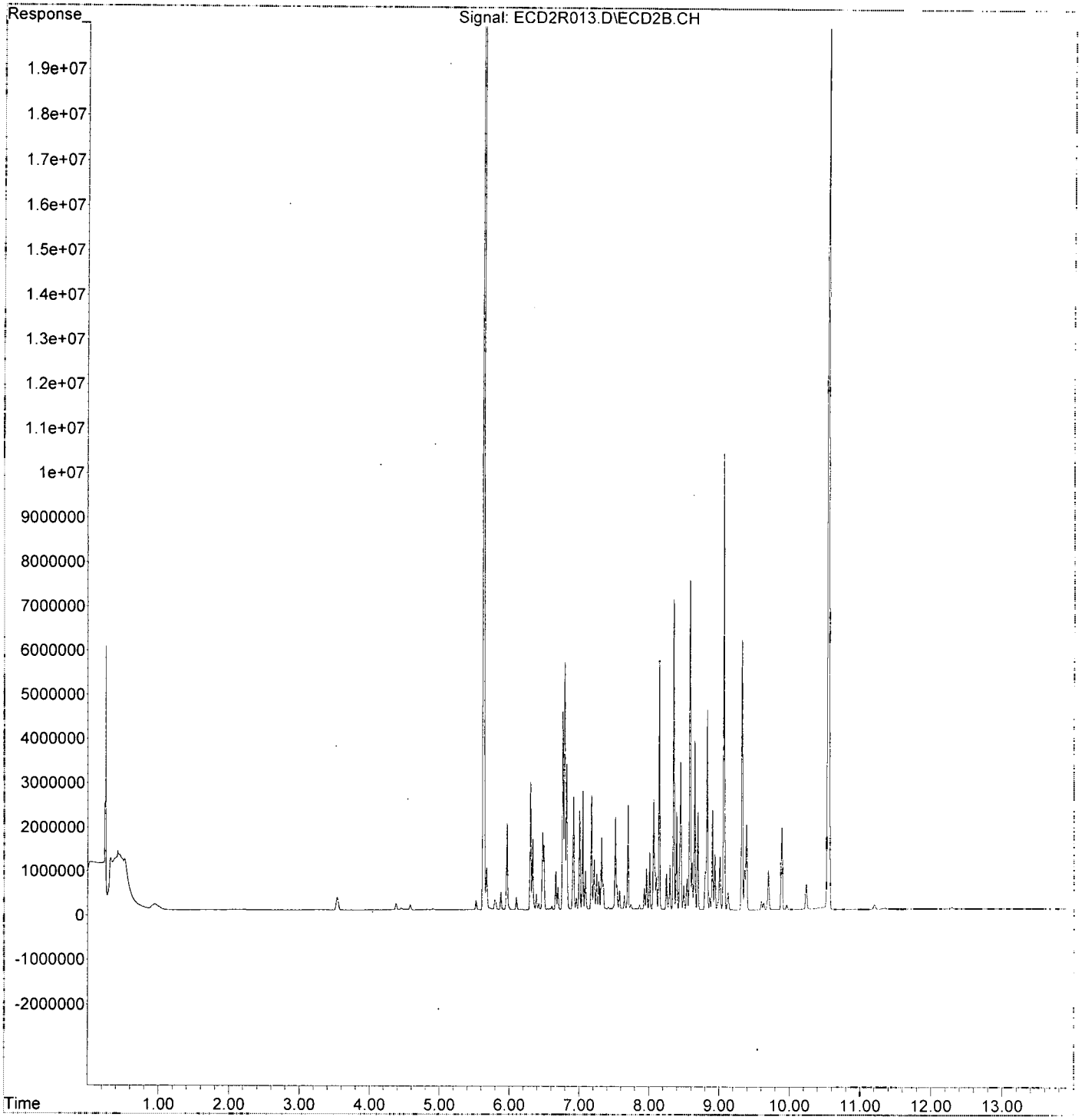
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	8.350	7018796	663.923 ng/ml
49)	Aroclor 1262 (2)	8.651	3830979	250.759 ng/ml
50)	Aroclor 1262 (3)	8.829	4526983	353.555 ng/ml
51)	Aroclor 1262 (4)	9.067	10304134	374.361 ng/ml
52)	Aroclor 1262 (5)	9.325	6100150	371.517 ng/ml
53)	Aroclor 1262 (6)	9.890	1867409	259.343 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.869	290538	46.619 ng/ml
56)	Aroclor 1268 (2)	9.325	6100150	219.694 ng/ml
57)	Aroclor 1268 (3)	9.389	1939101	86.120 ng/ml
58)	Aroclor 1268 (4)	9.604	197089	10.237 ng/ml
59)	Aroclor 1268 (5)	9.890	1867409	238.702 ng/ml
60)	Aroclor 1268 (6)	10.239	589830	11.653 ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D. ng/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R013.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 19:54
Operator : MJB / KAK
Sample : 0A13050-ICV1
Misc :
ALS Vial : 61 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:37:43 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R021.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 22:15
Operator : MJB / KAK
Sample : 0A13050-ICV2
Misc : [redacted]
ALS Vial : 69 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:38:18 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

1/14/20
1221, 1254

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	5.627	8366007	37.079	ng/ml
62)	S DCBP (S)	10.548	9358034	84.137	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.299	530484	85.811	ng/ml
3)	Aroclor 1016 (2)	6.789	860190	75.183	ng/ml
4)	Aroclor 1016 (3)	6.916	419193	78.259	ng/ml
5)	Aroclor 1016 (4)	7.003	2660118	538.403	ng/ml
6)	Aroclor 1016 (5)	7.047	962899	173.636	ng/ml
7)	Aroclor 1016 (6)	7.173	1702556	298.036	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.805	1591287	915.838	ng/ml
10)	Aroclor 1221 (2)	5.876	1584717	922.969	ng/ml
11)	Aroclor 1221 (3)	5.964	5308894	930.240	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.964	5308894	1161.684	ng/ml
14)	Aroclor 1232 (2)	6.299	530484	203.818	ng/ml
15)	Aroclor 1232 (3)	6.789	860190	175.837	ng/ml
16)	Aroclor 1232 (4)	7.003	2660118	1572.325	ng/ml
17)	Aroclor 1232 (5)	7.047	962899	462.744	ng/ml
18)	Aroclor 1232 (6)	7.173	1702556	784.706	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.299	530484	116.684	ng/ml
21)	Aroclor 1242 (2)	6.789	860190	97.500	ng/ml
22)	Aroclor 1242 (3)	6.916	419193	109.445	ng/ml
23)	Aroclor 1242 (4)	7.003	2660118	805.220	ng/ml
24)	Aroclor 1242 (5)	7.047	962899	241.091	ng/ml
25)	Aroclor 1242 (6)	7.173	1702556	408.207	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.762	678412	131.424	ng/ml
28)	Aroclor 1248 (2)	7.003	2660118	418.300	ng/ml
29)	Aroclor 1248 (3)	7.047	962899	162.220	ng/ml
30)	Aroclor 1248 (4)	7.173	1702556	233.370	ng/ml
31)	Aroclor 1248 (5)	7.538	2699412	303.245	ng/ml
32)	Aroclor 1248 (6)	7.697	7172222	880.977	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.516	4718199	556.795	ng/ml
35)	Aroclor 1254 (2)	7.697	7172222	515.622	ng/ml
36)	Aroclor 1254 (3)	8.008	7608333	501.395	ng/ml
37)	Aroclor 1254 (4)	8.246	5568780	510.126	ng/ml
38)	Aroclor 1254 (5)	8.580	5642709	501.634	ng/ml
39)	Aroclor 1254 (6)	8.811	1659515	470.493	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	8.142	2581769	245.232	ng/ml
42)	Aroclor 1260 (2)	8.349	3126649	244.988	ng/ml
43)	Aroclor 1260 (3)	8.580	5642709	425.506	ng/ml
44)	Aroclor 1260 (4)	9.065	944219	44.639	ng/ml
45)	Aroclor 1260 (5)	9.323	736233	60.176	ng/ml
46)	Aroclor 1260 (6)	9.889	56325	11.542	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

923.016

509.344

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R021.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 22:15
Operator : MJB / KAK
Sample : 0A13050-ICV2
Misc :
ALS Vial : 69 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:38:18 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

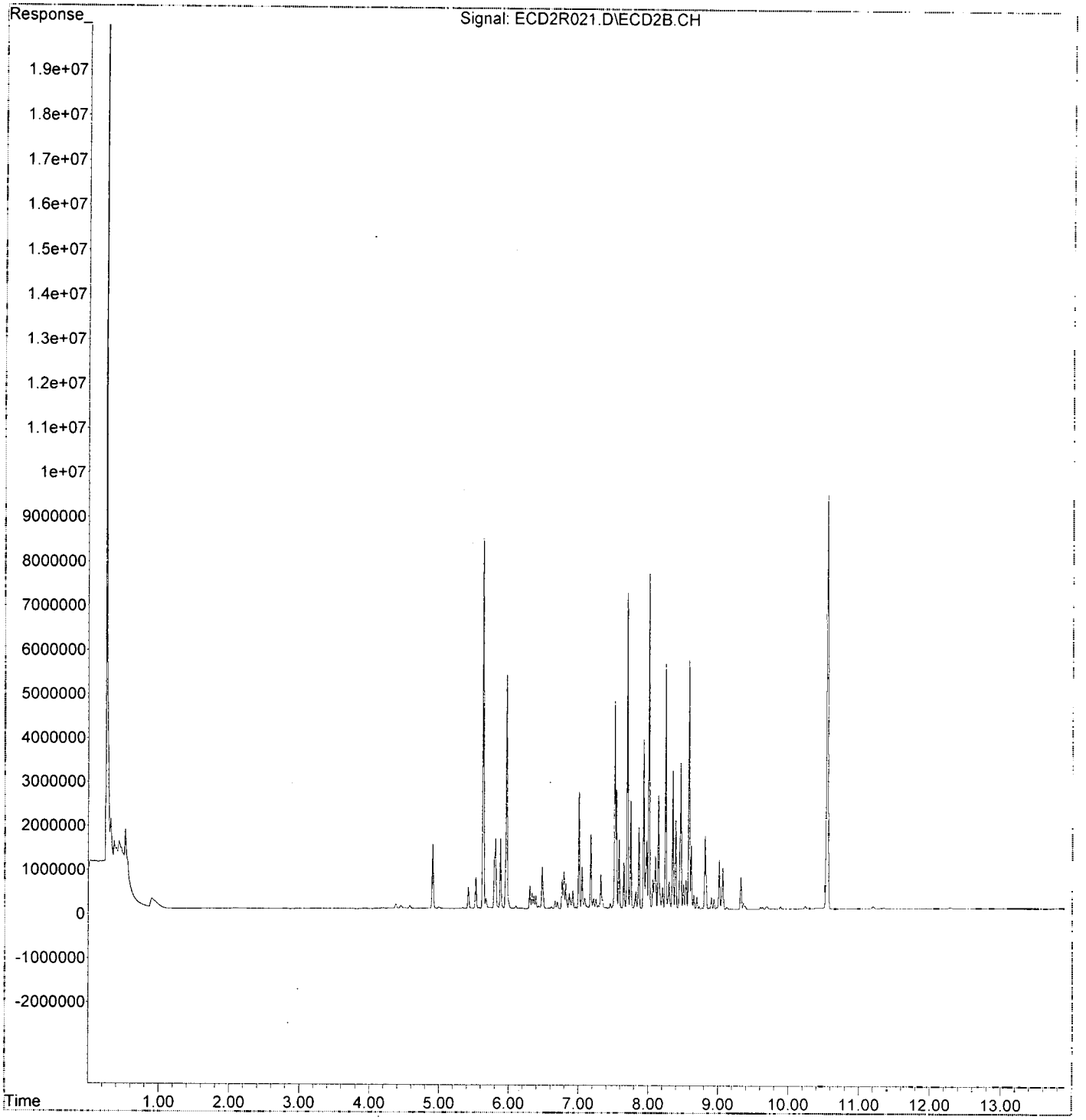
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	8.349	3126649	295.757	ng/ml
49)	Aroclor 1262 (2)	8.649	316091	20.690	ng/ml
50)	Aroclor 1262 (3)	8.811	1659515	129.607	ng/ml
51)	Aroclor 1262 (4)	9.065	944219	34.305	ng/ml
52)	Aroclor 1262 (5)	9.323	736233	44.839	ng/ml
53)	Aroclor 1262 (6)	9.889	56325	7.822	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	8.870	37976	6.093	ng/ml
56)	Aroclor 1268 (2)	9.323	736233	26.515	ng/ml
57)	Aroclor 1268 (3)	9.385	69099	3.069	ng/ml
58)	Aroclor 1268 (4)	9.604	39433	2.048	ng/ml
59)	Aroclor 1268 (5)	9.889	56325	7.200	ng/ml
60)	Aroclor 1268 (6)	10.240	59800	1.181	ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R021.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 22:15
Operator : MJB / KAK
Sample : 0A13050-ICV2
Misc :
ALS Vial : 69 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:38:18 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R022.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 22:32
Operator : MJB / KAK
Sample : 0A13050-ICV3
Misc : [redacted]
ALS Vial : 70 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:38:51 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

1/14/20

1232, 1262

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	5.627	8656583	38.367	ng/ml
62)	S DCBP (S)	10.549	9384526	84.375	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.299	1350246	218.416	ng/ml
3)	Aroclor 1016 (2)	6.789	2443408	213.559	ng/ml
4)	Aroclor 1016 (3)	6.916	1134572	211.812	ng/ml
5)	Aroclor 1016 (4)	7.002	928356	187.898	ng/ml
6)	Aroclor 1016 (5)	7.047	1047657	188.920	ng/ml
7)	Aroclor 1016 (6)	7.172	1131966	198.153	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.805	531565	305.933	ng/ml
10)	Aroclor 1221 (2)	5.877	604859	352.281	ng/ml
11)	Aroclor 1221 (3)	5.964	2221641	389.283	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.964	2221641	486.136	ng/ml
14)	Aroclor 1232 (2)	6.299	1350246	518.780	ng/ml
15)	Aroclor 1232 (3)	6.789	2443408	499.474	ng/ml
16)	Aroclor 1232 (4)	7.002	928356	548.727	ng/ml
17)	Aroclor 1232 (5)	7.047	1047657	503.477	ng/ml
18)	Aroclor 1232 (6)	7.172	1131966	521.721	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.299	1350246	296.997	ng/ml
21)	Aroclor 1242 (2)	6.789	2443408	276.953	ng/ml
22)	Aroclor 1242 (3)	6.916	1134572	296.220	ng/ml
23)	Aroclor 1242 (4)	7.002	928356	281.014	ng/ml
24)	Aroclor 1242 (5)	7.047	1047657	262.312	ng/ml
25)	Aroclor 1242 (6)	7.172	1131966	271.402	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.762	1888334	365.812	ng/ml
28)	Aroclor 1248 (2)	7.002	928356	145.983	ng/ml
29)	Aroclor 1248 (3)	7.047	1047657	176.499	ng/ml
30)	Aroclor 1248 (4)	7.172	1131966	155.159	ng/ml
31)	Aroclor 1248 (5)	7.538	1351685	151.845	ng/ml
32)	Aroclor 1248 (6)	7.696	1745059	214.349	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.518	1328075	156.726	ng/ml
35)	Aroclor 1254 (2)	7.696	1745059	125.455	ng/ml
36)	Aroclor 1254 (3)	8.007	705753	46.510	ng/ml
37)	Aroclor 1254 (4)	8.246	542138	49.662	ng/ml
38)	Aroclor 1254 (5)	8.582	4080262	362.733	ng/ml
39)	Aroclor 1254 (6)	8.797	1286937	364.863	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	8.143	4275414	406.105	ng/ml
42)	Aroclor 1260 (2)	8.349	5037521	394.714	ng/ml
43)	Aroclor 1260 (3)	8.582	4080262	307.685	ng/ml
44)	Aroclor 1260 (4)	9.065	12366178	584.621	ng/ml
45)	Aroclor 1260 (5)	9.324	7304758	597.051	ng/ml
46)	Aroclor 1260 (6)	9.889	3314208	679.147	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

513.053

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R022.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 22:32
Operator : MJB / KAK
Sample : 0A13050-ICV3
Misc :
ALS Vial : 70 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:38:51 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	8.349	5037521	476.510	ng/ml
49)	Aroclor 1262 (2)	8.650	6862374	449.182	ng/ml
50)	Aroclor 1262 (3)	8.827	5598953	437.275	ng/ml
51)	Aroclor 1262 (4)	9.065	12366178	449.277	ng/ml
52)	Aroclor 1262 (5)	9.324	7304758	444.882	ng/ml
53)	Aroclor 1262 (6)	9.889	3314208	460.273	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	8.868	758406	121.692	ng/ml
56)	Aroclor 1268 (2)	9.324	7304758	263.078	ng/ml
57)	Aroclor 1268 (3)	9.388	3944690	175.193	ng/ml
58)	Aroclor 1268 (4)	9.601	308022	15.998	ng/ml
59)	Aroclor 1268 (5)	9.889	3314208	423.639	ng/ml
60)	Aroclor 1268 (6)	10.238	1086007	21.456	ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/ml

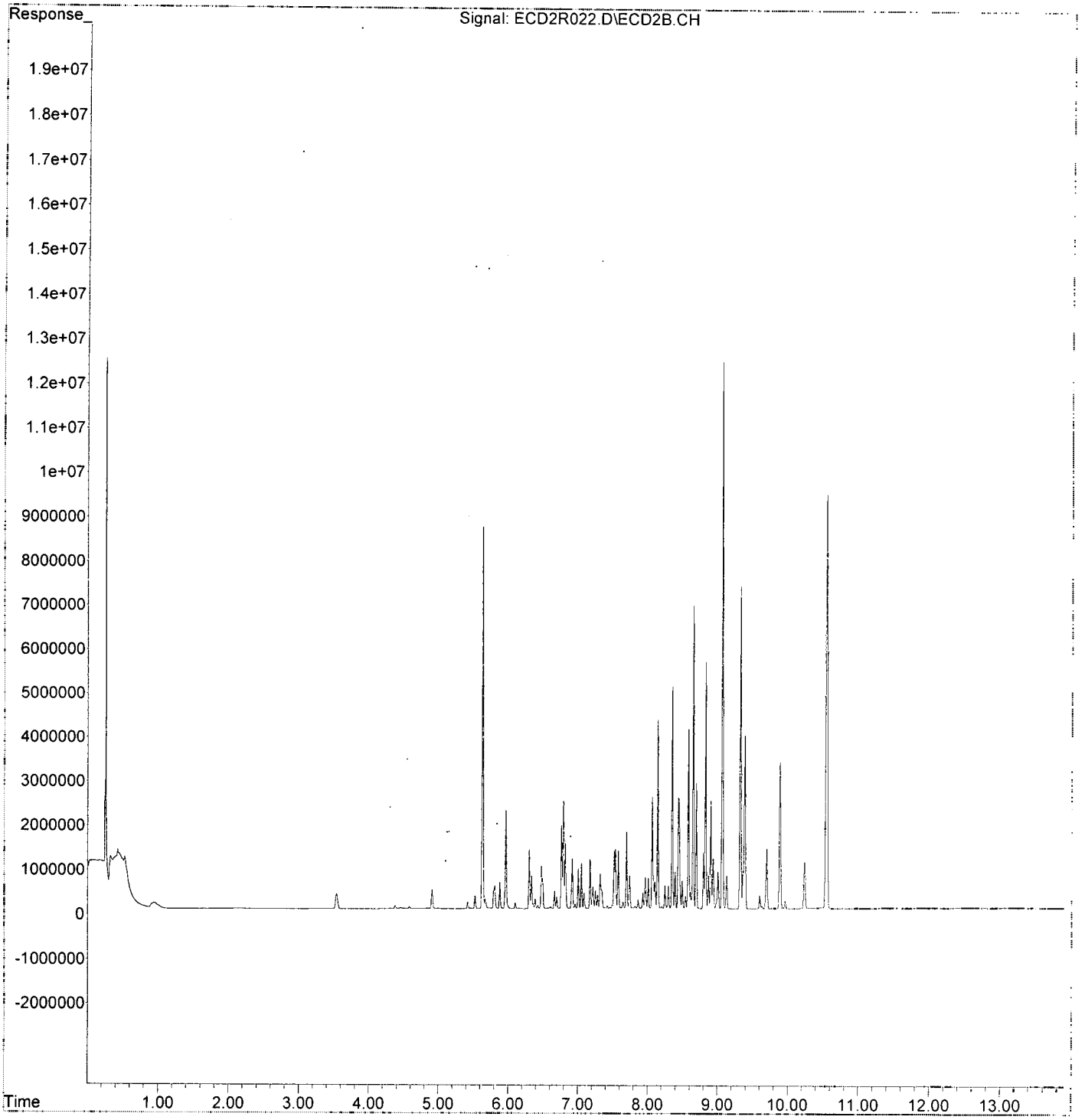
452.900

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R022.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 22:32
Operator : MJB / KAK
Sample : 0A13050-ICV3
Misc :
ALS Vial : 70 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:38:51 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R023.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 22:50
Operator : MJB / KAK
Sample : 0A13050-ICV4
Misc :
ALS Vial : 71 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:39:27 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

1/14/20

1242, 1268

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	5.627	9226068	40.891	ng/ml
62) S	DCBP (S)	10.548	4337702	39.000	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.299	2413373	390.388	ng/ml
3)	Aroclor 1016 (2)	6.788	4561837	398.715	ng/ml
4)	Aroclor 1016 (3)	6.915	2111530	394.199	ng/ml
5)	Aroclor 1016 (4)	7.003	1711882	346.482	ng/ml
6)	Aroclor 1016 (5)	7.047	2043722	368.536	ng/ml
7)	Aroclor 1016 (6)	7.173	2181722	381.916	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.804	182381	104.966	ng/ml
10)	Aroclor 1221 (2)	5.876	369568	215.243	ng/ml
11)	Aroclor 1221 (3)	5.964	1712969	300.152	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.964	1712969	374.829	ng/ml
14)	Aroclor 1232 (2)	6.299	2413373	927.246	ng/ml
15)	Aroclor 1232 (3)	6.788	4561837	932.517	ng/ml
16)	Aroclor 1232 (4)	7.003	1711882	1011.848	ng/ml
17)	Aroclor 1232 (5)	7.047	2043722	982.160	ng/ml
18)	Aroclor 1232 (6)	7.173	2181722	1005.553	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.299	2413373	530.840	ng/ml
21)	Aroclor 1242 (2)	6.788	4561837	517.071	ng/ml
22)	Aroclor 1242 (3)	6.915	2111530	551.289	ng/ml
23)	Aroclor 1242 (4)	7.003	1711882	518.188	ng/ml
24)	Aroclor 1242 (5)	7.047	2043722	511.707	ng/ml
25)	Aroclor 1242 (6)	7.173	2181722	523.093	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.762	3611646	699.656	ng/ml
28)	Aroclor 1248 (2)	7.003	1711882	269.191	ng/ml
29)	Aroclor 1248 (3)	7.047	2043722	344.306	ng/ml
30)	Aroclor 1248 (4)	7.173	2181722	299.050	ng/ml
31)	Aroclor 1248 (5)	7.538	2591584	291.132	ng/ml
32)	Aroclor 1248 (6)	7.694	2020479	248.179	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.520	1648606	194.552	ng/ml
35)	Aroclor 1254 (2)	7.694	2020479	145.255	ng/ml
36)	Aroclor 1254 (3)	8.007	759688	50.064	ng/ml
37)	Aroclor 1254 (4)	8.246	528301	48.395	ng/ml
38)	Aroclor 1254 (5)	8.582	149523	13.293	ng/ml
39)	Aroclor 1254 (6)	8.797	123265	34.947	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	8.142	66974	6.362	ng/ml
42)	Aroclor 1260 (2)	8.346	120430	9.436	ng/ml
43)	Aroclor 1260 (3)	8.582	149523	11.275	ng/ml
44)	Aroclor 1260 (4)	9.065	1461812	69.108	ng/ml
45)	Aroclor 1260 (5)	9.324	13500094	1103.424	ng/ml
46)	Aroclor 1260 (6)	9.889	3935860	806.536	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

525.365

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R023.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 22:50
Operator : MJB / KAK
Sample : 0A13050-ICV4
Misc :
ALS Vial : 71 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:39:27 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	8.346	120430	11.392	ng/ml
49)	Aroclor 1262 (2)	8.650	2695648	176.446	ng/ml
50)	Aroclor 1262 (3)	8.827	202812	15.840	ng/ml
51)	Aroclor 1262 (4)	9.065	1461812	53.109	ng/ml
52)	Aroclor 1262 (5)	9.324	13500094	822.196	ng/ml
53)	Aroclor 1262 (6)	9.889	3935860	546.607	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	8.868	3124772	501.395	ng/ml
56)	Aroclor 1268 (2)	9.324	13500094	486.200	ng/ml
57)	Aroclor 1268 (3)	9.390	11777316	523.058	ng/ml
58)	Aroclor 1268 (4)	9.601	9243944	480.124	ng/ml
59)	Aroclor 1268 (5)	9.889	3935860	503.102	ng/ml
60)	Aroclor 1268 (6)	10.238	26494457	523.450	ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/ml

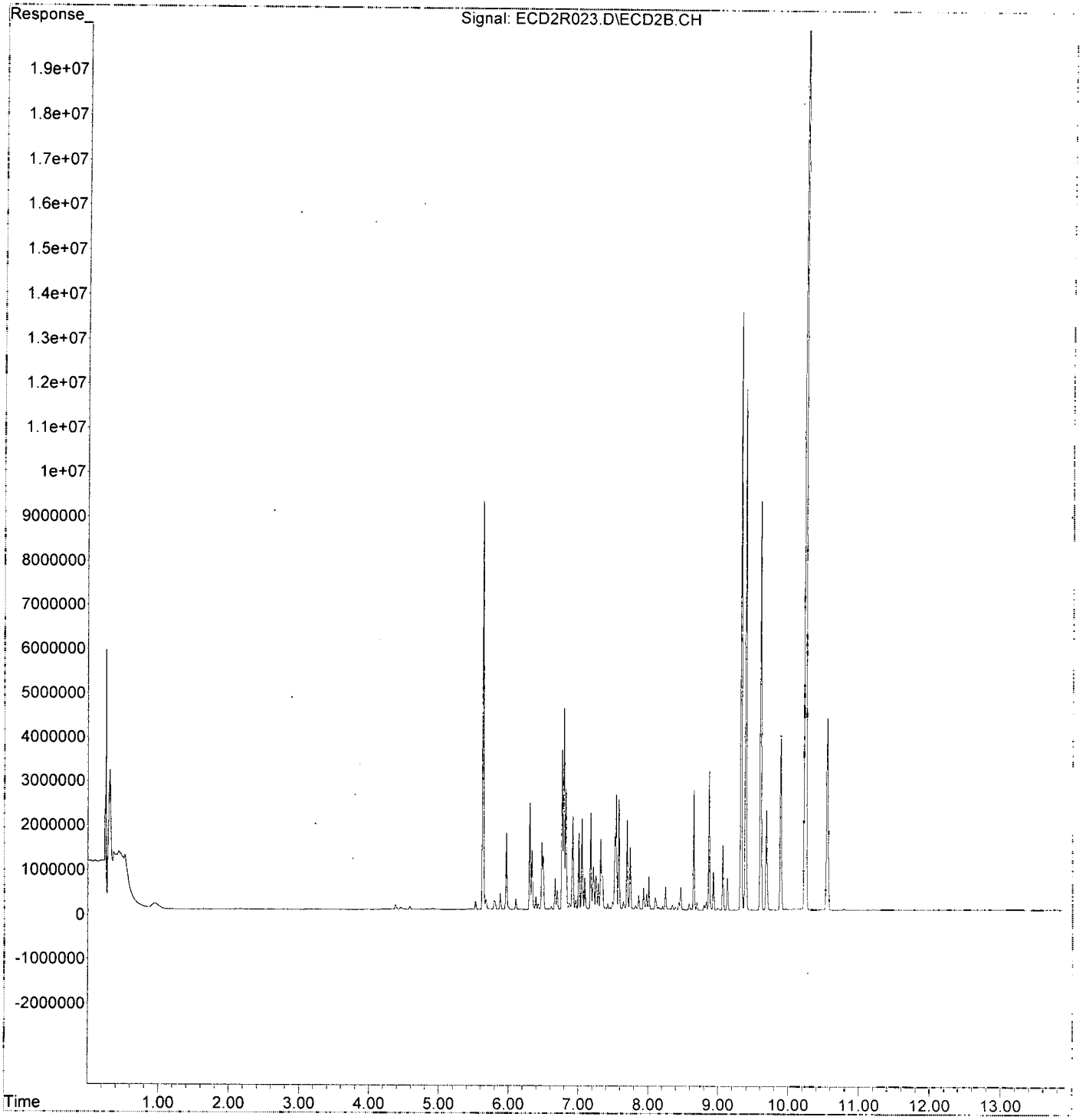
502.888

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R023.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 22:50
Operator : MJB / KAK
Sample : 0A13050-ICV4
Misc :
ALS Vial : 71 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:39:27 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R025.D
Signal(s) : ECD2B.CH
Acq On : 14 Jan 2020 8:02
Operator : MJB / KAK
Sample : 0A13050-ICV5
Misc : [redacted]
ALS Vial : 72 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:40:40 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

1/14/20

12AB

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
1) S	TCMX (S)	5.626	3813	0.017 ng/ml
62) S	DCBP (S)	10.549	7136	0.064 ng/ml
	Target Compounds			
2)	Aroclor 1016 (1)	6.300	1394431	225.564 ng/ml
3)	Aroclor 1016 (2)	6.790	2958219	258.555 ng/ml
4)	Aroclor 1016 (3)	6.914	1341022	250.354 ng/ml
5)	Aroclor 1016 (4)	7.004	3704379	749.759 ng/ml
6)	Aroclor 1016 (5)	7.049	3586571	646.751 ng/ml
7)	Aroclor 1016 (6)	7.174	4317847	755.849 ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9)	Aroclor 1221 (1)	5.804	21978	12.649 ng/ml
10)	Aroclor 1221 (2)	5.877	39285	22.880 ng/ml
11)	Aroclor 1221 (3)	5.964	217044	38.031 ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13)	Aroclor 1232 (1)	5.964	217044	47.493 ng/ml
14)	Aroclor 1232 (2)	6.300	1394431	535.756 ng/ml
15)	Aroclor 1232 (3)	6.790	2958219	604.710 ng/ml
16)	Aroclor 1232 (4)	7.004	3704379	2189.560 ng/ml
17)	Aroclor 1232 (5)	7.049	3586571	1723.613 ng/ml
18)	Aroclor 1232 (6)	7.174	4317847	1990.089 ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20)	Aroclor 1242 (1)	6.300	1394431	306.716 ng/ml
21)	Aroclor 1242 (2)	6.790	2958219	335.306 ng/ml
22)	Aroclor 1242 (3)	6.914	1341022	350.121 ng/ml
23)	Aroclor 1242 (4)	7.004	3704379	1121.319 ng/ml
24)	Aroclor 1242 (5)	7.049	3586571	898.006 ng/ml
25)	Aroclor 1242 (6)	7.174	4317847	1035.253 ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27)	Aroclor 1248 (1)	6.763	2856083	553.287 ng/ml
28)	Aroclor 1248 (2)	7.004	3704379	582.509 ng/ml
29)	Aroclor 1248 (3)	7.049	3586571	604.230 ng/ml
30)	Aroclor 1248 (4)	7.174	4317847	591.850 ng/ml
31)	Aroclor 1248 (5)	7.539	5461777	613.562 ng/ml
32)	Aroclor 1248 (6)	7.696	4885408	600.083 ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34)	Aroclor 1254 (1)	7.521	3710121	437.832 ng/ml
35)	Aroclor 1254 (2)	7.696	4885408	351.220 ng/ml
36)	Aroclor 1254 (3)	8.008	2831335	186.587 ng/ml
37)	Aroclor 1254 (4)	8.248	1962735	179.795 ng/ml
38)	Aroclor 1254 (5)	8.581	433653	38.552 ng/ml
39)	Aroclor 1254 (6)	8.811	168693	47.827 ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41)	Aroclor 1260 (1)	8.144	240144	22.810 ng/ml
42)	Aroclor 1260 (2)	8.347	321684	25.205 ng/ml
43)	Aroclor 1260 (3)	8.581	433653	32.701 ng/ml
44)	Aroclor 1260 (4)	9.066	86034	4.067 ng/ml
45)	Aroclor 1260 (5)	9.324	59779	4.886 ng/ml
46)	Aroclor 1260 (6)	9.890	17482	3.582 ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

590.920

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R025.D
Signal(s) : ECD2B.CH
Acq On : 14 Jan 2020 8:02
Operator : MJB / KAK
Sample : 0A13050-ICV5
Misc :
ALS Vial : 72 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:40:40 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

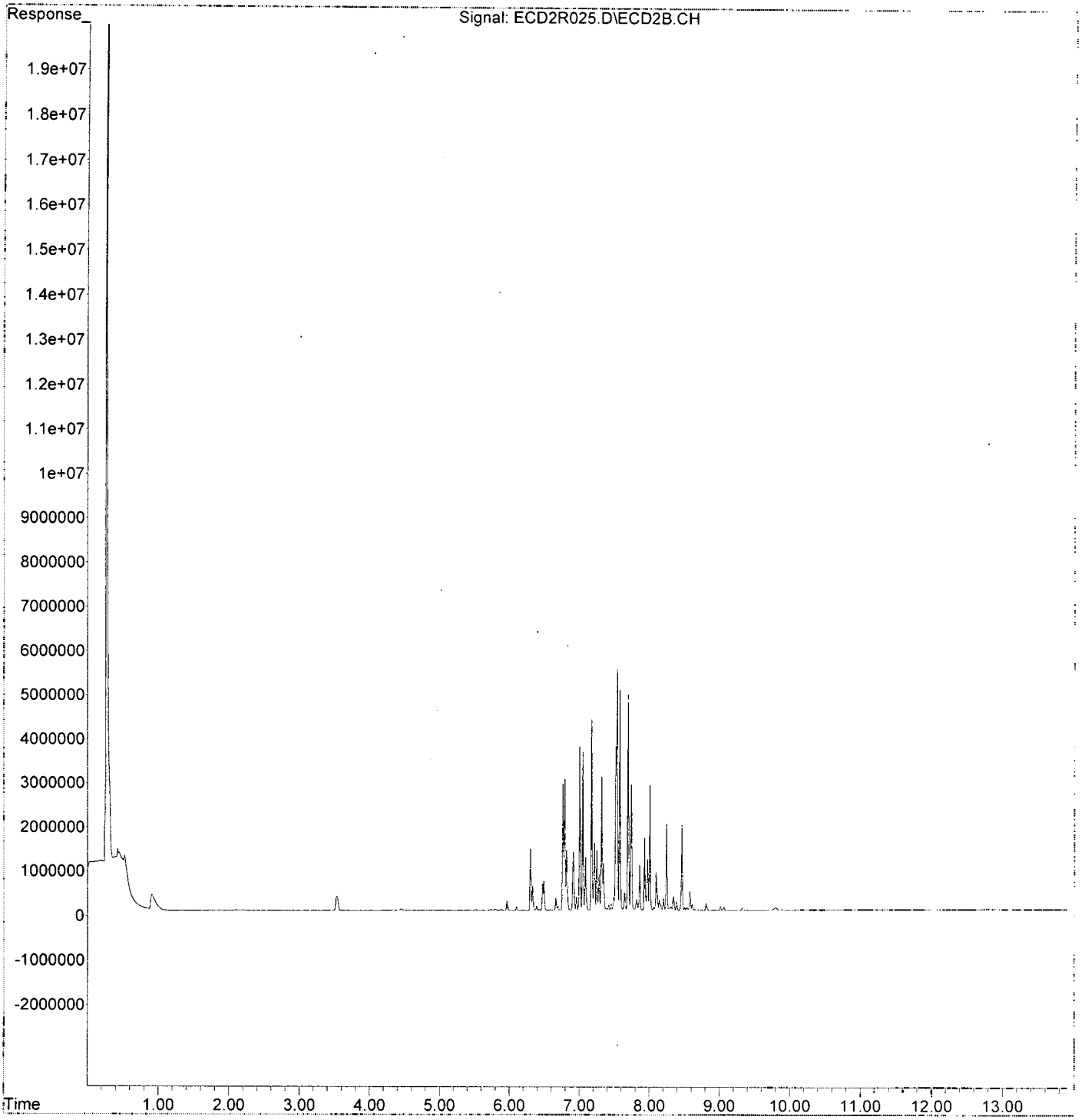
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	8.347	321684	30.429 ng/ml
49)	Aroclor 1262 (2)	8.651	34532	2.260 ng/ml
50)	Aroclor 1262 (3)	8.811	168693	13.175 ng/ml
51)	Aroclor 1262 (4)	9.066	86034	3.126 ng/ml
52)	Aroclor 1262 (5)	9.324	59779	3.641 ng/ml
53)	Aroclor 1262 (6)	9.890	17482	2.428 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.871	5093	0.817 ng/ml
56)	Aroclor 1268 (2)	9.324	59779	2.153 ng/ml
57)	Aroclor 1268 (3)	9.389	17646	0.784 ng/ml
58)	Aroclor 1268 (4)	9.602	2145	0.111 ng/ml
59)	Aroclor 1268 (5)	9.890	17482	2.235 ng/ml
60)	Aroclor 1268 (6)	10.239	7273	0.144 ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D. ng/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R025.D
Signal(s) : ECD2B.CH
Acq On : 14 Jan 2020 8:02
Operator : MJB / KAK
Sample : 0A13050-ICV5
Misc :
ALS Vial : 72 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:40:40 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\requant\
Data File : ECD2R005.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 17:33
Operator : MJB / KAK
Sample : 0A13050-CAL1
Misc :
ALS Vial : 54 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 11:03:11 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	5.628	2095506	9.288	ng/ml
62) S	DCBP (S)	10.551	1072604	9.644	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.300	145279	23.500	ng/ml
3)	Aroclor 1016 (2)	6.790	249458	21.803	ng/ml
4)	Aroclor 1016 (3)	6.917	116035	21.662	ng/ml
5)	Aroclor 1016 (4)	7.004	117409	23.763	ng/ml
6)	Aroclor 1016 (5)	7.049	131375	23.690	ng/ml
7)	Aroclor 1016 (6)	7.174	135212	23.669	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	0.000	0	N.D.	ng/mld
10)	Aroclor 1221 (2)	0.000	0	N.D.	ng/mld
11)	Aroclor 1221 (3)	0.000	0	N.D.	ng/mld
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/mld
13)	Aroclor 1232 (1)	0.000	0	N.D.	ng/mld
14)	Aroclor 1232 (2)	0.000	0	N.D.	ng/mld
15)	Aroclor 1232 (3)	0.000	0	N.D.	ng/mld
16)	Aroclor 1232 (4)	0.000	0	N.D.	ng/mld
17)	Aroclor 1232 (5)	0.000	0	N.D.	ng/mld
18)	Aroclor 1232 (6)	0.000	0	N.D.	ng/mld
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/mld
20)	Aroclor 1242 (1)	0.000	0	N.D.	ng/mld
21)	Aroclor 1242 (2)	0.000	0	N.D.	ng/mld
22)	Aroclor 1242 (3)	0.000	0	N.D.	ng/mld
23)	Aroclor 1242 (4)	0.000	0	N.D.	ng/mld
24)	Aroclor 1242 (5)	0.000	0	N.D.	ng/mld
25)	Aroclor 1242 (6)	0.000	0	N.D.	ng/mld
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/mld
27)	Aroclor 1248 (1)	0.000	0	N.D.	ng/mld
28)	Aroclor 1248 (2)	0.000	0	N.D.	ng/mld
29)	Aroclor 1248 (3)	0.000	0	N.D.	ng/mld
30)	Aroclor 1248 (4)	0.000	0	N.D.	ng/mld
31)	Aroclor 1248 (5)	0.000	0	N.D.	ng/mld
32)	Aroclor 1248 (6)	0.000	0	N.D.	ng/mld
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/mld
34)	Aroclor 1254 (1)	0.000	0	N.D.	ng/mld
35)	Aroclor 1254 (2)	0.000	0	N.D.	ng/mld
36)	Aroclor 1254 (3)	0.000	0	N.D.	ng/mld
37)	Aroclor 1254 (4)	0.000	0	N.D.	ng/mld
38)	Aroclor 1254 (5)	0.000	0	N.D.	ng/mld
39)	Aroclor 1254 (6)	0.000	0	N.D.	ng/mld
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/mld
41)	Aroclor 1260 (1)	8.144	236430	22.458	ng/ml
42)	Aroclor 1260 (2)	8.351	280991	22.017	ng/ml
43)	Aroclor 1260 (3)	8.582	282360	21.292	ng/ml
44)	Aroclor 1260 (4)	9.067	414593	19.600	ng/ml
45)	Aroclor 1260 (5)	9.325	257901	21.079	ng/ml
46)	Aroclor 1260 (6)	9.891	103156	21.139	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

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Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\requant\
Data File : ECD2R005.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 17:33
Operator : MJB / KAK
Sample : 0A13050-CAL1
Misc :
ALS Vial : 54 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 11:03:11 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

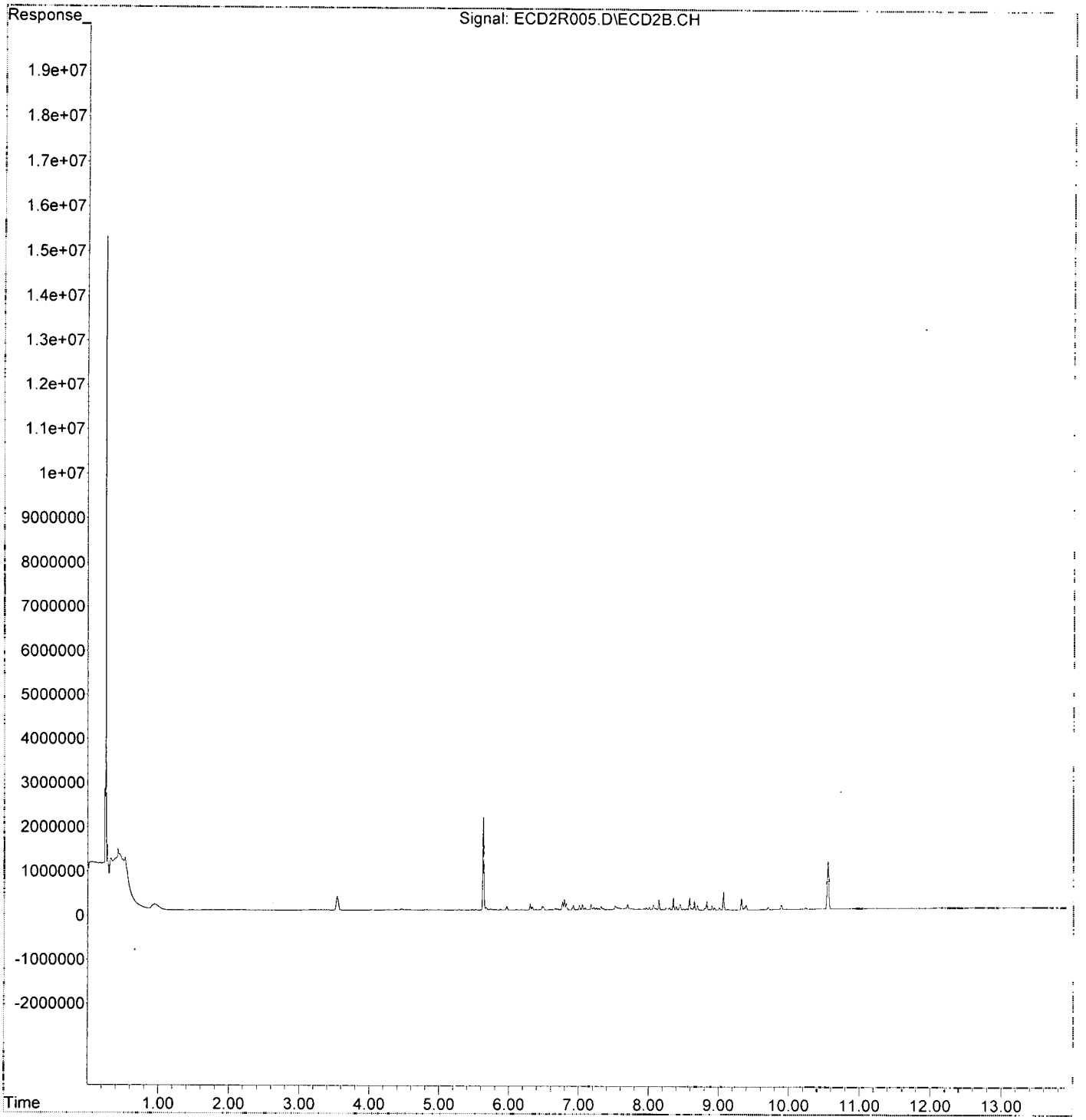
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/mld
55)	Aroclor 1268 (1)	0.000	0	N.D.	ng/mld
56)	Aroclor 1268 (2)	0.000	0	N.D.	ng/mld
57)	Aroclor 1268 (3)	0.000	0	N.D.	ng/mld
58)	Aroclor 1268 (4)	0.000	0	N.D.	ng/mld
59)	Aroclor 1268 (5)	0.000	0	N.D.	ng/mld
60)	Aroclor 1268 (6)	0.000	0	N.D.	ng/mld
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/mld

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\requant\
Data File : ECD2R005.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 17:33
Operator : MJB / KAK
Sample : 0A13050-CAL1
Misc :
ALS Vial : 54 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 11:03:11 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\[redacted]
Data File : ECD2R006.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 17:50
Operator : MJB / KAK
Sample : 0A13050-[redacted]
Misc :
ALS Vial : 55 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 11:03:32 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
1)	S	TCMX (S)	5.628	5312749	23.547	ng/ml
62)	S	DCBP (S)	10.550	2755983	24.779	ng/ml
		Target Compounds				
2)		Aroclor 1016 (1)	6.300	343821	55.617	ng/ml
3)		Aroclor 1016 (2)	6.790	597996	52.266	ng/ml
4)		Aroclor 1016 (3)	6.917	290069	54.153	ng/ml
5)		Aroclor 1016 (4)	7.004	278534	56.375	ng/ml
6)		Aroclor 1016 (5)	7.048	307931	55.528	ng/ml
7)		Aroclor 1016 (6)	7.174	315508	55.230	ng/ml
8)		Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)		Aroclor 1221 (1)	0.000	0	N.D.	ng/mld
10)		Aroclor 1221 (2)	0.000	0	N.D.	ng/mld
11)		Aroclor 1221 (3)	0.000	0	N.D.	ng/mld
12)		Aroclor 1221 - AVE	0.000	0	N.D.	ng/mld
13)		Aroclor 1232 (1)	0.000	0	N.D.	ng/mld
14)		Aroclor 1232 (2)	0.000	0	N.D.	ng/mld
15)		Aroclor 1232 (3)	0.000	0	N.D.	ng/mld
16)		Aroclor 1232 (4)	0.000	0	N.D.	ng/mld
17)		Aroclor 1232 (5)	0.000	0	N.D.	ng/mld
18)		Aroclor 1232 (6)	0.000	0	N.D.	ng/mld
19)		Aroclor 1232 - AVE	0.000	0	N.D.	ng/mld
20)		Aroclor 1242 (1)	0.000	0	N.D.	ng/mld
21)		Aroclor 1242 (2)	0.000	0	N.D.	ng/mld
22)		Aroclor 1242 (3)	0.000	0	N.D.	ng/mld
23)		Aroclor 1242 (4)	0.000	0	N.D.	ng/mld
24)		Aroclor 1242 (5)	0.000	0	N.D.	ng/mld
25)		Aroclor 1242 (6)	0.000	0	N.D.	ng/mld
26)		Aroclor 1242 - AVE	0.000	0	N.D.	ng/mld
27)		Aroclor 1248 (1)	0.000	0	N.D.	ng/mld
28)		Aroclor 1248 (2)	0.000	0	N.D.	ng/mld
29)		Aroclor 1248 (3)	0.000	0	N.D.	ng/mld
30)		Aroclor 1248 (4)	0.000	0	N.D.	ng/mld
31)		Aroclor 1248 (5)	0.000	0	N.D.	ng/mld
32)		Aroclor 1248 (6)	0.000	0	N.D.	ng/mld
33)		Aroclor 1248 - AVE	0.000	0	N.D.	ng/mld
34)		Aroclor 1254 (1)	0.000	0	N.D.	ng/mld
35)		Aroclor 1254 (2)	0.000	0	N.D.	ng/mld
36)		Aroclor 1254 (3)	0.000	0	N.D.	ng/mld
37)		Aroclor 1254 (4)	0.000	0	N.D.	ng/mld
38)		Aroclor 1254 (5)	0.000	0	N.D.	ng/mld
39)		Aroclor 1254 (6)	0.000	0	N.D.	ng/mld
40)		Aroclor 1254 - AVE	0.000	0	N.D.	ng/mld
41)		Aroclor 1260 (1)	8.144	540959	51.384	ng/ml
42)		Aroclor 1260 (2)	8.350	656411	51.433	ng/ml
43)		Aroclor 1260 (3)	8.582	674172	50.838	ng/ml
44)		Aroclor 1260 (4)	9.066	1047953	49.543	ng/ml
45)		Aroclor 1260 (5)	9.325	608364	49.724	ng/ml
46)		Aroclor 1260 (6)	9.891	261903	53.669	ng/ml
47)		Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\requant\
Data File : ECD2R006.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 17:50
Operator : MJB / KAK
Sample : 0A13050-CAL2
Misc :
ALS Vial : 55 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 11:03:32 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

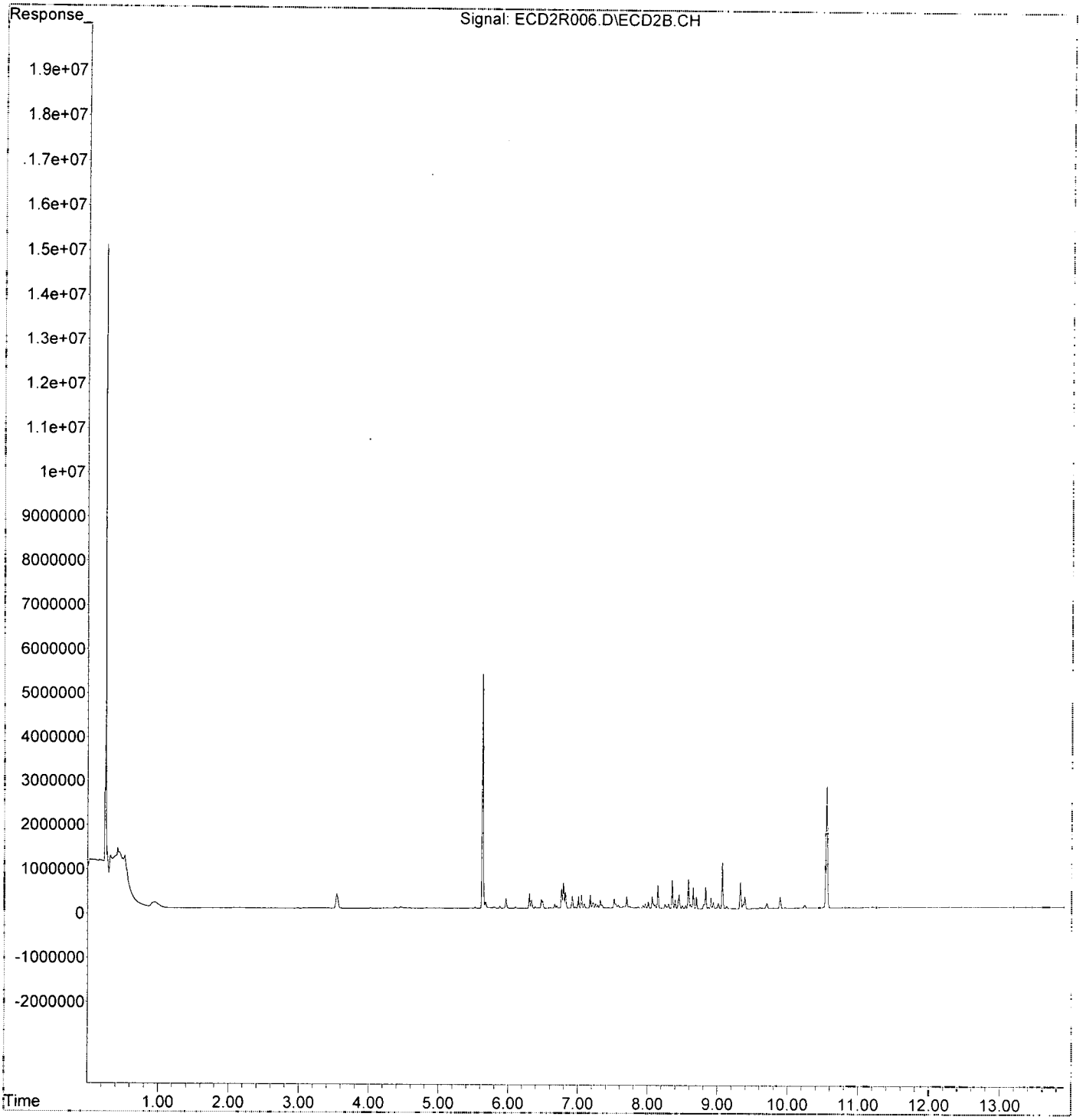
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/mld
55)	Aroclor 1268 (1)	0.000	0	N.D.	ng/mld
56)	Aroclor 1268 (2)	0.000	0	N.D.	ng/mld
57)	Aroclor 1268 (3)	0.000	0	N.D.	ng/mld
58)	Aroclor 1268 (4)	0.000	0	N.D.	ng/mld
59)	Aroclor 1268 (5)	0.000	0	N.D.	ng/mld
60)	Aroclor 1268 (6)	0.000	0	N.D.	ng/mld
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/mld

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\requant\
Data File : ECD2R006.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 17:50
Operator : MJB / KAK
Sample : 0A13050-CAL2
Misc :
ALS Vial : 55 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 11:03:32 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\Trequant\
Data File : ECD2R007.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 18:08
Operator : MJB / KAK
Sample : 0A13050-CAL3
Misc :
ALS Vial : 56 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 11:03:52 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	5.628	11084215	49.127	ng/ml ✓
62) S	DCBP (S)	10.550	5396453	48.519	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.300	639728	103.483	ng/ml
3)	Aroclor 1016 (2)	6.790	1142660	99.871	ng/ml
4)	Aroclor 1016 (3)	6.917	536991	100.250	ng/ml
5)	Aroclor 1016 (4)	7.003	519409	105.127	ng/ml ✓
6)	Aroclor 1016 (5)	7.048	569313	102.662	ng/ml
7)	Aroclor 1016 (6)	7.174	588135	102.954	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	0.000	0	N.D.	ng/mld
10)	Aroclor 1221 (2)	0.000	0	N.D.	ng/mld
11)	Aroclor 1221 (3)	0.000	0	N.D.	ng/mld
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/mld
13)	Aroclor 1232 (1)	0.000	0	N.D.	ng/mld
14)	Aroclor 1232 (2)	0.000	0	N.D.	ng/mld
15)	Aroclor 1232 (3)	0.000	0	N.D.	ng/mld
16)	Aroclor 1232 (4)	0.000	0	N.D.	ng/mld
17)	Aroclor 1232 (5)	0.000	0	N.D.	ng/mld
18)	Aroclor 1232 (6)	0.000	0	N.D.	ng/mld
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/mld
20)	Aroclor 1242 (1)	0.000	0	N.D.	ng/mld
21)	Aroclor 1242 (2)	0.000	0	N.D.	ng/mld
22)	Aroclor 1242 (3)	0.000	0	N.D.	ng/mld
23)	Aroclor 1242 (4)	0.000	0	N.D.	ng/mld
24)	Aroclor 1242 (5)	0.000	0	N.D.	ng/mld
25)	Aroclor 1242 (6)	0.000	0	N.D.	ng/mld
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/mld
27)	Aroclor 1248 (1)	0.000	0	N.D.	ng/mld
28)	Aroclor 1248 (2)	0.000	0	N.D.	ng/mld
29)	Aroclor 1248 (3)	0.000	0	N.D.	ng/mld
30)	Aroclor 1248 (4)	0.000	0	N.D.	ng/mld
31)	Aroclor 1248 (5)	0.000	0	N.D.	ng/mld
32)	Aroclor 1248 (6)	0.000	0	N.D.	ng/mld
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/mld
34)	Aroclor 1254 (1)	0.000	0	N.D.	ng/mld
35)	Aroclor 1254 (2)	0.000	0	N.D.	ng/mld
36)	Aroclor 1254 (3)	0.000	0	N.D.	ng/mld
37)	Aroclor 1254 (4)	0.000	0	N.D.	ng/mld
38)	Aroclor 1254 (5)	0.000	0	N.D.	ng/mld
39)	Aroclor 1254 (6)	0.000	0	N.D.	ng/mld
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/mld
41)	Aroclor 1260 (1)	8.143	1060465	100.729	ng/ml
42)	Aroclor 1260 (2)	8.351	1321460	103.543	ng/ml
43)	Aroclor 1260 (3)	8.582	1327338	100.092	ng/ml
44)	Aroclor 1260 (4)	9.066	2051063	96.966	ng/ml ✓
45)	Aroclor 1260 (5)	9.325	1220407	99.749	ng/ml
46)	Aroclor 1260 (6)	9.890	478851	98.126	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

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Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\requant\
Data File : ECD2R007.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 18:08
Operator : MJB / KAK
Sample : 0A13050-CAL3
Misc :
ALS Vial : 56 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 11:03:52 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

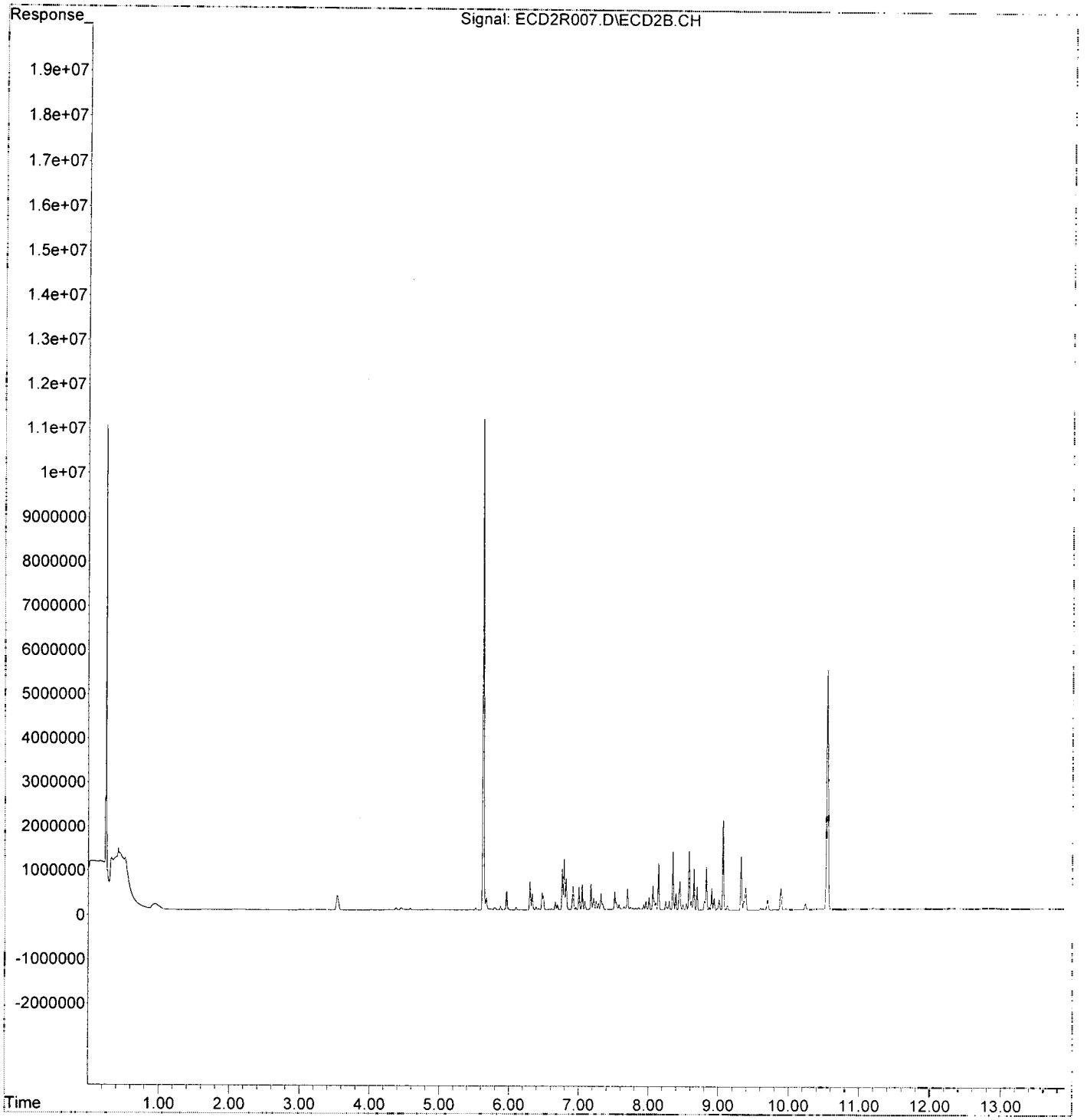
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/mld
55)	Aroclor 1268 (1)	0.000	0	N.D.	ng/mld
56)	Aroclor 1268 (2)	0.000	0	N.D.	ng/mld
57)	Aroclor 1268 (3)	0.000	0	N.D.	ng/mld
58)	Aroclor 1268 (4)	0.000	0	N.D.	ng/mld
59)	Aroclor 1268 (5)	0.000	0	N.D.	ng/mld
60)	Aroclor 1268 (6)	0.000	0	N.D.	ng/mld
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/mld

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\requant\
Data File : ECD2R007.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 18:08
Operator : MJB / KAK
Sample : 0A13050-CAL3
Misc :
ALS Vial : 56 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 11:03:52 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\requant\
Data File : ECD2R008.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 18:25
Operator : MJB / KAK
Sample : 0A13050-CAL4
Misc :
ALS Vial : 57 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 11:04:13 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
1)	S	TCMX (S)	5.629	22681880	100.529	ng/ml ✓
62)	S	DCBP (S)	10.551	10891716	97.926	ng/ml ✓
		Target Compounds				
2)		Aroclor 1016 (1)	6.301	1190843	192.631	ng/ml
3)		Aroclor 1016 (2)	6.790	2334544	204.044	ng/ml
4)		Aroclor 1016 (3)	6.917	1067264	199.246	ng/ml
5)		Aroclor 1016 (4)	7.004	981904	198.735	ng/ml
6)		Aroclor 1016 (5)	7.049	1076394	194.102	ng/ml
7)		Aroclor 1016 (6)	7.174	1160064	203.072	ng/ml ✓
8)		Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)		Aroclor 1221 (1)	0.000	0	N.D.	ng/mld
10)		Aroclor 1221 (2)	0.000	0	N.D.	ng/mld
11)		Aroclor 1221 (3)	0.000	0	N.D.	ng/mld
12)		Aroclor 1221 - AVE	0.000	0	N.D.	ng/mld
13)		Aroclor 1232 (1)	0.000	0	N.D.	ng/mld
14)		Aroclor 1232 (2)	0.000	0	N.D.	ng/mld
15)		Aroclor 1232 (3)	0.000	0	N.D.	ng/mld
16)		Aroclor 1232 (4)	0.000	0	N.D.	ng/mld
17)		Aroclor 1232 (5)	0.000	0	N.D.	ng/mld
18)		Aroclor 1232 (6)	0.000	0	N.D.	ng/mld
19)		Aroclor 1232 - AVE	0.000	0	N.D.	ng/mld
20)		Aroclor 1242 (1)	0.000	0	N.D.	ng/mld
21)		Aroclor 1242 (2)	0.000	0	N.D.	ng/mld
22)		Aroclor 1242 (3)	0.000	0	N.D.	ng/mld
23)		Aroclor 1242 (4)	0.000	0	N.D.	ng/mld
24)		Aroclor 1242 (5)	0.000	0	N.D.	ng/mld
25)		Aroclor 1242 (6)	0.000	0	N.D.	ng/mld
26)		Aroclor 1242 - AVE	0.000	0	N.D.	ng/mld
27)		Aroclor 1248 (1)	0.000	0	N.D.	ng/mld
28)		Aroclor 1248 (2)	0.000	0	N.D.	ng/mld
29)		Aroclor 1248 (3)	0.000	0	N.D.	ng/mld
30)		Aroclor 1248 (4)	0.000	0	N.D.	ng/mld
31)		Aroclor 1248 (5)	0.000	0	N.D.	ng/mld
32)		Aroclor 1248 (6)	0.000	0	N.D.	ng/mld
33)		Aroclor 1248 - AVE	0.000	0	N.D.	ng/mld
34)		Aroclor 1254 (1)	0.000	0	N.D.	ng/mld
35)		Aroclor 1254 (2)	0.000	0	N.D.	ng/mld
36)		Aroclor 1254 (3)	0.000	0	N.D.	ng/mld
37)		Aroclor 1254 (4)	0.000	0	N.D.	ng/mld
38)		Aroclor 1254 (5)	0.000	0	N.D.	ng/mld
39)		Aroclor 1254 (6)	0.000	0	N.D.	ng/mld
40)		Aroclor 1254 - AVE	0.000	0	N.D.	ng/mld
41)		Aroclor 1260 (1)	8.144	2093221	198.827	ng/ml
42)		Aroclor 1260 (2)	8.351	2511397	196.780	ng/ml
43)		Aroclor 1260 (3)	8.582	2744238	206.938	ng/ml
44)		Aroclor 1260 (4)	9.066	4251874	201.011	ng/ml
45)		Aroclor 1260 (5)	9.325	2471890	202.039	ng/ml
46)		Aroclor 1260 (6)	9.891	1008936	206.751	ng/ml ✓
47)		Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

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Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\requant\
Data File : ECD2R008.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 18:25
Operator : MJB / KAK
Sample : 0A13050-CAL4
Misc :
ALS Vial : 57 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 11:04:13 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

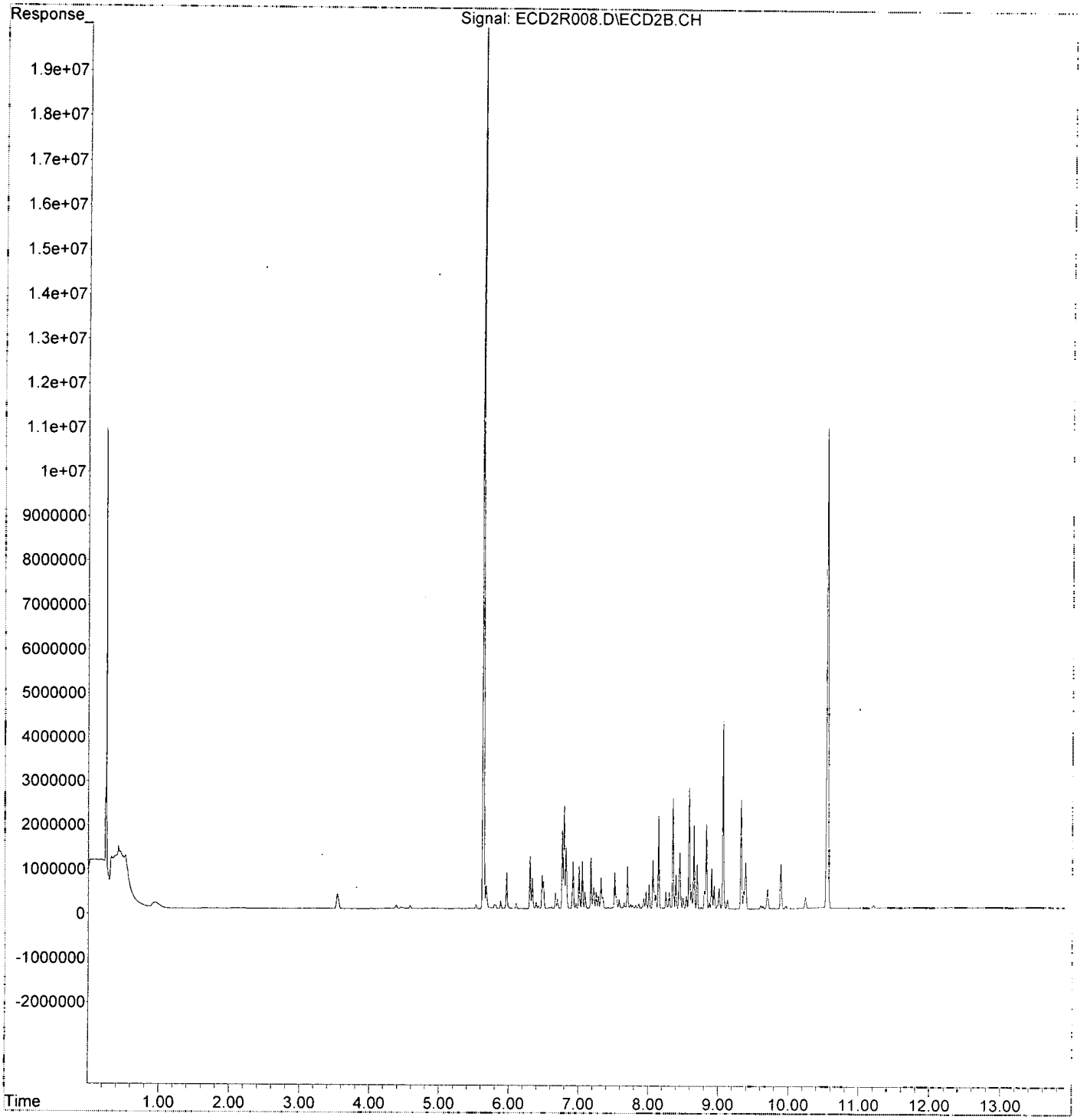
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/mld
55)	Aroclor 1268 (1)	0.000	0	N.D.	ng/mld
56)	Aroclor 1268 (2)	0.000	0	N.D.	ng/mld
57)	Aroclor 1268 (3)	0.000	0	N.D.	ng/mld
58)	Aroclor 1268 (4)	0.000	0	N.D.	ng/mld
59)	Aroclor 1268 (5)	0.000	0	N.D.	ng/mld
60)	Aroclor 1268 (6)	0.000	0	N.D.	ng/mld
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/mld

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\requant\
Data File : ECD2R008.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 18:25
Operator : MJB / KAK
Sample : 0A13050-CAL4
Misc :
ALS Vial : 57 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 11:04:13 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\requant\
Data File : ECD2R009.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 18:43
Operator : MJB / KAK
Sample : 0A13050-CAL5
Misc :
ALS Vial : 58 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 11:04:33 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	5.629	53881075	238.807	ng/ml
62) S	DCBP (S)	10.552	25218318	226.735	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.300	2835860	458.730	ng/ml
3)	Aroclor 1016 (2)	6.790	5484312	479.341	ng/ml
4)	Aroclor 1016 (3)	6.917	2538905	473.985	ng/ml
5)	Aroclor 1016 (4)	7.003	2203390	445.962	ng/ml
6)	Aroclor 1016 (5)	7.048	2536989	457.485	ng/ml
7)	Aroclor 1016 (6)	7.174	2573883	450.564	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	0.000	0	N.D.	ng/mld
10)	Aroclor 1221 (2)	0.000	0	N.D.	ng/mld
11)	Aroclor 1221 (3)	0.000	0	N.D.	ng/mld
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/mld
13)	Aroclor 1232 (1)	0.000	0	N.D.	ng/mld
14)	Aroclor 1232 (2)	0.000	0	N.D.	ng/mld
15)	Aroclor 1232 (3)	0.000	0	N.D.	ng/mld
16)	Aroclor 1232 (4)	0.000	0	N.D.	ng/mld
17)	Aroclor 1232 (5)	0.000	0	N.D.	ng/mld
18)	Aroclor 1232 (6)	0.000	0	N.D.	ng/mld
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/mld
20)	Aroclor 1242 (1)	0.000	0	N.D.	ng/mld
21)	Aroclor 1242 (2)	0.000	0	N.D.	ng/mld
22)	Aroclor 1242 (3)	0.000	0	N.D.	ng/mld
23)	Aroclor 1242 (4)	0.000	0	N.D.	ng/mld
24)	Aroclor 1242 (5)	0.000	0	N.D.	ng/mld
25)	Aroclor 1242 (6)	0.000	0	N.D.	ng/mld
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/mld
27)	Aroclor 1248 (1)	0.000	0	N.D.	ng/mld
28)	Aroclor 1248 (2)	0.000	0	N.D.	ng/mld
29)	Aroclor 1248 (3)	0.000	0	N.D.	ng/mld
30)	Aroclor 1248 (4)	0.000	0	N.D.	ng/mld
31)	Aroclor 1248 (5)	0.000	0	N.D.	ng/mld
32)	Aroclor 1248 (6)	0.000	0	N.D.	ng/mld
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/mld
34)	Aroclor 1254 (1)	0.000	0	N.D.	ng/mld
35)	Aroclor 1254 (2)	0.000	0	N.D.	ng/mld
36)	Aroclor 1254 (3)	0.000	0	N.D.	ng/mld
37)	Aroclor 1254 (4)	0.000	0	N.D.	ng/mld
38)	Aroclor 1254 (5)	0.000	0	N.D.	ng/mld
39)	Aroclor 1254 (6)	0.000	0	N.D.	ng/mld
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/mld
41)	Aroclor 1260 (1)	8.144	5080914	482.616	ng/ml
42)	Aroclor 1260 (2)	8.351	6152313	482.063	ng/ml
43)	Aroclor 1260 (3)	8.583	6540031	493.172	ng/ml
44)	Aroclor 1260 (4)	9.066	10496732	496.241	ng/ml
45)	Aroclor 1260 (5)	9.325	6070844	496.198	ng/ml
46)	Aroclor 1260 (6)	9.891	2392226	490.214	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

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Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\requant\
Data File : ECD2R009.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 18:43
Operator : MJB / KAK
Sample : 0A13050-CAL5
Misc :
ALS Vial : 58 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 11:04:33 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

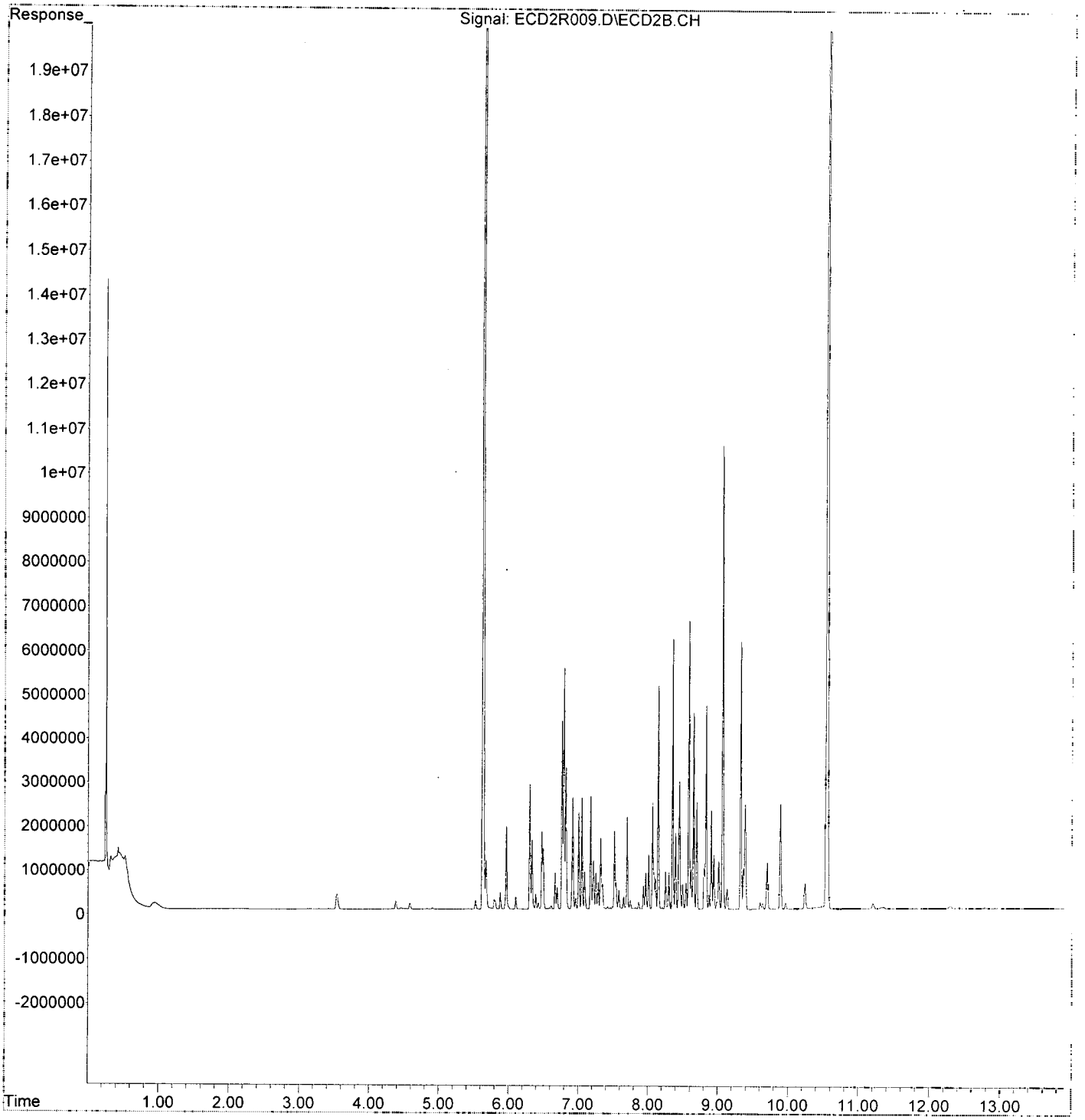
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	0.000	0	N.D. ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D. ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D. ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D. ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D. ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D. ng/mld
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/mld
55)	Aroclor 1268 (1)	0.000	0	N.D. ng/mld
56)	Aroclor 1268 (2)	0.000	0	N.D. ng/mld
57)	Aroclor 1268 (3)	0.000	0	N.D. ng/mld
58)	Aroclor 1268 (4)	0.000	0	N.D. ng/mld
59)	Aroclor 1268 (5)	0.000	0	N.D. ng/mld
60)	Aroclor 1268 (6)	0.000	0	N.D. ng/mld
61)	Aroclor 1268 - AVE	0.000	0	N.D. ng/mld

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\requant\
Data File : ECD2R009.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 18:43
Operator : MJB / KAK
Sample : 0A13050-CAL5
Misc :
ALS Vial : 58 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 11:04:33 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\[redacted]
Data File : ECD2R010.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 19:01
Operator : MJB / KAK
Sample : 0A13050-[redacted]
Misc :
ALS Vial : 59 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 11:04:53 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

		Compound	R.T.	Response	Conc	Units	
		System Monitoring Compounds					
1)	S	TCMX (S)	5.631	124870409	553.440	ng/ml	
62)	S	DCBP (S)	10.551	58595711	526.828	ng/ml	✓
		Target Compounds					
2)		Aroclor 1016 (1)	6.300	5624087	909.755	ng/ml	
3)		Aroclor 1016 (2)	6.790	11025443	963.649	ng/ml	
4)		Aroclor 1016 (3)	6.917	5145954	960.692	ng/ml	✓
5)		Aroclor 1016 (4)	7.004	4338878	878.180	ng/ml	
6)		Aroclor 1016 (5)	7.048	5224293	942.075	ng/ml	
7)		Aroclor 1016 (6)	7.173	5149713	901.470	ng/ml	
8)		Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml	
9)		Aroclor 1221 (1)	0.000	0	N.D.	ng/mld	
10)		Aroclor 1221 (2)	0.000	0	N.D.	ng/mld	
11)		Aroclor 1221 (3)	0.000	0	N.D.	ng/mld	
12)		Aroclor 1221 - AVE	0.000	0	N.D.	ng/mld	
13)		Aroclor 1232 (1)	0.000	0	N.D.	ng/mld	
14)		Aroclor 1232 (2)	0.000	0	N.D.	ng/mld	
15)		Aroclor 1232 (3)	0.000	0	N.D.	ng/mld	
16)		Aroclor 1232 (4)	0.000	0	N.D.	ng/mld	
17)		Aroclor 1232 (5)	0.000	0	N.D.	ng/mld	
18)		Aroclor 1232 (6)	0.000	0	N.D.	ng/mld	
19)		Aroclor 1232 - AVE	0.000	0	N.D.	ng/mld	
20)		Aroclor 1242 (1)	0.000	0	N.D.	ng/mld	
21)		Aroclor 1242 (2)	0.000	0	N.D.	ng/mld	
22)		Aroclor 1242 (3)	0.000	0	N.D.	ng/mld	
23)		Aroclor 1242 (4)	0.000	0	N.D.	ng/mld	
24)		Aroclor 1242 (5)	0.000	0	N.D.	ng/mld	
25)		Aroclor 1242 (6)	0.000	0	N.D.	ng/mld	
26)		Aroclor 1242 - AVE	0.000	0	N.D.	ng/mld	
27)		Aroclor 1248 (1)	0.000	0	N.D.	ng/mld	
28)		Aroclor 1248 (2)	0.000	0	N.D.	ng/mld	
29)		Aroclor 1248 (3)	0.000	0	N.D.	ng/mld	
30)		Aroclor 1248 (4)	0.000	0	N.D.	ng/mld	
31)		Aroclor 1248 (5)	0.000	0	N.D.	ng/mld	
32)		Aroclor 1248 (6)	0.000	0	N.D.	ng/mld	
33)		Aroclor 1248 - AVE	0.000	0	N.D.	ng/mld	
34)		Aroclor 1254 (1)	0.000	0	N.D.	ng/mld	
35)		Aroclor 1254 (2)	0.000	0	N.D.	ng/mld	
36)		Aroclor 1254 (3)	0.000	0	N.D.	ng/mld	
37)		Aroclor 1254 (4)	0.000	0	N.D.	ng/mld	
38)		Aroclor 1254 (5)	0.000	0	N.D.	ng/mld	
39)		Aroclor 1254 (6)	0.000	0	N.D.	ng/mld	
40)		Aroclor 1254 - AVE	0.000	0	N.D.	ng/mld	
41)		Aroclor 1260 (1)	8.143	10123087	961.552	ng/ml	
42)		Aroclor 1260 (2)	8.350	12298764	963.667	ng/ml	
43)		Aroclor 1260 (3)	8.582	12961672	977.416	ng/ml	✓
44)		Aroclor 1260 (4)	9.066	21886590	1034.706	ng/ml	
45)		Aroclor 1260 (5)	9.325	12074358	986.892	ng/ml	
46)		Aroclor 1260 (6)	9.890	4594659	941.536	ng/ml	
47)		Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml	

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Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\requant\
Data File : ECD2R010.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 19:01
Operator : MJB / KAK
Sample : 0A13050-CAL6
Misc :
ALS Vial : 59 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 11:04:53 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

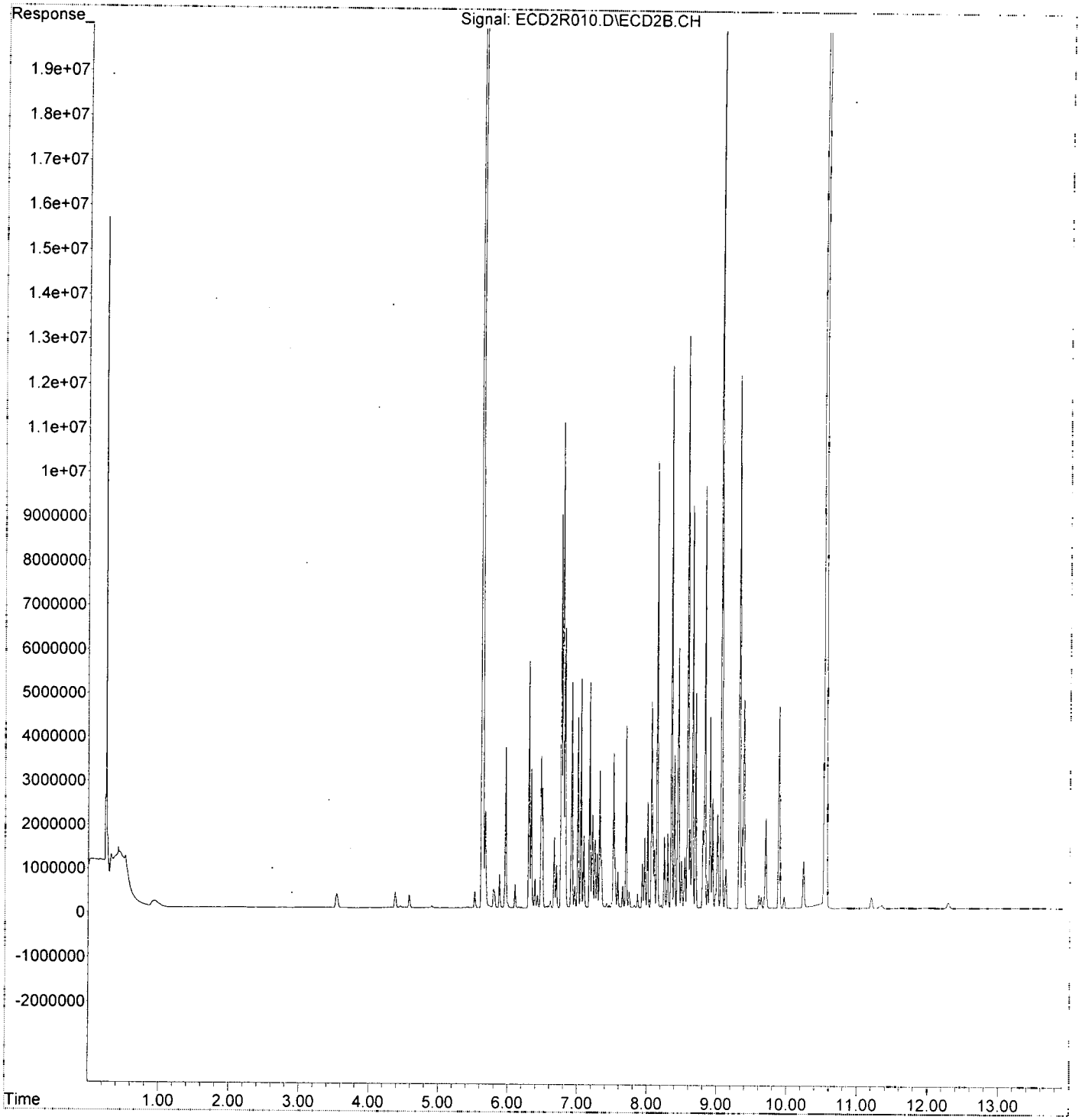
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/mld
55)	Aroclor 1268 (1)	0.000	0	N.D.	ng/mld
56)	Aroclor 1268 (2)	0.000	0	N.D.	ng/mld
57)	Aroclor 1268 (3)	0.000	0	N.D.	ng/mld
58)	Aroclor 1268 (4)	0.000	0	N.D.	ng/mld
59)	Aroclor 1268 (5)	0.000	0	N.D.	ng/mld
60)	Aroclor 1268 (6)	0.000	0	N.D.	ng/mld
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/mld

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\requant\
Data File : ECD2R010.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 19:01
Operator : MJB / KAK
Sample : 0A13050-CAL6
Misc :
ALS Vial : 59 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 11:04:53 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\[redacted]
Data File : ECD2R011.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 19:18
Operator : MJB / KAK
Sample : 0A13050-[redacted]
Misc :
ALS Vial : 60 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 11:05:13 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
1) S	TCMX (S)	5.633	194842413	863.564	ng/ml	✓
62) S	DCBP (S)	10.553	101081415	908.812	ng/ml	✓
	Target Compounds					
2)	Aroclor 1016 (1)	6.300	8229290	1331.173	ng/ml	
3)	Aroclor 1016 (2)	6.791	15844863	1384.877	ng/ml	
4)	Aroclor 1016 (3)	6.917	7443643	1389.645	ng/ml	✓
5)	Aroclor 1016 (4)	7.004	6442401	1303.929	ng/ml	
6)	Aroclor 1016 (5)	7.049	7076827	1276.135	ng/ml	
7)	Aroclor 1016 (6)	7.174	7407214	1296.650	ng/ml	
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml	
9)	Aroclor 1221 (1)	0.000	0	N.D.	ng/mld	
10)	Aroclor 1221 (2)	0.000	0	N.D.	ng/mld	
11)	Aroclor 1221 (3)	0.000	0	N.D.	ng/mld	
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/mld	
13)	Aroclor 1232 (1)	0.000	0	N.D.	ng/mld	
14)	Aroclor 1232 (2)	0.000	0	N.D.	ng/mld	
15)	Aroclor 1232 (3)	0.000	0	N.D.	ng/mld	
16)	Aroclor 1232 (4)	0.000	0	N.D.	ng/mld	
17)	Aroclor 1232 (5)	0.000	0	N.D.	ng/mld	
18)	Aroclor 1232 (6)	0.000	0	N.D.	ng/mld	
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/mld	
20)	Aroclor 1242 (1)	0.000	0	N.D.	ng/mld	
21)	Aroclor 1242 (2)	0.000	0	N.D.	ng/mld	
22)	Aroclor 1242 (3)	0.000	0	N.D.	ng/mld	
23)	Aroclor 1242 (4)	0.000	0	N.D.	ng/mld	
24)	Aroclor 1242 (5)	0.000	0	N.D.	ng/mld	
25)	Aroclor 1242 (6)	0.000	0	N.D.	ng/mld	
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/mld	
27)	Aroclor 1248 (1)	0.000	0	N.D.	ng/mld	
28)	Aroclor 1248 (2)	0.000	0	N.D.	ng/mld	
29)	Aroclor 1248 (3)	0.000	0	N.D.	ng/mld	
30)	Aroclor 1248 (4)	0.000	0	N.D.	ng/mld	
31)	Aroclor 1248 (5)	0.000	0	N.D.	ng/mld	
32)	Aroclor 1248 (6)	0.000	0	N.D.	ng/mld	
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/mld	
34)	Aroclor 1254 (1)	0.000	0	N.D.	ng/mld	
35)	Aroclor 1254 (2)	0.000	0	N.D.	ng/mld	
36)	Aroclor 1254 (3)	0.000	0	N.D.	ng/mld	
37)	Aroclor 1254 (4)	0.000	0	N.D.	ng/mld	
38)	Aroclor 1254 (5)	0.000	0	N.D.	ng/mld	
39)	Aroclor 1254 (6)	0.000	0	N.D.	ng/mld	
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/mld	
41)	Aroclor 1260 (1)	8.144	14548054	1381.862	ng/ml	
42)	Aroclor 1260 (2)	8.351	17676726	1385.056	ng/ml	
43)	Aroclor 1260 (3)	8.583	18285536	1378.879	ng/ml	✓
44)	Aroclor 1260 (4)	9.067	32592843	1540.853	ng/ml	
45)	Aroclor 1260 (5)	9.325	17701773	1446.846	ng/ml	
46)	Aroclor 1260 (6)	9.891	6885880	1411.053	ng/ml	
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml	

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Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\requant\
Data File : ECD2R011.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 19:18
Operator : MJB / KAK
Sample : 0A13050-CAL7
Misc :
ALS Vial : 60 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 11:05:13 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

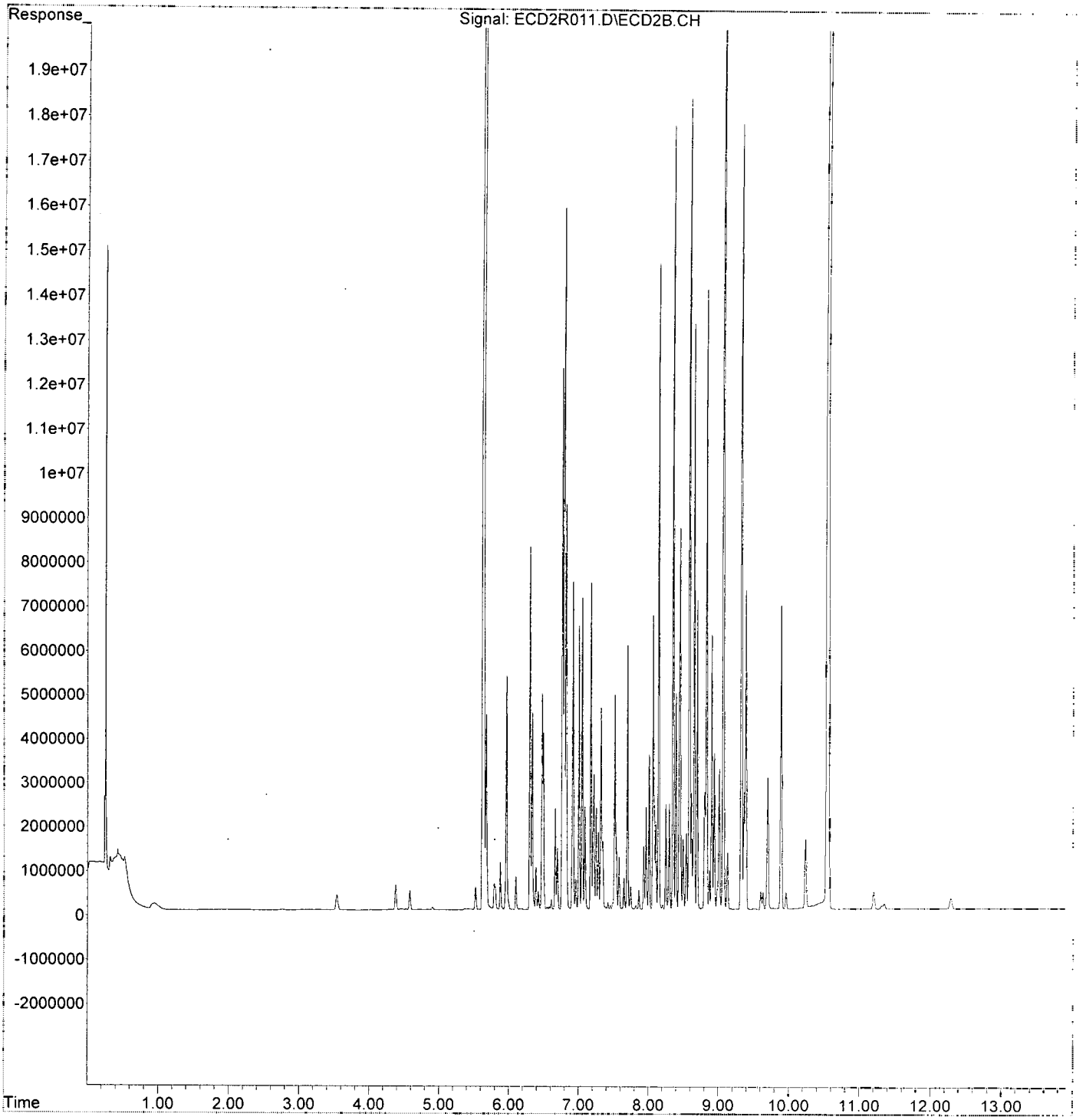
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/mld
55)	Aroclor 1268 (1)	0.000	0	N.D.	ng/mld
56)	Aroclor 1268 (2)	0.000	0	N.D.	ng/mld
57)	Aroclor 1268 (3)	0.000	0	N.D.	ng/mld
58)	Aroclor 1268 (4)	0.000	0	N.D.	ng/mld
59)	Aroclor 1268 (5)	0.000	0	N.D.	ng/mld
60)	Aroclor 1268 (6)	0.000	0	N.D.	ng/mld
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/mld

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\requant\
Data File : ECD2R011.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 19:18
Operator : MJB / KAK
Sample : 0A13050-CAL7
Misc :
ALS Vial : 60 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 11:05:13 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R005.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 17:33
Operator : MJB / KAK
Sample : 0A13050-CAL1
Misc :
ALS Vial : 54 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 08:55:45 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
1)	S TCMX (S)	5.628	2095506	7.988 ng/ml
62)	S DCBP (S)	10.551	1070638	7.294 ng/ml
	Target Compounds			
2)	Aroclor 1016 (1)	6.300	145279	16.355 ng/ml
3)	Aroclor 1016 (2)	6.790	249458	15.245 ng/ml
4)	Aroclor 1016 (3)	6.917	116035	15.783 ng/ml
5)	Aroclor 1016 (4)	7.004	117409	15.744 ng/ml
6)	Aroclor 1016 (5)	7.049	131375	15.922 ng/ml
7)	Aroclor 1016 (6)	7.174	135212	16.427 ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9)	Aroclor 1221 (1)	0.000	0	N.D. ng/mld
10)	Aroclor 1221 (2)	0.000	0	N.D. ng/mld
11)	Aroclor 1221 (3)	0.000	0	N.D. ng/mld
12)	Aroclor 1221 - AVE	0.000	0	N.D. ng/mld
13)	Aroclor 1232 (1)	0.000	0	N.D. ng/mld
14)	Aroclor 1232 (2)	0.000	0	N.D. ng/mld
15)	Aroclor 1232 (3)	0.000	0	N.D. ng/mld
16)	Aroclor 1232 (4)	0.000	0	N.D. ng/mld
17)	Aroclor 1232 (5)	0.000	0	N.D. ng/mld
18)	Aroclor 1232 (6)	0.000	0	N.D. ng/mld
19)	Aroclor 1232 - AVE	0.000	0	N.D. ng/mld
20)	Aroclor 1242 (1)	0.000	0	N.D. ng/mld
21)	Aroclor 1242 (2)	0.000	0	N.D. ng/mld
22)	Aroclor 1242 (3)	0.000	0	N.D. ng/mld
23)	Aroclor 1242 (4)	0.000	0	N.D. ng/mld
24)	Aroclor 1242 (5)	0.000	0	N.D. ng/mld
25)	Aroclor 1242 (6)	0.000	0	N.D. ng/mld
26)	Aroclor 1242 - AVE	0.000	0	N.D. ng/mld
27)	Aroclor 1248 (1)	0.000	0	N.D. ng/mld
28)	Aroclor 1248 (2)	0.000	0	N.D. ng/mld
29)	Aroclor 1248 (3)	0.000	0	N.D. ng/mld
30)	Aroclor 1248 (4)	0.000	0	N.D. ng/mld
31)	Aroclor 1248 (5)	0.000	0	N.D. ng/mld
32)	Aroclor 1248 (6)	0.000	0	N.D. ng/mld
33)	Aroclor 1248 - AVE	0.000	0	N.D. ng/mld
34)	Aroclor 1254 (1)	0.000	0	N.D. ng/mld
35)	Aroclor 1254 (2)	0.000	0	N.D. ng/mld
36)	Aroclor 1254 (3)	0.000	0	N.D. ng/mld
37)	Aroclor 1254 (4)	0.000	0	N.D. ng/mld
38)	Aroclor 1254 (5)	0.000	0	N.D. ng/mld
39)	Aroclor 1254 (6)	0.000	0	N.D. ng/mld
40)	Aroclor 1254 - AVE	0.000	0	N.D. ng/mld
41)	Aroclor 1260 (1)	8.144	236430	14.980 ng/ml
42)	Aroclor 1260 (2)	8.351	280991	14.356 ng/ml
43)	Aroclor 1260 (3)	8.582	282360	14.025 ng/ml
44)	Aroclor 1260 (4)	9.067	414593	13.397 ng/ml
45)	Aroclor 1260 (5)	9.325	257901	14.410 ng/ml
46)	Aroclor 1260 (6)	9.891	102375	14.840 ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R005.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 17:33
Operator : MJB / KAK
Sample : 0A13050-CAL1
Misc :
ALS Vial : 54 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 08:55:45 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

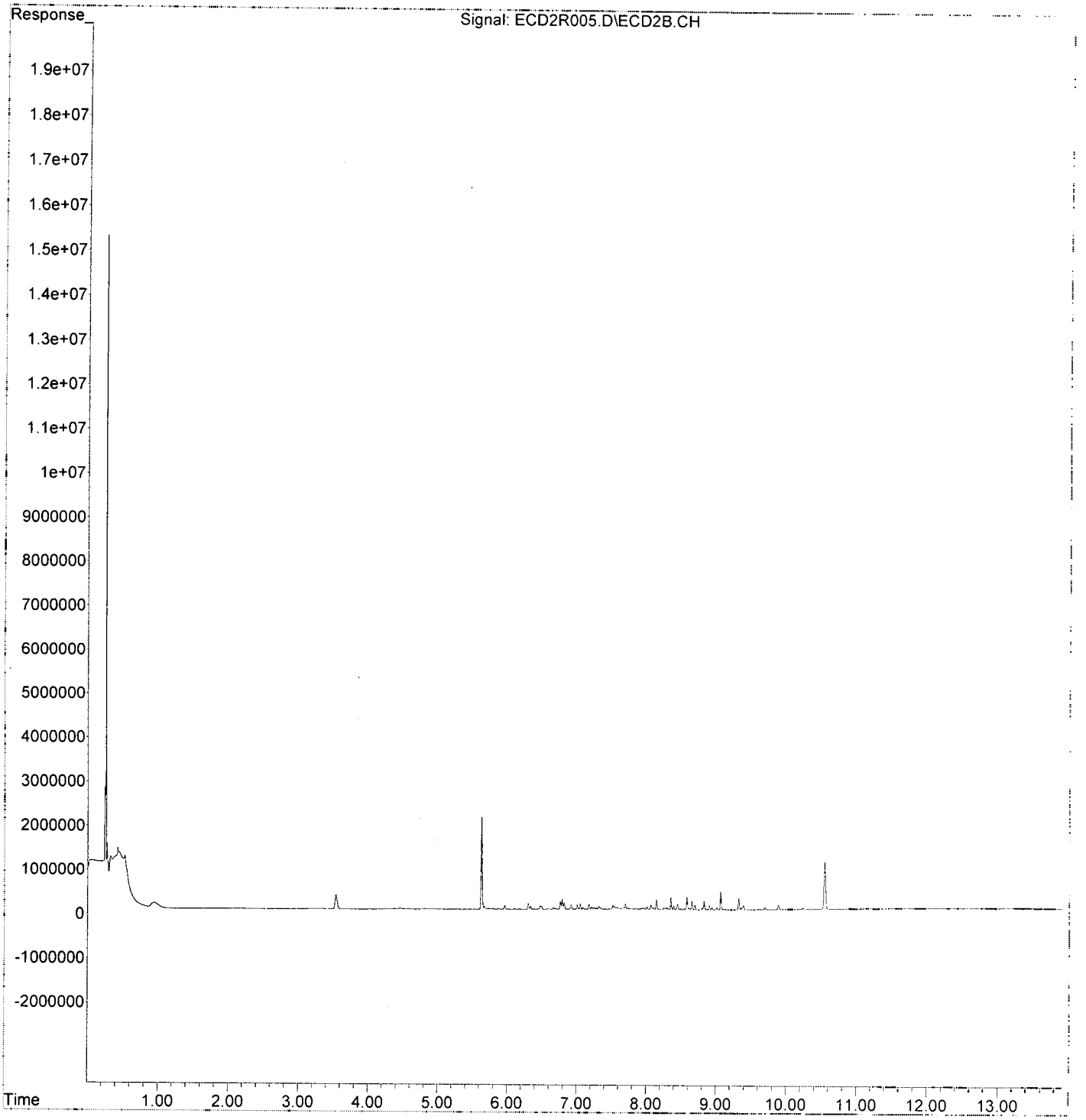
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/mld
55)	Aroclor 1268 (1)	0.000	0	N.D.	ng/mld
56)	Aroclor 1268 (2)	0.000	0	N.D.	ng/mld
57)	Aroclor 1268 (3)	0.000	0	N.D.	ng/mld
58)	Aroclor 1268 (4)	0.000	0	N.D.	ng/mld
59)	Aroclor 1268 (5)	0.000	0	N.D.	ng/mld
60)	Aroclor 1268 (6)	0.000	0	N.D.	ng/mld
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/mld

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R005.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 17:33
Operator : MJB / KAK
Sample : 0A13050-CAL1
Misc :
ALS Vial : 54 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 08:55:45 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R006.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 17:50
Operator : MJB / KAK
Sample : 0A13050-CAL2
Misc :
ALS Vial : 55 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:01:01 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

1/14/20

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
1) S	TCMX (S)	5.628	5312749	20.252 ng/ml
62) S	DCBP (S)	10.550	2755983	18.775 ng/ml
	Target Compounds			
2)	Aroclor 1016 (1)	6.300	343821	38.705 ng/ml
3)	Aroclor 1016 (2)	6.790	597996	36.545 ng/ml
4)	Aroclor 1016 (3)	6.917	290069	39.380 ng/ml
5)	Aroclor 1016 (4)	7.004	278534	37.350 ng/ml
6)	Aroclor 1016 (5)	7.048	307931	37.320 ng/ml
7)	Aroclor 1016 (6)	7.174	315508	38.331 ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9)	Aroclor 1221 (1)	0.000	0	N.D. ng/mld
10)	Aroclor 1221 (2)	0.000	0	N.D. ng/mld
11)	Aroclor 1221 (3)	0.000	0	N.D. ng/mld
12)	Aroclor 1221 - AVE	0.000	0	N.D. ng/mld
13)	Aroclor 1232 (1)	0.000	0	N.D. ng/mld
14)	Aroclor 1232 (2)	0.000	0	N.D. ng/mld
15)	Aroclor 1232 (3)	0.000	0	N.D. ng/mld
16)	Aroclor 1232 (4)	0.000	0	N.D. ng/mld
17)	Aroclor 1232 (5)	0.000	0	N.D. ng/mld
18)	Aroclor 1232 (6)	0.000	0	N.D. ng/mld
19)	Aroclor 1232 - AVE	0.000	0	N.D. ng/mld
20)	Aroclor 1242 (1)	0.000	0	N.D. ng/mld
21)	Aroclor 1242 (2)	0.000	0	N.D. ng/mld
22)	Aroclor 1242 (3)	0.000	0	N.D. ng/mld
23)	Aroclor 1242 (4)	0.000	0	N.D. ng/mld
24)	Aroclor 1242 (5)	0.000	0	N.D. ng/mld
25)	Aroclor 1242 (6)	0.000	0	N.D. ng/mld
26)	Aroclor 1242 - AVE	0.000	0	N.D. ng/mld
27)	Aroclor 1248 (1)	0.000	0	N.D. ng/mld
28)	Aroclor 1248 (2)	0.000	0	N.D. ng/mld
29)	Aroclor 1248 (3)	0.000	0	N.D. ng/mld
30)	Aroclor 1248 (4)	0.000	0	N.D. ng/mld
31)	Aroclor 1248 (5)	0.000	0	N.D. ng/mld
32)	Aroclor 1248 (6)	0.000	0	N.D. ng/mld
33)	Aroclor 1248 - AVE	0.000	0	N.D. ng/mld
34)	Aroclor 1254 (1)	0.000	0	N.D. ng/mld
35)	Aroclor 1254 (2)	0.000	0	N.D. ng/mld
36)	Aroclor 1254 (3)	0.000	0	N.D. ng/mld
37)	Aroclor 1254 (4)	0.000	0	N.D. ng/mld
38)	Aroclor 1254 (5)	0.000	0	N.D. ng/mld
39)	Aroclor 1254 (6)	0.000	0	N.D. ng/mld
40)	Aroclor 1254 - AVE	0.000	0	N.D. ng/mld
41)	Aroclor 1260 (1)	8.144	540959	34.275 ng/ml
42)	Aroclor 1260 (2)	8.350	656411	33.535 ng/ml
43)	Aroclor 1260 (3)	8.582	674172	33.487 ng/ml
44)	Aroclor 1260 (4)	9.066	1047953	33.864 ng/ml
45)	Aroclor 1260 (5)	9.325	608364	33.992 ng/ml
46)	Aroclor 1260 (6)	9.891	261903	37.965 ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R006.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 17:50
Operator : MJB / KAK
Sample : 0A13050-CAL2
Misc :
ALS Vial : 55 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:01:01 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

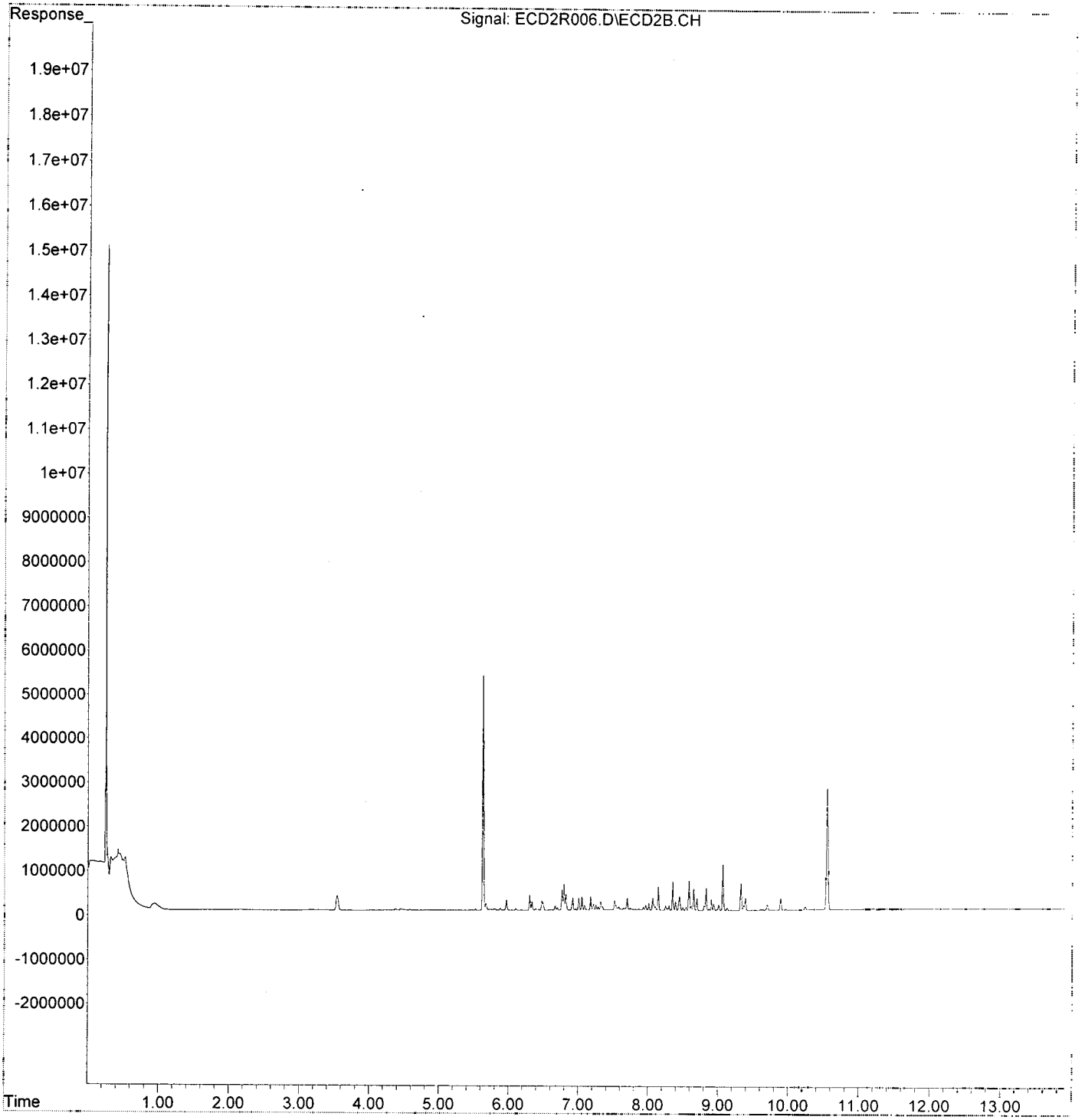
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/mld
55)	Aroclor 1268 (1)	0.000	0	N.D.	ng/mld
56)	Aroclor 1268 (2)	0.000	0	N.D.	ng/mld
57)	Aroclor 1268 (3)	0.000	0	N.D.	ng/mld
58)	Aroclor 1268 (4)	0.000	0	N.D.	ng/mld
59)	Aroclor 1268 (5)	0.000	0	N.D.	ng/mld
60)	Aroclor 1268 (6)	0.000	0	N.D.	ng/mld
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/mld

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R006.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 17:50
Operator : MJB / KAK
Sample : 0A13050-CAL2
Misc :
ALS Vial : 55 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:01:01 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R007.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 18:08
Operator : MJB / KAK
Sample : 0A13050-CAL3
Misc :
ALS Vial : 56 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:01:21 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

1/14/20

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	5.628	11084215	42.253	ng/ml
62) S	DCBP (S)	10.550	5396453	36.763	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.300	639728	72.016	ng/ml
3)	Aroclor 1016 (2)	6.790	1142660	69.831	ng/ml
4)	Aroclor 1016 (3)	6.917	536991	72.903	ng/ml
5)	Aroclor 1016 (4)	7.003	519409	69.651	ng/ml
6)	Aroclor 1016 (5)	7.048	569313	68.999	ng/ml
7)	Aroclor 1016 (6)	7.174	588135	71.453	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	0.000	0	N.D.	ng/mld
10)	Aroclor 1221 (2)	0.000	0	N.D.	ng/mld
11)	Aroclor 1221 (3)	0.000	0	N.D.	ng/mld
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/mld
13)	Aroclor 1232 (1)	0.000	0	N.D.	ng/mld
14)	Aroclor 1232 (2)	0.000	0	N.D.	ng/mld
15)	Aroclor 1232 (3)	0.000	0	N.D.	ng/mld
16)	Aroclor 1232 (4)	0.000	0	N.D.	ng/mld
17)	Aroclor 1232 (5)	0.000	0	N.D.	ng/mld
18)	Aroclor 1232 (6)	0.000	0	N.D.	ng/mld
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/mld
20)	Aroclor 1242 (1)	0.000	0	N.D.	ng/mld
21)	Aroclor 1242 (2)	0.000	0	N.D.	ng/mld
22)	Aroclor 1242 (3)	0.000	0	N.D.	ng/mld
23)	Aroclor 1242 (4)	0.000	0	N.D.	ng/mld
24)	Aroclor 1242 (5)	0.000	0	N.D.	ng/mld
25)	Aroclor 1242 (6)	0.000	0	N.D.	ng/mld
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/mld
27)	Aroclor 1248 (1)	0.000	0	N.D.	ng/mld
28)	Aroclor 1248 (2)	0.000	0	N.D.	ng/mld
29)	Aroclor 1248 (3)	0.000	0	N.D.	ng/mld
30)	Aroclor 1248 (4)	0.000	0	N.D.	ng/mld
31)	Aroclor 1248 (5)	0.000	0	N.D.	ng/mld
32)	Aroclor 1248 (6)	0.000	0	N.D.	ng/mld
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/mld
34)	Aroclor 1254 (1)	0.000	0	N.D.	ng/mld
35)	Aroclor 1254 (2)	0.000	0	N.D.	ng/mld
36)	Aroclor 1254 (3)	0.000	0	N.D.	ng/mld
37)	Aroclor 1254 (4)	0.000	0	N.D.	ng/mld
38)	Aroclor 1254 (5)	0.000	0	N.D.	ng/mld
39)	Aroclor 1254 (6)	0.000	0	N.D.	ng/mld
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/mld
41)	Aroclor 1260 (1)	8.143	1060465	67.191	ng/ml
42)	Aroclor 1260 (2)	8.351	1321460	67.512	ng/ml
43)	Aroclor 1260 (3)	8.582	1327338	65.931	ng/ml
44)	Aroclor 1260 (4)	9.066	2051063	66.278	ng/ml
45)	Aroclor 1260 (5)	9.325	1220407	68.190	ng/ml
46)	Aroclor 1260 (6)	9.890	478851	69.413	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R007.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 18:08
Operator : MJB / KAK
Sample : 0A13050-CAL3
Misc :
ALS Vial : 56 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:01:21 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

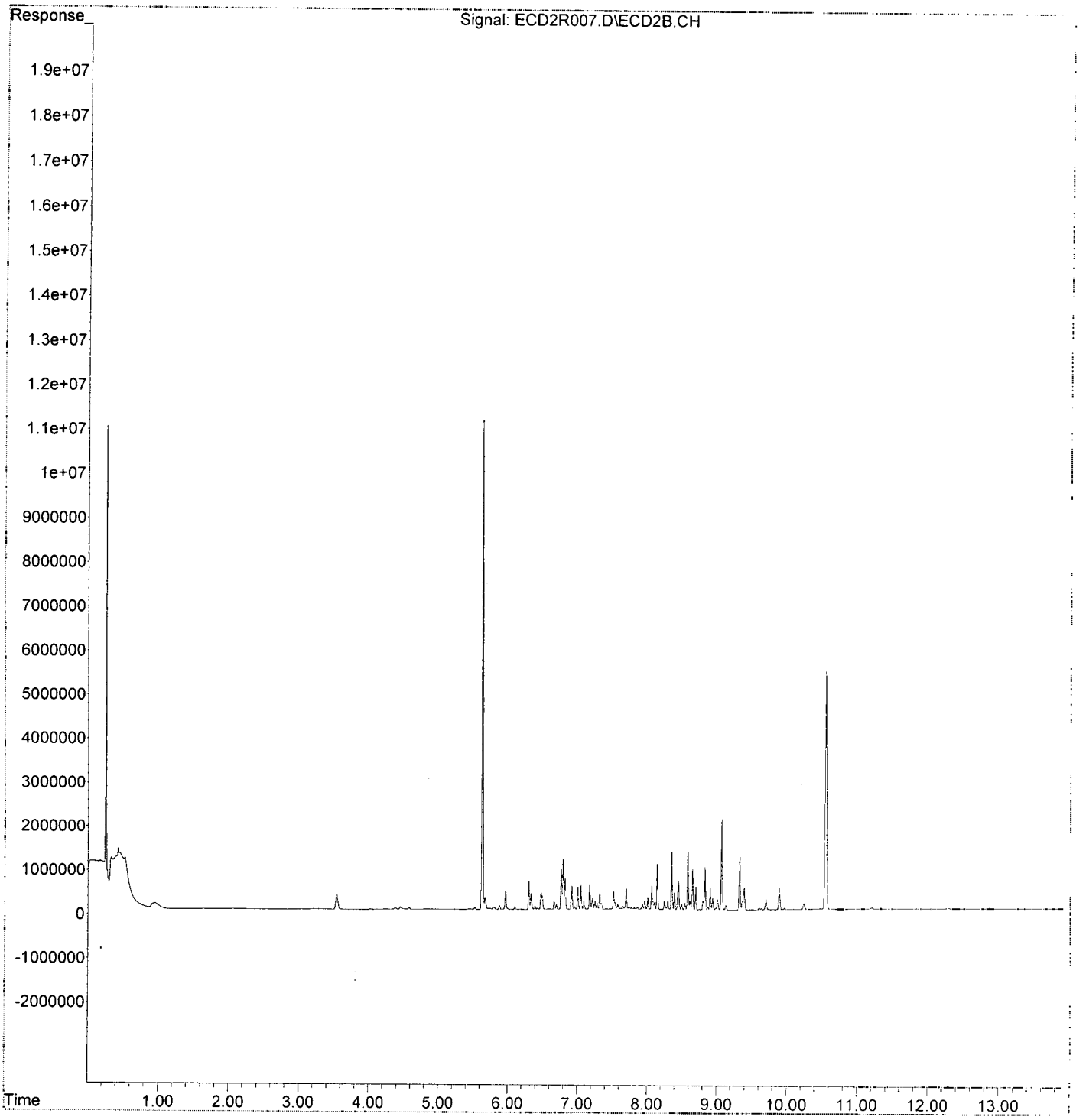
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/mld
55)	Aroclor 1268 (1)	0.000	0	N.D.	ng/mld
56)	Aroclor 1268 (2)	0.000	0	N.D.	ng/mld
57)	Aroclor 1268 (3)	0.000	0	N.D.	ng/mld
58)	Aroclor 1268 (4)	0.000	0	N.D.	ng/mld
59)	Aroclor 1268 (5)	0.000	0	N.D.	ng/mld
60)	Aroclor 1268 (6)	0.000	0	N.D.	ng/mld
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/mld

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R007.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 18:08
Operator : MJB / KAK
Sample : 0A13050-CAL3
Misc :
ALS Vial : 56 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:01:21 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R008.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 18:25
Operator : MJB / KAK
Sample : 0A13050-CAL4
Misc :
ALS Vial : 57 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:01:42 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

1/14/20

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	5.629	22681880	86.463	ng/ml
62)	S DCBP (S)	10.551	10891716	74.199	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.301	1190843	134.057	ng/ml
3)	Aroclor 1016 (2)	6.790	2334544	142.670	ng/ml
4)	Aroclor 1016 (3)	6.917	1067264	144.894	ng/ml
5)	Aroclor 1016 (4)	7.004	981904	131.670	ng/ml
6)	Aroclor 1016 (5)	7.049	1076394	130.455	ng/ml
7)	Aroclor 1016 (6)	7.174	1160064	140.937	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	0.000	0	N.D.	ng/mld
10)	Aroclor 1221 (2)	0.000	0	N.D.	ng/mld
11)	Aroclor 1221 (3)	0.000	0	N.D.	ng/mld
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/mld
13)	Aroclor 1232 (1)	0.000	0	N.D.	ng/mld
14)	Aroclor 1232 (2)	0.000	0	N.D.	ng/mld
15)	Aroclor 1232 (3)	0.000	0	N.D.	ng/mld
16)	Aroclor 1232 (4)	0.000	0	N.D.	ng/mld
17)	Aroclor 1232 (5)	0.000	0	N.D.	ng/mld
18)	Aroclor 1232 (6)	0.000	0	N.D.	ng/mld
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/mld
20)	Aroclor 1242 (1)	0.000	0	N.D.	ng/mld
21)	Aroclor 1242 (2)	0.000	0	N.D.	ng/mld
22)	Aroclor 1242 (3)	0.000	0	N.D.	ng/mld
23)	Aroclor 1242 (4)	0.000	0	N.D.	ng/mld
24)	Aroclor 1242 (5)	0.000	0	N.D.	ng/mld
25)	Aroclor 1242 (6)	0.000	0	N.D.	ng/mld
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/mld
27)	Aroclor 1248 (1)	0.000	0	N.D.	ng/mld
28)	Aroclor 1248 (2)	0.000	0	N.D.	ng/mld
29)	Aroclor 1248 (3)	0.000	0	N.D.	ng/mld
30)	Aroclor 1248 (4)	0.000	0	N.D.	ng/mld
31)	Aroclor 1248 (5)	0.000	0	N.D.	ng/mld
32)	Aroclor 1248 (6)	0.000	0	N.D.	ng/mld
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/mld
34)	Aroclor 1254 (1)	0.000	0	N.D.	ng/mld
35)	Aroclor 1254 (2)	0.000	0	N.D.	ng/mld
36)	Aroclor 1254 (3)	0.000	0	N.D.	ng/mld
37)	Aroclor 1254 (4)	0.000	0	N.D.	ng/mld
38)	Aroclor 1254 (5)	0.000	0	N.D.	ng/mld
39)	Aroclor 1254 (6)	0.000	0	N.D.	ng/mld
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/mld
41)	Aroclor 1260 (1)	8.144	2093221	132.626	ng/ml
42)	Aroclor 1260 (2)	8.351	2511397	128.304	ng/ml
43)	Aroclor 1260 (3)	8.582	2744238	136.311	ng/ml
44)	Aroclor 1260 (4)	9.066	4251874	137.396	ng/ml
45)	Aroclor 1260 (5)	9.325	2471890	138.116	ng/ml
46)	Aroclor 1260 (6)	9.891	1008936	146.253	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R008.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 18:25
Operator : MJB / KAK
Sample : 0A13050-CAL4
Misc :
ALS Vial : 57 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:01:42 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

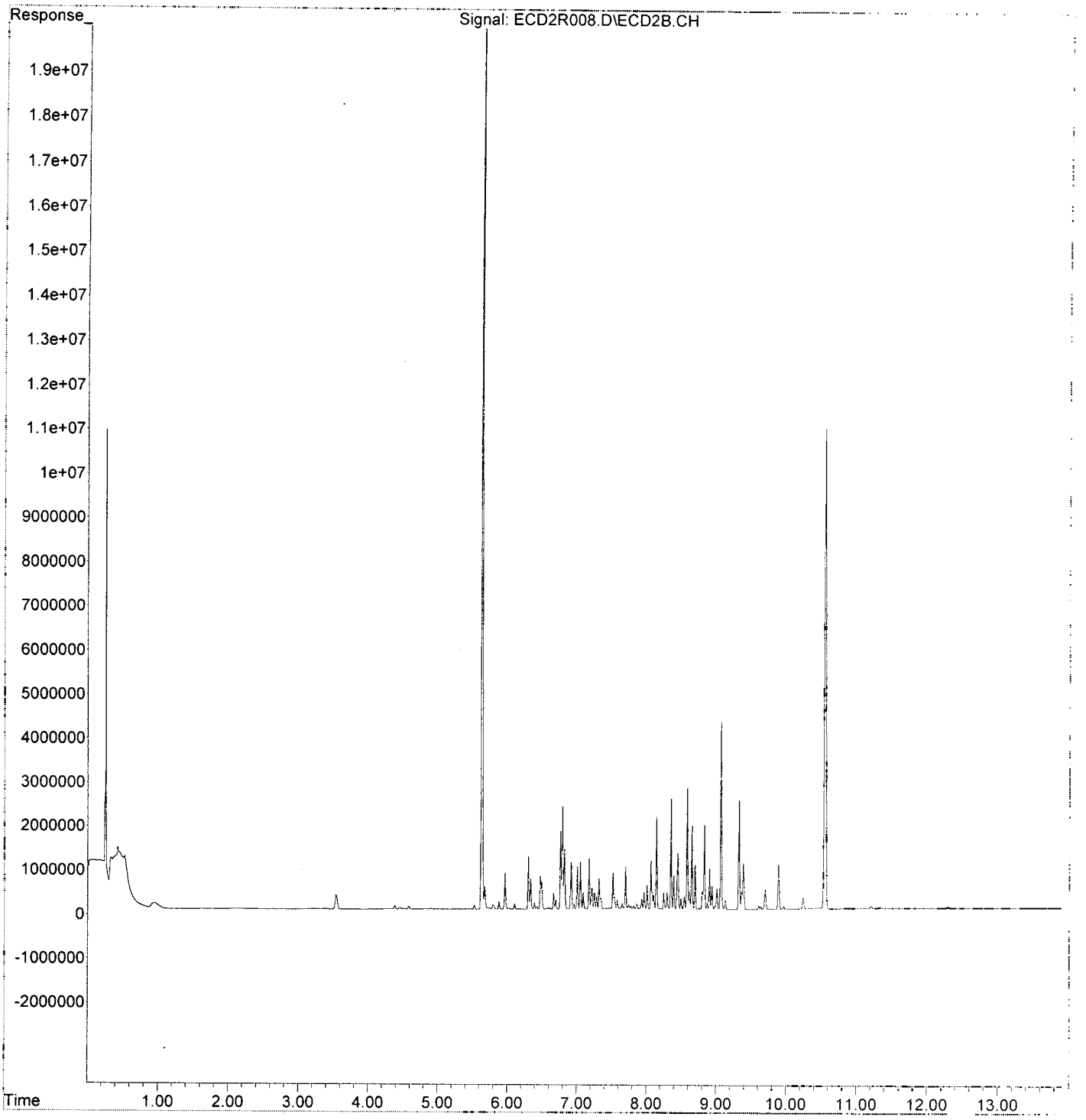
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/mld
55)	Aroclor 1268 (1)	0.000	0	N.D.	ng/mld
56)	Aroclor 1268 (2)	0.000	0	N.D.	ng/mld
57)	Aroclor 1268 (3)	0.000	0	N.D.	ng/mld
58)	Aroclor 1268 (4)	0.000	0	N.D.	ng/mld
59)	Aroclor 1268 (5)	0.000	0	N.D.	ng/mld
60)	Aroclor 1268 (6)	0.000	0	N.D.	ng/mld
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/mld

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R008.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 18:25
Operator : MJB / KAK
Sample : 0A13050-CAL4
Misc :
ALS Vial : 57 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:01:42 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R009.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 18:43
Operator : MJB / KAK
Sample : 0A13050-CAL5
Misc :
ALS Vial : 58 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 08:59:57 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

1/14/20

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	5.629	53881075	205.393	ng/ml
62)	S DCBP (S)	10.552	25218318	171.798	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.300	2835860	319.242	ng/ml
3)	Aroclor 1016 (2)	6.790	5484312	335.160	ng/ml
4)	Aroclor 1016 (3)	6.917	2538905	344.687	ng/ml
5)	Aroclor 1016 (4)	7.003	2203390	295.467	ng/ml
6)	Aroclor 1016 (5)	7.048	2536989	307.474	ng/ml
7)	Aroclor 1016 (6)	7.174	2573883	312.703	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	0.000	0	N.D.	ng/mld
10)	Aroclor 1221 (2)	0.000	0	N.D.	ng/mld
11)	Aroclor 1221 (3)	0.000	0	N.D.	ng/mld
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/mld
13)	Aroclor 1232 (1)	0.000	0	N.D.	ng/mld
14)	Aroclor 1232 (2)	0.000	0	N.D.	ng/mld
15)	Aroclor 1232 (3)	0.000	0	N.D.	ng/mld
16)	Aroclor 1232 (4)	0.000	0	N.D.	ng/mld
17)	Aroclor 1232 (5)	0.000	0	N.D.	ng/mld
18)	Aroclor 1232 (6)	0.000	0	N.D.	ng/mld
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/mld
20)	Aroclor 1242 (1)	0.000	0	N.D.	ng/mld
21)	Aroclor 1242 (2)	0.000	0	N.D.	ng/mld
22)	Aroclor 1242 (3)	0.000	0	N.D.	ng/mld
23)	Aroclor 1242 (4)	0.000	0	N.D.	ng/mld
24)	Aroclor 1242 (5)	0.000	0	N.D.	ng/mld
25)	Aroclor 1242 (6)	0.000	0	N.D.	ng/mld
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/mld
27)	Aroclor 1248 (1)	0.000	0	N.D.	ng/mld
28)	Aroclor 1248 (2)	0.000	0	N.D.	ng/mld
29)	Aroclor 1248 (3)	0.000	0	N.D.	ng/mld
30)	Aroclor 1248 (4)	0.000	0	N.D.	ng/mld
31)	Aroclor 1248 (5)	0.000	0	N.D.	ng/mld
32)	Aroclor 1248 (6)	0.000	0	N.D.	ng/mld
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/mld
34)	Aroclor 1254 (1)	0.000	0	N.D.	ng/mld
35)	Aroclor 1254 (2)	0.000	0	N.D.	ng/mld
36)	Aroclor 1254 (3)	0.000	0	N.D.	ng/mld
37)	Aroclor 1254 (4)	0.000	0	N.D.	ng/mld
38)	Aroclor 1254 (5)	0.000	0	N.D.	ng/mld
39)	Aroclor 1254 (6)	0.000	0	N.D.	ng/mld
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/mld
41)	Aroclor 1260 (1)	8.144	5080914	321.926	ng/ml
42)	Aroclor 1260 (2)	8.351	6152313	314.315	ng/ml
43)	Aroclor 1260 (3)	8.583	6540031	324.855	ng/ml
44)	Aroclor 1260 (4)	9.066	10496732	339.193	ng/ml
45)	Aroclor 1260 (5)	9.325	6070844	339.206	ng/ml
46)	Aroclor 1260 (6)	9.891	2392226	346.773	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R009.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 18:43
Operator : MJB / KAK
Sample : 0A13050-CAL5
Misc :
ALS Vial : 58 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 08:59:57 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

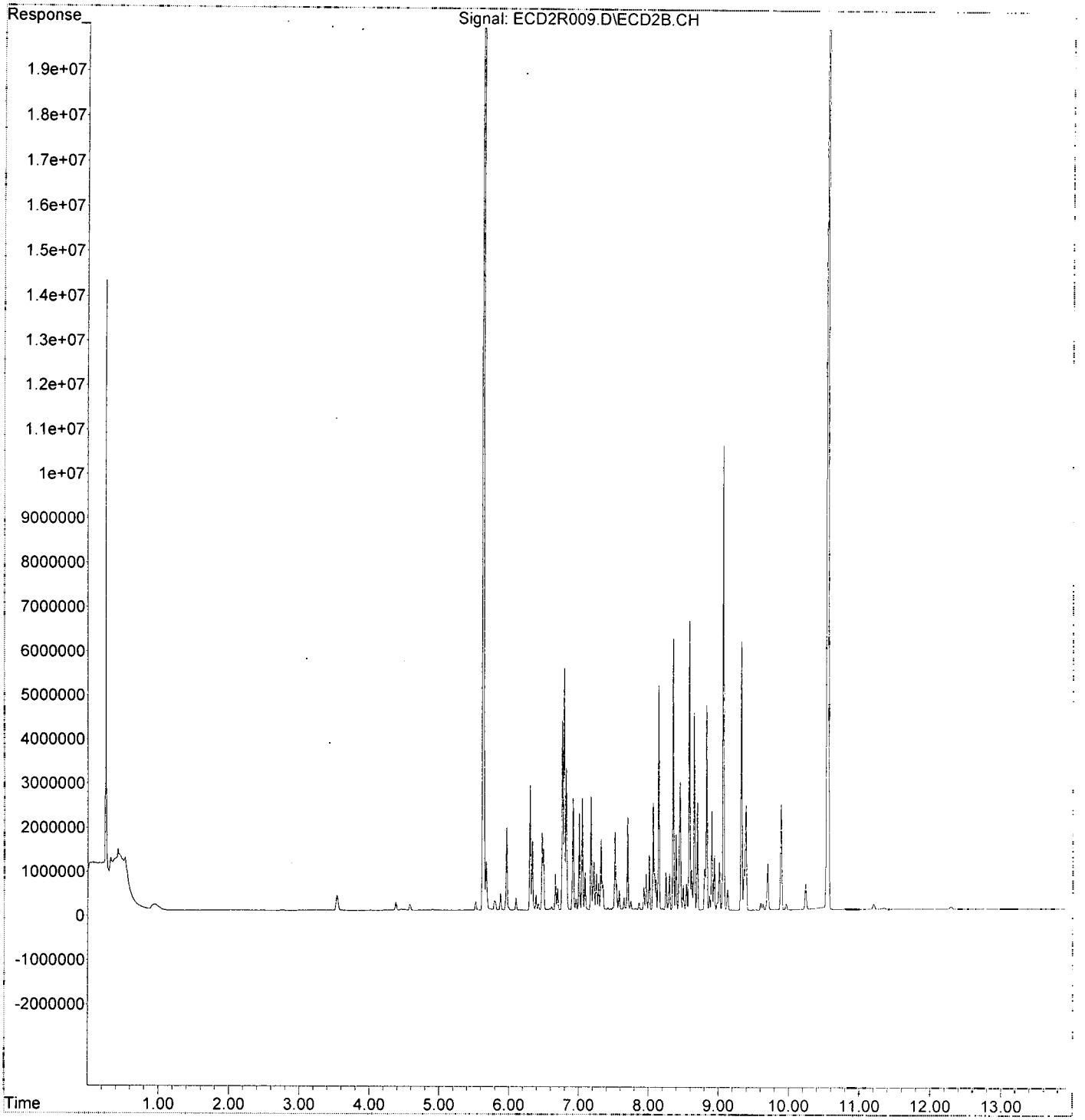
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/mld
55)	Aroclor 1268 (1)	0.000	0	N.D.	ng/mld
56)	Aroclor 1268 (2)	0.000	0	N.D.	ng/mld
57)	Aroclor 1268 (3)	0.000	0	N.D.	ng/mld
58)	Aroclor 1268 (4)	0.000	0	N.D.	ng/mld
59)	Aroclor 1268 (5)	0.000	0	N.D.	ng/mld
60)	Aroclor 1268 (6)	0.000	0	N.D.	ng/mld
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/mld

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R009.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 18:43
Operator : MJB / KAK
Sample : 0A13050-CAL5
Misc :
ALS Vial : 58 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 08:59:57 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R010.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 19:01
Operator : MJB / KAK
Sample : 0A13050-CAL6
Misc :
ALS Vial : 59 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:02:03 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

1/14/20

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	5.631	124870409	476.002	ng/ml
62) S	DCBP (S)	10.551	58595711	399.179	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.300	5624087	633.122	ng/ml
3)	Aroclor 1016 (2)	6.790	11025443	673.792	ng/ml
4)	Aroclor 1016 (3)	6.917	5145954	698.624	ng/ml
5)	Aroclor 1016 (4)	7.004	4338878	581.829	ng/ml
6)	Aroclor 1016 (5)	7.048	5224293	633.166	ng/ml
7)	Aroclor 1016 (6)	7.173	5149713	625.642	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	0.000	0	N.D.	ng/mld
10)	Aroclor 1221 (2)	0.000	0	N.D.	ng/mld
11)	Aroclor 1221 (3)	0.000	0	N.D.	ng/mld
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/mld
13)	Aroclor 1232 (1)	0.000	0	N.D.	ng/mld
14)	Aroclor 1232 (2)	0.000	0	N.D.	ng/mld
15)	Aroclor 1232 (3)	0.000	0	N.D.	ng/mld
16)	Aroclor 1232 (4)	0.000	0	N.D.	ng/mld
17)	Aroclor 1232 (5)	0.000	0	N.D.	ng/mld
18)	Aroclor 1232 (6)	0.000	0	N.D.	ng/mld
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/mld
20)	Aroclor 1242 (1)	0.000	0	N.D.	ng/mld
21)	Aroclor 1242 (2)	0.000	0	N.D.	ng/mld
22)	Aroclor 1242 (3)	0.000	0	N.D.	ng/mld
23)	Aroclor 1242 (4)	0.000	0	N.D.	ng/mld
24)	Aroclor 1242 (5)	0.000	0	N.D.	ng/mld
25)	Aroclor 1242 (6)	0.000	0	N.D.	ng/mld
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/mld
27)	Aroclor 1248 (1)	0.000	0	N.D.	ng/mld
28)	Aroclor 1248 (2)	0.000	0	N.D.	ng/mld
29)	Aroclor 1248 (3)	0.000	0	N.D.	ng/mld
30)	Aroclor 1248 (4)	0.000	0	N.D.	ng/mld
31)	Aroclor 1248 (5)	0.000	0	N.D.	ng/mld
32)	Aroclor 1248 (6)	0.000	0	N.D.	ng/mld
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/mld
34)	Aroclor 1254 (1)	0.000	0	N.D.	ng/mld
35)	Aroclor 1254 (2)	0.000	0	N.D.	ng/mld
36)	Aroclor 1254 (3)	0.000	0	N.D.	ng/mld
37)	Aroclor 1254 (4)	0.000	0	N.D.	ng/mld
38)	Aroclor 1254 (5)	0.000	0	N.D.	ng/mld
39)	Aroclor 1254 (6)	0.000	0	N.D.	ng/mld
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/mld
41)	Aroclor 1260 (1)	8.143	10123087	641.397	ng/ml
42)	Aroclor 1260 (2)	8.350	12298764	628.330	ng/ml
43)	Aroclor 1260 (3)	8.582	12961672	643.829	ng/ml
44)	Aroclor 1260 (4)	9.066	21886590	707.247	ng/ml
45)	Aroclor 1260 (5)	9.325	12074358	674.651	ng/ml
46)	Aroclor 1260 (6)	9.890	4594659	666.033	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R010.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 19:01
Operator : MJB / KAK
Sample : 0A13050-CAL6
Misc :
ALS Vial : 59 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:02:03 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

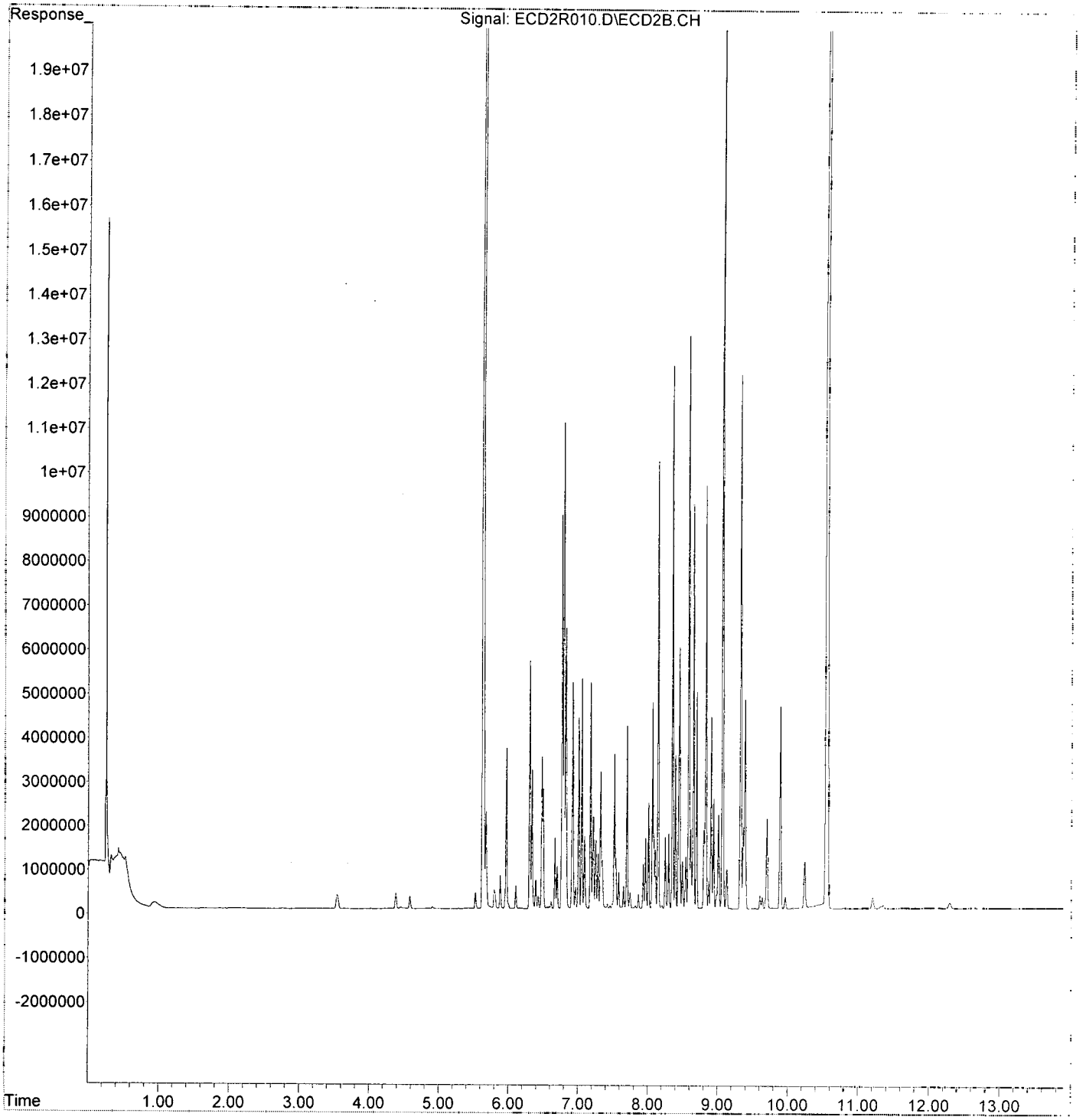
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/mld
55)	Aroclor 1268 (1)	0.000	0	N.D.	ng/mld
56)	Aroclor 1268 (2)	0.000	0	N.D.	ng/mld
57)	Aroclor 1268 (3)	0.000	0	N.D.	ng/mld
58)	Aroclor 1268 (4)	0.000	0	N.D.	ng/mld
59)	Aroclor 1268 (5)	0.000	0	N.D.	ng/mld
60)	Aroclor 1268 (6)	0.000	0	N.D.	ng/mld
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/mld

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R010.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 19:01
Operator : MJB / KAK
Sample : 0A13050-CAL6
Misc :
ALS Vial : 59 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:02:03 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R011.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 19:18
Operator : MJB / KAK
Sample : 0A13050-CAL7
Misc :
ALS Vial : 60 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:02:23 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

1/14/20

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	5.633	194842413	742.733	ng/ml
62)	S DCBP (S)	10.553	101081415	688.610	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.300	8229290	926.399	ng/ml
3)	Aroclor 1016 (2)	6.791	15844863	968.319	ng/ml
4)	Aroclor 1016 (3)	6.917	7443643	1010.563	ng/ml
5)	Aroclor 1016 (4)	7.004	6442401	863.904	ng/ml
6)	Aroclor 1016 (5)	7.049	7076827	857.687	ng/ml
7)	Aroclor 1016 (6)	7.174	7407214	899.907	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	0.000	0	N.D.	ng/mld
10)	Aroclor 1221 (2)	0.000	0	N.D.	ng/mld
11)	Aroclor 1221 (3)	0.000	0	N.D.	ng/mld
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/mld
13)	Aroclor 1232 (1)	0.000	0	N.D.	ng/mld
14)	Aroclor 1232 (2)	0.000	0	N.D.	ng/mld
15)	Aroclor 1232 (3)	0.000	0	N.D.	ng/mld
16)	Aroclor 1232 (4)	0.000	0	N.D.	ng/mld
17)	Aroclor 1232 (5)	0.000	0	N.D.	ng/mld
18)	Aroclor 1232 (6)	0.000	0	N.D.	ng/mld
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/mld
20)	Aroclor 1242 (1)	0.000	0	N.D.	ng/mld
21)	Aroclor 1242 (2)	0.000	0	N.D.	ng/mld
22)	Aroclor 1242 (3)	0.000	0	N.D.	ng/mld
23)	Aroclor 1242 (4)	0.000	0	N.D.	ng/mld
24)	Aroclor 1242 (5)	0.000	0	N.D.	ng/mld
25)	Aroclor 1242 (6)	0.000	0	N.D.	ng/mld
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/mld
27)	Aroclor 1248 (1)	0.000	0	N.D.	ng/mld
28)	Aroclor 1248 (2)	0.000	0	N.D.	ng/mld
29)	Aroclor 1248 (3)	0.000	0	N.D.	ng/mld
30)	Aroclor 1248 (4)	0.000	0	N.D.	ng/mld
31)	Aroclor 1248 (5)	0.000	0	N.D.	ng/mld
32)	Aroclor 1248 (6)	0.000	0	N.D.	ng/mld
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/mld
34)	Aroclor 1254 (1)	0.000	0	N.D.	ng/mld
35)	Aroclor 1254 (2)	0.000	0	N.D.	ng/mld
36)	Aroclor 1254 (3)	0.000	0	N.D.	ng/mld
37)	Aroclor 1254 (4)	0.000	0	N.D.	ng/mld
38)	Aroclor 1254 (5)	0.000	0	N.D.	ng/mld
39)	Aroclor 1254 (6)	0.000	0	N.D.	ng/mld
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/mld
41)	Aroclor 1260 (1)	8.144	14548054	921.762	ng/ml
42)	Aroclor 1260 (2)	8.351	17676726	903.084	ng/ml
43)	Aroclor 1260 (3)	8.583	18285536	908.274	ng/ml
44)	Aroclor 1260 (4)	9.067	32592843	1053.210	ng/ml
45)	Aroclor 1260 (5)	9.325	17701773	989.081	ng/ml
46)	Aroclor 1260 (6)	9.891	6885880	998.164	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R011.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 19:18
Operator : MJB / KAK
Sample : 0A13050-CAL7
Misc :
ALS Vial : 60 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:02:23 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

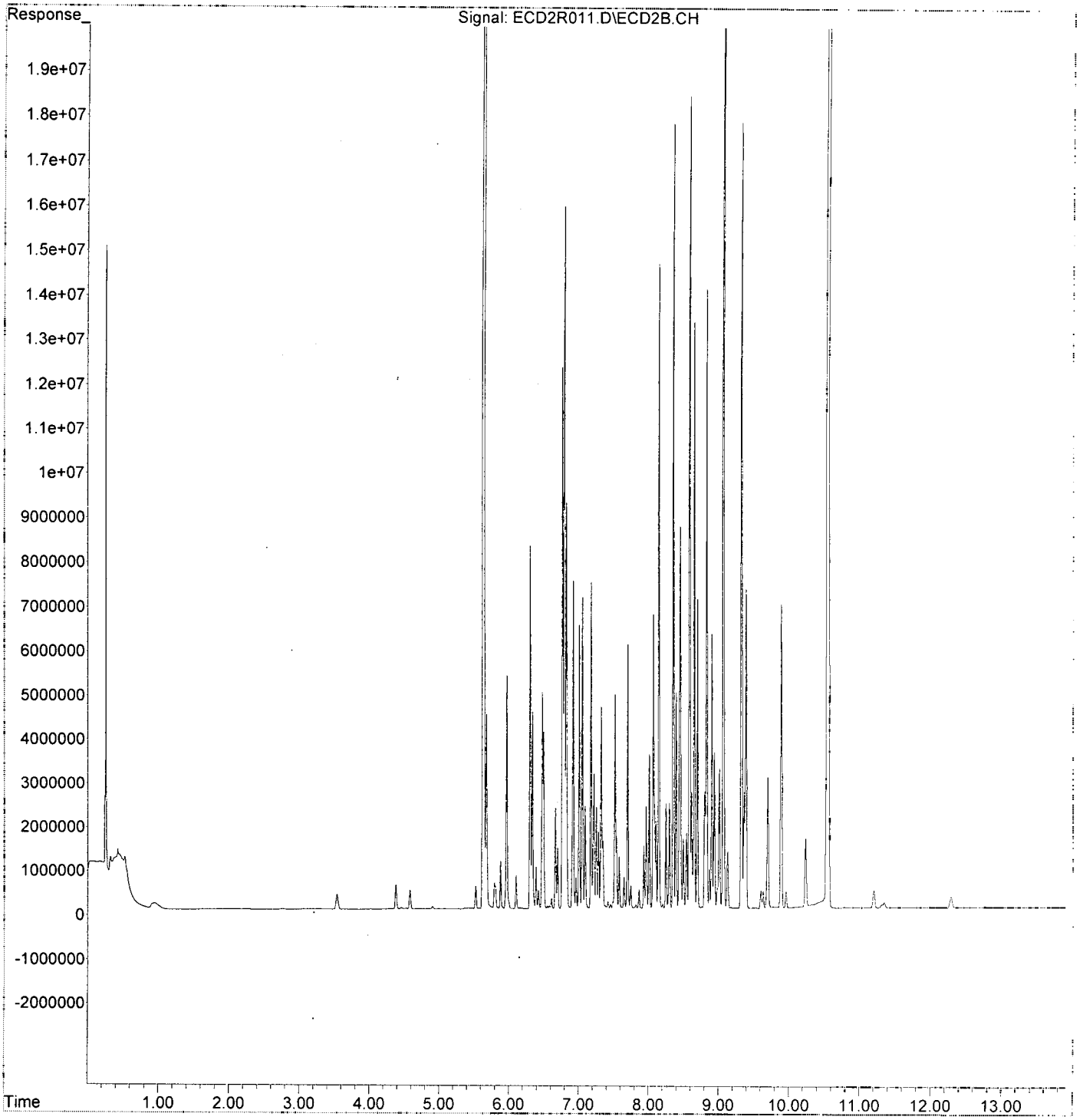
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/mld
55)	Aroclor 1268 (1)	0.000	0	N.D.	ng/mld
56)	Aroclor 1268 (2)	0.000	0	N.D.	ng/mld
57)	Aroclor 1268 (3)	0.000	0	N.D.	ng/mld
58)	Aroclor 1268 (4)	0.000	0	N.D.	ng/mld
59)	Aroclor 1268 (5)	0.000	0	N.D.	ng/mld
60)	Aroclor 1268 (6)	0.000	0	N.D.	ng/mld
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/mld

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R011.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 19:18
Operator : MJB / KAK
Sample : 0A13050-CAL7
Misc :
ALS Vial : 60 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:02:23 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R014.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 20:11
Operator : MJB / KAK
Sample : 0A13050-CAL8
Misc :
ALS Vial : 62 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:08:11 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:08:06 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	0.000	0	N.D.	ng/mld
62) S	DCBP (S)	0.000	0	N.D.	ng/mld
	Target Compounds				
2)	Aroclor 1016 (1)	0.000	0	N.D.	ng/mld
3)	Aroclor 1016 (2)	0.000	0	N.D.	ng/mld
4)	Aroclor 1016 (3)	0.000	0	N.D.	ng/mld
5)	Aroclor 1016 (4)	0.000	0	N.D.	ng/mld
6)	Aroclor 1016 (5)	0.000	0	N.D.	ng/mld
7)	Aroclor 1016 (6)	0.000	0	N.D.	ng/mld
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/mld
9)	Aroclor 1221 (1)	5.806	868760	405.233	ng/ml
10)	Aroclor 1221 (2)	5.878	858489	392.721	ng/ml
11)	Aroclor 1221 (3)	5.965	2853506	403.334	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	0.000	0	N.D.	ng/mld
14)	Aroclor 1232 (2)	0.000	0	N.D.	ng/mld
15)	Aroclor 1232 (3)	0.000	0	N.D.	ng/mld
16)	Aroclor 1232 (4)	0.000	0	N.D.	ng/mld
17)	Aroclor 1232 (5)	0.000	0	N.D.	ng/mld
18)	Aroclor 1232 (6)	0.000	0	N.D.	ng/mld
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/mld
20)	Aroclor 1242 (1)	0.000	0	N.D.	ng/mld
21)	Aroclor 1242 (2)	0.000	0	N.D.	ng/mld
22)	Aroclor 1242 (3)	0.000	0	N.D.	ng/mld
23)	Aroclor 1242 (4)	0.000	0	N.D.	ng/mld
24)	Aroclor 1242 (5)	0.000	0	N.D.	ng/mld
25)	Aroclor 1242 (6)	0.000	0	N.D.	ng/mld
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/mld
27)	Aroclor 1248 (1)	0.000	0	N.D.	ng/mld
28)	Aroclor 1248 (2)	0.000	0	N.D.	ng/mld
29)	Aroclor 1248 (3)	0.000	0	N.D.	ng/mld
30)	Aroclor 1248 (4)	0.000	0	N.D.	ng/mld
31)	Aroclor 1248 (5)	0.000	0	N.D.	ng/mld
32)	Aroclor 1248 (6)	0.000	0	N.D.	ng/mld
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/mld
34)	Aroclor 1254 (1)	0.000	0	N.D.	ng/mld
35)	Aroclor 1254 (2)	0.000	0	N.D.	ng/mld
36)	Aroclor 1254 (3)	0.000	0	N.D.	ng/mld
37)	Aroclor 1254 (4)	0.000	0	N.D.	ng/mld
38)	Aroclor 1254 (5)	0.000	0	N.D.	ng/mld
39)	Aroclor 1254 (6)	0.000	0	N.D.	ng/mld
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/mld
41)	Aroclor 1260 (1)	0.000	0	N.D.	ng/mld
42)	Aroclor 1260 (2)	0.000	0	N.D.	ng/mld
43)	Aroclor 1260 (3)	0.000	0	N.D.	ng/mld
44)	Aroclor 1260 (4)	0.000	0	N.D.	ng/mld
45)	Aroclor 1260 (5)	0.000	0	N.D.	ng/mld
46)	Aroclor 1260 (6)	0.000	0	N.D.	ng/mld
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/mld

1/14/20

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R014.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 20:11
Operator : MJB / KAK
Sample : 0A13050-CAL8
Misc :
ALS Vial : 62 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:08:11 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:08:06 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

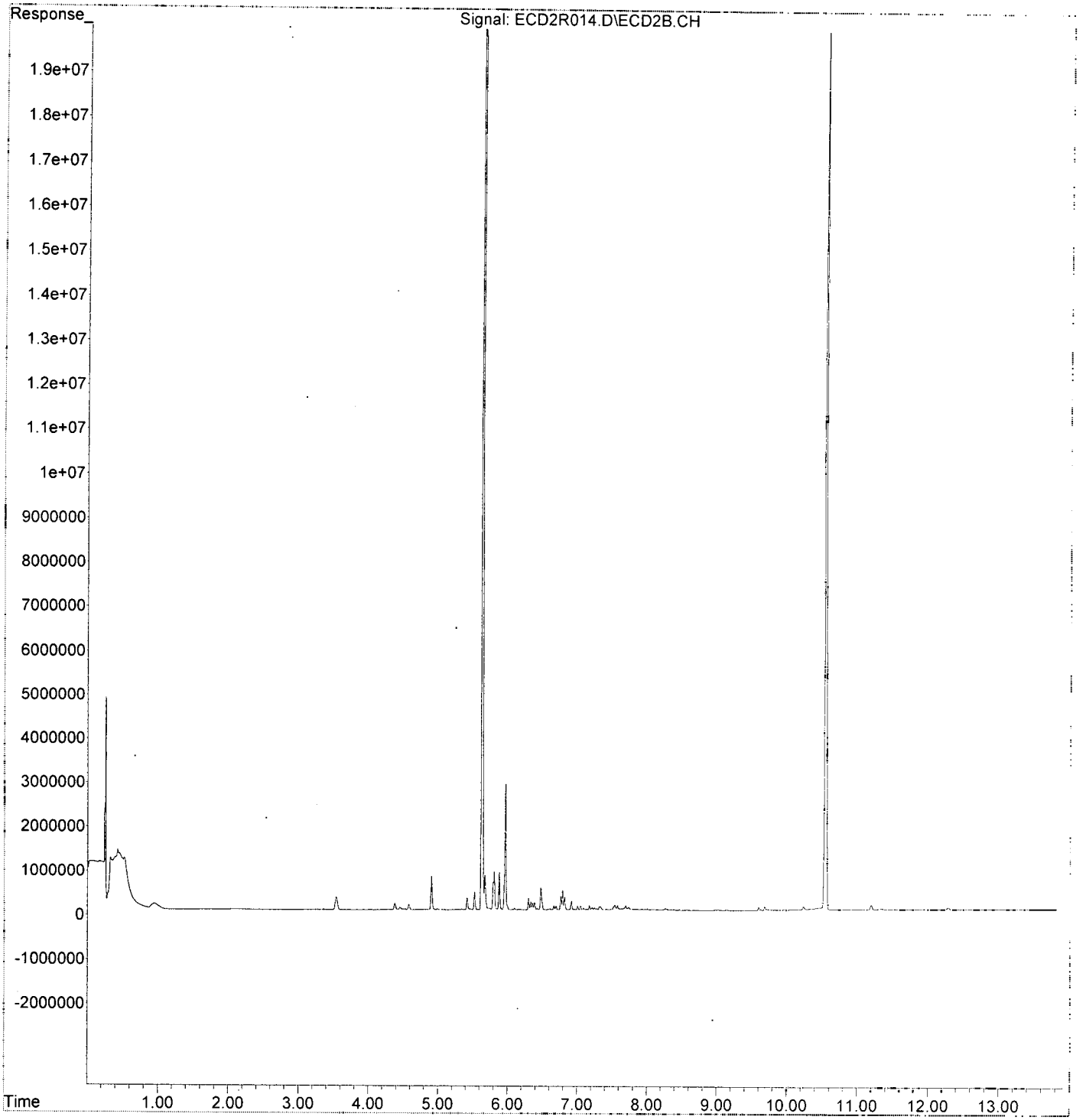
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/mld
55)	Aroclor 1268 (1)	0.000	0	N.D.	ng/mld
56)	Aroclor 1268 (2)	0.000	0	N.D.	ng/mld
57)	Aroclor 1268 (3)	0.000	0	N.D.	ng/mld
58)	Aroclor 1268 (4)	0.000	0	N.D.	ng/mld
59)	Aroclor 1268 (5)	0.000	0	N.D.	ng/mld
60)	Aroclor 1268 (6)	0.000	0	N.D.	ng/mld
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/mld

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R014.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 20:11
Operator : MJB / KAK
Sample : 0A13050-CAL8
Misc :
ALS Vial : 62 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:08:11 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:08:06 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R015.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 20:29
Operator : MJB / KAK
Sample : 0A13050-CAL9
Misc :
ALS Vial : 63 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:09:55 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:09:49 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	0.000	0	N.D.	ng/mld
62) S	DCBP (S)	0.000	0	N.D.	ng/mld
	Target Compounds				
2)	Aroclor 1016 (1)	0.000	0	N.D.	ng/mld
3)	Aroclor 1016 (2)	0.000	0	N.D.	ng/mld
4)	Aroclor 1016 (3)	0.000	0	N.D.	ng/mld
5)	Aroclor 1016 (4)	0.000	0	N.D.	ng/mld
6)	Aroclor 1016 (5)	0.000	0	N.D.	ng/mld
7)	Aroclor 1016 (6)	0.000	0	N.D.	ng/mld
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/mld
9)	Aroclor 1221 (1)	0.000	0	N.D.	ng/mld
10)	Aroclor 1221 (2)	0.000	0	N.D.	ng/mld
11)	Aroclor 1221 (3)	0.000	0	N.D.	ng/mld
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/mld
13)	Aroclor 1232 (1)	5.963	2284999	399.149	ng/ml
14)	Aroclor 1232 (2)	6.298	1301366	374.360	ng/ml
15)	Aroclor 1232 (3)	6.789	2445980	377.801	ng/ml
16)	Aroclor 1232 (4)	7.002	845919	354.297	ng/ml
17)	Aroclor 1232 (5)	7.047	1040422	380.779	ng/ml
18)	Aroclor 1232 (6)	7.172	1084837	365.755	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	0.000	0	N.D.	ng/mld
21)	Aroclor 1242 (2)	0.000	0	N.D.	ng/mld
22)	Aroclor 1242 (3)	0.000	0	N.D.	ng/mld
23)	Aroclor 1242 (4)	0.000	0	N.D.	ng/mld
24)	Aroclor 1242 (5)	0.000	0	N.D.	ng/mld
25)	Aroclor 1242 (6)	0.000	0	N.D.	ng/mld
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/mld
27)	Aroclor 1248 (1)	0.000	0	N.D.	ng/mld
28)	Aroclor 1248 (2)	0.000	0	N.D.	ng/mld
29)	Aroclor 1248 (3)	0.000	0	N.D.	ng/mld
30)	Aroclor 1248 (4)	0.000	0	N.D.	ng/mld
31)	Aroclor 1248 (5)	0.000	0	N.D.	ng/mld
32)	Aroclor 1248 (6)	0.000	0	N.D.	ng/mld
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/mld
34)	Aroclor 1254 (1)	0.000	0	N.D.	ng/mld
35)	Aroclor 1254 (2)	0.000	0	N.D.	ng/mld
36)	Aroclor 1254 (3)	0.000	0	N.D.	ng/mld
37)	Aroclor 1254 (4)	0.000	0	N.D.	ng/mld
38)	Aroclor 1254 (5)	0.000	0	N.D.	ng/mld
39)	Aroclor 1254 (6)	0.000	0	N.D.	ng/mld
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/mld
41)	Aroclor 1260 (1)	0.000	0	N.D.	ng/mld
42)	Aroclor 1260 (2)	0.000	0	N.D.	ng/mld
43)	Aroclor 1260 (3)	0.000	0	N.D.	ng/mld
44)	Aroclor 1260 (4)	0.000	0	N.D.	ng/mld
45)	Aroclor 1260 (5)	0.000	0	N.D.	ng/mld
46)	Aroclor 1260 (6)	0.000	0	N.D.	ng/mld
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/mld

1/14/20

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R015.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 20:29
Operator : MJB / KAK
Sample : 0A13050-CAL9
Misc :
ALS Vial : 63 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:09:55 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:09:49 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

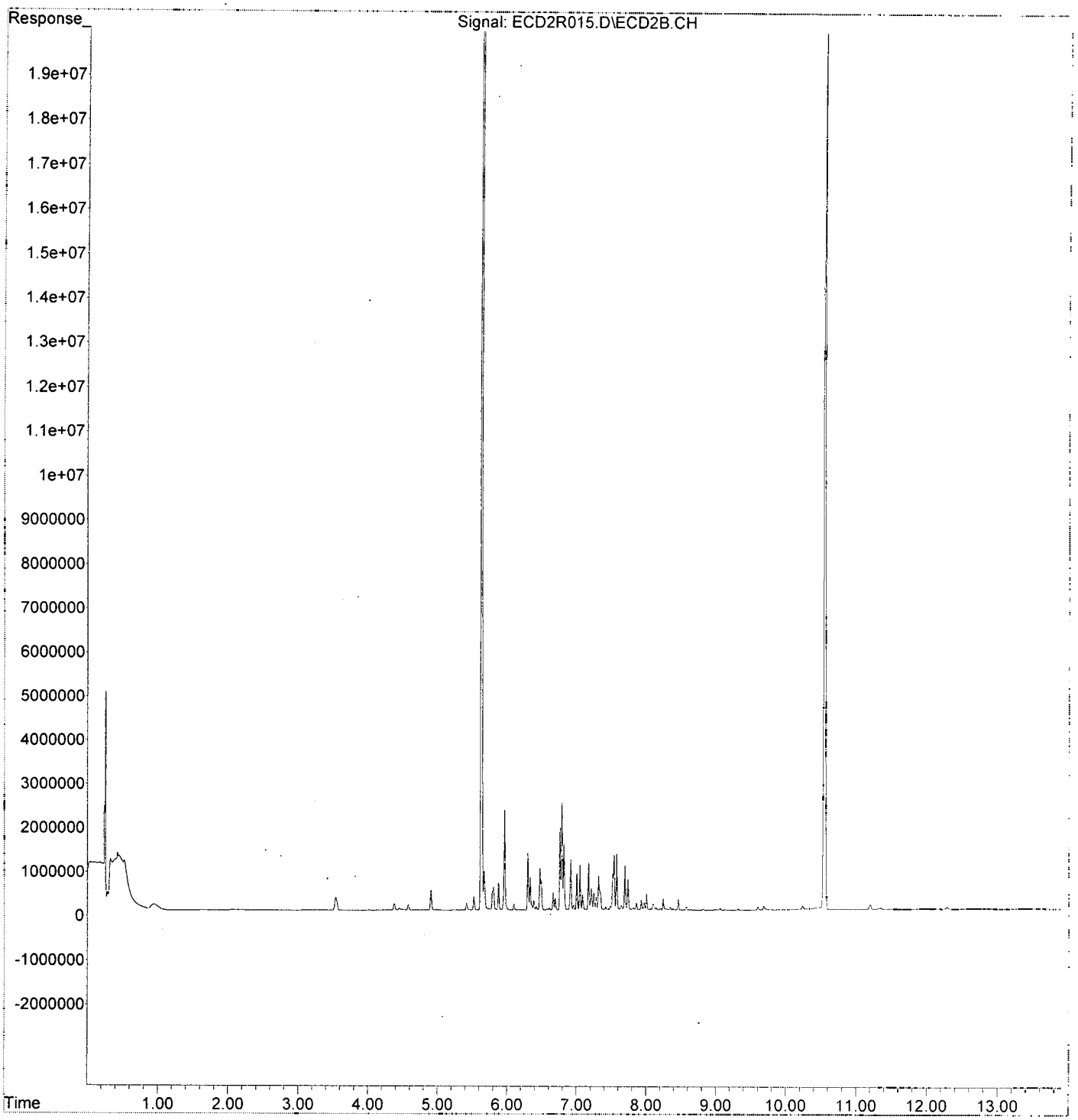
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	0.000	0	N.D. ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D. ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D. ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D. ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D. ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D. ng/mld
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/mld
55)	Aroclor 1268 (1)	0.000	0	N.D. ng/mld
56)	Aroclor 1268 (2)	0.000	0	N.D. ng/mld
57)	Aroclor 1268 (3)	0.000	0	N.D. ng/mld
58)	Aroclor 1268 (4)	0.000	0	N.D. ng/mld
59)	Aroclor 1268 (5)	0.000	0	N.D. ng/mld
60)	Aroclor 1268 (6)	0.000	0	N.D. ng/mld
61)	Aroclor 1268 - AVE	0.000	0	N.D. ng/mld

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R015.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 20:29
Operator : MJB / KAK
Sample : 0A13050-CAL9
Misc :
ALS Vial : 63 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:09:55 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:09:49 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R016.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 20:46
Operator : MJB / KAK
Sample : 0A13050-CALA
Misc :
ALS Vial : 64 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:11:35 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:11:30 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	0.000	0	N.D.	ng/mld
62)	S DCBP (S)	0.000	0	N.D.	ng/mld
	Target Compounds				
2)	Aroclor 1016 (1)	0.000	0	N.D.	ng/mld
3)	Aroclor 1016 (2)	0.000	0	N.D.	ng/mld
4)	Aroclor 1016 (3)	0.000	0	N.D.	ng/mld
5)	Aroclor 1016 (4)	0.000	0	N.D.	ng/mld
6)	Aroclor 1016 (5)	0.000	0	N.D.	ng/mld
7)	Aroclor 1016 (6)	0.000	0	N.D.	ng/mld
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/mld
9)	Aroclor 1221 (1)	0.000	0	N.D.	ng/mld
10)	Aroclor 1221 (2)	0.000	0	N.D.	ng/mld
11)	Aroclor 1221 (3)	0.000	0	N.D.	ng/mld
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/mld
13)	Aroclor 1232 (1)	0.000	0	N.D.	ng/mld
14)	Aroclor 1232 (2)	0.000	0	N.D.	ng/mld
15)	Aroclor 1232 (3)	0.000	0	N.D.	ng/mld
16)	Aroclor 1232 (4)	0.000	0	N.D.	ng/mld
17)	Aroclor 1232 (5)	0.000	0	N.D.	ng/mld
18)	Aroclor 1232 (6)	0.000	0	N.D.	ng/mld
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/mld
20)	Aroclor 1242 (1)	6.299	2273165	346.971	ng/ml
21)	Aroclor 1242 (2)	6.788	4411225	372.830	ng/ml
22)	Aroclor 1242 (3)	6.916	1915085	362.537	ng/ml
23)	Aroclor 1242 (4)	7.003	1651796	330.840	ng/ml
24)	Aroclor 1242 (5)	7.047	1996964	343.471	ng/ml
25)	Aroclor 1242 (6)	7.172	2085406	336.623	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	0.000	0	N.D.	ng/mld
28)	Aroclor 1248 (2)	0.000	0	N.D.	ng/mld
29)	Aroclor 1248 (3)	0.000	0	N.D.	ng/mld
30)	Aroclor 1248 (4)	0.000	0	N.D.	ng/mld
31)	Aroclor 1248 (5)	0.000	0	N.D.	ng/mld
32)	Aroclor 1248 (6)	0.000	0	N.D.	ng/mld
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/mld
34)	Aroclor 1254 (1)	0.000	0	N.D.	ng/mld
35)	Aroclor 1254 (2)	0.000	0	N.D.	ng/mld
36)	Aroclor 1254 (3)	0.000	0	N.D.	ng/mld
37)	Aroclor 1254 (4)	0.000	0	N.D.	ng/mld
38)	Aroclor 1254 (5)	0.000	0	N.D.	ng/mld
39)	Aroclor 1254 (6)	0.000	0	N.D.	ng/mld
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/mld
41)	Aroclor 1260 (1)	0.000	0	N.D.	ng/mld
42)	Aroclor 1260 (2)	0.000	0	N.D.	ng/mld
43)	Aroclor 1260 (3)	0.000	0	N.D.	ng/mld
44)	Aroclor 1260 (4)	0.000	0	N.D.	ng/mld
45)	Aroclor 1260 (5)	0.000	0	N.D.	ng/mld
46)	Aroclor 1260 (6)	0.000	0	N.D.	ng/mld
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/mld

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Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R016.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 20:46
Operator : MJB / KAK
Sample : 0A13050-CALA
Misc :
ALS Vial : 64 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:11:35 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:11:30 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

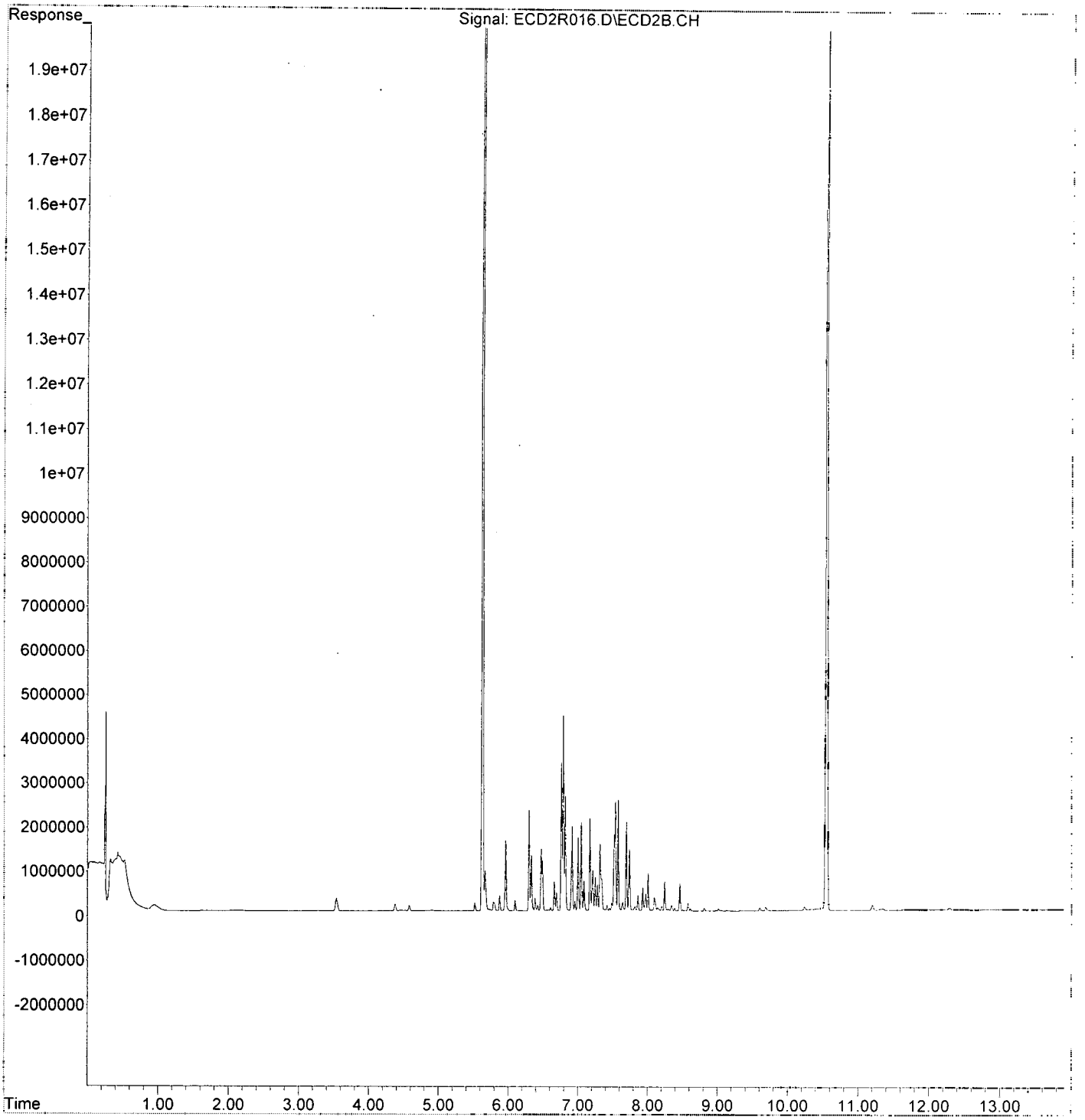
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/mld
55)	Aroclor 1268 (1)	0.000	0	N.D.	ng/mld
56)	Aroclor 1268 (2)	0.000	0	N.D.	ng/mld
57)	Aroclor 1268 (3)	0.000	0	N.D.	ng/mld
58)	Aroclor 1268 (4)	0.000	0	N.D.	ng/mld
59)	Aroclor 1268 (5)	0.000	0	N.D.	ng/mld
60)	Aroclor 1268 (6)	0.000	0	N.D.	ng/mld
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/mld

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R016.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 20:46
Operator : MJB / KAK
Sample : 0A13050-CALA
Misc :
ALS Vial : 64 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:11:35 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:11:30 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R017.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 21:04
Operator : MJB / KAK
Sample : 0A13050-CALB
Misc :
ALS Vial : 65 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:13:19 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:13:13 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	0.000	0	N.D.	ng/mld
62)	S DCBP (S)	0.000	0	N.D.	ng/mld
	Target Compounds				
2)	Aroclor 1016 (1)	0.000	0	N.D.	ng/mld
3)	Aroclor 1016 (2)	0.000	0	N.D.	ng/mld
4)	Aroclor 1016 (3)	0.000	0	N.D.	ng/mld
5)	Aroclor 1016 (4)	0.000	0	N.D.	ng/mld
6)	Aroclor 1016 (5)	0.000	0	N.D.	ng/mld
7)	Aroclor 1016 (6)	0.000	0	N.D.	ng/mld
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/mld
9)	Aroclor 1221 (1)	0.000	0	N.D.	ng/mld
10)	Aroclor 1221 (2)	0.000	0	N.D.	ng/mld
11)	Aroclor 1221 (3)	0.000	0	N.D.	ng/mld
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/mld
13)	Aroclor 1232 (1)	0.000	0	N.D.	ng/mld
14)	Aroclor 1232 (2)	0.000	0	N.D.	ng/mld
15)	Aroclor 1232 (3)	0.000	0	N.D.	ng/mld
16)	Aroclor 1232 (4)	0.000	0	N.D.	ng/mld
17)	Aroclor 1232 (5)	0.000	0	N.D.	ng/mld
18)	Aroclor 1232 (6)	0.000	0	N.D.	ng/mld
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/mld
20)	Aroclor 1242 (1)	0.000	0	N.D.	ng/mld
21)	Aroclor 1242 (2)	0.000	0	N.D.	ng/mld
22)	Aroclor 1242 (3)	0.000	0	N.D.	ng/mld
23)	Aroclor 1242 (4)	0.000	0	N.D.	ng/mld
24)	Aroclor 1242 (5)	0.000	0	N.D.	ng/mld
25)	Aroclor 1242 (6)	0.000	0	N.D.	ng/mld
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/mld
27)	Aroclor 1248 (1)	6.761	2581015	345.871	ng/ml
28)	Aroclor 1248 (2)	7.003	3179675	340.576	ng/ml
29)	Aroclor 1248 (3)	7.047	2967887	338.430	ng/ml
30)	Aroclor 1248 (4)	7.172	3647754	348.382	ng/ml
31)	Aroclor 1248 (5)	7.538	4450876	344.149	ng/ml
32)	Aroclor 1248 (6)	7.695	4070608	345.227	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	0.000	0	N.D.	ng/mld
35)	Aroclor 1254 (2)	0.000	0	N.D.	ng/mld
36)	Aroclor 1254 (3)	0.000	0	N.D.	ng/mld
37)	Aroclor 1254 (4)	0.000	0	N.D.	ng/mld
38)	Aroclor 1254 (5)	0.000	0	N.D.	ng/mld
39)	Aroclor 1254 (6)	0.000	0	N.D.	ng/mld
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/mld
41)	Aroclor 1260 (1)	0.000	0	N.D.	ng/mld
42)	Aroclor 1260 (2)	0.000	0	N.D.	ng/mld
43)	Aroclor 1260 (3)	0.000	0	N.D.	ng/mld
44)	Aroclor 1260 (4)	0.000	0	N.D.	ng/mld
45)	Aroclor 1260 (5)	0.000	0	N.D.	ng/mld
46)	Aroclor 1260 (6)	0.000	0	N.D.	ng/mld
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/mld

1/14/20

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R017.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 21:04
Operator : MJB / KAK
Sample : 0A13050-CALB
Misc :
ALS Vial : 65 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:13:19 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:13:13 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

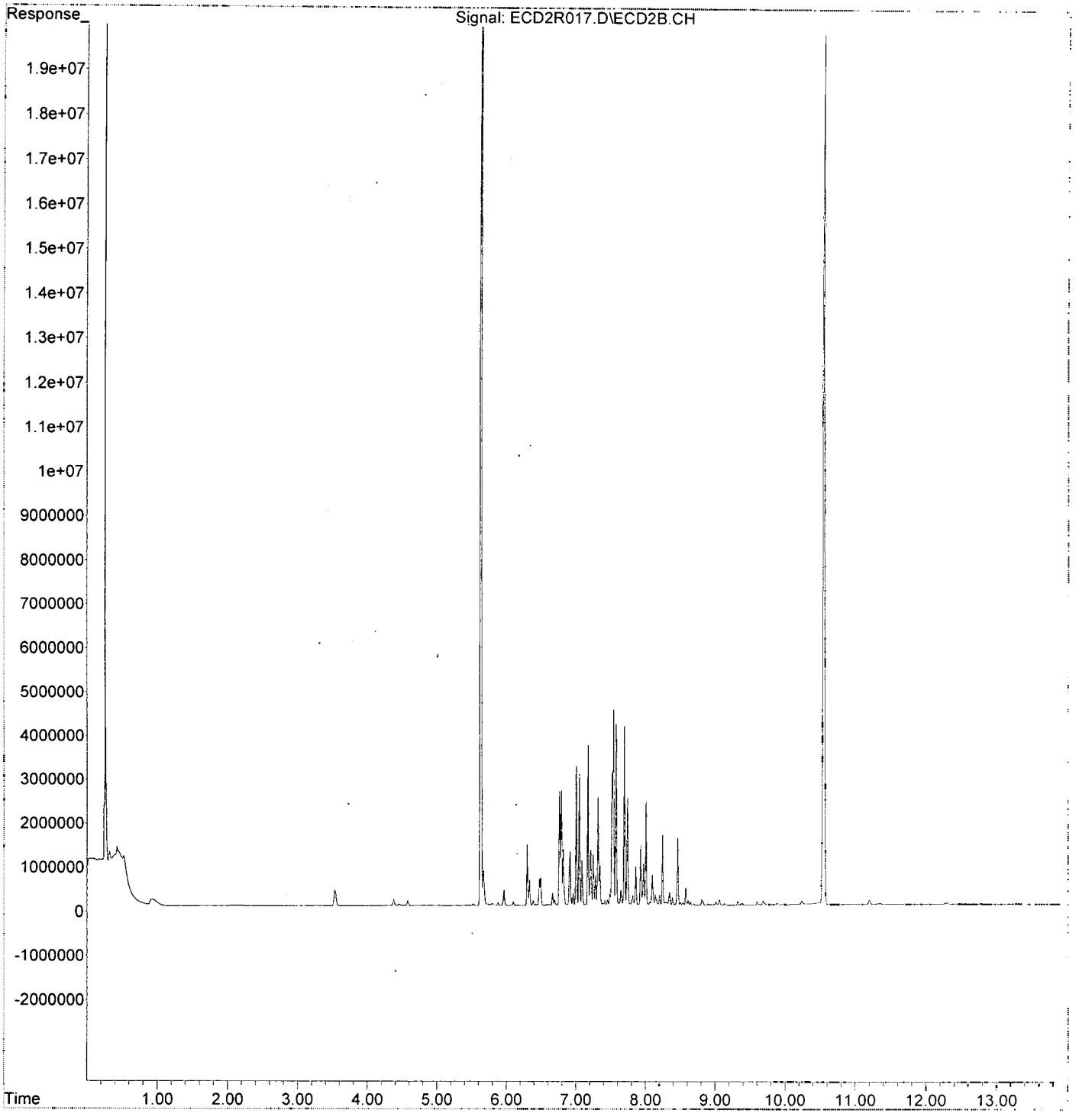
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/mld
55)	Aroclor 1268 (1)	0.000	0	N.D.	ng/mld
56)	Aroclor 1268 (2)	0.000	0	N.D.	ng/mld
57)	Aroclor 1268 (3)	0.000	0	N.D.	ng/mld
58)	Aroclor 1268 (4)	0.000	0	N.D.	ng/mld
59)	Aroclor 1268 (5)	0.000	0	N.D.	ng/mld
60)	Aroclor 1268 (6)	0.000	0	N.D.	ng/mld
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/mld

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R017.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 21:04
Operator : MJB / KAK
Sample : 0A13050-CALB
Misc :
ALS Vial : 65 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:13:19 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:13:13 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R018.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 21:22
Operator : MJB / KAK
Sample : 0A13050-CALC
Misc :
ALS Vial : 66 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:15:06 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:14:59 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	0.000	0	N.D.	ng/mld
62)	S DCBP (S)	0.000	0	N.D.	ng/mld
	Target Compounds				
2)	Aroclor 1016 (1)	0.000	0	N.D.	ng/mld
3)	Aroclor 1016 (2)	0.000	0	N.D.	ng/mld
4)	Aroclor 1016 (3)	0.000	0	N.D.	ng/mld
5)	Aroclor 1016 (4)	0.000	0	N.D.	ng/mld
6)	Aroclor 1016 (5)	0.000	0	N.D.	ng/mld
7)	Aroclor 1016 (6)	0.000	0	N.D.	ng/mld
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/mld
9)	Aroclor 1221 (1)	0.000	0	N.D.	ng/mld
10)	Aroclor 1221 (2)	0.000	0	N.D.	ng/mld
11)	Aroclor 1221 (3)	0.000	0	N.D.	ng/mld
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/mld
13)	Aroclor 1232 (1)	0.000	0	N.D.	ng/mld
14)	Aroclor 1232 (2)	0.000	0	N.D.	ng/mld
15)	Aroclor 1232 (3)	0.000	0	N.D.	ng/mld
16)	Aroclor 1232 (4)	0.000	0	N.D.	ng/mld
17)	Aroclor 1232 (5)	0.000	0	N.D.	ng/mld
18)	Aroclor 1232 (6)	0.000	0	N.D.	ng/mld
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/mld
20)	Aroclor 1242 (1)	0.000	0	N.D.	ng/mld
21)	Aroclor 1242 (2)	0.000	0	N.D.	ng/mld
22)	Aroclor 1242 (3)	0.000	0	N.D.	ng/mld
23)	Aroclor 1242 (4)	0.000	0	N.D.	ng/mld
24)	Aroclor 1242 (5)	0.000	0	N.D.	ng/mld
25)	Aroclor 1242 (6)	0.000	0	N.D.	ng/mld
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/mld
27)	Aroclor 1248 (1)	0.000	0	N.D.	ng/mld
28)	Aroclor 1248 (2)	0.000	0	N.D.	ng/mld
29)	Aroclor 1248 (3)	0.000	0	N.D.	ng/mld
30)	Aroclor 1248 (4)	0.000	0	N.D.	ng/mld
31)	Aroclor 1248 (5)	0.000	0	N.D.	ng/mld
32)	Aroclor 1248 (6)	0.000	0	N.D.	ng/mld
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/mld
34)	Aroclor 1254 (1)	7.515	4236924	327.807	ng/ml
35)	Aroclor 1254 (2)	7.696	6954916	343.494	ng/ml
36)	Aroclor 1254 (3)	8.006	7587169	354.082	ng/ml
37)	Aroclor 1254 (4)	8.246	5458243	330.470	ng/ml
38)	Aroclor 1254 (5)	8.580	5624331	358.394	ng/ml
39)	Aroclor 1254 (6)	8.810	1763591	360.642	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	0.000	0	N.D.	ng/mld
42)	Aroclor 1260 (2)	0.000	0	N.D.	ng/mld
43)	Aroclor 1260 (3)	0.000	0	N.D.	ng/mld
44)	Aroclor 1260 (4)	0.000	0	N.D.	ng/mld
45)	Aroclor 1260 (5)	0.000	0	N.D.	ng/mld
46)	Aroclor 1260 (6)	0.000	0	N.D.	ng/mld
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/mld

1/14/20

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R018.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 21:22
Operator : MJB / KAK
Sample : 0A13050-CALC
Misc :
ALS Vial : 66 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:15:06 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:14:59 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

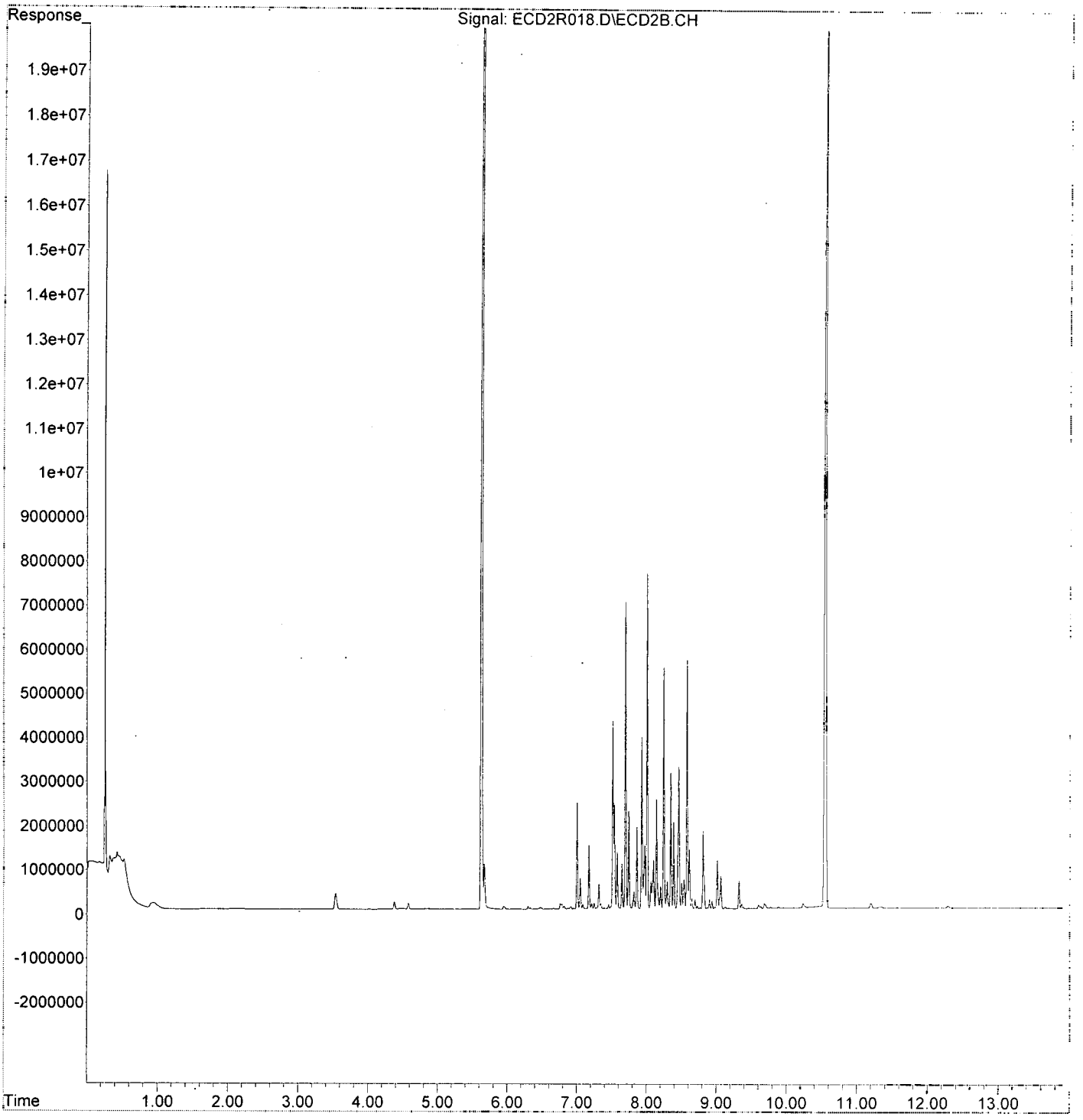
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/mld
55)	Aroclor 1268 (1)	0.000	0	N.D.	ng/mld
56)	Aroclor 1268 (2)	0.000	0	N.D.	ng/mld
57)	Aroclor 1268 (3)	0.000	0	N.D.	ng/mld
58)	Aroclor 1268 (4)	0.000	0	N.D.	ng/mld
59)	Aroclor 1268 (5)	0.000	0	N.D.	ng/mld
60)	Aroclor 1268 (6)	0.000	0	N.D.	ng/mld
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/mld

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R018.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 21:22
Operator : MJB / KAK
Sample : 0A13050-CALC
Misc :
ALS Vial : 66 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:15:06 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:14:59 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R019.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 21:39
Operator : MJB / KAK
Sample : 0A13050-CALD
Misc :
ALS Vial : 67 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:29:52 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:29:46 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

1/14/20

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	0.000	0	N.D.	ng/mld
62) S	DCBP (S)	0.000	0	N.D.	ng/mld
	Target Compounds				
2)	Aroclor 1016 (1)	0.000	0	N.D.	ng/mld
3)	Aroclor 1016 (2)	0.000	0	N.D.	ng/mld
4)	Aroclor 1016 (3)	0.000	0	N.D.	ng/mld
5)	Aroclor 1016 (4)	0.000	0	N.D.	ng/mld
6)	Aroclor 1016 (5)	0.000	0	N.D.	ng/mld
7)	Aroclor 1016 (6)	0.000	0	N.D.	ng/mld
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/mld
9)	Aroclor 1221 (1)	0.000	0	N.D.	ng/mld
10)	Aroclor 1221 (2)	0.000	0	N.D.	ng/mld
11)	Aroclor 1221 (3)	0.000	0	N.D.	ng/mld
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/mld
13)	Aroclor 1232 (1)	0.000	0	N.D.	ng/mld
14)	Aroclor 1232 (2)	0.000	0	N.D.	ng/mld
15)	Aroclor 1232 (3)	0.000	0	N.D.	ng/mld
16)	Aroclor 1232 (4)	0.000	0	N.D.	ng/mld
17)	Aroclor 1232 (5)	0.000	0	N.D.	ng/mld
18)	Aroclor 1232 (6)	0.000	0	N.D.	ng/mld
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/mld
20)	Aroclor 1242 (1)	0.000	0	N.D.	ng/mld
21)	Aroclor 1242 (2)	0.000	0	N.D.	ng/mld
22)	Aroclor 1242 (3)	0.000	0	N.D.	ng/mld
23)	Aroclor 1242 (4)	0.000	0	N.D.	ng/mld
24)	Aroclor 1242 (5)	0.000	0	N.D.	ng/mld
25)	Aroclor 1242 (6)	0.000	0	N.D.	ng/mld
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/mld
27)	Aroclor 1248 (1)	0.000	0	N.D.	ng/mld
28)	Aroclor 1248 (2)	0.000	0	N.D.	ng/mld
29)	Aroclor 1248 (3)	0.000	0	N.D.	ng/mld
30)	Aroclor 1248 (4)	0.000	0	N.D.	ng/mld
31)	Aroclor 1248 (5)	0.000	0	N.D.	ng/mld
32)	Aroclor 1248 (6)	0.000	0	N.D.	ng/mld
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/mld
34)	Aroclor 1254 (1)	0.000	0	N.D.	ng/mld
35)	Aroclor 1254 (2)	0.000	0	N.D.	ng/mld
36)	Aroclor 1254 (3)	0.000	0	N.D.	ng/mld
37)	Aroclor 1254 (4)	0.000	0	N.D.	ng/mld
38)	Aroclor 1254 (5)	0.000	0	N.D.	ng/mld
39)	Aroclor 1254 (6)	0.000	0	N.D.	ng/mld
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/mld
41)	Aroclor 1260 (1)	0.000	0	N.D.	ng/mld
42)	Aroclor 1260 (2)	0.000	0	N.D.	ng/mld
43)	Aroclor 1260 (3)	0.000	0	N.D.	ng/mld
44)	Aroclor 1260 (4)	0.000	0	N.D.	ng/mld
45)	Aroclor 1260 (5)	0.000	0	N.D.	ng/mld
46)	Aroclor 1260 (6)	0.000	0	N.D.	ng/mld
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/mld

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R019.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 21:39
Operator : MJB / KAK
Sample : 0A13050-CALD
Misc :
ALS Vial : 67 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:29:52 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:29:46 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	8.349	5285848	349.281	ng/ml
49)	Aroclor 1262 (2)	8.650	7638753	361.098	ng/ml
50)	Aroclor 1262 (3)	8.828	6402101	366.499	ng/ml
51)	Aroclor 1262 (4)	9.065	13762305	384.322	ng/ml
52)	Aroclor 1262 (5)	9.324	8209776	373.769	ng/ml
53)	Aroclor 1262 (6)	9.888	3600266	371.141	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	0.000	0	N.D.	ng/mld
56)	Aroclor 1268 (2)	0.000	0	N.D.	ng/mld
57)	Aroclor 1268 (3)	0.000	0	N.D.	ng/mld
58)	Aroclor 1268 (4)	0.000	0	N.D.	ng/mld
59)	Aroclor 1268 (5)	0.000	0	N.D.	ng/mld
60)	Aroclor 1268 (6)	0.000	0	N.D.	ng/mld
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/mld

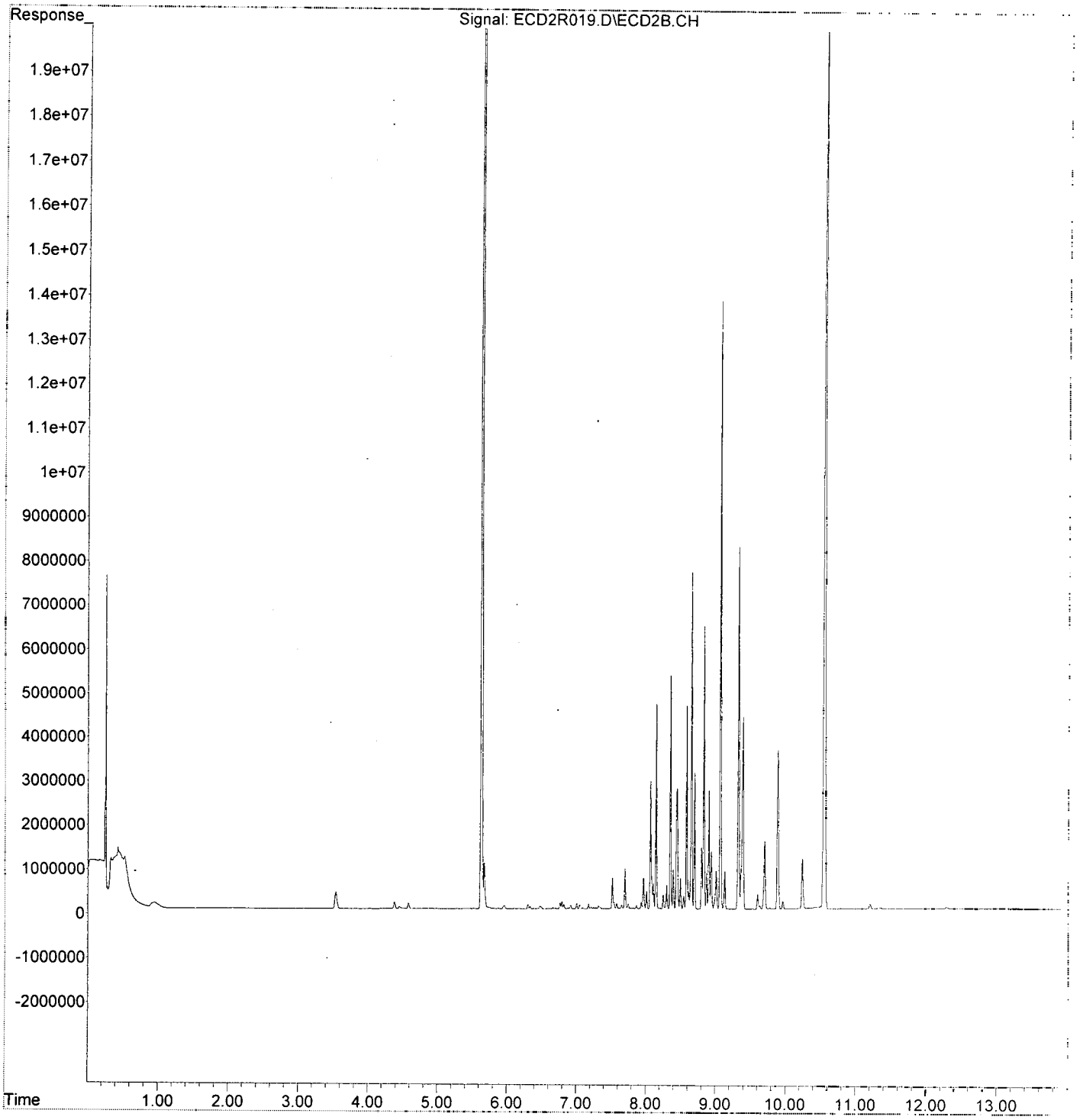
(f)=RT Delta > 1/2 Window (m)=manual int.

1/14/20

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R019.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 21:39
Operator : MJB / KAK
Sample : 0A13050-CALD
Misc :
ALS Vial : 67 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:29:52 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:29:46 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R020.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 21:57
Operator : MJB / KAK
Sample : 0A13050-CALE
Misc :
ALS Vial : 68 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:31:53 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:31:47 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

1/14/20

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	0.000	0	N.D.	ng/mld
62) S	DCBP (S)	0.000	0	N.D.	ng/mld
	Target Compounds				
2)	Aroclor 1016 (1)	0.000	0	N.D.	ng/mld
3)	Aroclor 1016 (2)	0.000	0	N.D.	ng/mld
4)	Aroclor 1016 (3)	0.000	0	N.D.	ng/mld
5)	Aroclor 1016 (4)	0.000	0	N.D.	ng/mld
6)	Aroclor 1016 (5)	0.000	0	N.D.	ng/mld
7)	Aroclor 1016 (6)	0.000	0	N.D.	ng/mld
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/mld
9)	Aroclor 1221 (1)	0.000	0	N.D.	ng/mld
10)	Aroclor 1221 (2)	0.000	0	N.D.	ng/mld
11)	Aroclor 1221 (3)	0.000	0	N.D.	ng/mld
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/mld
13)	Aroclor 1232 (1)	0.000	0	N.D.	ng/mld
14)	Aroclor 1232 (2)	0.000	0	N.D.	ng/mld
15)	Aroclor 1232 (3)	0.000	0	N.D.	ng/mld
16)	Aroclor 1232 (4)	0.000	0	N.D.	ng/mld
17)	Aroclor 1232 (5)	0.000	0	N.D.	ng/mld
18)	Aroclor 1232 (6)	0.000	0	N.D.	ng/mld
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/mld
20)	Aroclor 1242 (1)	0.000	0	N.D.	ng/mld
21)	Aroclor 1242 (2)	0.000	0	N.D.	ng/mld
22)	Aroclor 1242 (3)	0.000	0	N.D.	ng/mld
23)	Aroclor 1242 (4)	0.000	0	N.D.	ng/mld
24)	Aroclor 1242 (5)	0.000	0	N.D.	ng/mld
25)	Aroclor 1242 (6)	0.000	0	N.D.	ng/mld
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/mld
27)	Aroclor 1248 (1)	0.000	0	N.D.	ng/mld
28)	Aroclor 1248 (2)	0.000	0	N.D.	ng/mld
29)	Aroclor 1248 (3)	0.000	0	N.D.	ng/mld
30)	Aroclor 1248 (4)	0.000	0	N.D.	ng/mld
31)	Aroclor 1248 (5)	0.000	0	N.D.	ng/mld
32)	Aroclor 1248 (6)	0.000	0	N.D.	ng/mld
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/mld
34)	Aroclor 1254 (1)	0.000	0	N.D.	ng/mld
35)	Aroclor 1254 (2)	0.000	0	N.D.	ng/mld
36)	Aroclor 1254 (3)	0.000	0	N.D.	ng/mld
37)	Aroclor 1254 (4)	0.000	0	N.D.	ng/mld
38)	Aroclor 1254 (5)	0.000	0	N.D.	ng/mld
39)	Aroclor 1254 (6)	0.000	0	N.D.	ng/mld
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/mld
41)	Aroclor 1260 (1)	0.000	0	N.D.	ng/mld
42)	Aroclor 1260 (2)	0.000	0	N.D.	ng/mld
43)	Aroclor 1260 (3)	0.000	0	N.D.	ng/mld
44)	Aroclor 1260 (4)	0.000	0	N.D.	ng/mld
45)	Aroclor 1260 (5)	0.000	0	N.D.	ng/mld
46)	Aroclor 1260 (6)	0.000	0	N.D.	ng/mld
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/mld

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R020.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 21:57
Operator : MJB / KAK
Sample : 0A13050-CALE
Misc :
ALS Vial : 68 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:31:53 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:31:47 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/mld
55)	Aroclor 1268 (1)	8.867	3116077	333.865	ng/ml
56)	Aroclor 1268 (2)	9.324	13883261	353.838	ng/ml
57)	Aroclor 1268 (3)	9.390	11258146	357.094	ng/ml
58)	Aroclor 1268 (4)	9.601	9626631	355.419	ng/ml
59)	Aroclor 1268 (5)	9.888	3911591	369.151	ng/ml
60)	Aroclor 1268 (6)	10.237	25307518	344.410	ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/ml

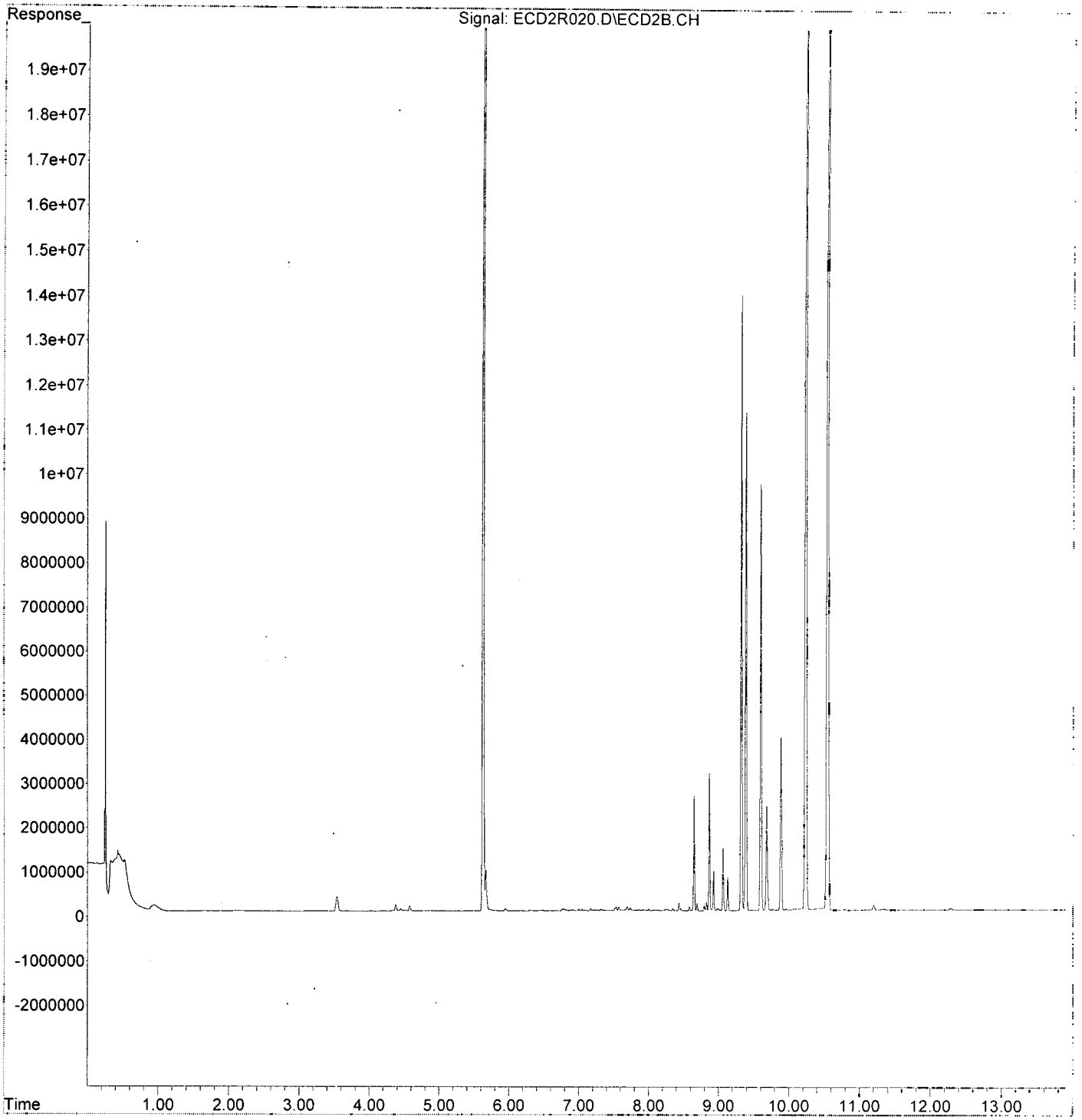
(f)=RT Delta > 1/2 Window (m)=manual int.

1/14/20

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R020.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 21:57
Operator : MJB / KAK
Sample : 0A13050-CALE
Misc :
ALS Vial : 68 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:31:53 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:31:47 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



APEX LABORATORIES, LLC
6700 SW Sandburg St. Tigard OR 97223 phone 503-718-2323

Organochloride Pesticides by EPA 8081B
Benchsheet & Analysis Sequence Data

Batch 0020516
Sequence 0B18034 (A0B0411-01RE1,02RE1,03RE1,04RE1,05RE1)

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0020516 (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	pH Other	pH >11
	0020516-BLK1		QC	02/17/20 06:58	11	10				100					
	0020516-BS1		QC	02/17/20 06:58	10	10	A20A310		100	100					
	A0B0411-01RE1	A	8081B 2,4+4,4-DDx Only (+Add)	02/17/20 06:58	10.08	10				100	PDI-100SC-J-06-07-190926	MDL. Use Custom Spike.			
	0020516-DUP1		QC	02/17/20 06:58	10.1	10		A0B0411-01RE1		100					
	A0B0411-02RE1	A	8081B 2,4+4,4-DDx Only (+Add)	02/17/20 06:58	10.08	10				100	PDI-100SC-J-07-08-190926	MDL. Use Custom Spike.			
	A0B0411-03RE1	A	8081B 2,4+4,4-DDx Only (+Add)	02/17/20 06:58	10.03	10				100	PDI-100SC-J-08-09-190926	MDL. Use Custom Spike.			
	A0B0411-04RE1	A	8081B 2,4+4,4-DDx Only (+Add)	02/17/20 06:58	10.09	10				100	PDI-100SC-J-09-10-190926	MDL. Use Custom Spike.			
	A0B0411-05RE1	A	8081B 2,4+4,4-DDx Only (+Add)	02/17/20 06:58	10.17	10				100	PDI-100SC-J-10-11-190926	MDL. Use Custom Spike.			
	0020516-MS1		QC	02/17/20 06:58	10.14	10	A20A310	A0B0411-05RE1	100	100					
	0020516-MSD1		QC	02/17/20 07:15	10.14	10	A20A310	A0B0411-05RE1	100	100					

Standards/Reagents

Reagent(s)

Std ID	Exp. Date	Description
A19I263	03/18/20	DCM CHEM PROD. 194934
A20A032	06/30/23	n-Hexane Lot# 197051

Analyte Spike(s)

Std ID	Exp. Date	Description
A20A310	03/18/20	2,4 + 4,4 DDx Pesticide Matrix Spike

Surrogate(s)

Std ID	Exp. Date	Description
A20B060	07/17/20	8082 PCB Surrogate Spike

From 0020480 on 2/17/2020 by gwh

Prepared By: Date

AMS 2/19/20

Reviewed By: Date

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0020516 (Sediment)

Prep Method: EPA 3546/3640A (GPC)

#	Lab Number		Analysis	Prepared	Initial (g)	Final (mL) In / Out	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH <2	pH Other	pH >11
	0020516-BLK1		QC	02/17/20 06:58	11	5 / 10				100		1mL 2mL			
	0020516-BS1		QC	02/17/20 06:58	10	5 / 10	A20A310		100	100		1mL 2mL			
	A0B0411-01RE1	A	8081B 2,4+4,4-DDx Only (+Add)	02/17/20 06:58	10.08	5 / 10				100	PDI-100SC-J-06-07-190926	MDL. Use Custom Spike 1mL 2mL			
	0020516-DUP1		QC	02/17/20 06:58	10.1	5 / 10		A0B0411-01RE1		100		1mL 2mL			
	A0B0411-02RE1	A	8081B 2,4+4,4-DDx Only (+Add)	02/17/20 06:58	10.08	5 / 10				100	PDI-100SC-J-07-08-190926	MDL. Use Custom Spike 1mL 2mL			
	A0B0411-03RE1	A	8081B 2,4+4,4-DDx Only (+Add)	02/17/20 06:58	10.03	5 / 10				100	PDI-100SC-J-08-09-190926	MDL. Use Custom Spike 1mL 2mL			
	A0B0411-04RE1	A	8081B 2,4+4,4-DDx Only (+Add)	02/17/20 06:58	10.09	5 / 10				100	PDI-100SC-J-09-10-190926	MDL. Use Custom Spike 1mL 2mL			
	A0B0411-05RE1	A	8081B 2,4+4,4-DDx Only (+Add)	02/17/20 06:58	10.17	5 / 10				100	PDI-100SC-J-10-11-190926	MDL. Use Custom Spike 1mL 2mL			
	0020516-MS1		QC	02/17/20 06:58	10.14	5 / 10	A20A310	A0B0411-05RE1	100	100		1mL 2mL			
	0020516-MSD1		QC	02/17/20 07:15	10.14	5 / 10	A20A310	A0B0411-05RE1	100	100		1mL 2mL			

Standards/Reagents

Reagent(s)

Std ID	Exp. Date	Description
A191263	03/18/20	DCM CHEM PROD. 194934
A20A032	06/30/23	n-Hexane Lot# 197051

Analyte Spike(s)

Std ID	Exp. Date	Description
A20A310	03/18/20	2,4 + 4,4 DDx Pesticide Matrix Spike

Surrogate(s)

Std ID	Exp. Date	Description
A20B060	07/17/20	8082 PCB Surrogate Spike

From 0020480 on 2/17/2020 by gwh

Prepared By: 2/17/20 Date

Reviewed By: cas 02/19/2020 Date

2-18-20

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0020480 (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	pH Other	pH >11
1	0020480-BLK1		QC	02/17/20 06:58	~~10~~ 11	5				100					
2	0020480-BS1		QC	02/17/20 06:58	10	5	A20A310		100	100					
3	A0B0411-01	A	8081B 2,4+4,4-DDx Only (+Add)	02/17/20 06:58	~~10~~ 10.08	5				100	PDI-100SC-J-06-07-190926	MDL. Use Custom Spike. Sand			
4	0020480-DUP1		QC	02/17/20 06:58	~~10~~ 10.10	5		A0B0411-01		100		Sand			
5	A0B0411-02	A	8081B 2,4+4,4-DDx Only (+Add)	02/17/20 06:58	~~10~~ 10.08	5				100	PDI-100SC-J-07-08-190926	MDL. Use Custom Spike. Sand			
6	A0B0411-03	A	8081B 2,4+4,4-DDx Only (+Add)	02/17/20 06:58	~~10~~ 10.03	5				100	PDI-100SC-J-08-09-190926	MDL. Use Custom Spike. Sand			
7	A0B0411-04	A	8081B 2,4+4,4-DDx Only (+Add)	02/17/20 06:58	~~10~~ 10.09	5				100	PDI-100SC-J-09-10-190926	MDL. Use Custom Spike. Sand			
8	A0B0411-05	A	8081B 2,4+4,4-DDx Only (+Add)	02/17/20 06:58	~~10~~ 10.17	5				100	PDI-100SC-J-10-11-190926	MDL. Use Custom Spike. Sand			
9	0020480-MS1		QC	02/17/20 06:58	~~10~~ 10.14	5	A20A310	A0B0411-05	100	100		Sand			
10	0020480-MSD1		QC	02/17/20 07:15	~~10~~ 10.14	5	A20A310	A0B0411-05	100	100		Sand			

Standards/Reagents

Reagent(s)

Std ID	Exp. Date	Description
A13L219	11/30/23	Extractions Balance
A18K311	12/31/20	Glass Wool
A19I263	03/18/20	DCM CHEM PROD. 194934
A20A282	07/19/21	Sodium Sulfate Lot # 194865

Analyte Spike(s)

Std ID	Exp. Date	Description
A20A310	03/18/20	2,4 + 4,4 DDx Pesticide Matrix Spike

JAG

Surrogate(s)

Std ID	Exp. Date	Description
A20B060	07/17/20	8082 PCB Surrogate Spike

JAG

Method 3546 digestion time and temperture achieved.
Initial: CAH

Witness: CAH 02/17/20

JAG 2/17/20
Prepared By: Date

CAH 02/17/20

Reviewed By: Date

ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence: **0B18034** Instrument: **DUALECD8**

Date: **02/18/20 10:43** Calibration: **A0B0404**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0B18034-BKD1	Sediment	QC	QC				A20A019
2	0B18034-CCV1	Sediment	QC	QC				A19K133
3	0B18034-CCB1	Sediment	QC	QC				A20A395
4	0B18034-CCV2	Sediment	QC	QC				A19J408
5	0B18034-CCB2	Sediment	QC	QC				A20A395
6	0020516-BLK1	Sediment	QC	QC		0020516		
7	0020516-BS1	Sediment	QC	QC		0020516		
8	A0B0411-01RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	02/19/20	0020516		
9	0020516-DUP1	Sediment	QC	QC		0020516		
10	A0B0411-02RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	02/21/20	0020516		
11	A0B0411-03RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	02/21/20	0020516		
12	A0B0411-04RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	02/21/20	0020516		
13	A0B0411-05RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	02/21/20	0020516		
14	0020516-MS1	Sediment	QC	QC		0020516		
15	0020516-MSD1	Sediment	QC	QC		0020516		
16	0B18034-CCV3	Sediment	QC	QC				A19K134
17	0B18034-CCV4	Sediment	QC	QC				A19J409
18	0B18034-CCB3	Sediment	QC	QC				A20A395
19	0B18034-IBL1	Sediment	QC	QC				
20	0B18034-IBL2	Sediment	QC	QC				

Data Entered By: AMS 2/19/20

Data Reviewed By: JMM 2/19/20

Comments:

Pesticide Breakdown Check (Validated 8/8/2013)

AMS 2/19/20

Sequence: 0B18034 BKD1
Data File: ECD8-02182003.D

First Column Area Counts		Percent Breakdown	
DDE	21189652		
DDD	63111285		
DDT	2672568746	**3.06**	**PASS**
Endrin	1496584486	**12.35**	**PASS**
Endrin Aldehyde	123869283		
Endrin Ketone	86937883		

Second Column Area Counts		Percent Breakdown	
DDE	33796284		
DDD	72185947		
DDT	2836808704	**3.60**	**PASS**
Endrin	1384191856	**12.59**	**PASS**
Endrin Aldehyde	101966523		
Endrin Ketone	97465811		

Breakdown must be less than 15% to accept sample data.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B18034\
Data File : ECD8-02182003.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Feb 2020 11:26
Operator : MJB
Sample : 0B18034-BKD1
Misc : A20A019
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 19 09:14:42 2020
Quant Method : C:\msdchem\1\methods\PestBreakdownCHK_200201RT3.M
Quant Title : Pesticides
QLast Update : Fri Nov 09 13:28:51 2018
Response via : Initial Calibration
Integrator: ChemStation

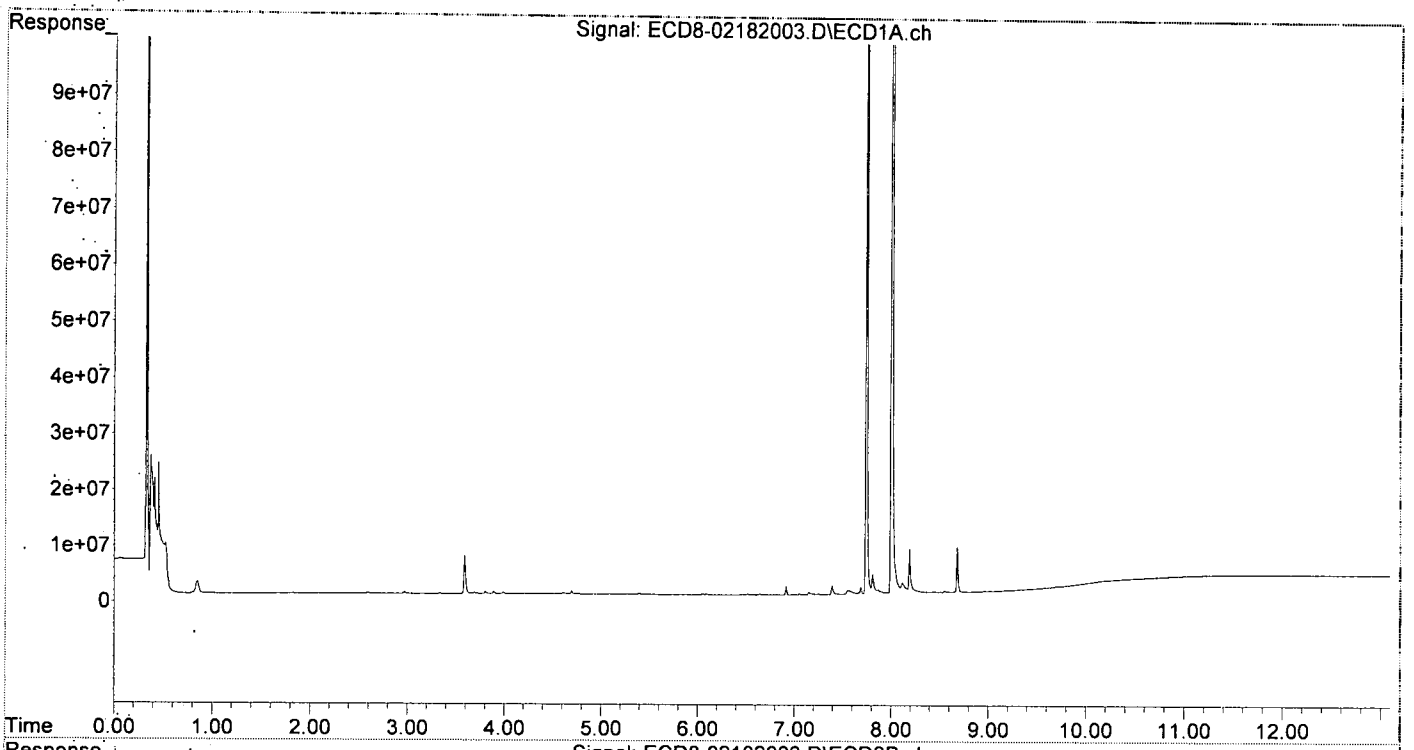
	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	4,4'-DDE	7.389	21189652	NoCal	ng/mL
2)	Endrin	7.742	1496584486	NoCal	ng/mL
3)	4,4'-DDD	7.807	63111285	NoCal	ng/mL
4)	4,4'-DDT	8.000	2672568746	NoCal	ng/mL
5)	Endrin Aldehyde	8.189	123869283	NoCal	ng/mL
6)	Endrin Ketone	8.680	86937883	NoCal	ng/mL
8)	4,4'-DDE [2C]	8.241	33796284	NoCal	ng/mL
9)	Endrin [2C]	8.606	1384191856	NoCal	ng/mL
10)	4,4'-DDD [2C]	8.655	72185947	NoCal	ng/mL
11)	Endrin Aldehyde [2C]	8.992	101966523	NoCal	ng/mL
12)	4,4'-DDT [2C]	8.879	2836808704	NoCal	ng/mL
13)	Endrin Ketone [2C]	9.580	97465811	NoCal	ng/mL

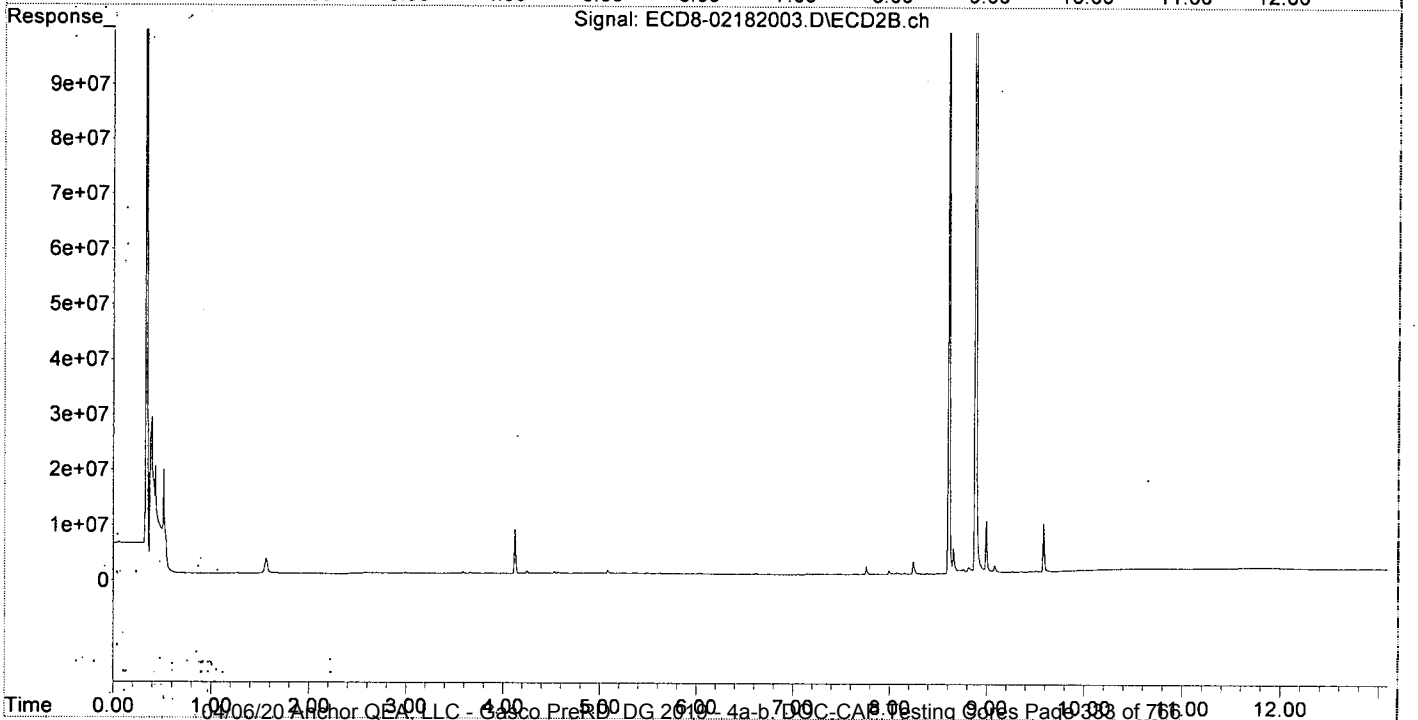
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B18034\
Data File : ECD8-02182003.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Feb 2020 11:26
Operator : MJB
Sample : 0B18034-BKD1
Misc : A20A019
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 19 09:14:42 2020
Quant Method : C:\msdchem\1\methods\PestBreakdownCHK_200201RT3.M
Quant Title : Pesticides
QLast Update : Fri Nov 09 13:28:51 2018
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B18034\
Data File : ECD8-02182004.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Feb 2020 11:43
Operator : MJB
Sample : 0B18034-CCV1
Misc : A19K133, AB 50 ppb
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 19 09:17:09 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

AM 2/19/20

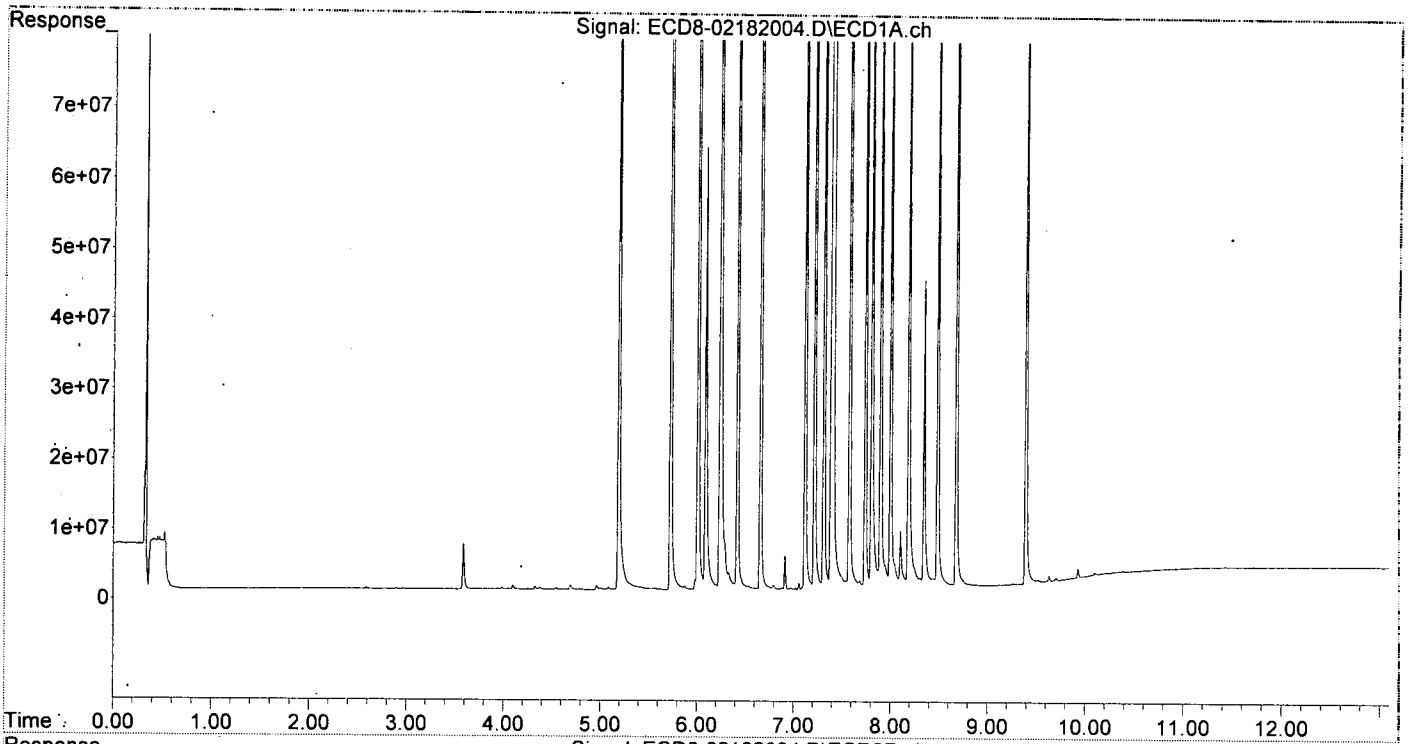
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.192	5.888	142.3E6	155.2E6	40.690	44.982	
22)	S	DCBP (S)	9.395	10.423	115.7E6	105.1E6	44.054	48.986	
		Target Compounds							
2)		a-BHC	5.728	6.491	220.8E6	234.4E6	46.737	50.149	
3)		g-BHC	6.010	6.808	187.5E6	199.1E6	45.045	47.506	
4)		b-BHC	6.090	6.874	63226148	76836388	36.303	44.259	
5)		Heptachlor	6.420	7.180	187.2E6	194.9E6	45.536	46.289	
6)		d-BHC	6.239	7.129	123.3E6	166.9E6	34.340	43.748	#
7)		Aldrin	6.659	7.444	188.7E6	191.5E6	46.705	47.797	
8)		Heptachlo...	7.120	7.882	168.3E6	177.3E6	45.562	49.380	
9)		trans-Chl...	7.216	8.022	171.5E6	170.1E6	45.617	45.746	
10)		cis-Chlor...	7.313	8.129	166.6E6	166.2E6	45.373	47.194	
11)		Endosulfa...	7.406	8.180	172.0E6	161.2E6	49.581	48.763	
12)		4,4'-DDE	7.388	8.239	139.9E6	156.1E6	42.120	45.986	
13)		Dieldrin	7.578	8.379	178.6E6	183.3E6	46.839	48.914	
14)		Endrin	7.742	8.606	149.1E6	139.3E6	45.679	45.184	
15)		4,4'-DDD	7.806	8.654	104.1E6	122.9E6	40.888	46.790	
16)		Endosulfa...	7.899	8.755	128.2E6	136.5E6	42.840	47.614	
17)		4,4'-DDT	8.002	8.880	117.2E6	132.5E6	43.590	48.103	
18)		Endrin Al...	8.188	8.991	109.5E6	119.0E6	41.600	45.014	
19)		Endosulfa...	8.488	9.182	121.3E6	126.6E6	42.370	46.635	
20)		Methoxychlor	8.349	9.360	43917164	58054509	36.396	48.466	#
21)		Endrin Ke...	8.679	9.581	145.5E6	145.6E6	42.110	47.321	
23)		Hexachlor...	2.970	3.587	58242	21576	0.015	0.004	#
24)		Hexachlor...	5.574	6.347	245270	27957	0.073	BelowCal	#
25)		Oxychlordane	7.058	7.798	952288	219805	0.130	0.069	#
26)		2,4'-DDE	7.120f	8.022	168.3E6	170.1E6	72.770	74.836	
27)		trans-Non...	7.313	8.082	166.6E6	974624	45.448	0.270	#
28)		2,4'-DDD	7.549f	8.379	1100502	183.3E6	0.568	95.745	#
29)		2,4'-DDT	7.687	8.606	1097907	139.3E6	0.459	58.811	#
30)		cis-Nonac...	7.806f	8.654	104.1E6	122.9E6	25.571	30.831	
31)		Mirex	8.437	9.581	1155086	145.6E6	0.270	67.661	#
32)		Chlordane...	7.216	8.022	171.5E6	170.1E6	428.353	391.514	
33)		Chlordane...	7.313	8.129	166.6E6	166.2E6	342.612	457.282	#
34)		Chlordane...	7.899f	8.811	128.2E6	1626690	984.343	13.698	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.313	8.379	166.6E6	183.3E6	10178.849	6219.539	#
37)		Toxaphene...	7.578f	8.755f	178.6E6	136.5E6	5685.614	3395.232	#
38)		Toxaphene...	7.899	8.755	128.2E6	136.5E6	1852.900	2109.093	
39)		Toxaphene...	8.188f	8.811	109.5E6	1626690	1653.041	12.720	#
40)		Toxaphene...	8.349f	8.991	43917164	119.0E6	810.245	2075.794	#
41)		Toxaphene...	8.437	9.360	1155086	58054509	15.188	878.897	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

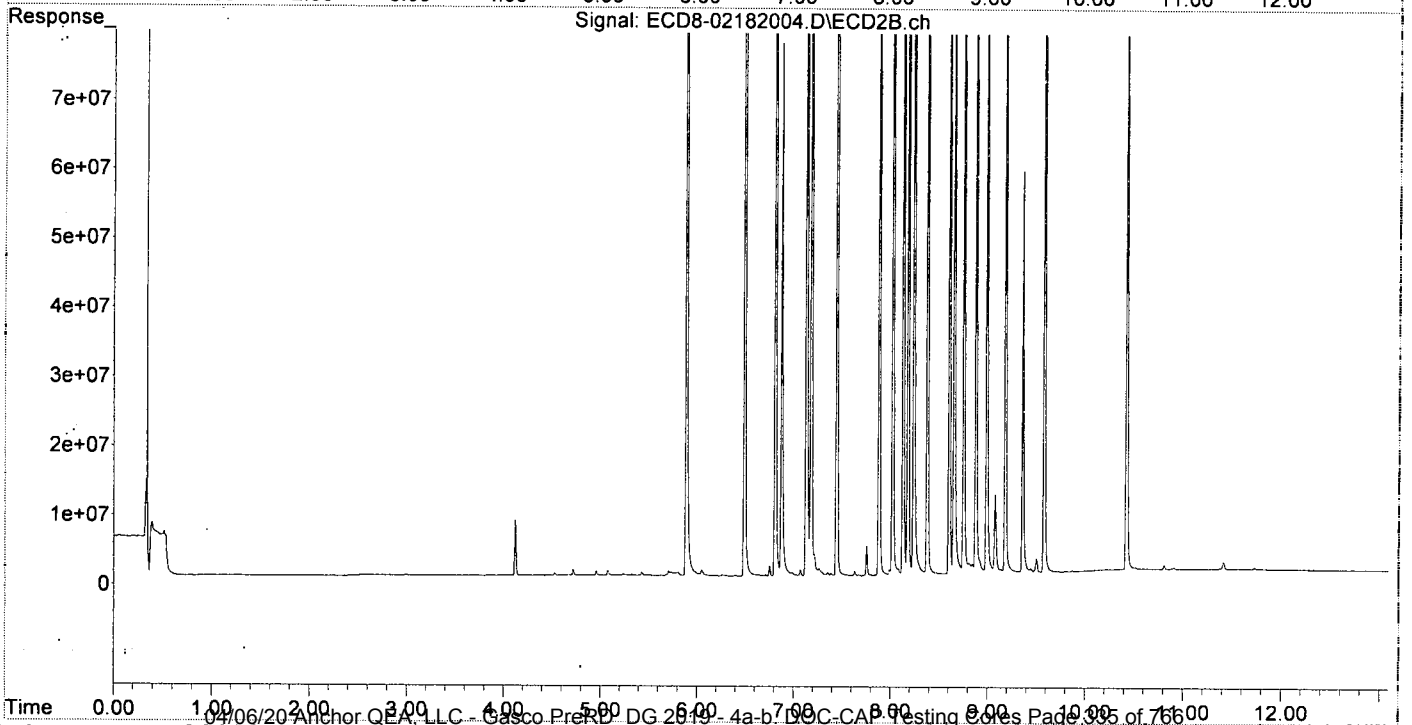
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B18034\
Data File : ECD8-02182004.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Feb 2020 11:43
Operator : MJB
Sample : 0B18034-CCV1
Misc : A19K133, AB 50 ppb
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 19 09:17:09 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B18034\
Data File : ECD8-02182005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Feb 2020 12:00
Operator : MJB
Sample : 0B18034-CCB1
Misc : A20A395
ALS Vial : 5 Sample Multiplier: 1

AMS 2/19/20

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 19 09:17:13 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

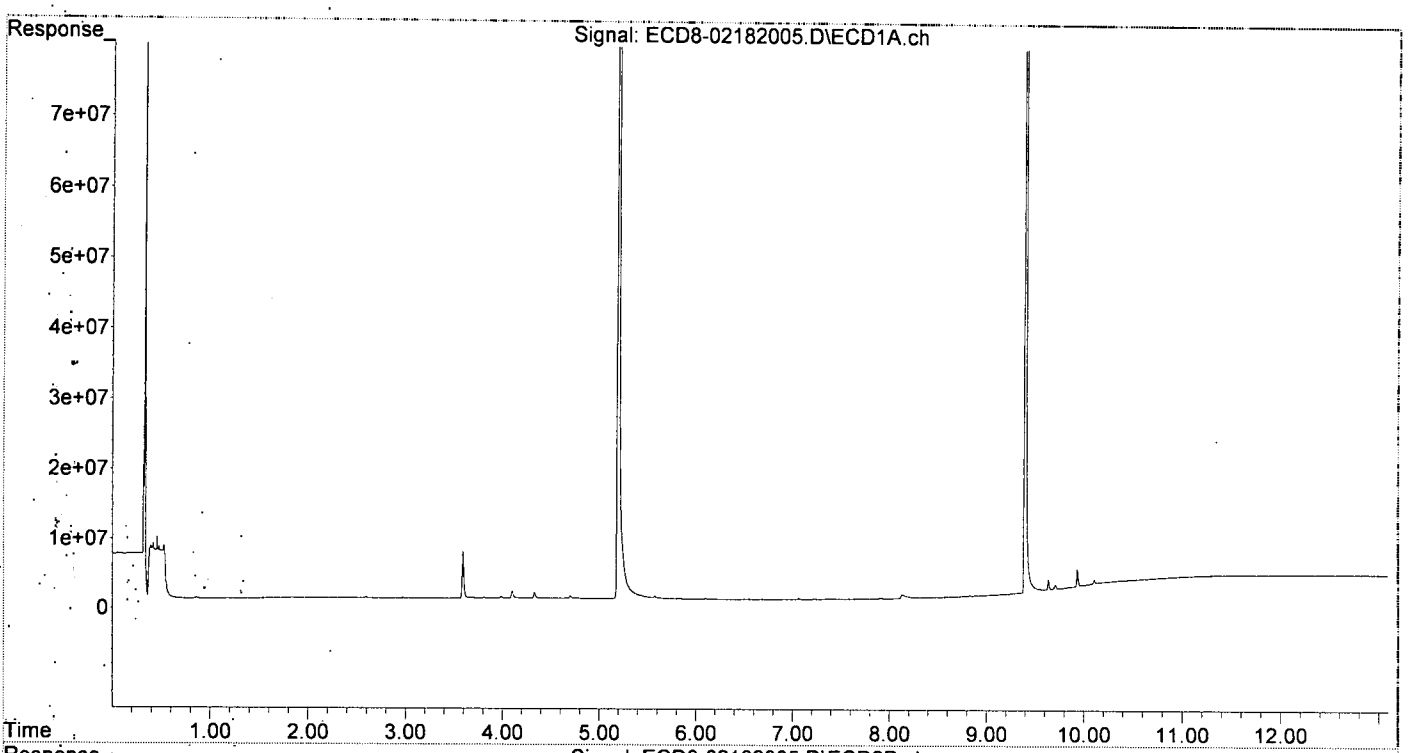
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.191	5.889	280.4E6	319.8E6	80.211	92.722	
22)	S	DCBP (S)	9.395	10.425	232.5E6	215.5E6	87.178	96.341	
		Target Compounds							
2)		a-BHC	5.757f	6.464f	36466	42640	0.008	0.086	#
3)		g-BHC	0.000	0.000	0	0	N.D.	N.D.	
4)		b-BHC	6.102	6.881	101245	13277	0.058	0.008	#
5)		Heptachlor	0.000	7.166	0	15285	N.D.	0.004	#
6)		d-BHC	0.000	7.143	0	24999	N.D.	0.105	#
7)		Aldrin	6.675	7.481f	11937	31865	0.003	0.021	#
8)		Heptachlo...	7.124	7.883	12271	7895	0.003	0.002	#
9)		trans-Chl...	7.222	8.031	39648	52721	0.011	0.014	#
10)		cis-Chlor...	7.316	0.000	47191	0	0.013	N.D.	#
11)		Endosulfa...	7.404	8.178	57765	26249	0.017	0.008	#
12)		4,4'-DDE	7.392	8.232	68490	21293	0.021	0.095	#
13)		Dieldrin	7.581	8.406	11825	11145	0.003	0.035	#
14)		Endrin	7.716f	8.620	9801	37300	0.003	0.005	#
15)		4,4'-DDD	7.817	8.665	8051	28283	0.003	0.055	#
16)		Endosulfa...	7.910	8.741f	178335	195214	0.060	0.044	#
17)		4,4'-DDT	8.009	0.000	12936	0	0.005	N.D.	#
18)		Endrin Al...	0.000	8.996	0	81593	N.D.	0.031	#
19)		Endosulfa...	8.492	9.186	36261	42799	0.013	BelowCal	#
20)		Methoxychlor	8.354	9.360	37265	34553	0.031	BelowCal	#
21)		Endrin Ke...	8.687	9.588	30500	105546	0.009	BelowCal	#
23)		Hexachlor...	2.974	3.608	46803	55587	0.012	0.011	
24)		Hexachlor...	5.574	6.346	402296	62410	0.120	BelowCal	#
25)		Oxychlordane	7.066	7.840f	154285	11437	BelowCal	0.004	
26)		2,4'-DDE	7.124	8.031	12271	52721	0.005	0.023	#
27)		trans-Non...	7.316	8.077	47191	127607	0.013	0.035	#
28)		2,4'-DDD	0.000	8.406	0	11145	N.D.	0.006	#
29)		2,4'-DDT	7.690	8.620	6977	37300	0.003	BelowCal	#
30)		cis-Nonac...	7.817f	8.665	8051	28283	0.002	0.007	#
31)		Mirex	8.449	9.588	42809	105546	8199.111	BelowCal	#
32)		Chlordane...	7.222	8.031	39648	52721	0.099	0.121	
33)		Chlordane...	7.316	8.178f	47191	26249	0.097	0.072	#
34)		Chlordane...	7.871	8.818	7420	814012	0.057	6.855	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.316	8.406f	47191	11145	2.883	0.378	#
37)		Toxaphene...	7.581	8.741f	11825	195214	0.376	4.857	#
38)		Toxaphene...	7.910	8.741	178335	195214	96751.403	3.017	#
39)		Toxaphene...	8.137	8.818	531685	814012	1.254	4.279	#
40)		Toxaphene...	8.373	8.996	22287	81593	0.411	1.423	#
41)		Toxaphene...	8.449	9.360	42809	34553	0.563	0.523	
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

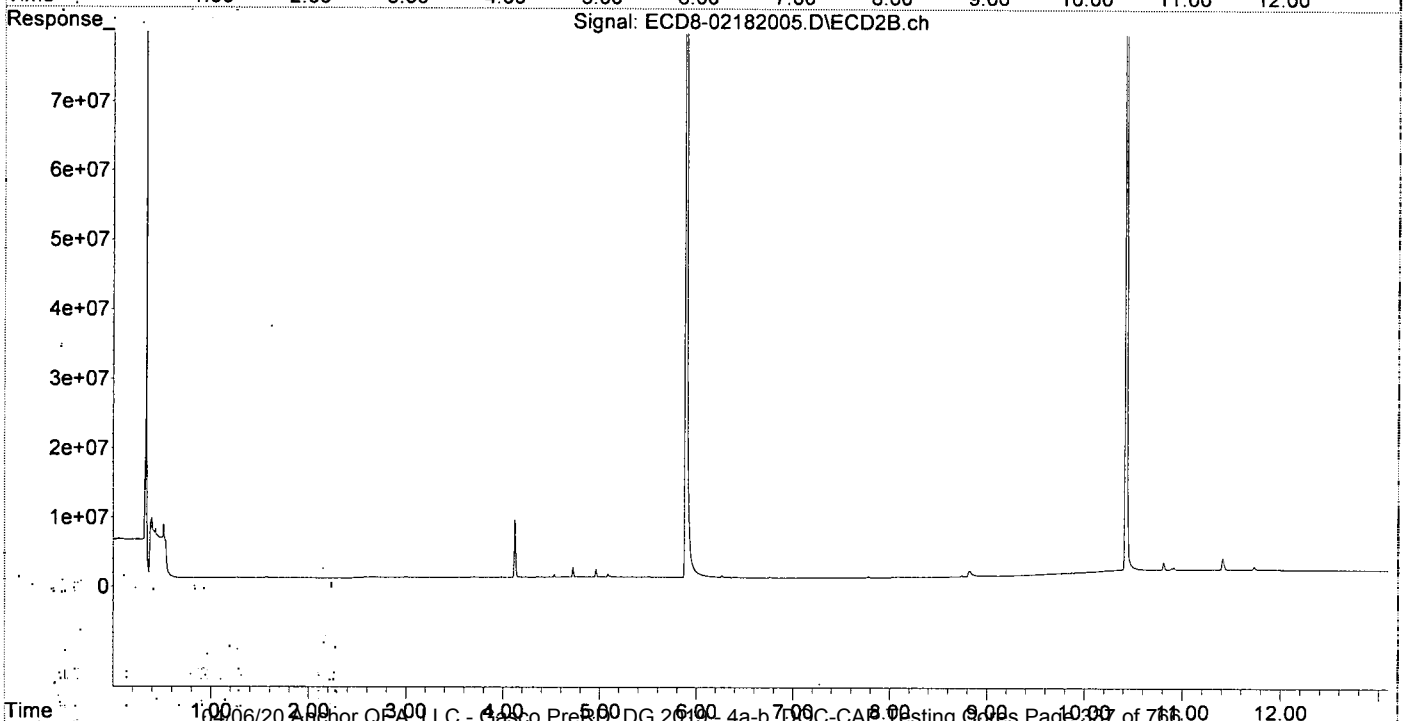
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B18034\
Data File : ECD8-02182005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Feb 2020 12:00
Operator : MJB
Sample : 0B18034-CCB1
Misc : A20A395
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 19 09:17:13 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B18034\
Data File : ECD8-02182006.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Feb 2020 12:42
Operator : MJB
Sample : 0B18034-CCV2
Misc : A19J408, 9-42 50 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 19 09:17:17 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

AMS 2/19/20

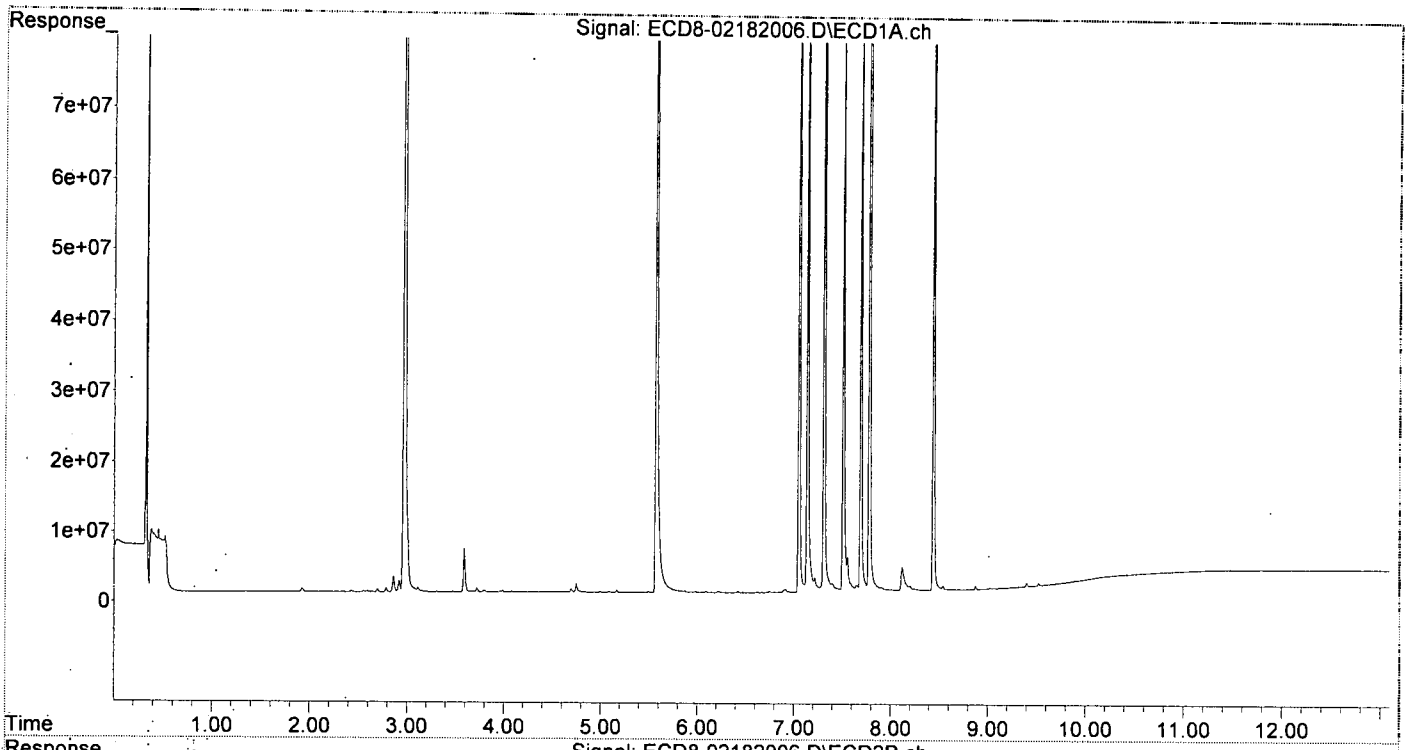
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.167f	5.893	346786	67769	0.099	0.020	#
22)	S	DCBP (S)	9.399	10.426	638647	893135	BelowCal	BelowCal	
		Target Compounds							
2)		a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)		g-BHC	6.050f	6.815	77900	15947	0.019	0.046	#
4)		b-BHC	6.091	6.871	182338	70433	0.105	0.041	#
5)		Heptachlor	6.420	7.177	252902	240184	0.062	0.057	
6)		d-BHC	6.219f	7.131	210543	79653	0.167	0.120	#
7)		Aldrin	6.663	7.437	39619	56471	0.010	0.027	#
8)		Heptachlo...	7.136	7.879	102.8E6	657554	27.827	0.183	#
9)		trans-Chl...	7.216	8.016	2117678	111.2E6	0.563	29.895	#
10)		cis-Chlor...	7.308	8.173f	166.8E6	503641	45.409	0.143	#
11)		Endosulfa...	7.396	8.192	1241223	724941	0.358	0.219	#
12)		4,4'-DDE	7.396	8.263	1241223	185199	0.374	0.148	#
13)		Dieldrin	7.553f	8.390	4938002	93155980	1.295	25.687	#
14)		Endrin	7.776f	8.612	192.2E6	110.2E6	58.876	36.244	#
15)		4,4'-DDD	7.776f	8.650	192.2E6	194.2E6	75.502	70.022	
16)		Endosulfa...	7.904	8.738f	605179	567123	0.202	0.185	
17)		4,4'-DDT	8.006	8.920f	202255	232341	0.075	0.069	
18)		Endrin Al...	8.200	8.989	731921	119797	0.278	0.045	#
19)		Endosulfa...	0.000	9.183	0	23200	N.D.	BelowCal	
20)		Methoxychlor	0.000	9.368	0	49277	N.D.	BelowCal	
21)		Endrin Ke...	8.687	9.571	44195	112.1E6	0.013	37.050	#
23)		Hexachlor...	2.969	3.579	173.1E6	222.6E6	44.401	45.977	
24)		Hexachlor...	5.571	6.351	151.2E6	155.4E6	44.974	49.699	
25)		Oxychlordane	7.049	7.810	147.6E6	157.0E6	47.545	49.083	
26)		2,4'-DDE	7.136	8.016	102.8E6	111.2E6	44.445	48.904	
27)		trans-Non...	7.308	8.085	166.8E6	174.7E6	45.485	48.402	
28)		2,4'-DDD	7.507	8.390	82088579	93155980	42.384	48.664	
29)		2,4'-DDT	7.688	8.612	99959125	110.2E6	41.769	47.452	
30)		cis-Nonac...	7.776	8.650	192.2E6	194.2E6	47.218	48.726	
31)		Mirex	8.438	9.571	115.8E6	112.1E6	47.888	52.475	
32)		Chlordane...	7.216	8.016	2117678	111.2E6	5.288	255.848	#
33)		Chlordane...	7.308	8.173f	166.8E6	503641	342.886	1.385	#
34)		Chlordane...	7.904f	8.807	605179	4946865	4.648	41.656	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.308	8.357	166.8E6	125842	10186.987	4.270	#
37)		Toxaphene...	0.000	8.738f	0	567123	N.D.	14.111	#
38)		Toxaphene...	7.904	8.738	605179	567123	5.437	8.766	#
39)		Toxaphene...	8.117f	8.807	3327252	4946865	44.334	47.096	
40)		Toxaphene...	0.000	8.989	0	119797	N.D.	2.090	#
41)		Toxaphene...	8.438	9.368	115.8E6	49277	1522.675	0.746	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

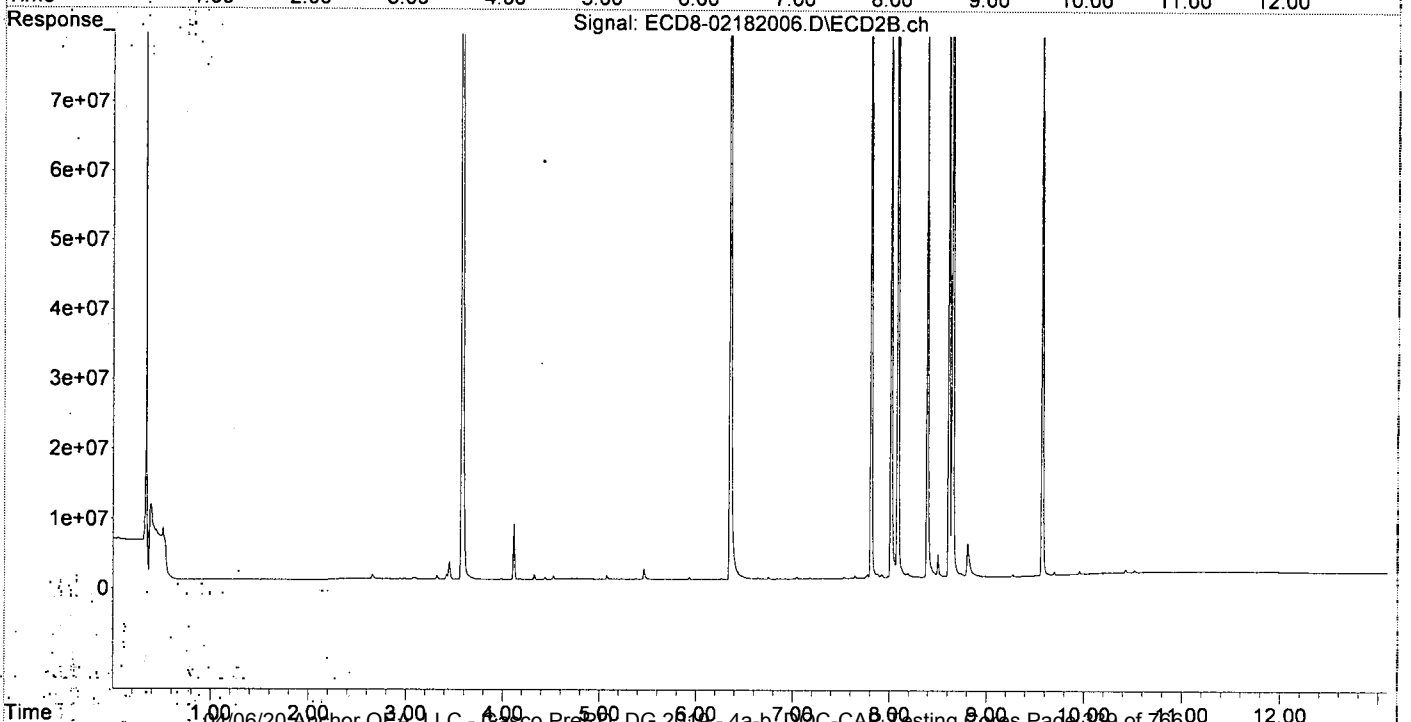
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B18034\
Data File : ECD8-02182006.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Feb 2020 12:42
Operator : MJB
Sample : 0B18034-CCV2
Misc : A19J408, 9-42 50 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 19 09:17:17 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B18034\
Data File : ECD8-02182007.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Feb 2020 12:59
Operator : MJB
Sample : 0B18034-CCB2
Misc : A20A395
ALS Vial : 5 Sample Multiplier: 1

AMS 2/19/20

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 19 09:17:21 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

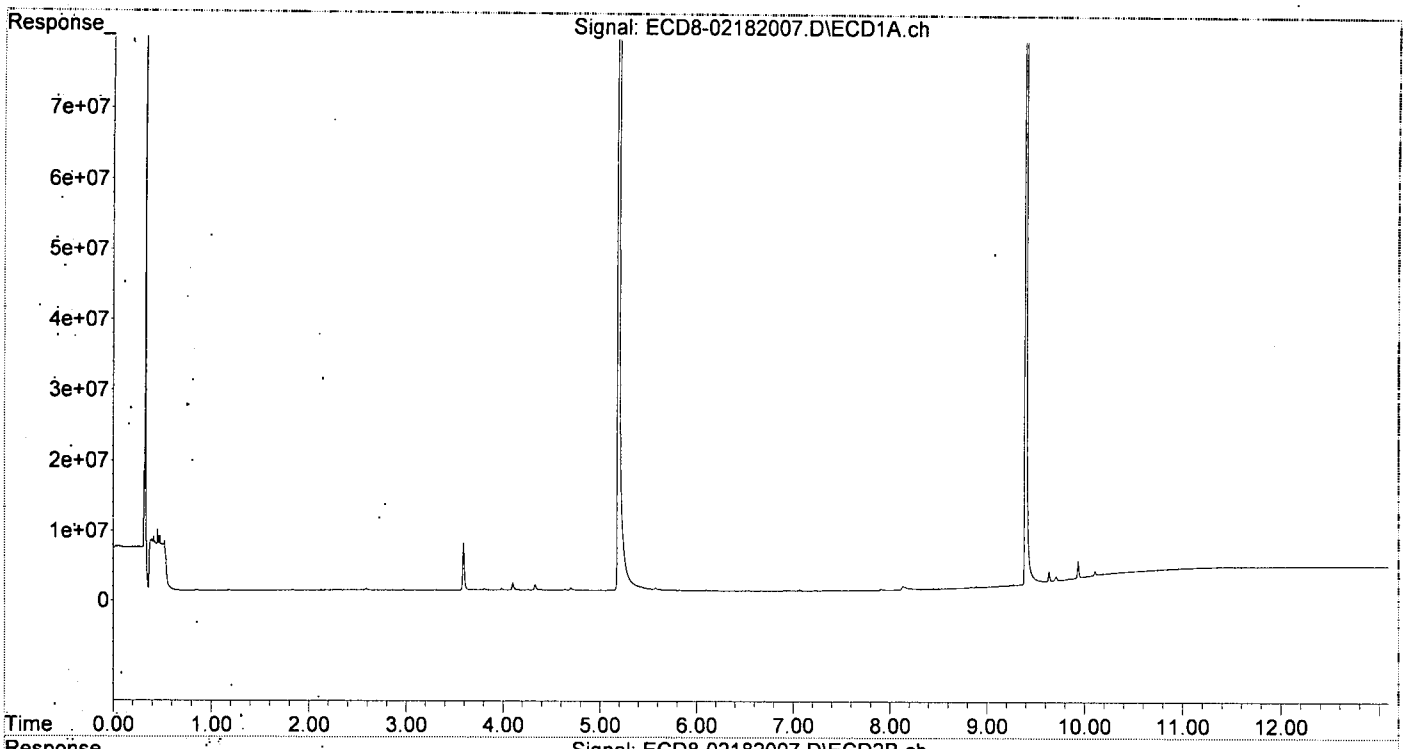
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.191	5.887	279.9E6	311.5E6	80.055	90.300	
22)	S	DCBP (S)	9.396	10.425	228.5E6	212.1E6	85.732	94.957	
		Target Compounds							
2)		a-BHC	5.760f	6.465f	60480	49537	0.013	0.087	#
3)		g-BHC	0.000	0.000	0	0	N.D.	N.D.	
4)		b-BHC	6.100	6.881	96266	13552	0.055	0.008	#
5)		Heptachlor	0.000	7.187	0	16121	N.D.	0.004	#
6)		d-BHC	0.000	7.138	0	21435	N.D.	0.104	#
7)		Aldrin	6.669	7.479f	14894	33657	0.004	0.021	#
8)		Heptachlo...	7.100f	7.887	14701	8713	0.004	0.002	#
9)		trans-Chl...	7.224	8.030	41697	57240	0.011	0.015	#
10)		cis-Chlor...	7.314	8.152	41323	26293	0.011	0.007	#
11)		Endosulfa...	7.378f	8.188	20111	22532	0.006	0.007	
12)		4,4'-DDE	7.378	8.230	20111	32765	0.006	0.099	#
13)		Dieldrin	0.000	8.381	0	9693	N.D.	0.035	#
14)		Endrin	7.788f	8.617	10512	50574	0.003	0.010	#
15)		4,4'-DDD	7.788f	8.665	10512	30095	0.004	0.056	#
16)		Endosulfa...	7.907	8.780	177543	21483	0.059	BelowCal	#
17)		4,4'-DDT	0.000	0.000	0	0	N.D.	N.D.	
18)		Endrin Al...	8.191	8.997	217244	57269	0.083	0.022	#
19)		Endosulfa...	8.493	9.184	19476	28989	0.007	BelowCal	#
20)		Methoxychlor	8.354	9.359	27925	49964	0.023	BelowCal	#
21)		Endrin Ke...	8.691	9.603	17988	146984	0.005	BelowCal	#
23)		Hexachlor...	2.972	3.607	47283	54477	0.012	0.011	
24)		Hexachlor...	5.574	6.344	428752	78279	0.128	BelowCal	#
25)		Oxychlordane	7.063	7.818	154757	20298	BelowCal	0.006	
26)		2,4'-DDE	0.000	8.030	0	57240	N.D.	0.025	#
27)		trans-Non...	7.314	8.081	41323	126695	0.011	0.035	#
28)		2,4'-DDD	0.000	8.397	0	12311	N.D.	0.006	#
29)		2,4'-DDT	7.699	8.617	10200	50574	0.004	BelowCal	#
30)		cis-Nonac...	7.788	8.665	10512	30095	0.003	0.008	#
31)		Mirex	8.450	9.603f	46302	146984	8199.110	BelowCal	#
32)		Chlordane...	7.234	8.030	30819	57240	0.077	0.132	#
33)		Chlordane...	7.333	8.152	5924	26293	0.012	0.072	#
34)		Chlordane...	7.907f	8.820	177543	785153	1.364	6.612	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.314	8.361	41323	7987	2.524	0.271	#
37)		Toxaphene...	0.000	8.741f	0	202755	N.D.	5.045	#
38)		Toxaphene...	7.907	8.741	177543	202755	96751.415	3.134	#
39)		Toxaphene...	8.153	8.820	413538	785153	BelowCal	3.979	
40)		Toxaphene...	8.378	8.997	21477	57269	0.396	0.999	#
41)		Toxaphene...	8.439	9.359	29821	49964	0.392	0.756	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

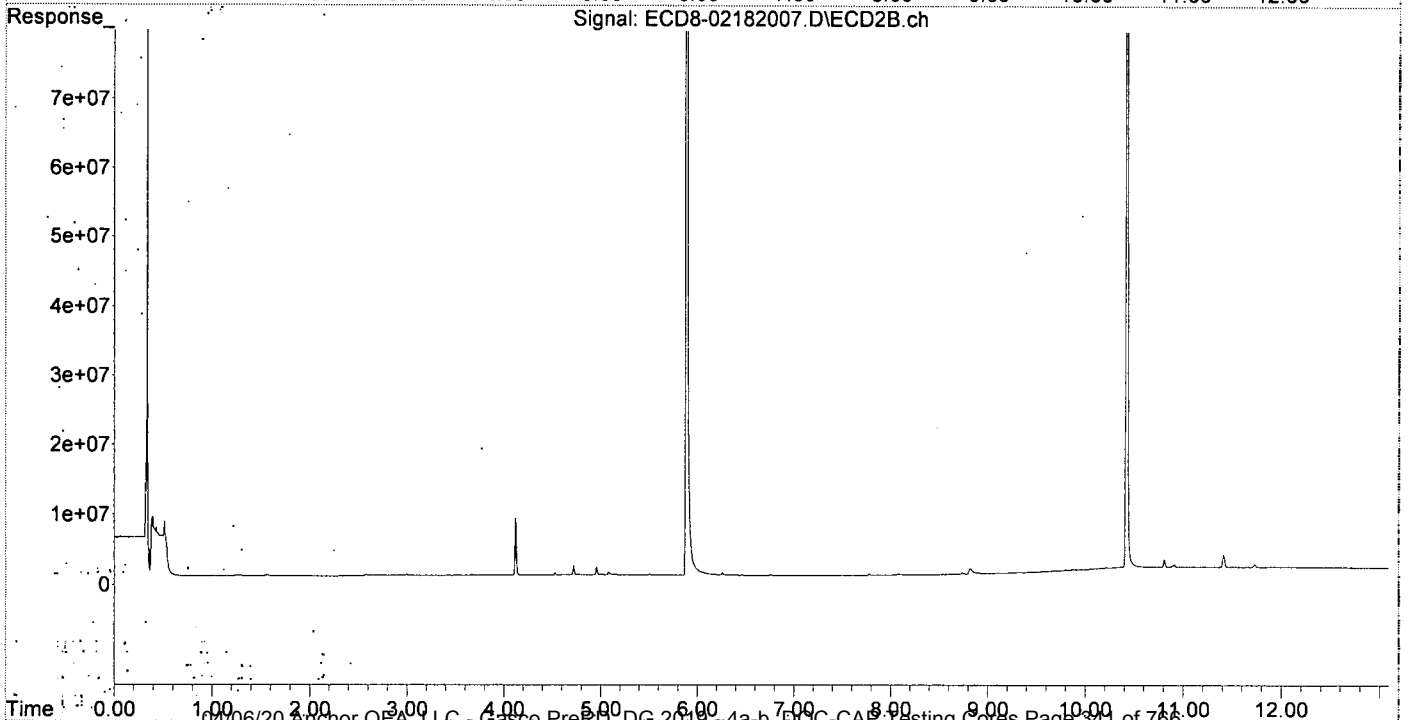
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B18034\
Data File : ECD8-02182007.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Feb 2020 12:59
Operator : MJB
Sample : 0B18034-CCB2
Misc : A20A395
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 19 09:17:21 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B18034\
Data File : ECD8-02182008.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Feb 2020 13:16
Operator : MJB
Sample : 0020516-BLK1
Misc : 1x, 8081B 2,4+4,4-DDX Only, GPC
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 19 09:17:25 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

AMS 2/19/20

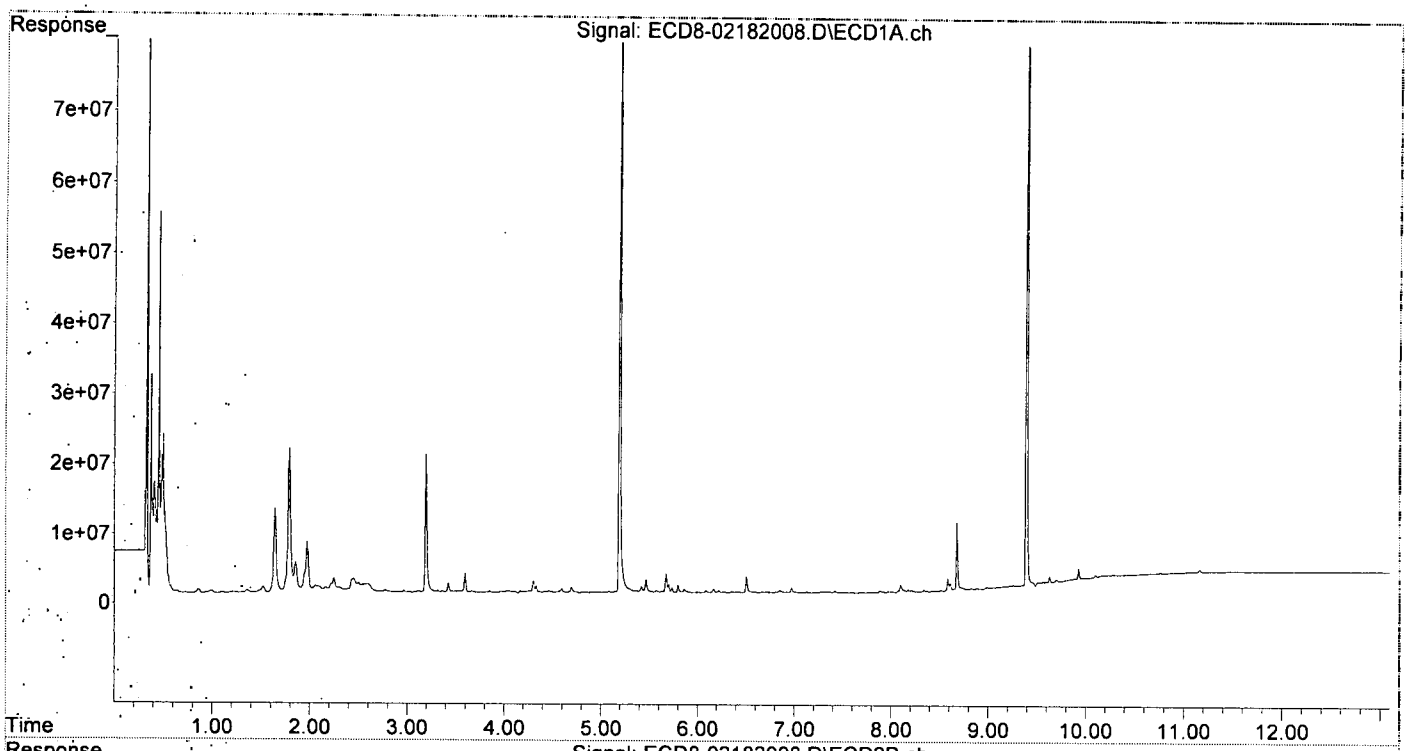
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.190	5.887	99964016	105.8E6	28.593	30.659	
22)	S	DCBP (S)	9.391	10.422	134.3E6	113.1E6	51.035	52.561	
		Target Compounds							
2)		a-BHC	5.735	6.530f	756763	55553	0.160	0.089	#
3)		g-BHC	6.013	0.000	100480	0	0.024	N.D.	#
4)		b-BHC	6.088	6.882	344002	103793	0.198	0.060	#
5)		Heptachlor	6.433	7.180	134160	65446	0.033	0.016	#
6)		d-BHC	6.265f	7.152	163725	121320	0.154	0.132	
7)		Aldrin	6.669	7.461	198450	156356	0.049	0.054	
8)		Heptachlo...	7.130	7.864f	141628	731425	0.038	0.204	#
9)		trans-Chl...	7.222	8.017	77710	120813	0.021	0.032	#
10)		cis-Chlor...	7.310	8.158f	194702	391056	0.053	0.111	#
11)		Endosulfa...	7.419	8.158f	330022	391056	0.095	0.118	
12)		4,4'-DDE	7.377	8.250	131288	393316	0.040	0.215	#
13)		Dieldrin	7.576	8.385	42137	24337	0.011	0.039	#
14)		Endrin	7.723f	8.610	20547	73858	0.006	0.018	#
15)		4,4'-DDD	7.812	8.661	55575	28546	0.022	0.055	#
16)		Endosulfa...	7.929f	8.763	78434	56659	0.026	BelowCal	#
17)		4,4'-DDT	8.007	8.872	115278	386910	0.043	0.132	#
18)		Endrin Al...	8.209	9.032f	266976	124627	0.101	0.047	#
19)		Endosulfa...	8.489	9.171	42033	192884	0.015	BelowCal	#
20)		Methoxychlor	8.365	9.356	53398	658234	0.044	0.247	#
21)		Endrin Ke...	8.677	9.584	9800198	999009	2.835	0.131	#
23)		Hexachlor...	2.967	3.561f	398732	24757013	0.102	5.113	#
24)		Hexachlor...	5.573	6.371	403466	1217056	0.120	0.369	#
25)		Oxychlordane	7.040	7.828	57474	138498	BelowCal	0.043	
26)		2,4'-DDE	7.130	8.017	141628	120813	0.061	0.053	
27)		trans-Non...	7.310	8.066f	194702	239561	0.053	0.066	
28)		2,4'-DDD	7.525	8.385	107538	24337	0.056	0.013	#
29)		2,4'-DDT	7.684	8.610	63514	73858	0.027	BelowCal	#
30)		cis-Nonac...	7.812f	8.656	55575	30123	0.014	0.008	#
31)		Mirex	8.445	9.584	102496	999009	8199.087	0.230	#
32)		Chlordane...	7.222	8.045	77710	339072	0.194	0.780	#
33)		Chlordane...	7.310	8.158	194702	391056	0.400	1.076	#
34)		Chlordane...	7.885	8.796	277463	1528216	2.131	12.869	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.310	8.377	194702	23998	11.894	0.814	#
37)		Toxaphene...	7.602	8.719	50565	162560	1.610	4.045	#
38)		Toxaphene...	7.929f	8.763	78434	56659	96752.822	0.876	#
39)		Toxaphene...	8.178f	8.796f	378650	1528216	BelowCal	11.698	
40)		Toxaphene...	8.365	8.963f	53398	335028	0.985	5.844	#
41)		Toxaphene...	8.445	9.390	102496	2275191	1.348	34.444	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

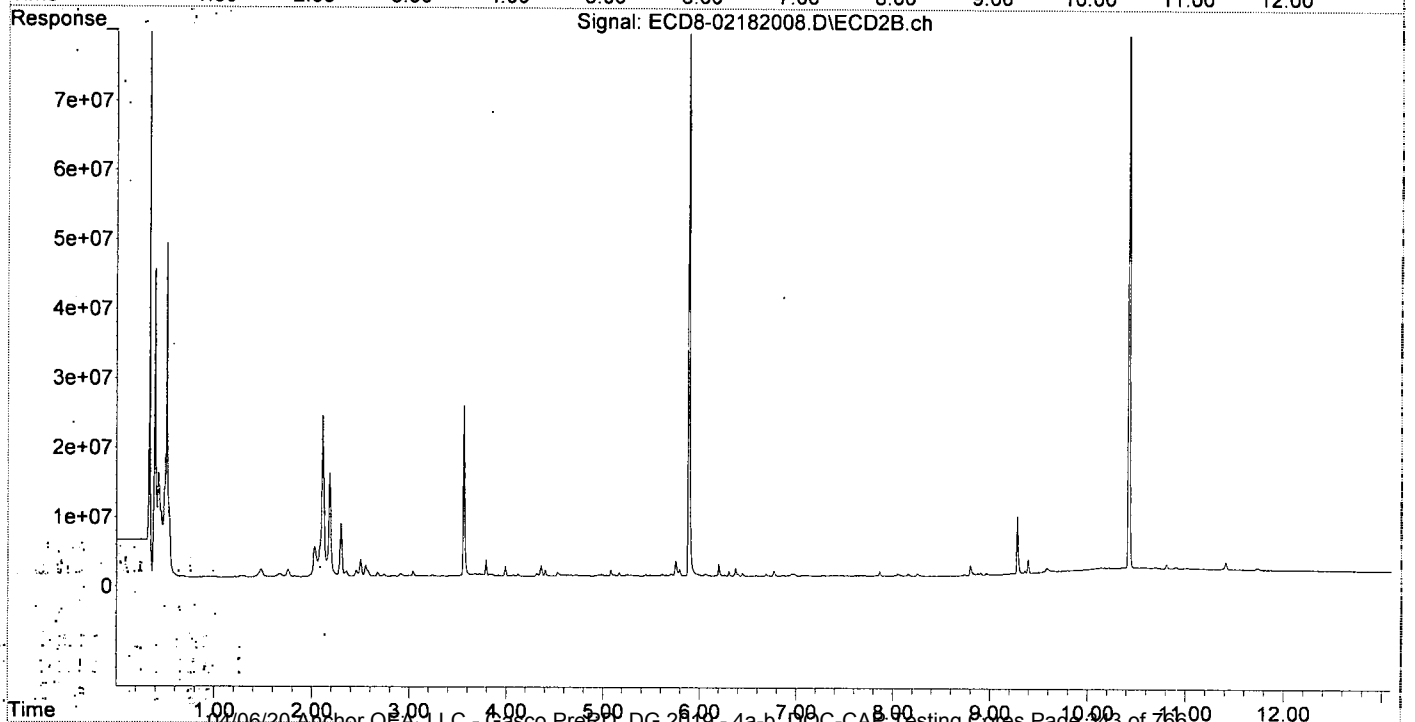
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B18034\
Data File : ECD8-02182008.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Feb 2020 13:16
Operator : MJB
Sample : 0020516-BLK1
Misc : 1x, 8081B 2,4+4,4-DDX Only, GPC
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 19 09:17:25 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B18034\
Data File : ECD8-02182009.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Feb 2020 13:33
Operator : MJB
Sample : 0020516-BS1
Misc : 1x, 8081B 2,4+4,4-DDX Only, GPC
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 19 09:17:29 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

AMS 2/19/20

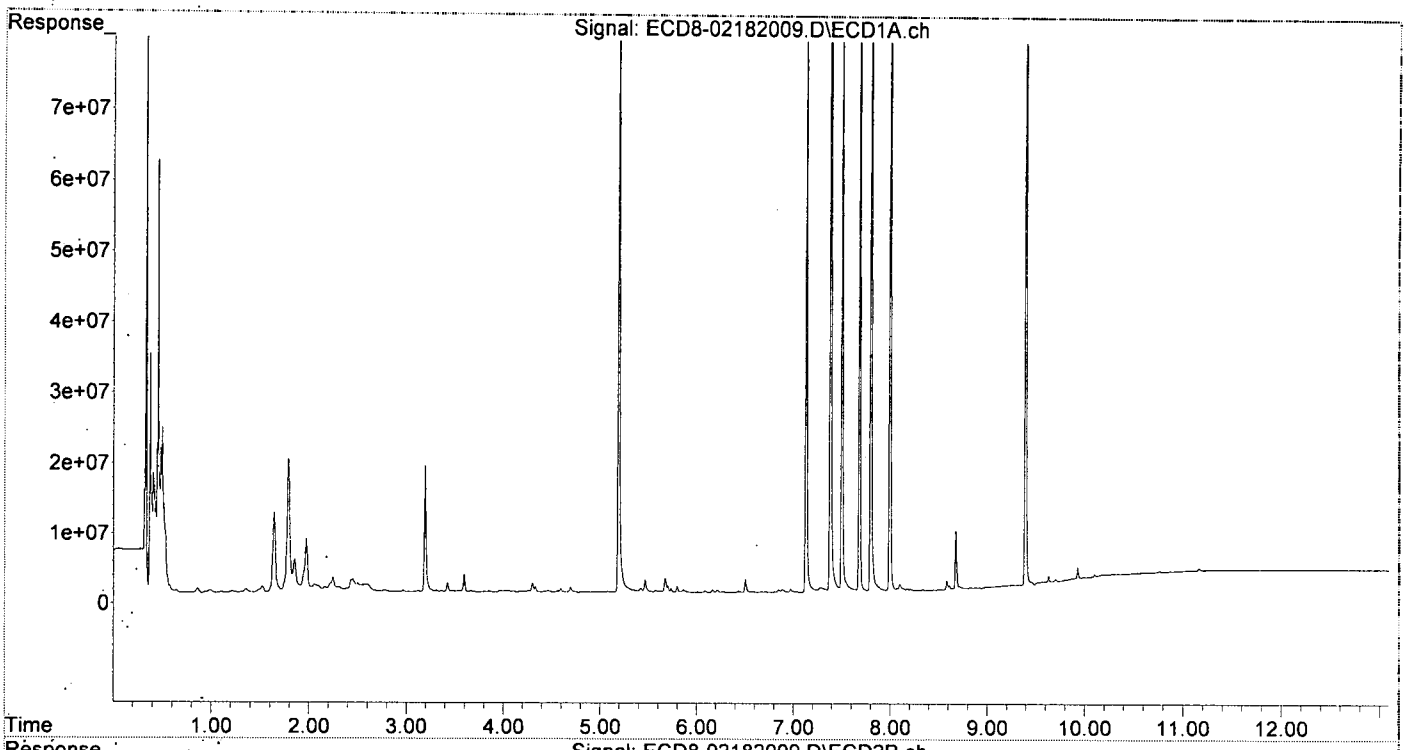
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.190	5.888	101.0E6	106.3E6	28.902	30.812	
22)	S	DCBP (S)	9.391	10.423	143.1E6	116.0E6	54.329	53.859	
		Target Compounds							
2)		a-BHC	5.735	6.530f	1752440	49371	0.371	0.087	#
3)		g-BHC	6.014	0.000	1234402	0	0.296	N.D.	#
4)		b-BHC	6.088	6.861	1428815	200800	0.820	0.116	#
5)		Heptachlor	6.436	7.181	1458667	50489	0.355	0.012	#
6)		d-BHC	6.266f	7.152	1341688	101070	0.495	0.126	#
7)		Aldrin	6.671	7.461	1454213	124772	0.360	0.045	#
8)		Heptachlo...	7.130	7.864f	94443367	674654	25.575	0.188	#
9)		trans-Chl...	7.240	8.014	1903382	91784702	0.506	24.684	#
10)		cis-Chlor...	0.000	8.156f	0	356130	N.D.	0.101	#
11)		Endosulfa...	7.380f	8.156f	153.3E6	356130	44.192	0.108	#
12)		4,4'-DDE	7.380	8.236	153.3E6	156.2E6	46.160	46.004	
13)		Dieldrin	0.000	8.387	0	91720066	N.D.	25.305	#
14)		Endrin	0.000	8.610	0	119.2E6	N.D.	39.036	#
15)		4,4'-DDD	7.799	8.651	134.7E6	140.0E6	52.923	52.575	
16)		Endosulfa...	0.000	8.758	0	343938	N.D.	0.100	#
17)		4,4'-DDT	7.996	8.877	132.9E6	148.7E6	49.447	53.335	
18)		Endrin Al...	8.209	9.000	2170174	232861	0.824	0.088	#
19)		Endosulfa...	8.510	9.177	2173118	182983	0.759	BelowCal	#
20)		Methoxychlor	8.340	9.356	2201172	569627	1.824	0.164	#
21)		Endrin Ke...	8.677	9.586	10588421	934259	3.063	0.108	#
23)		Hexachlor...	2.968	3.561f	867918	24486861	0.223	5.057	#
24)		Hexachlor...	5.573	6.371	1423631	1173691	0.423	0.354	
25)		Oxychlordane	7.036f	7.812	1552970	79090	0.326	0.025	#
26)		2,4'-DDE	7.130	8.014	94443367	91784702	40.848	40.380	
27)		trans-Non...	7.277f	0.000	2198069	0	0.600	N.D.	#
28)		2,4'-DDD	7.500	8.387	93526628	91720066	48.289	47.914	
29)		2,4'-DDT	7.682	8.610	107.6E6	119.2E6	44.979	51.012	
30)		cis-Nonac...	7.799	8.651	134.7E6	140.0E6	33.097	35.128	
31)		Mirex	8.447	9.586	2101445	934259	0.661	0.199	#
32)		Chlordane...	7.240	8.014	1903382	91784702	4.753	211.254	#
33)		Chlordane...	0.000	8.156	0	356130	N.D.	0.980	#
34)		Chlordane...	0.000	8.798	0	1560794	N.D.	13.143	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.277f	8.387	2198069	91720066	134.279	3112.430	#
37)		Toxaphene...	0.000	8.713	0	463765	N.D.	11.540	#
38)		Toxaphene...	0.000	8.758	0	343938	N.D.	5.316	#
39)		Toxaphene...	8.178f	8.798f	2259508	1560794	27.885	12.036	#
40)		Toxaphene...	8.378	9.000	2019311	232861	37.255	4.062	#
41)		Toxaphene...	8.447	9.390	2101445	2106197	27.631	31.886	
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

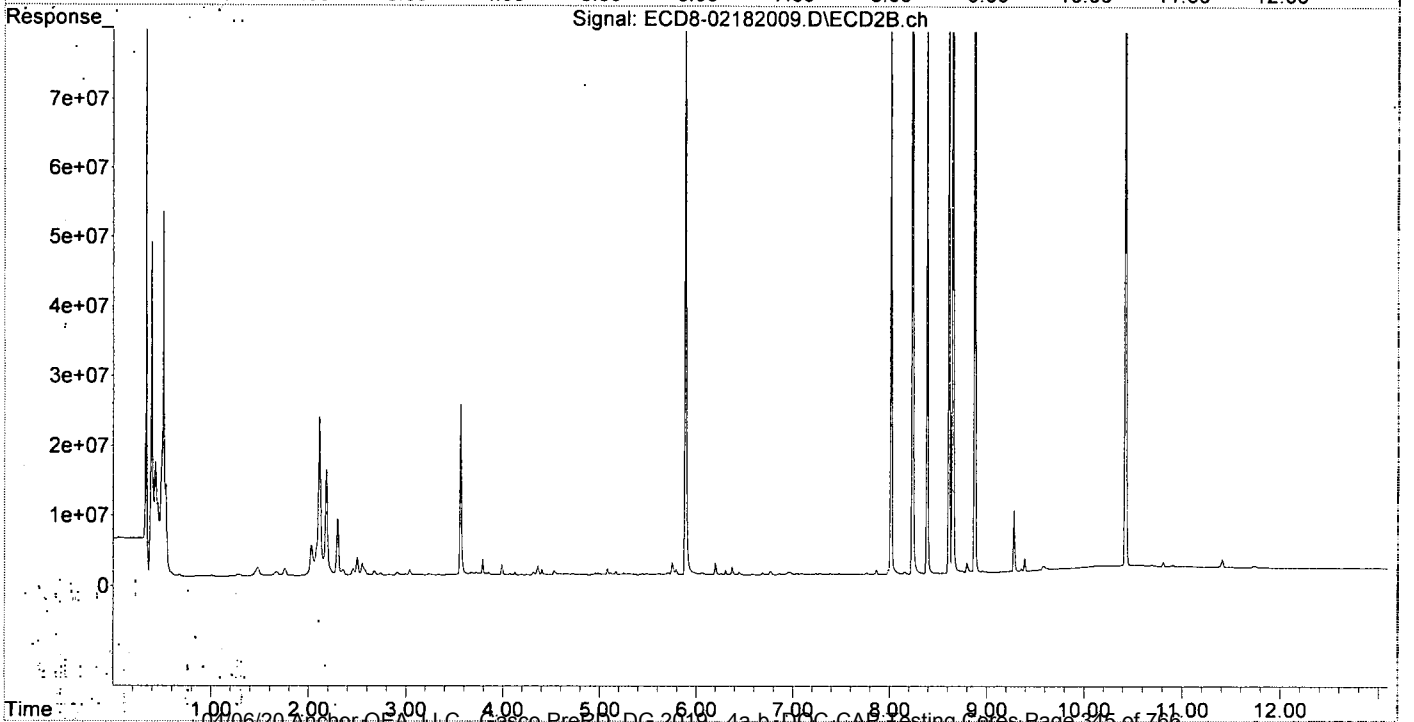
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B18034\
Data File : ECD8-02182009.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Feb 2020 13:33
Operator : MJB
Sample : 0020516-BS1
Misc : 1x, 8081B 2,4+4,4-DDX Only, GPC
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 19 09:17:29 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B18034\
Data File : ECD8-02182010.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Feb 2020 13:50
Operator : MJB
Sample : A0B0411-01RE1
Misc : 1x, 8081B 2,4+4,4-DDX Only, GPC
ALS Vial : 8 Sample Multiplier: 1

AMS 2/19/20

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 19 09:17:33 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

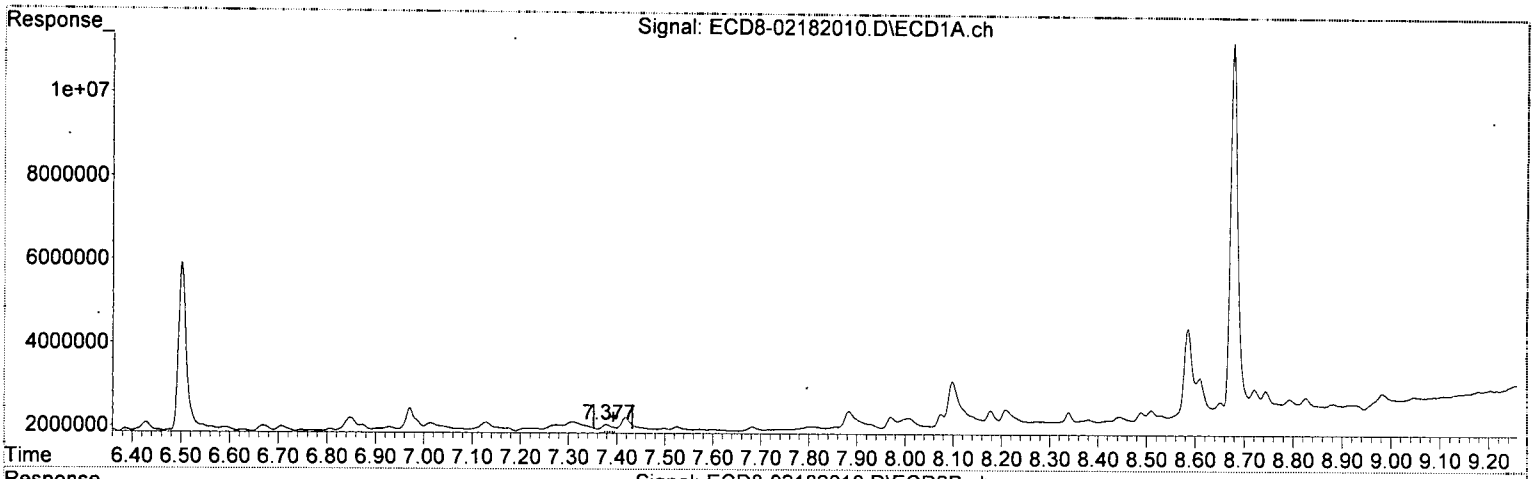
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.190	5.887	89150892	95030489	25.500	27.549	
22)	S	DCBP (S)	9.391	10.423	126.5E6	111.0E6	48.126	51.656	
		Target Compounds							
2)		a-BHC	5.734	6.529f	694653	2151127	0.147	0.579	#
3)		g-BHC	6.010	0.000	106231	0	0.026	N.D.	#
4)		b-BHC	6.085	6.861	296657	2442768	0.170	1.407	#
5)		Heptachlor	6.429	7.181	279089	2419009	0.068	0.574	#
6)		d-BHC	6.245	7.150	115099	2455672	0.140	0.798	#
7)		Aldrin	6.669	7.461	189824	2600244	0.047	0.706	#
8)		Heptachlo...	7.129	7.864f	240108	3315059	0.065	0.923	#
9)		trans-Chl...	7.231	8.014	90126	2807907	0.024	0.755	#
10)		cis-Chlor...	7.308	8.155	239751	3427540	0.065	0.973	#
11)		Endosulfa...	7.418	8.206f	340370	2744809	0.098	0.831	#
12)		4,4'-DDE	7.378	8.249	170750	3144457	0.051	1.097	# POI MDL=MRL
13)		Dieldrin	7.601	8.389	47390	2839763	0.012	0.843	#
14)		Endrin	7.757	8.611	13191	2960737	0.004	1.022	#
15)		4,4'-DDD	7.811	8.650	70186	2963827	0.028	1.309	# POI MDL=MRL
16)		Endosulfa...	7.883f	8.741f	409521	3214939	0.137	1.187	#
17)		4,4'-DDT	8.008	8.874	216098	3603256	0.080	1.440	# POI MDL=MRL
18)		Endrin Al...	8.210	8.997	357657	3228117	0.136	1.221	#
19)		Endosulfa...	8.489	9.165f	190753	3409201	0.067	1.273	#
20)		Methoxychlor	8.339	9.356	246869	3913968	0.205	3.299	#
21)		Endrin Ke...	8.677	9.584	9006516	4912204	2.606	1.516	#
23)		Hexachlor...	2.968	3.561f	393567	23962670	0.101	4.949	#
24)		Hexachlor...	5.572	6.370	391147	3220494	0.116	1.066	#
25)		Oxychlordane	0.000	7.818	0	2911197	N.D.	0.910	#
26)		2,4'-DDE	7.129	8.014	240108	2807907	0.104	1.235	# POI MDL=MRL
27)		trans-Non...	7.308	8.097	239751	2834684	0.065	0.785	#
28)		2,4'-DDD	7.526	8.389	119208	2839763	0.062	1.483	# POI MDL=MRL
29)		2,4'-DDT	7.682	8.611	97850	2960737	0.041	1.339	# POI MDL=MRL
30)		cis-Nonac...	7.757f	8.650	13191	2963827	0.003	0.744	#
31)		Mirex	8.445	9.584	109121	4912204	8199.084	2.120	#
32)		Chlordane...	7.231	8.044	90126	3062772	0.225	7.049	#
33)		Chlordane...	7.308	8.155	239751	3427540	0.493	9.428	#
34)		Chlordane...	7.883	8.795	409521	4597030	3.145	38.710	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.308	8.389	239751	2839763	14.646	96.365	#
37)		Toxaphene...	7.601	8.717	47390	3108824	1.508	77.355	#
38)		Toxaphene...	7.883f	8.741	409521	3214939	2.658	49.693	#
39)		Toxaphene...	8.178f	8.795f	332025	4597030	BelowCal	43.482	
40)		Toxaphene...	8.379	8.997	68110	3228117	1.257	56.308	#
41)		Toxaphene...	8.445	9.390	109121	6715099	1.435	101.661	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

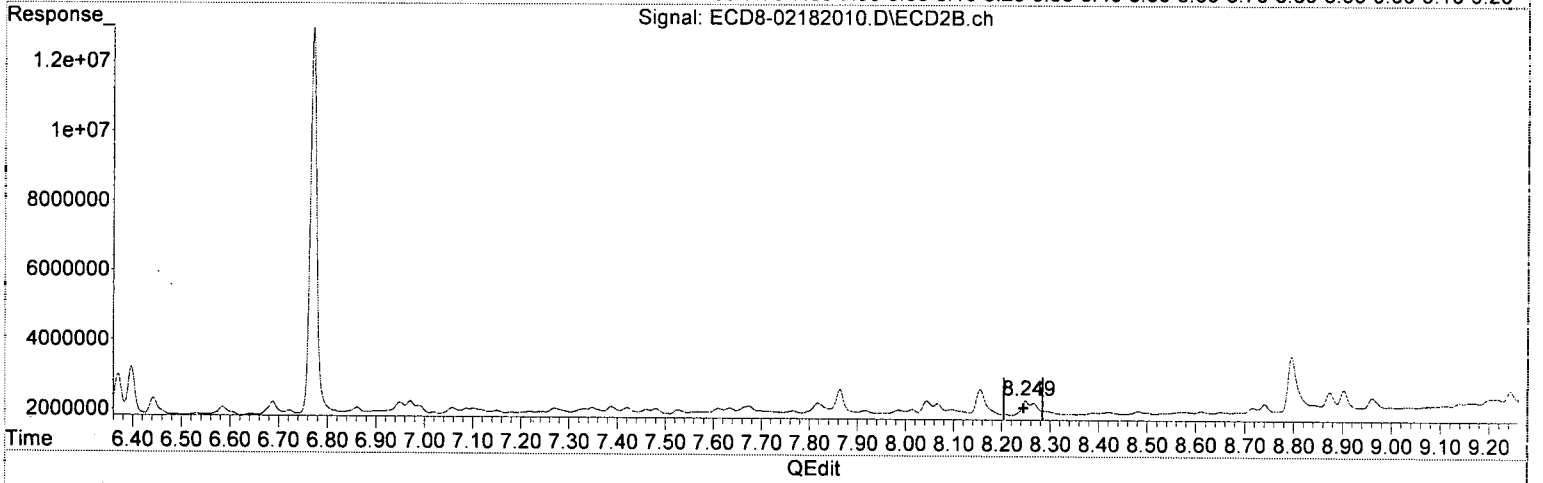
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B18034\
Data File : ECD8-02182010.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Feb 2020 13:50
Operator : MJB
Sample : A0B0411-01RE1
Misc : 1x, 8081B 2,4+4,4-DDX Only, GPC
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 19 09:17:33 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





QEdit

(12) 4,4'-DDE

7.378min 0.051 ng/mL

response 170750

(12) 4,4'-DDE #2

8.249min 1.097 ng/mL

response 3144457

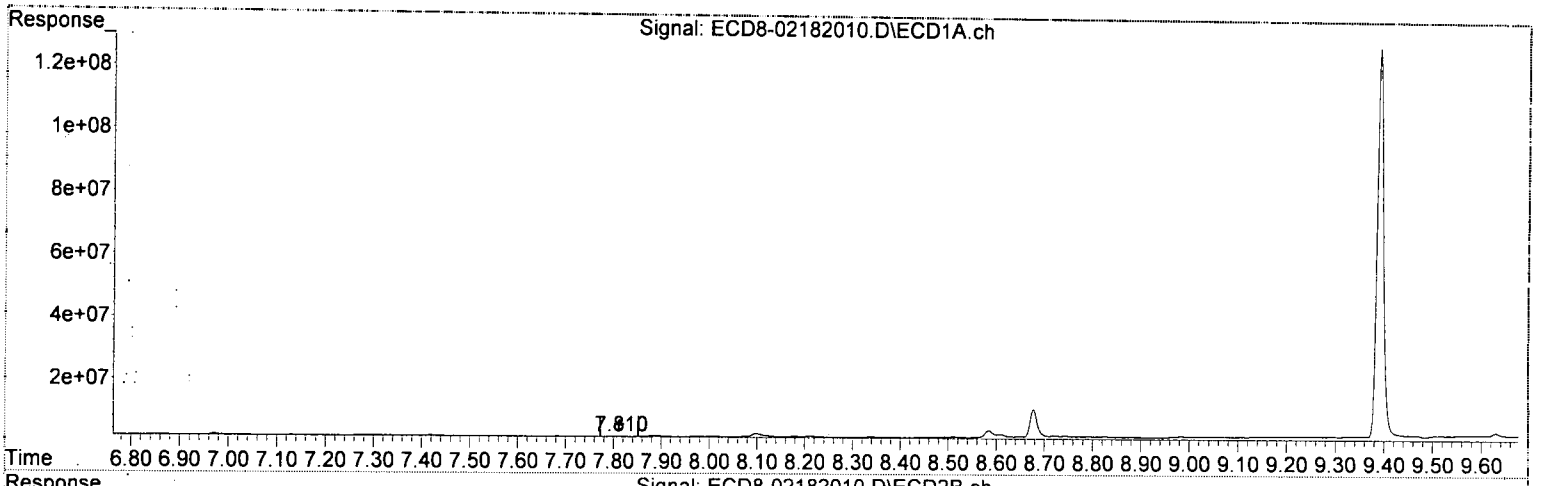
P01 MDL=MRL

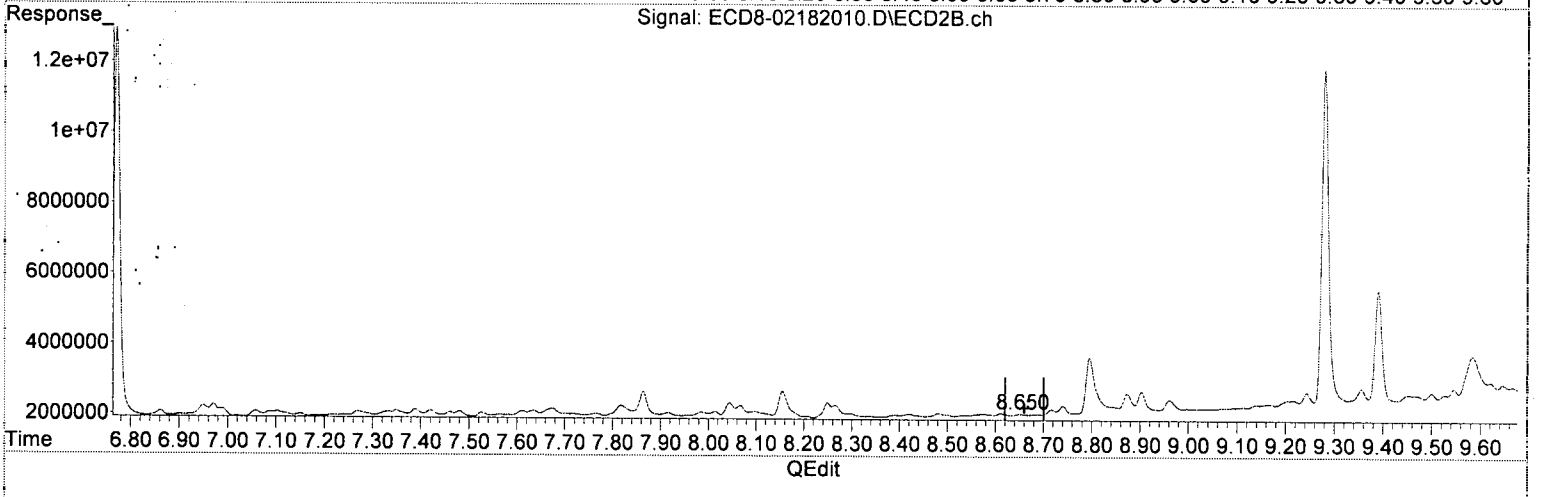
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B18034\
Data File : ECD8-02182010.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Feb 2020 13:50
Operator : MJB
Sample : A0B0411-01RE1
Misc : 1x, 8081B 2,4+4,4-DDX Only, GPC
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 19 09:17:33 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





QEdit

(15) 4,4'-DDD

7.811min 0.028 ng/mL

response 70186

(15) 4,4'-DDD #2

8.650min 1.309 ng/mL

response 2963827

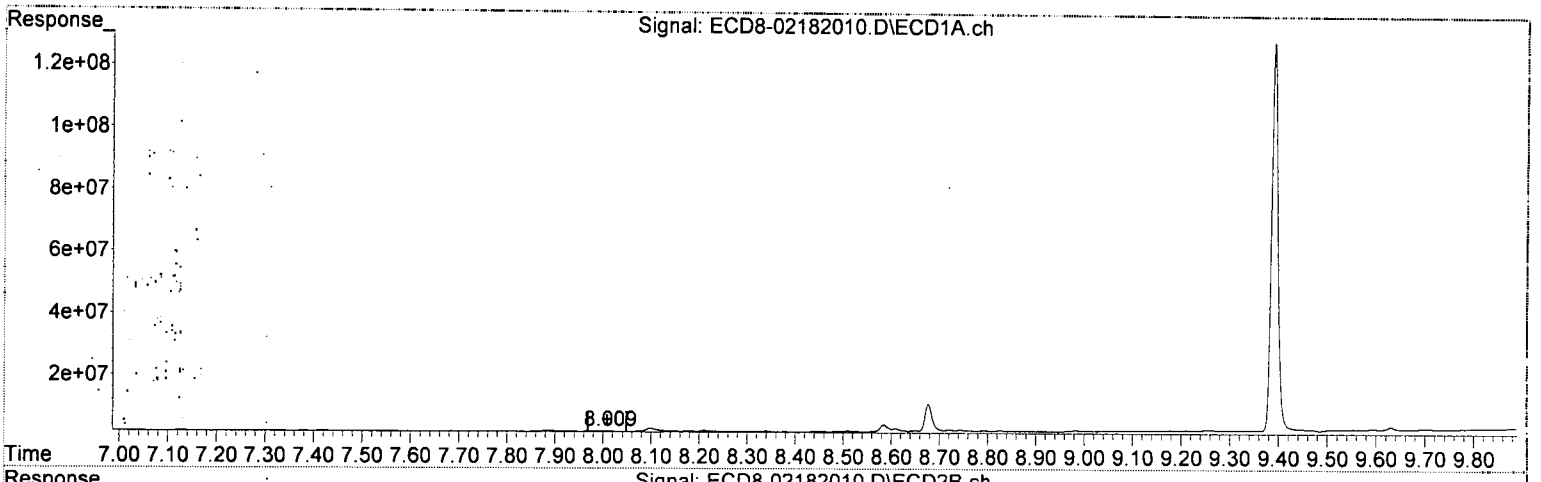
POL MDL=MRL

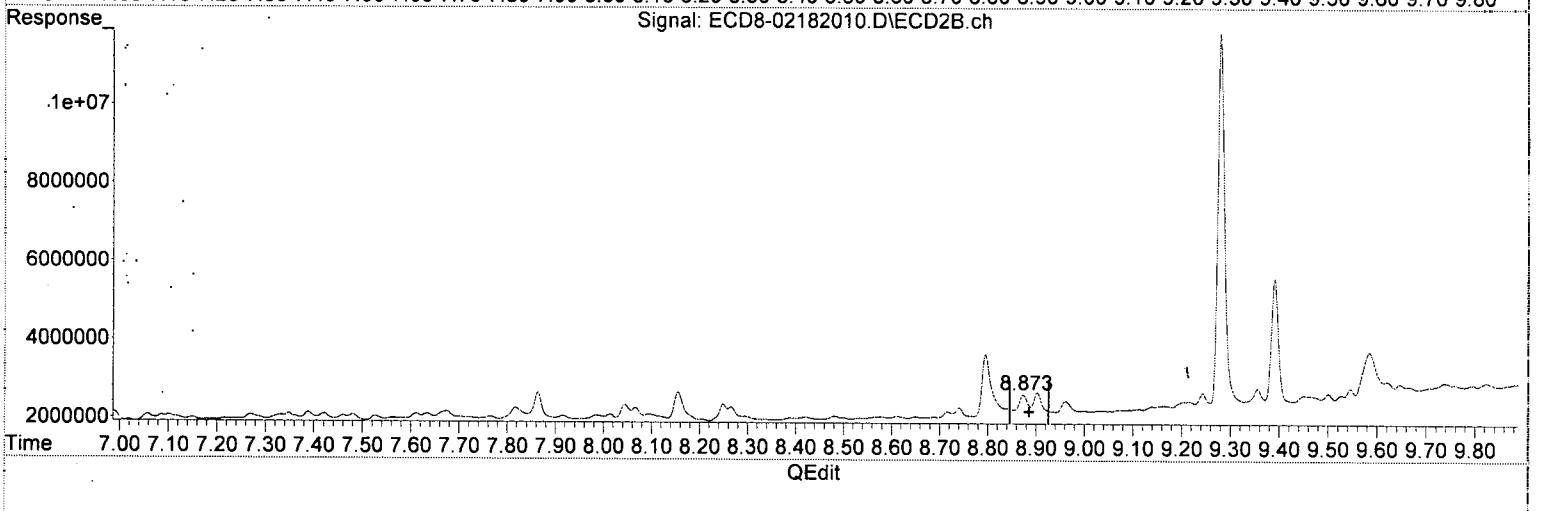
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B18034\
Data File : ECD8-02182010.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Feb 2020 13:50
Operator : MJB
Sample : A0B0411-01RE1
Misc : 1x, 8081B 2,4+4,4-DDX Only, GPC
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 19 09:17:33 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





(17) 4,4'-DDT

8.008min 0.080 ng/mL

response 216098

(17) 4,4'-DDT #2

8.874min 1.440 ng/mL

response 3603256

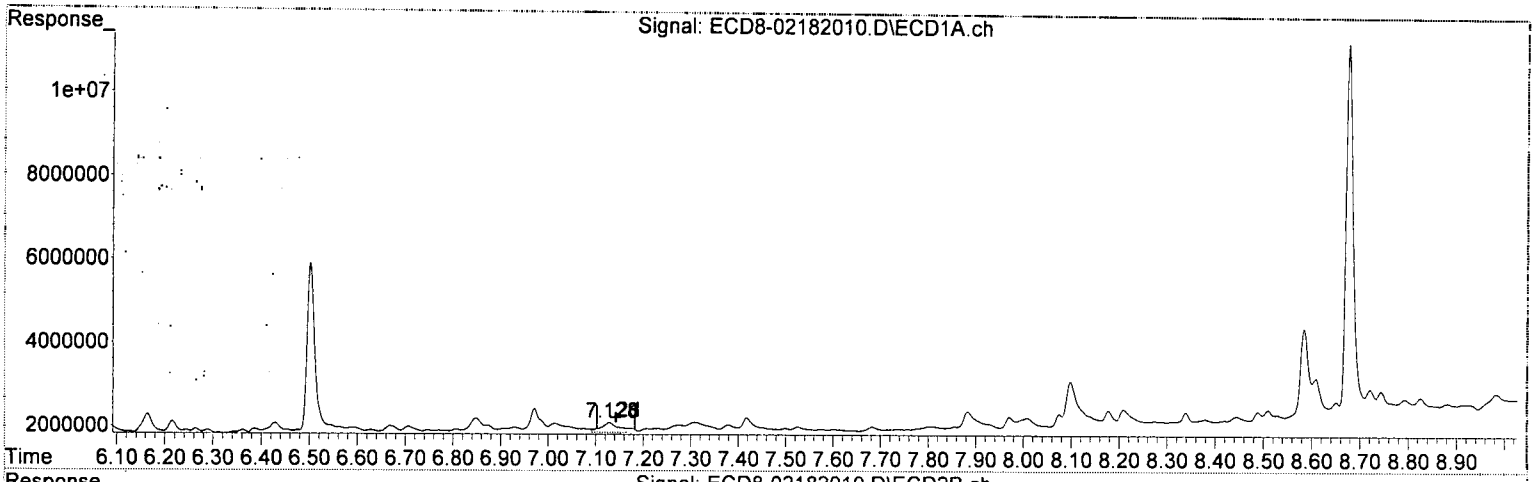
P01 MDL=MRL

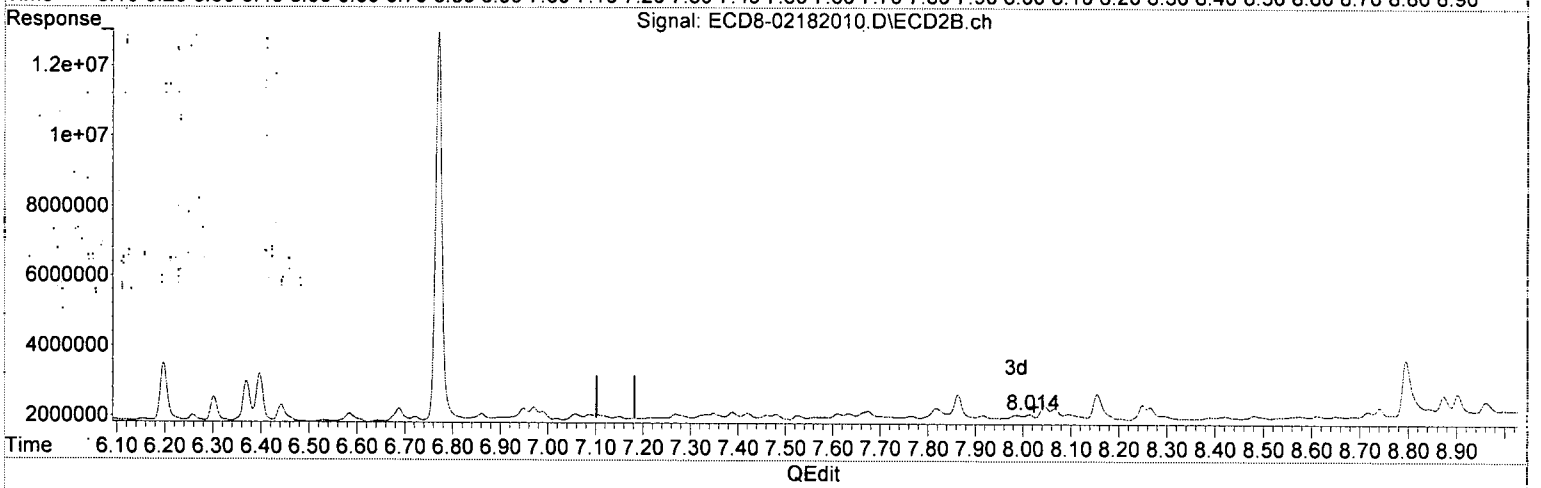
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B18034\
Data File : ECD8-02182010.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Feb 2020 13:50
Operator : MJB
Sample : A0B0411-01RE1
Misc : 1x, 8081B 2,4+4,4-DDX Only, GPC
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 19 09:17:33 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





QEdit

(26) 2,4'-DDE

7.129min 0.104 ng/mL

response 240108

(26) 2,4'-DDE #2

8.014min 1.235 ng/mL

response 2807907

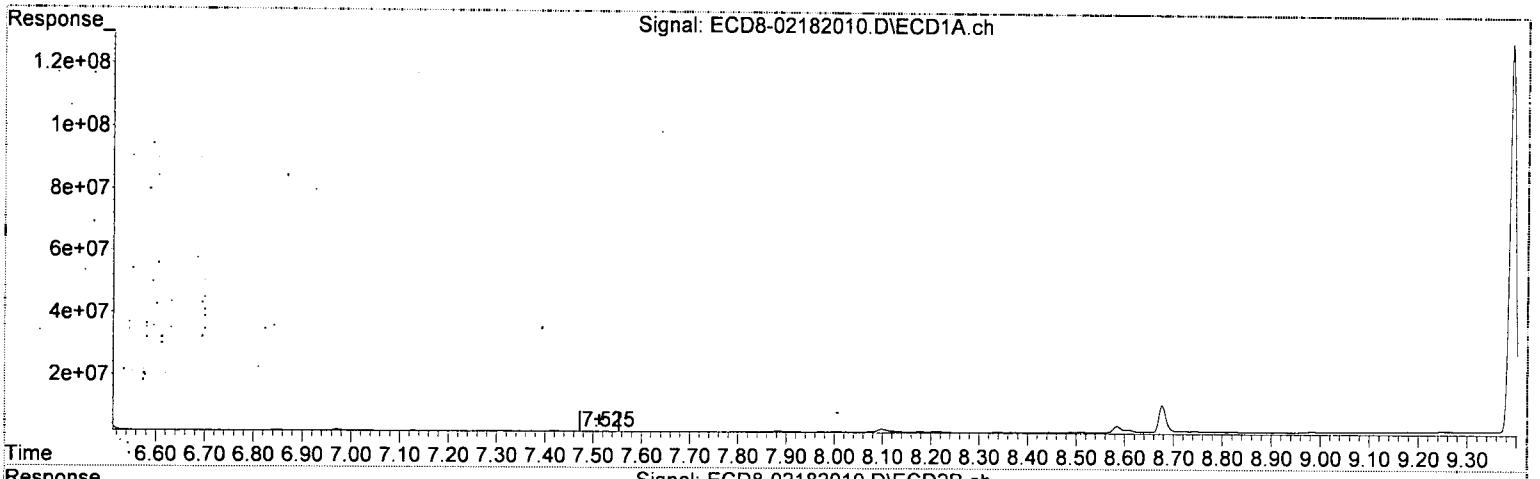
POI MDL=MRL

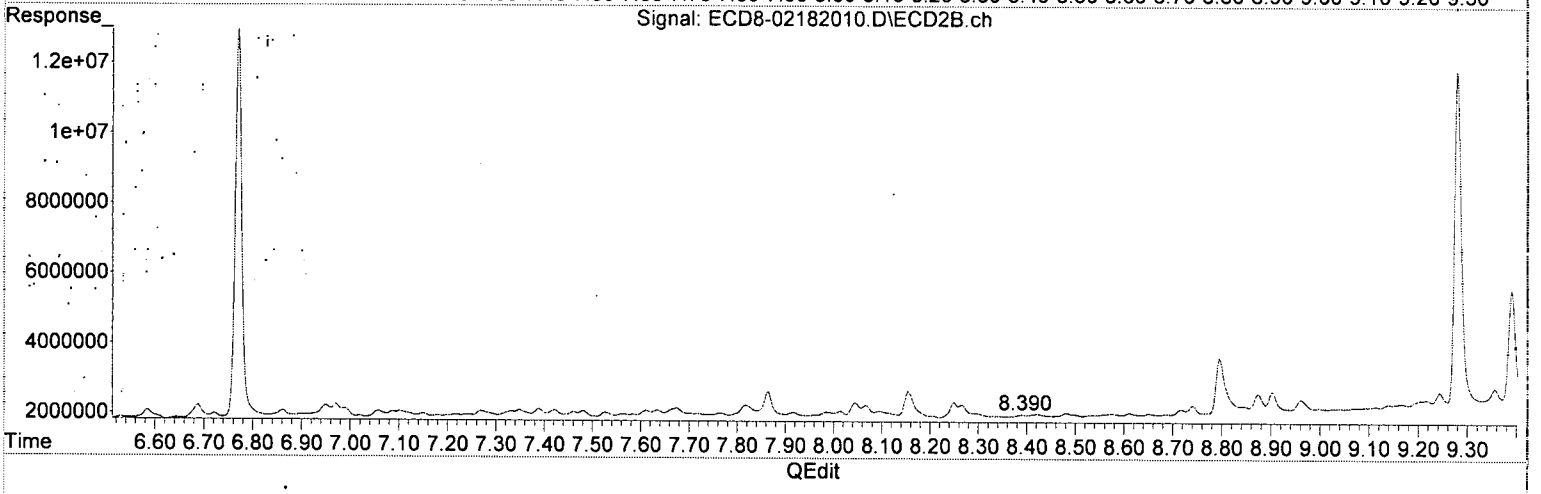
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B18034\
Data File : ECD8-02182010.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Feb 2020 13:50
Operator : MJB
Sample : A0B0411-01RE1
Misc : 1x, 8081B 2,4+4,4-DDX Only, GPC
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 19 09:17:33 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





(28) 2,4'-DDD

7.526min 0.062 ng/mL

response 119208

(28) 2,4'-DDD #2

8.389min 1.483 ng/mL

response 2839763

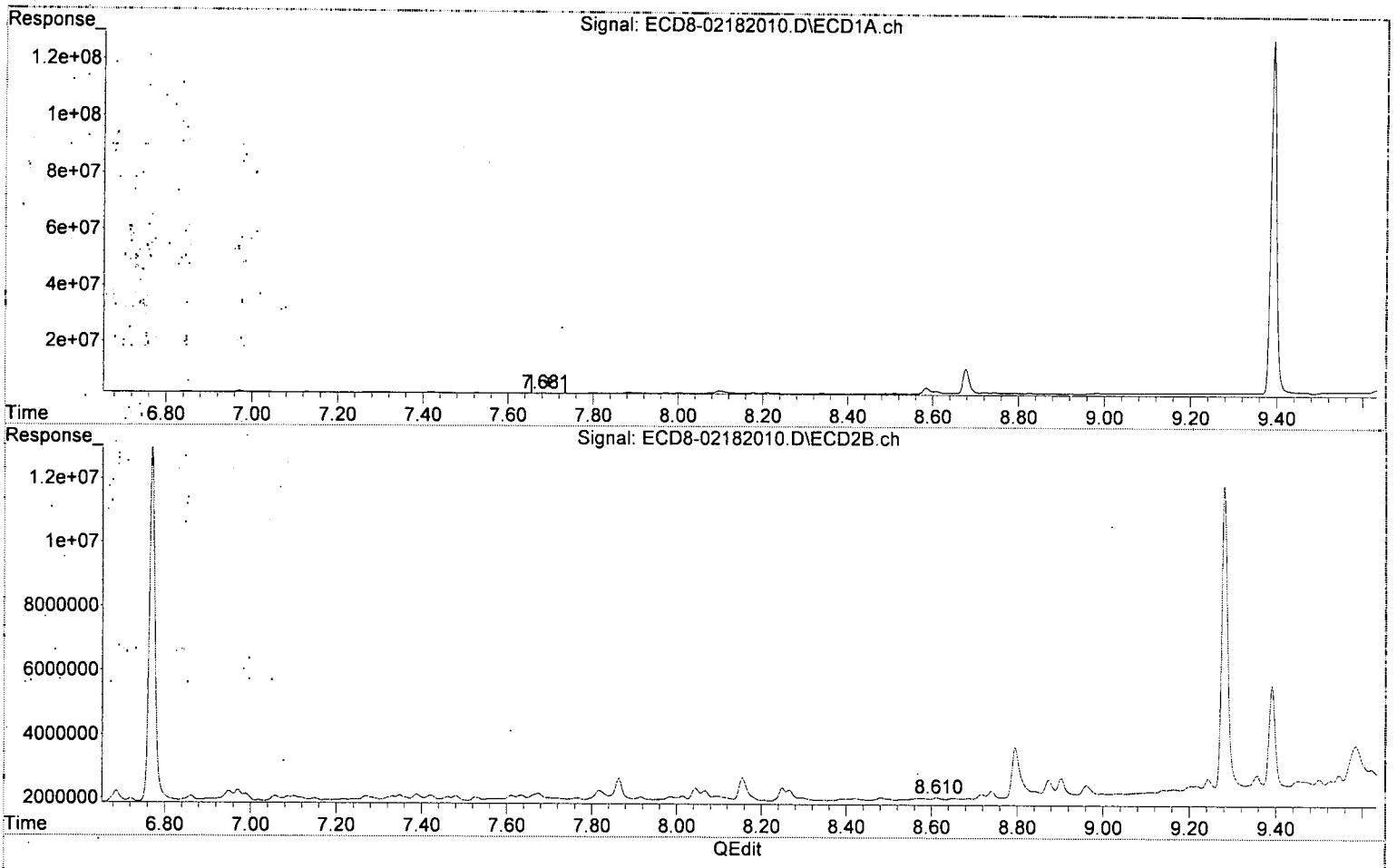
RQL MDL=MRL

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B18034\
Data File : ECD8-02182010.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Feb 2020 13:50
Operator : MJB
Sample : A0B0411-01RE1
Misc : 1x, 8081B 2,4+4,4-DDX Only, GPC
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 19 09:17:33 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(29) 2,4'-DDT

7.682min 0.041 ng/mL

response 97850

(29) 2,4'-DDT #2

8.611min 1.339 ng/mL

response 2960737

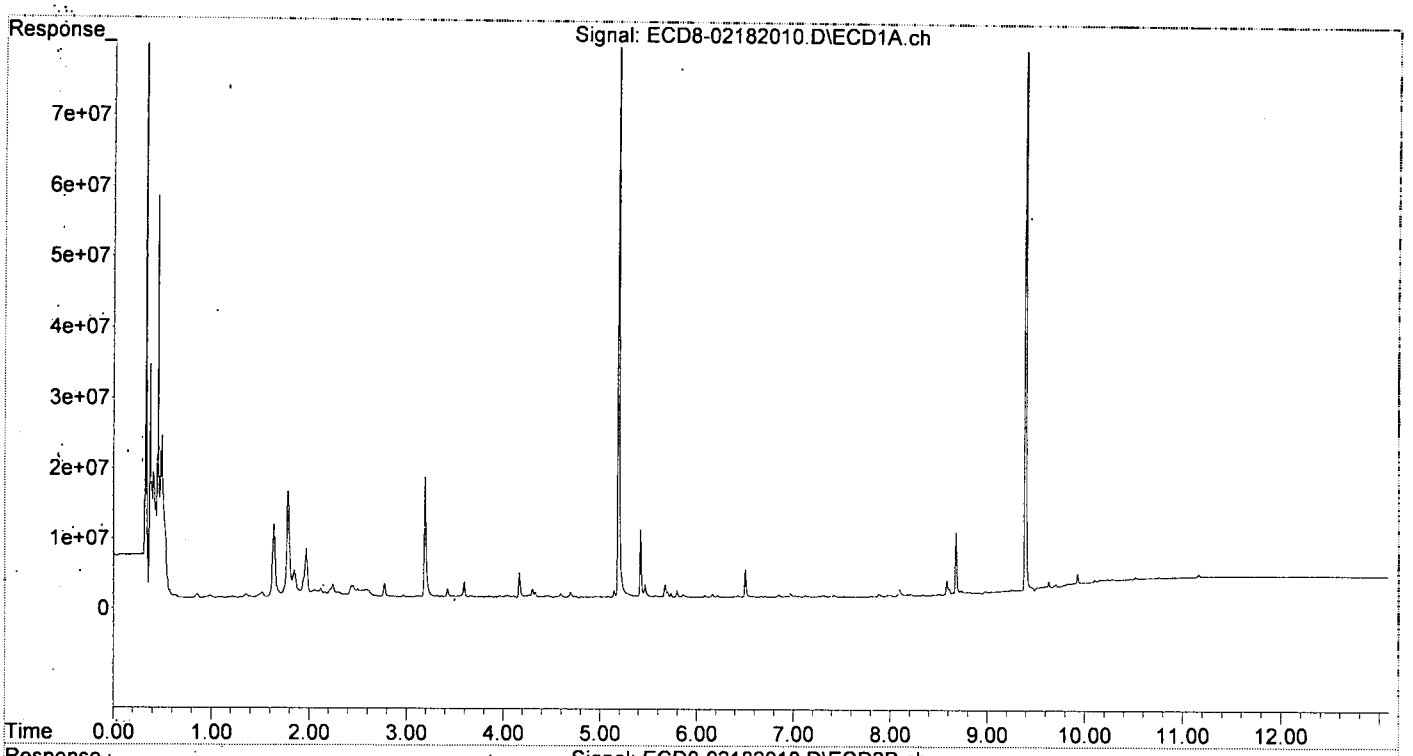
P01 MDL=MRL

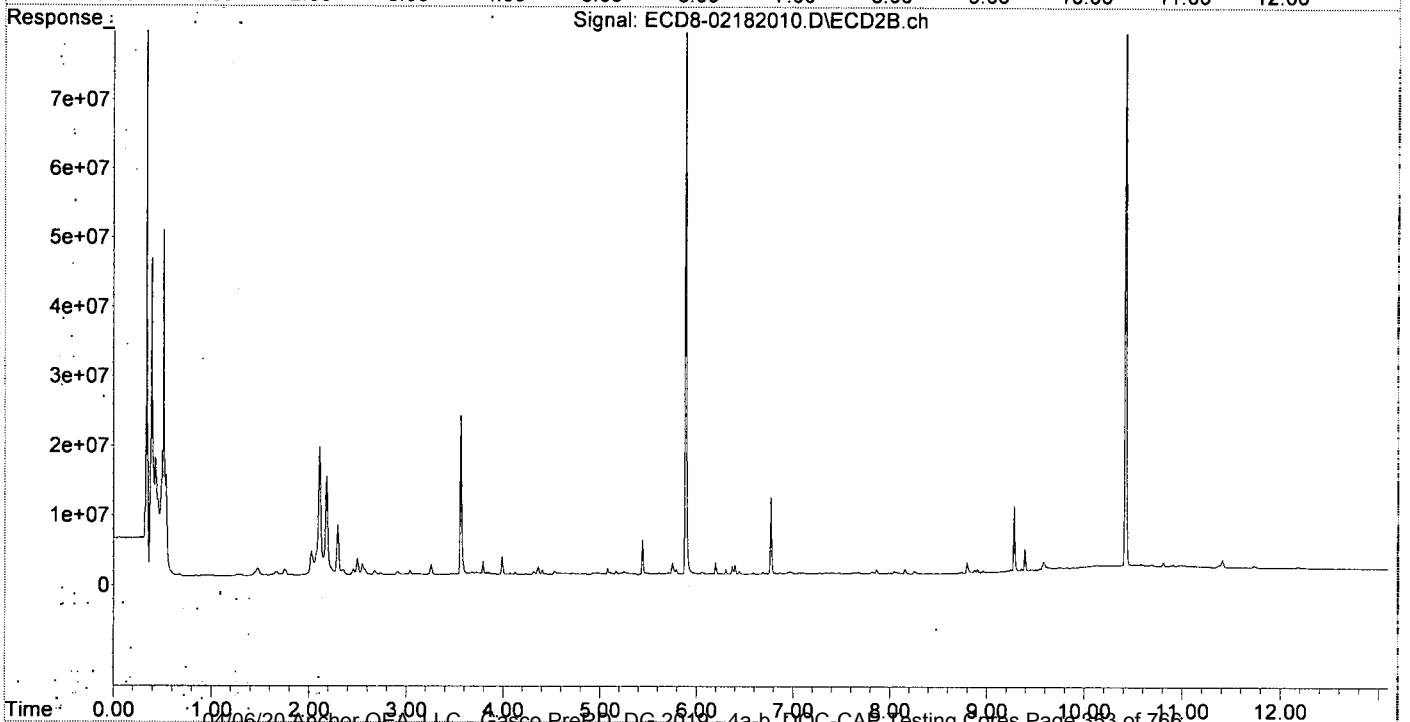
(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B18034\
Data File : ECD8-02182010.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Feb 2020 13:50
Operator : MJB
Sample : A0B0411-01RE1
Misc : 1x, 8081B 2,4+4,4-DDX Only, GPC
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 19 09:17:33 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B18034\
Data File : ECD8-02182011.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Feb 2020 14:07
Operator : MJB
Sample : 0020516-DUP1
Misc : 1x, 8081B 2,4+4,4-DDX Only, GPC
ALS Vial : 9 Sample Multiplier: 1

AMS 2/19/20

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 19 09:17:37 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

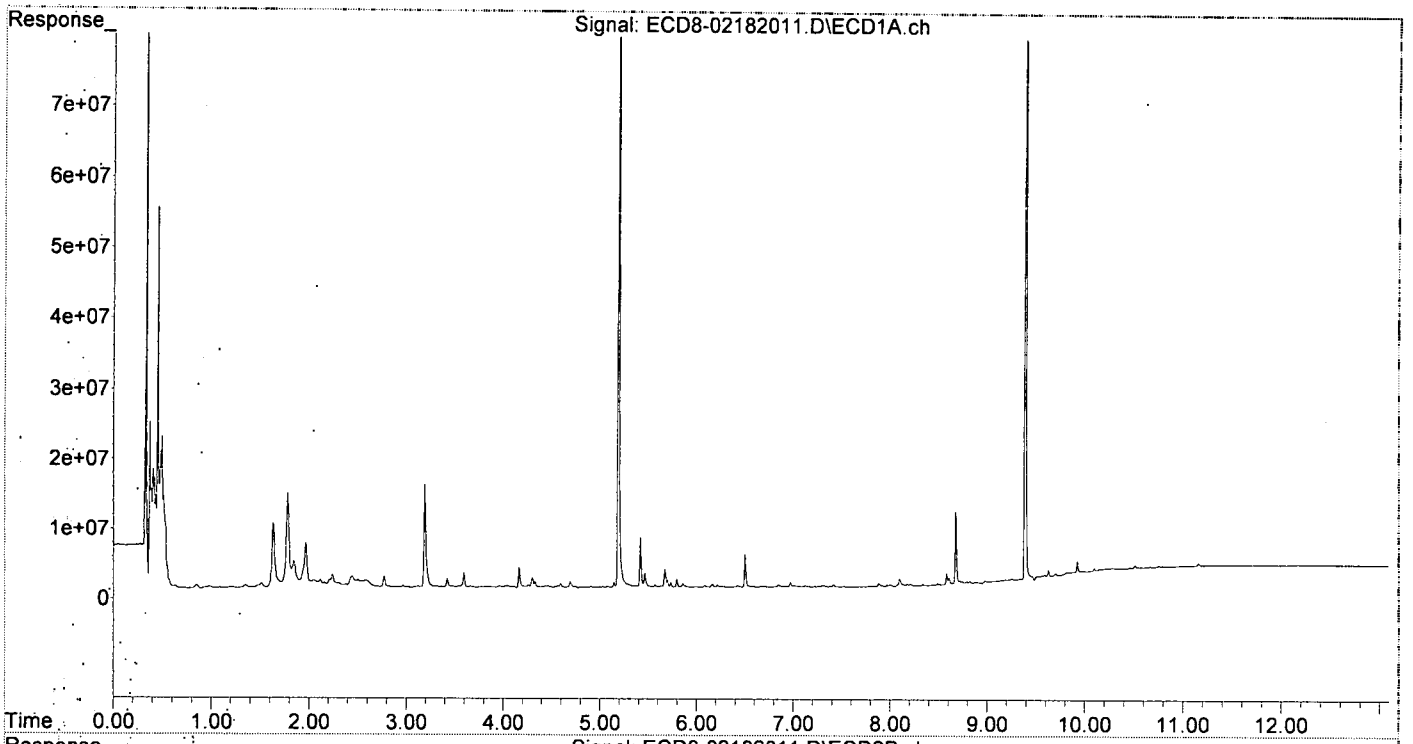
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.190	5.887	99819630	106.0E6	28.552	30.731	
22)	S	DCBP (S)	9.390	10.421	135.6E6	114.9E6	51.532	53.383	
		Target Compounds							
2)		a-BHC	5.734	6.529f	778903	106255	0.165	0.101	#
3)		g-BHC	6.015	0.000	101754	0	0.024	N.D.	#
4)		b-BHC	6.084	6.860	350385	272974	0.201	0.157	
5)		Heptachlor	6.427	7.185	252402	113702	0.061	0.027	#
6)		d-BHC	6.244	7.151	126795	163095	0.143	0.144	
7)		Aldrin	6.668	7.460	207179	206577	0.051	0.067	#
8)		Heptachlo...	7.128	7.913f	204406	156869	0.055	0.044	
9)		trans-Chl...	7.220	8.013	85021	153415	0.023	0.041	#
10)		cis-Chlor...	7.307	8.155	236925	736007	0.065	0.209	#
11)		Endosulfa...	7.417	8.155f	398214	736007	0.115	0.223	#
12)		4,4'-DDE	7.378	8.249	127496	461248	0.038	0.236	#
13)		Dieldrin	7.599	8.421f	46150	82498	0.012	0.056	#
14)		Endrin	0.000	8.613	0	45567	N.D.	0.008	#
15)		4,4'-DDD	7.810	8.649	79610	33697	0.031	0.057	#
16)		Endosulfa...	7.884f	8.766	436049	55976	0.146	BelowCal	#
17)		4,4'-DDT	8.009	8.872	215264	489476	0.080	0.174	#
18)		Endrin Al...	8.209	8.998	317834	140885	0.121	0.053	#
19)		Endosulfa...	8.487	9.203	266410	324400	0.093	0.041	#
20)		Methoxychlor	8.339	9.354	210326	576846	0.174	0.170	
21)		Endrin Ke...	8.676	9.584	10363411	1322396	2.998	0.246	#
23)		Hexachlor...	2.967	3.560f	259868	19665674	0.067	4.062	#
24)		Hexachlor...	5.572	6.369	436221	1461782	0.130	0.455	#
25)		Oxychlordane	7.039	7.817	160866	391114	BelowCal	0.122	
26)		2,4'-DDE	7.128	8.013	204406	153415	0.088	0.067	
27)		trans-Non...	7.307	8.097	236925	175310	0.065	0.049	
28)		2,4'-DDD	7.524	8.421f	118970	82498	0.061	0.043	#
29)		2,4'-DDT	7.681	8.613	71033	45567	0.030	BelowCal	#
30)		cis-Nonac...	7.810f	8.649	79610	33697	0.020	0.008	#
31)		Mirex	8.443	9.584	119683	1322396	8199.079	0.387	#
32)		Chlordane...	7.220	8.044	85021	431073	0.212	0.992	#
33)		Chlordane...	7.307	8.155	236925	736007	0.487	2.024	#
34)		Chlordane...	7.884	8.794	436049	1582491	3.349	13.326	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.307	0.000	236925	0	14.474	N.D.	#
37)		Toxaphene...	7.599	8.716	46150	191638	1.469	4.768	#
38)		Toxaphene...	7.884f	8.740	436049	230520	3.035	3.563	
39)		Toxaphene...	8.177f	8.842f	344460	222463	BelowCal	BelowCal	
40)		Toxaphene...	8.375	8.998	69751	140885	1.287	2.457	#
41)		Toxaphene...	8.443	9.388	119683	2504981	1.574	37.923	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

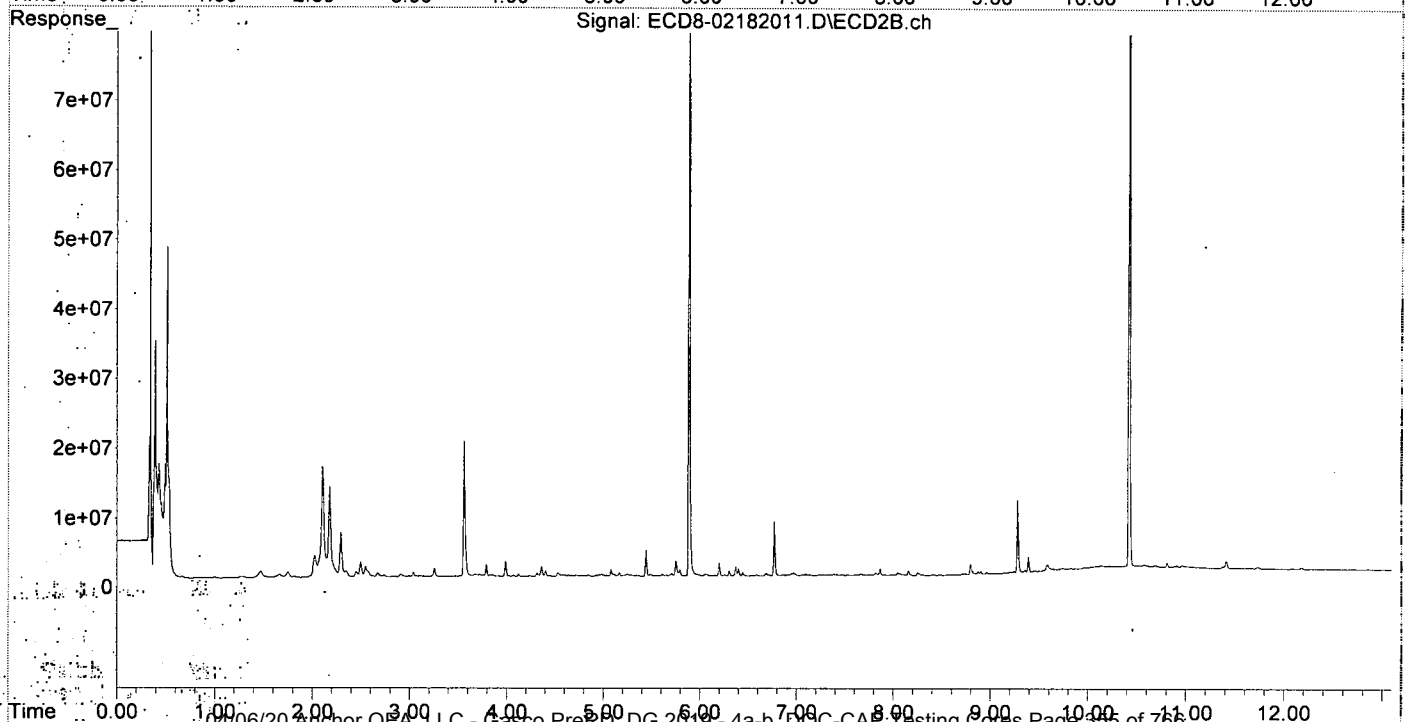
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B18034\
Data File : ECD8-02182011.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Feb 2020 14:07
Operator : MJB
Sample : 0020516-DUP1
Misc : 1x, 8081B 2,4+4,4-DDX Only, GPC
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 19 09:17:37 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B18034\
Data File : ECD8-02182012.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Feb 2020 14:24
Operator : MJB
Sample : A0B0411-02RE1
Misc : 1x, 8081B 2,4+4,4-DDX Only, GPC
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 19 09:17:41 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

AMS 2/19/20

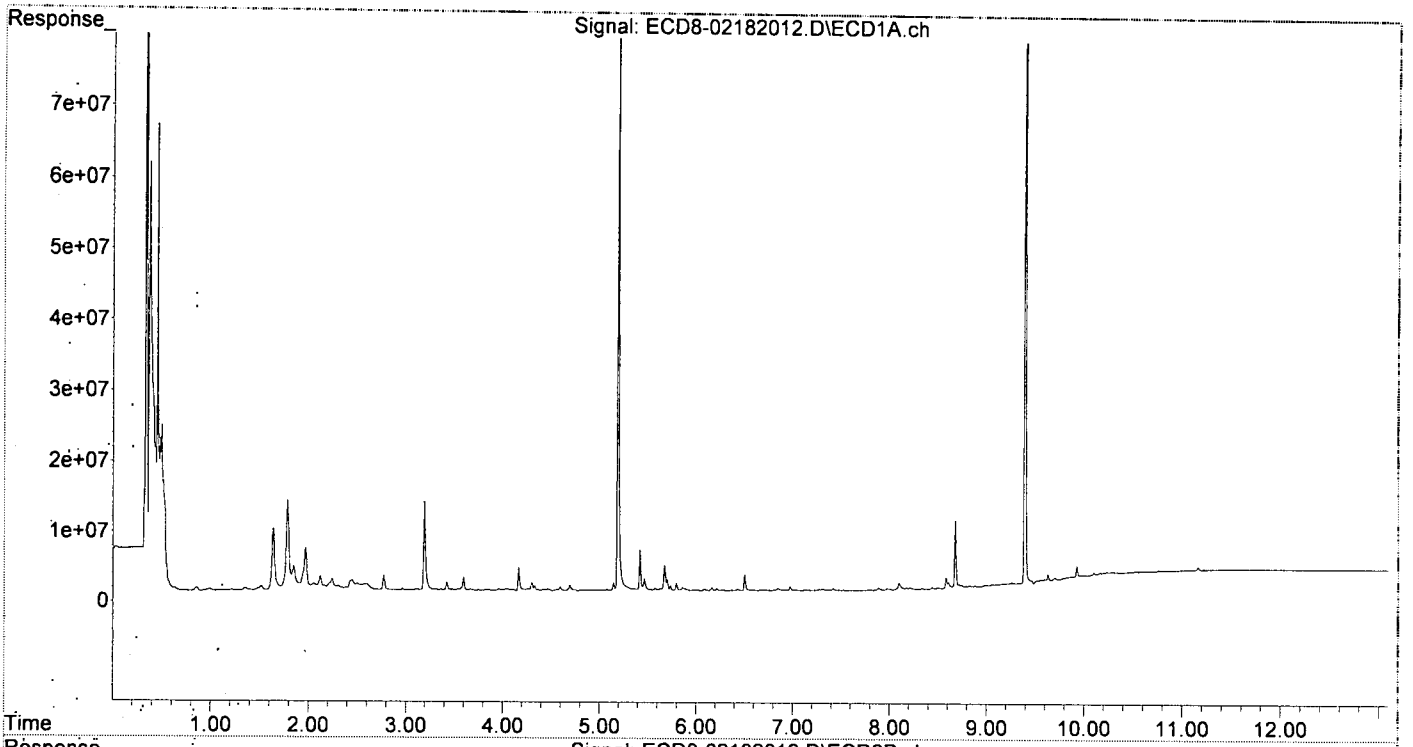
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.190	5.887	84620102	87149023	24.204	25.264	
22)	S	DCBP (S)	9.391	10.423	130.5E6	110.8E6	49.636	51.564	
		Target Compounds							
2)		a-BHC	5.735	6.530f	757037	70978	0.160	0.092	#
3)		g-BHC	6.015	0.000	100136	0	0.024	N.D.	#
4)		b-BHC	6.086	6.861	279751	221607	0.161	0.128	
5)		Heptachlor	6.429	7.183	200190	72033	0.049	0.017	#
6)		d-BHC	6.243	7.149	98292	118903	0.135	0.131	
7)		Aldrin	6.671	7.462	184271	167588	0.046	0.057	
8)		Heptachlo...	7.130	7.864f	123694	792621	0.033	0.221	#
9)		trans-Chl...	7.225	8.016	73228	109289	0.019	0.029	#
10)		cis-Chlor...	7.310	8.120	207524	81229	0.057	0.023	#
11)		Endosulfa...	7.418	8.157f	351547	508257	0.101	0.154	#
12)		4,4'-DDE	7.376	8.250	116076	420857	0.035	0.223	#
13)		Dieldrin	7.587	8.365f	78674	31089	0.021	0.041	#
14)		Endrin	7.750	8.616	16713	109389	0.005	0.031	#
15)		4,4'-DDD	7.813	8.651	78090	16406	0.031	0.050	#
16)		Endosulfa...	7.927	8.741f	79318	263653	0.027	0.070	#
17)		4,4'-DDT	8.005	8.873	145845	466203	0.054	0.165	#
18)		Endrin Al...	8.210	8.960f	300470	309536	0.114	0.117	
19)		Endosulfa...	8.489	9.210f	107654	297386	0.038	0.030	
20)		Methoxychlor	8.340	9.356	205226	518068	0.170	0.115	#
21)		Endrin Ke...	8.677	9.585	9670334	1275171	2.798	0.229	#
23)		Hexachlor...	2.967	3.561f	303685	16995779	0.078	3.510	#
24)		Hexachlor...	5.572	6.371	392522	1253950	0.117	0.382	#
25)		Oxychlordane	7.042	7.824	95522	198387	BelowCal	0.062	
26)		2,4'-DDE	7.153	8.016	70846	109289	0.031	0.048	#
27)		trans-Non...	7.310	8.093	207524	138449	0.057	0.038	#
28)		2,4'-DDD	7.526	8.420f	86992	72175	0.045	0.038	
29)		2,4'-DDT	7.684	8.616	56263	109389	0.024	0.002	#
30)		cis-Nonac...	7.783	8.651	100240	16406	0.025	0.004	#
31)		Mirex	8.441	9.585	274726	1275171	8199.015	0.364	#
32)		Chlordane...	7.237	8.046	66871	396037	0.167	0.912	#
33)		Chlordane...	7.310	8.157	207524	508257	0.427	1.398	#
34)		Chlordane...	7.885	8.797	316325	1591380	2.430	13.400	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.310	8.365	207524	31089	12.678	1.055	#
37)		Toxaphene...	7.587	8.717	78674	158046	2.504	3.933	#
38)		Toxaphene...	7.927	8.741	79318	263653	96752.810	4.075	#
39)		Toxaphene...	8.178f	8.797f	337833	1591380	BelowCal	12.353	
40)		Toxaphene...	8.380	8.960f	31887	309536	0.588	5.399	#
41)		Toxaphene...	8.441	9.390	274726	2500653	3.612	37.858	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

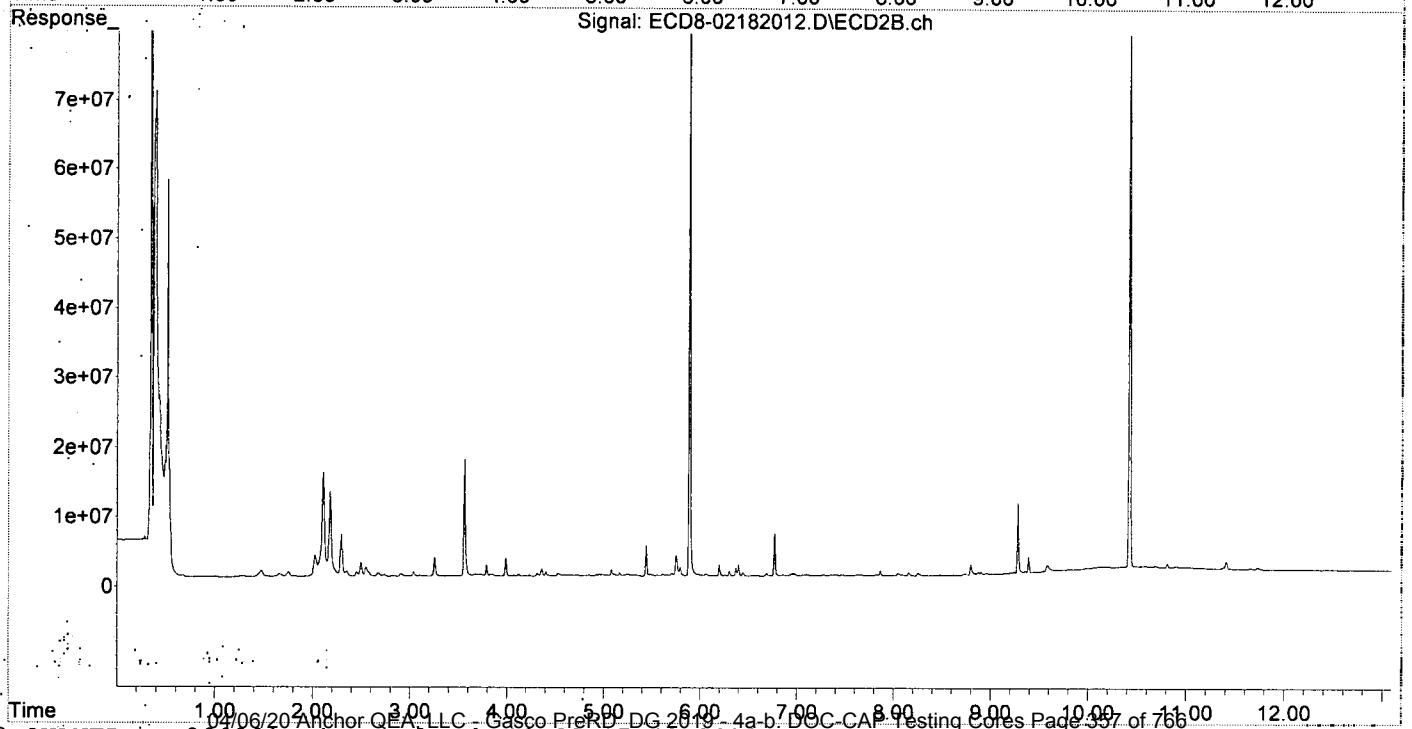
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B18034\
Data File : ECD8-02182012.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Feb 2020 14:24
Operator : MJB
Sample : A0B0411-02RE1
Misc : 1x, 8081B 2,4+4,4-DDX Only, GPC
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 19 09:17:41 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B18034\
Data File : ECD8-02182013.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Feb 2020 14:40
Operator : MJB
Sample : A0B0411-03RE1
Misc : 1x, 8081B 2,4+4,4-DDX Only, GPC
ALS Vial : 11 Sample Multiplier: 1

AMS 2/19/20

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 19 09:17:45 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

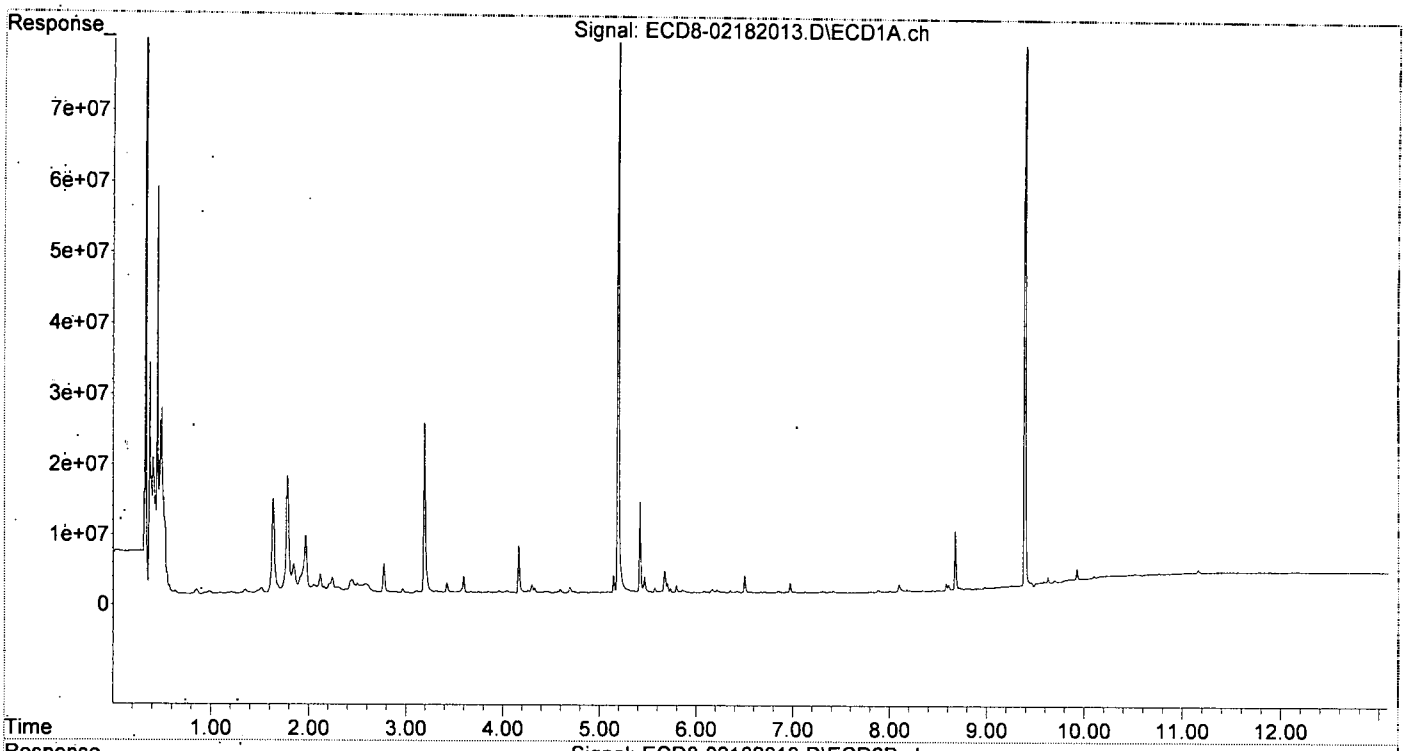
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.189	5.886	111.7E6	115.2E6	31.957	33.409	
22)	S	DCBP (S)	9.390	10.421	130.9E6	111.9E6	49.776	52.047	
		Target Compounds							
2)		a-BHC	5.733	6.500	695895	86666	0.147	0.096	#
3)		g-BHC	6.013	0.000	99528	0	0.024	N.D.	#
4)		b-BHC	6.084	6.884	295545	144182	0.170	0.083	#
5)		Heptachlor	6.427	7.180	303102	81430	0.074	0.019	#
6)		d-BHC	6.264	7.151	180392	140357	0.159	0.138	
7)		Aldrin	6.669	7.460	157894	157350	0.039	0.054	#
8)		Heptachlo...	7.129	7.914f	134939	101695	0.037	0.028	
9)		trans-Chl...	7.223	8.042	75774	358335	0.020	0.096	#
10)		cis-Chlor...	7.309	8.153	209393	560918	0.057	0.159	#
11)		Endosulfa...	7.418	8.153f	323716	560918	0.093	0.170	#
12)		4,4'-DDE	7.379	8.249	115228	384632	0.035	0.212	#
13)		Dieldrin	7.576	8.398	27876	98283	0.007	0.060	#
14)		Endrin	7.728f	8.612	33336	53392	0.010	0.011	
15)		4,4'-DDD	7.810	8.650	84573	34911	0.033	0.058	#
16)		Endosulfa...	7.927	8.740f	81435	159548	0.027	0.030	
17)		4,4'-DDT	8.007	8.873	158376	347528	0.059	0.116	#
18)		Endrin Al...	8.208	8.999	172400	174008	0.065	0.066	
19)		Endosulfa...	8.488	9.204	124639	295663	0.044	0.029	#
20)		Methoxychlor	8.339	9.355	224699	557569	0.186	0.152	
21)		Endrin Ke...	8.676	9.581	8461918	1205189	2.448	0.204	#
23)		Hexachlor...	2.966	3.560f	744425	33127486	0.191	6.842	#
24)		Hexachlor...	5.571	6.369	784468	1238897	0.233	0.377	#
25)		Oxychlordane	7.076	0.000	64265	0	BelowCal	N.D.	
26)		2,4'-DDE	7.129	8.014	134939	116440	0.058	0.051	
27)		trans-Non...	7.309	8.094	209393	115720	0.057	0.032	#
28)		2,4'-DDD	7.523	8.398	75225	98283	0.039	0.051	#
29)		2,4'-DDT	7.681	8.612	55652	53392	0.023	BelowCal	#
30)		cis-Nonac...	7.810f	8.650	84573	34911	0.021	0.009	#
31)		Mirex	8.441	9.581	93857	1205189	8199.090	0.330	#
32)		Chlordane...	7.223	8.042	75774	358335	0.189	0.825	#
33)		Chlordane...	7.309	8.153	209393	560918	0.431	1.543	#
34)		Chlordane...	7.883	8.794	355432	1758918	2.730	14.811	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.309	8.398f	209393	98283	12.792	3.335	#
37)		Toxaphene...	7.600	8.715	28769	189520	0.916	4.716	#
38)		Toxaphene...	7.927	8.740	81435	159548	96752.780	2.466	#
39)		Toxaphene...	8.177f	8.794f	336376	1758918	BelowCal	14.092	
40)		Toxaphene...	8.371	8.999	33203	174008	0.613	3.035	#
41)		Toxaphene...	8.441	9.389	93857	1790388	1.234	27.105	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

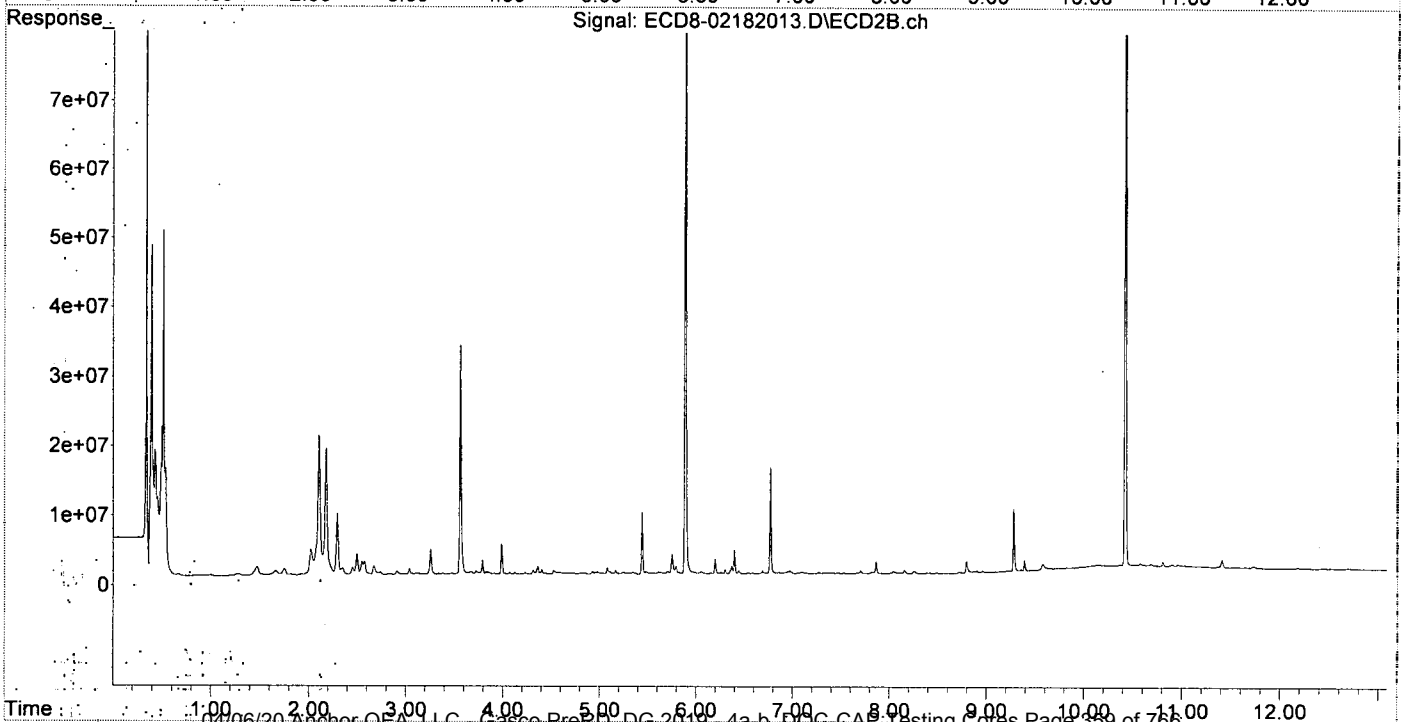
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B18034\
Data File : ECD8-02182013.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Feb 2020 14:40
Operator : MJB
Sample : A0B0411-03RE1
Misc : 1x, 8081B 2,4+4,4-DDX Only, GPC
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 19 09:17:45 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B18034\
Data File : ECD8-02182014.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Feb 2020 14:57
Operator : MJB
Sample : A0B0411-04RE1
Misc : 1x, 8081B 2,4+4,4-DDX Only, GPC
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 19 09:17:49 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

AMS 2/19/20

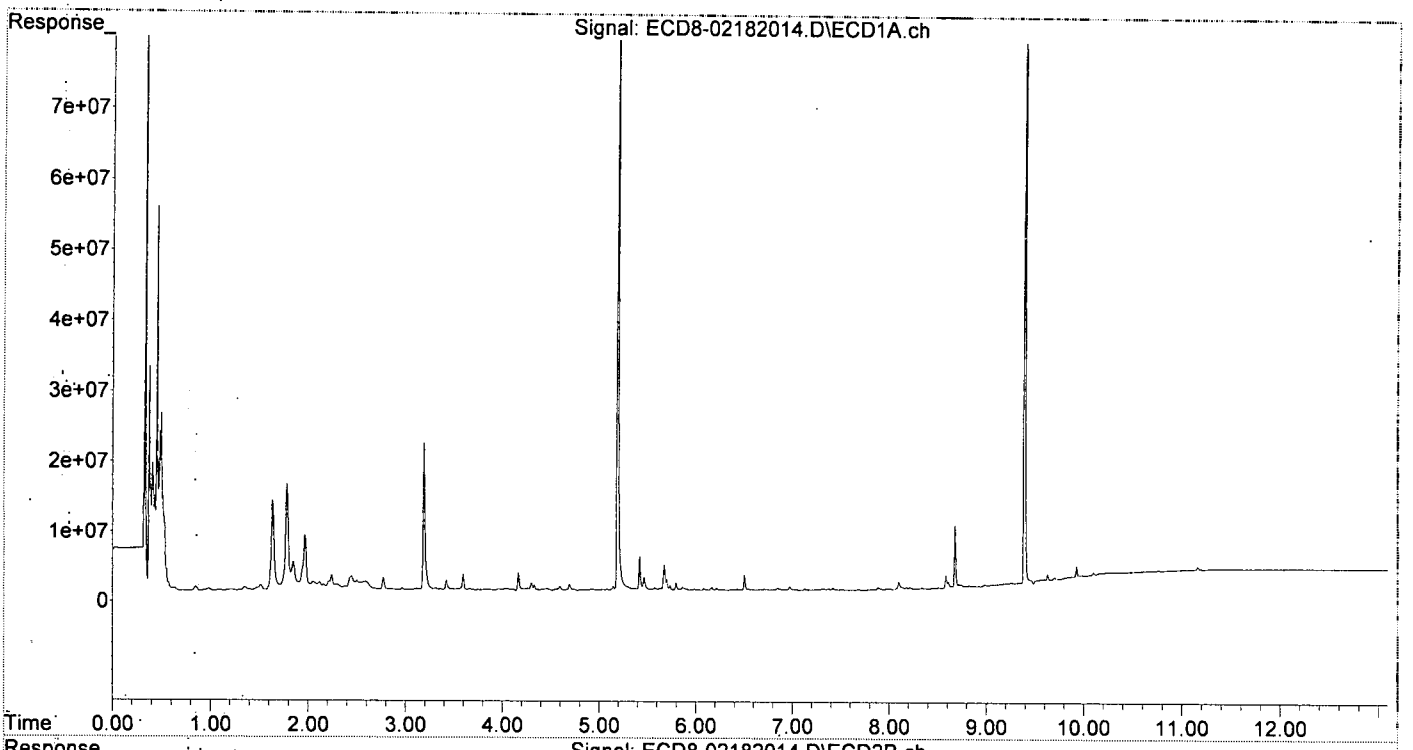
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.190	5.887	92215771	99175730	26.377	28.750	
22)	S	DCBP (S)	9.390	10.421	129.0E6	107.4E6	49.058	50.020	
		Target Compounds							
2)		a-BHC	5.734	6.530f	733003	87204	0.155	0.096	#
3)		g-BHC	6.012	0.000	107697	0	0.026	N.D.	#
4)		b-BHC	6.086	6.861	293324	256228	0.168	0.148	
5)		Heptachlor	6.431	7.214f	163257	96020	0.040	0.023	#
6)		d-BHC	6.244	7.150	115627	141489	0.140	0.138	
7)		Aldrin	6.670	7.462	170270	173964	0.042	0.059	#
8)		Heptachlo...	7.130	7.864f	213774	672886	0.058	0.187	#
9)		trans-Chl...	7.224	8.014	64174	164962	0.017	0.044	#
10)		cis-Chlor...	7.311	8.155	207641	623169	0.057	0.177	#
11)		Endosulfa...	7.419	8.155f	329285	623169	0.095	0.189	#
12)		4,4'-DDE	7.379	8.249	206705	408630	0.062	0.219	#
13)		Dieldrin	7.600	8.386	44427	52198	0.012	0.047	#
14)		Endrin	7.756	8.610	17329	78458	0.005	0.020	#
15)		4,4'-DDD	7.811	8.652	51820	46561	0.020	0.063	#
16)		Endosulfa...	7.885f	8.740f	351781	201925	0.118	0.046	#
17)		4,4'-DDT	8.007	8.873	171868	470150	0.064	0.166	#
18)		Endrin Al...	8.209	8.994	282225	112874	0.107	0.043	#
19)		Endosulfa...	8.487	9.176	78136	159682	0.027	BelowCal	#
20)		Methoxychlor	8.339	9.355	220016	506751	0.182	0.104	#
21)		Endrin Ke...	8.676	9.583	9078781	1272718	2.627	0.228	#
23)		Hexachlor...	2.967	3.560f	344222	28257321	0.088	5.836	#
24)		Hexachlor...	5.572	6.370	420715	1255880	0.125	0.383	#
25)		Oxychlordane	0.000	7.827	0	135712	N.D.	0.042	#
26)		2,4'-DDE	7.130	8.014	213774	164962	0.092	0.073	
27)		trans-Non...	7.311	8.092	207641	122371	0.057	0.034	#
28)		2,4'-DDD	7.525	8.386	88332	52198	0.046	0.027	#
29)		2,4'-DDT	7.682	8.610	118282	78458	0.049	BelowCal	#
30)		cis-Nonac...	7.811f	8.652	51820	46561	0.013	0.012	
31)		Mirex	8.446	9.583	95285	1272718	8199.090	0.363	#
32)		Chlordane...	7.224	8.044	64174	383800	0.160	0.883	#
33)		Chlordane...	7.311	8.155	207641	623169	0.427	1.714	#
34)		Chlordane...	7.885	8.795	351781	1574035	2.702	13.254	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.311	8.386	207641	52198	12.685	1.771	#
37)		Toxaphene...	7.600	8.718	44427	148453	1.414	3.694	#
38)		Toxaphene...	7.885f	8.740	351781	201925	1.838	3.121	#
39)		Toxaphene...	8.177f	8.795f	324076	1574035	BelowCal	12.173	
40)		Toxaphene...	8.378	8.994	31255	112874	0.577	1.969	#
41)		Toxaphene...	8.446	9.389	95285	2580103	1.253	39.061	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

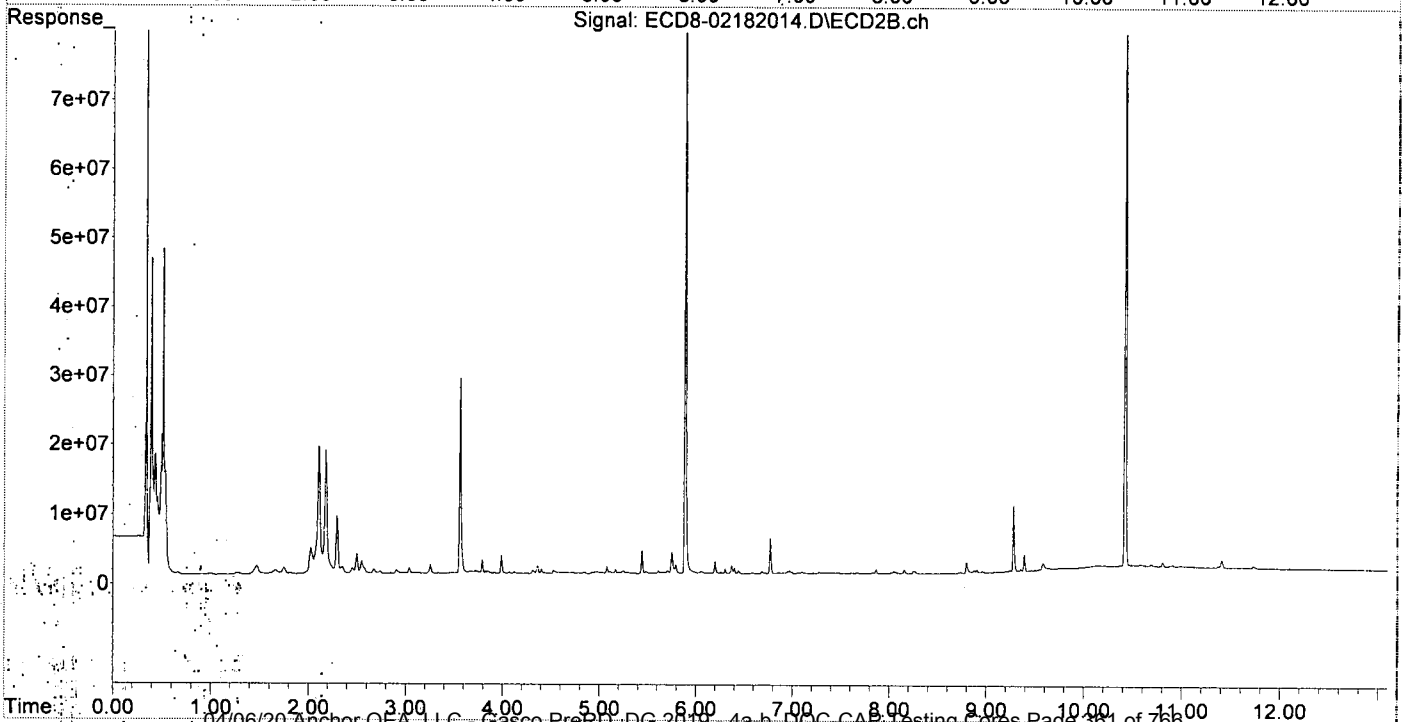
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B18034\
Data File : ECD8-02182014.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Feb 2020 14:57
Operator : MJB
Sample : A0B0411-04RE1
Misc : 1x, 8081B 2,4+4,4-DDX Only, GPC
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 19 09:17:49 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B18034\
Data File : ECD8-02182015.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Feb 2020 15:14
Operator : MJB
Sample : A0B0411-05RE1
Misc : 1x, 8081B 2,4+4,4-DDX Only, GPC
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 19 09:17:53 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

AMS 2/19/20

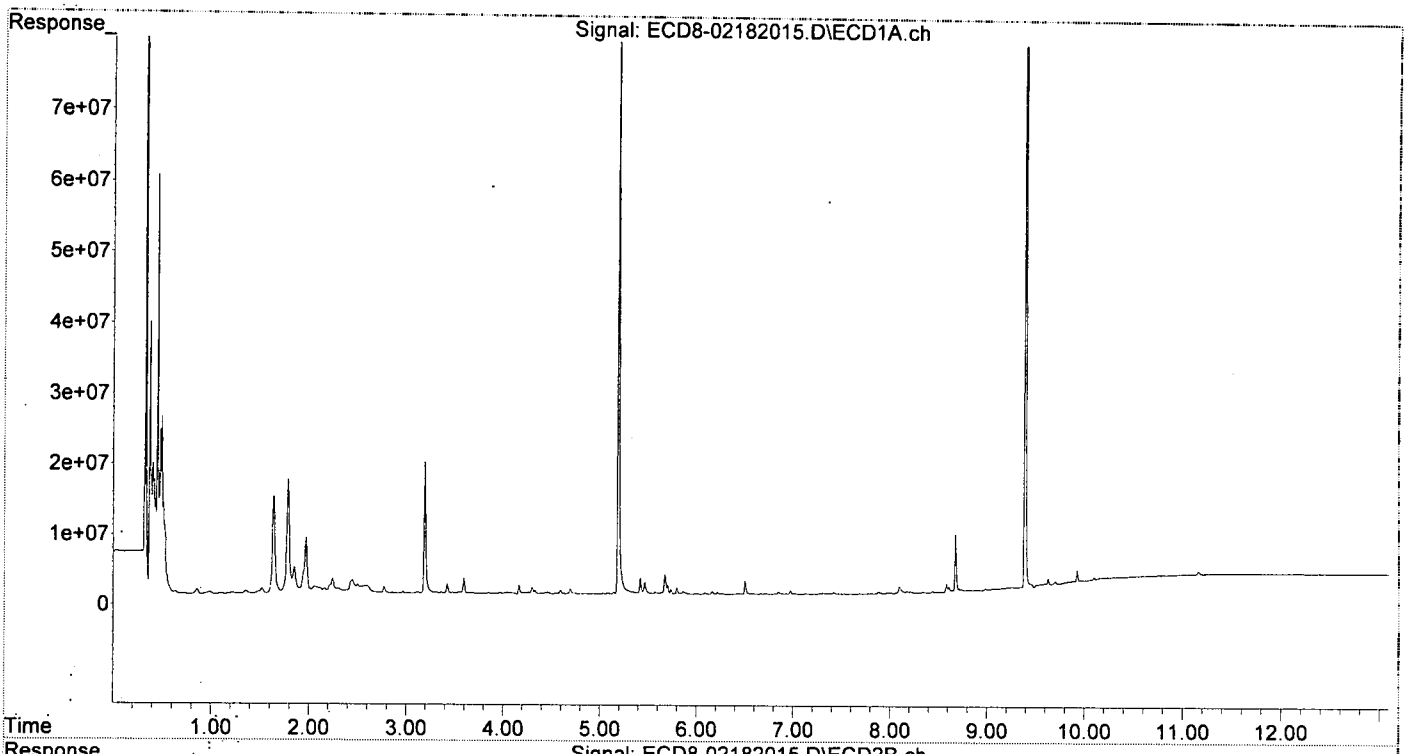
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.189	5.887	85558414	92223084	24.472	26.735	
22)	S	DCBP (S)	9.390	10.421	133.5E6	114.4E6	50.734	53.175	
		Target Compounds							
2)		a-BHC	5.734	6.531f	669817	43993	0.142	0.086	#
3)		g-BHC	6.014	0.000	71249	0	0.017	N.D.	#
4)		b-BHC	6.087	6.860	225838	213478	0.130	0.123	
5)		Heptachlor	6.431	7.219f	114885	57203	0.028	0.014	#
6)		d-BHC	6.264f	7.151	101556	90324	0.136	0.123	
7)		Aldrin	6.669	7.460	140062	131242	0.035	0.047	#
8)		Heptachlo...	7.131	7.863f	107649	663733	0.029	0.185	#
9)		trans-Chl...	7.227	8.016	38950	101276	0.010	0.027	#
10)		cis-Chlor...	7.312	8.121	182457	68256	0.050	0.019	#
11)		Endosulfa...	7.419	8.156f	304974	425517	0.088	0.129	#
12)		4,4'-DDE	7.378	8.249	126415	373575	0.038	0.208	#
13)		Dieldrin	7.585	8.380	58060	18191	0.015	0.037	#
14)		Endrin	7.737	8.615	25091	92578	0.008	0.025	#
15)		4,4'-DDD	7.813	8.652	50457	16323	0.020	0.050	#
16)		Endosulfa...	7.886f	8.763	263551	48386	0.088	BelowCal	#
17)		4,4'-DDT	8.011	8.873	115091	336916	0.043	0.112	#
18)		Endrin Al...	8.210	8.961f	207457	317086	0.079	0.120	#
19)		Endosulfa...	8.489	9.213f	51612	263021	0.018	0.016	
20)		Methoxychlor	8.339	9.355	202620	490155	0.168	0.088	#
21)		Endrin Ke...	8.676	9.583	8154816	1097113	2.359	0.166	#
23)		Hexachlor...	2.966	3.560f	417641	26227046	0.107	5.417	#
24)		Hexachlor...	5.572	6.370	360994	1146633	0.107	0.345	#
25)		Oxychlordane	0.000	7.823	0	121715	N.D.	0.038	#
26)		2,4'-DDE	7.131	8.016	107649	101276	0.047	0.045	
27)		trans-Non...	7.312	8.087	182457	103453	0.050	0.029	#
28)		2,4'-DDD	7.525	8.380	73520	18191	0.038	0.010	#
29)		2,4'-DDT	7.684	8.615	60002	92578	0.025	BelowCal	#
30)		cis-Nonac...	7.781	8.652	80666	16323	0.020	0.004	#
31)		Mirex	8.440	9.583	206226	1097113	8199.044	0.278	#
32)		Chlordane...	7.227	8.045	38950	379238	0.097	0.873	#
33)		Chlordane...	7.312	8.156	182457	425517	0.375	1.170	#
34)		Chlordane...	7.886	8.796	263551	1619321	2.024	13.636	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.312	8.364	182457	22778	11.146	0.773	#
37)		Toxaphene...	7.585	8.719	58060	134759	1.848	3.353	#
38)		Toxaphene...	7.886f	8.763	263551	48386	0.584	0.748	#
39)		Toxaphene...	8.178f	8.796f	348373	1619321	BelowCal	12.644	
40)		Toxaphene...	8.378	8.961f	30620	317086	0.565	5.531	#
41)		Toxaphene...	8.440	9.390	206226	1956028	2.712	29.613	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

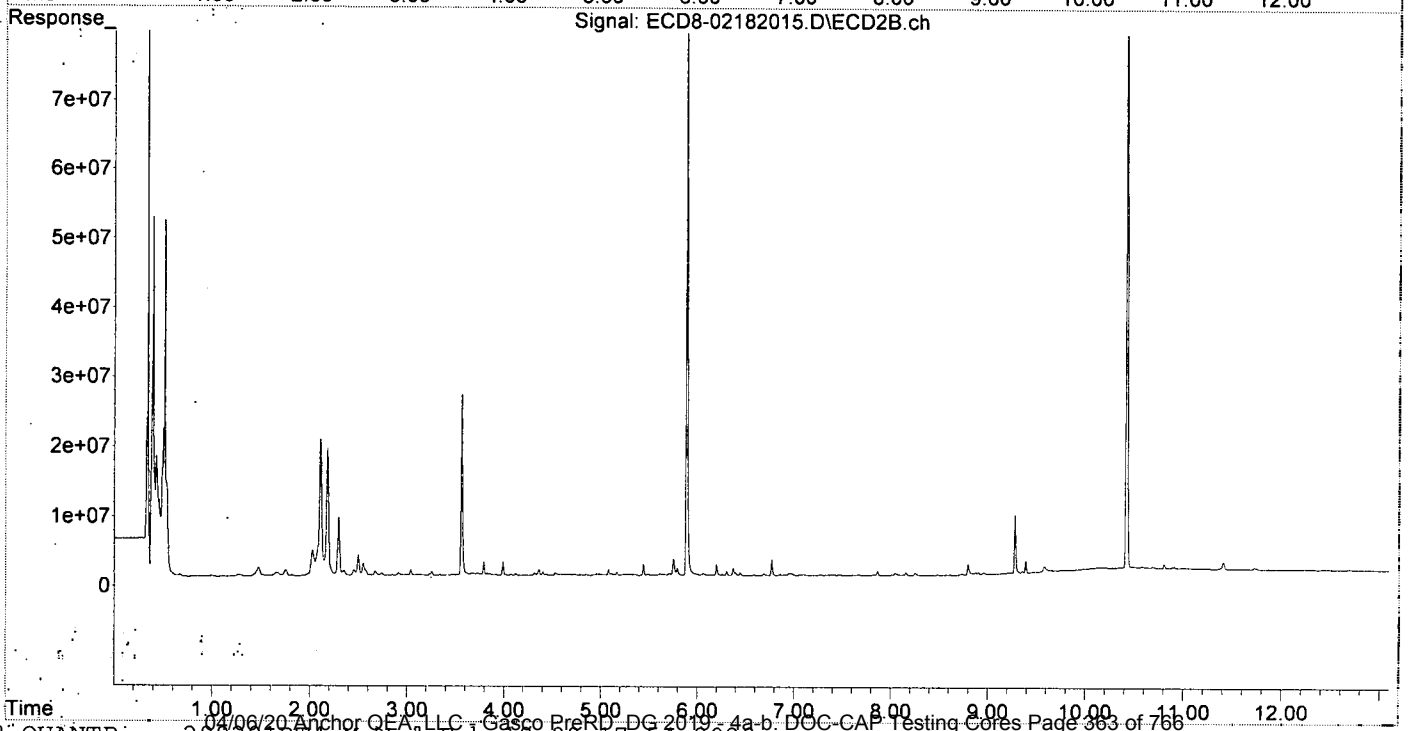
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B18034\
Data File : ECD8-02182015.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Feb 2020 15:14
Operator : MJB
Sample : A0B0411-05RE1
Misc : 1x, 8081B 2,4+4,4-DDX Only, GPC
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 19 09:17:53 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B18034\
Data File : ECD8-02182016.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Feb 2020 15:31
Operator : MJB
Sample : 0020516-MS1
Misc : 1x, 8081B 2,4+4,4-DDX Only, GPC
ALS Vial : 14 Sample Multiplier: 1

AMS 2/19/20

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 19 09:17:57 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

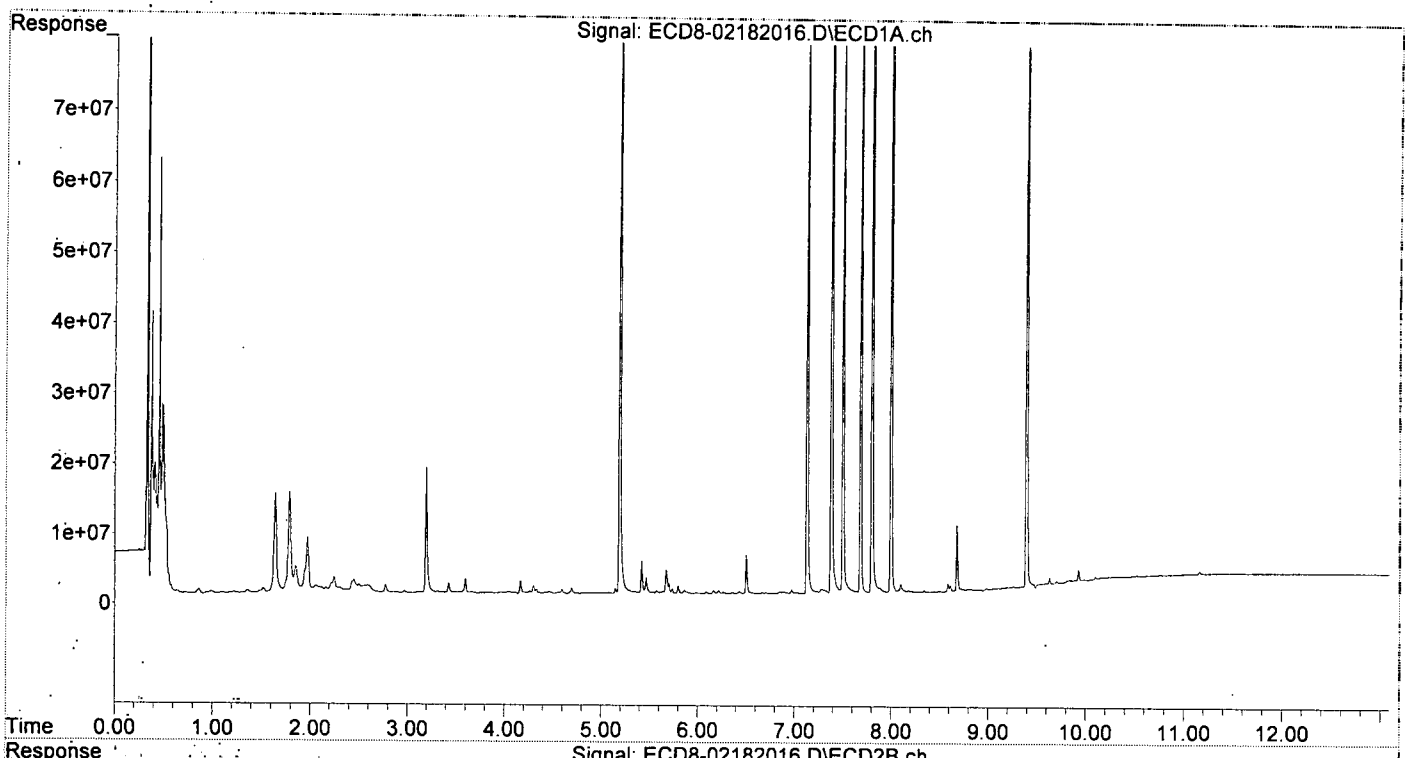
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.190	5.887	107.3E6	119.3E6	30.682	34.586	
22)	S	DCBP (S)	9.390	10.421	134.3E6	112.1E6	51.030	52.129	
		Target Compounds							
2)		a-BHC	5.734	6.530f	742666	56689	0.157	0.089	#
3)		g-BHC	6.013	6.816	83542	134151	0.020	0.076	#
4)		b-BHC	6.085	6.859f	274603	226906	0.158	0.131	
5)		Heptachlor	6.431	7.150f	327976	96095	0.080	0.023	#
6)		d-BHC	6.264f	7.150	306263	96095	0.195	0.125	#
7)		Aldrin	6.668	7.460	174000	136680	0.043	0.049	
8)		Heptachlo...	7.128	7.863f	96142075	760083	26.035	0.212	#
9)		trans-Chl...	7.240	8.014	305321	98979233	0.081	26.619	#
10)		cis-Chlor...	7.282f	8.131	612602	123396	0.167	0.035	#
11)		Endosulfa...	7.379f	8.154f	155.4E6	643265	44.804	0.195	#
12)		4,4'-DDE	7.379	8.235	155.4E6	167.4E6	46.799	49.037	
13)		Dieldrin	0.000	8.387	0	96329320	N.D.	26.530	#
14)		Endrin	0.000	8.610	0	120.2E6	N.D.	39.347	#
15)		4,4'-DDD	7.798	8.651	141.3E6	146.9E6	55.531	54.868	
16)		Endosulfa...	7.882f	8.757	715192	290984	0.239	0.080	#
17)		4,4'-DDT	7.995	8.876	146.4E6	152.4E6	54.442	54.533	
18)		Endrin Al...	8.209	9.000	221294	215264	0.084	0.081	
19)		Endosulfa...	8.487	9.205	172746	235411	0.060	0.005	#
20)		Methoxychlor	8.339	9.355	281950	540661	0.234	0.136	#
21)		Endrin Ke...	8.676	9.583	9495266	1064947	2.747	0.155	#
23)		Hexachlor...	2.967	3.561f	270115	24737117	0.069	5.109	#
24)		Hexachlor...	5.572	6.369	444560	1316554	0.132	0.404	#
25)		Oxychlordane	7.033f	7.814	132659	178821	BelowCal	0.056	
26)		2,4'-DDE	7.128	8.014	96142075	98979233	41.582	43.545	
27)		trans-Non...	7.282f	8.065f	612602	536096	0.167	0.149	
28)		2,4'-DDD	7.499	8.387	93592402	96329320	48.323	50.321	
29)		2,4'-DDT	7.681	8.610	117.0E6	120.2E6	48.898	51.407	
30)		cis-Nonac...	7.798	8.651	141.3E6	146.9E6	34.729	36.860	
31)		Mirex	8.444	9.583	112416	1064947	8199.082	0.262	#
32)		Chlordane...	7.240	8.014	305321	98979233	0.762	227.813	#
33)		Chlordane...	0.000	8.131	0	123396	N.D.	0.339	#
34)		Chlordane...	7.882	8.794	715192	1707003	5.493	14.374	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.282f	8.387	612602	96329320	37.424	3268.840	#
37)		Toxaphene...	0.000	8.713	0	392449	N.D.	9.765	#
38)		Toxaphene...	7.882f	8.757	715192	290984	7.000	4.498	#
39)		Toxaphene...	8.177f	8.794f	381473	1707003	BelowCal	13.554	
40)		Toxaphene...	8.375	9.000	89275	215264	1.647	3.755	#
41)		Toxaphene...	8.444	9.389	112416	1818441	1.478	27.530	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

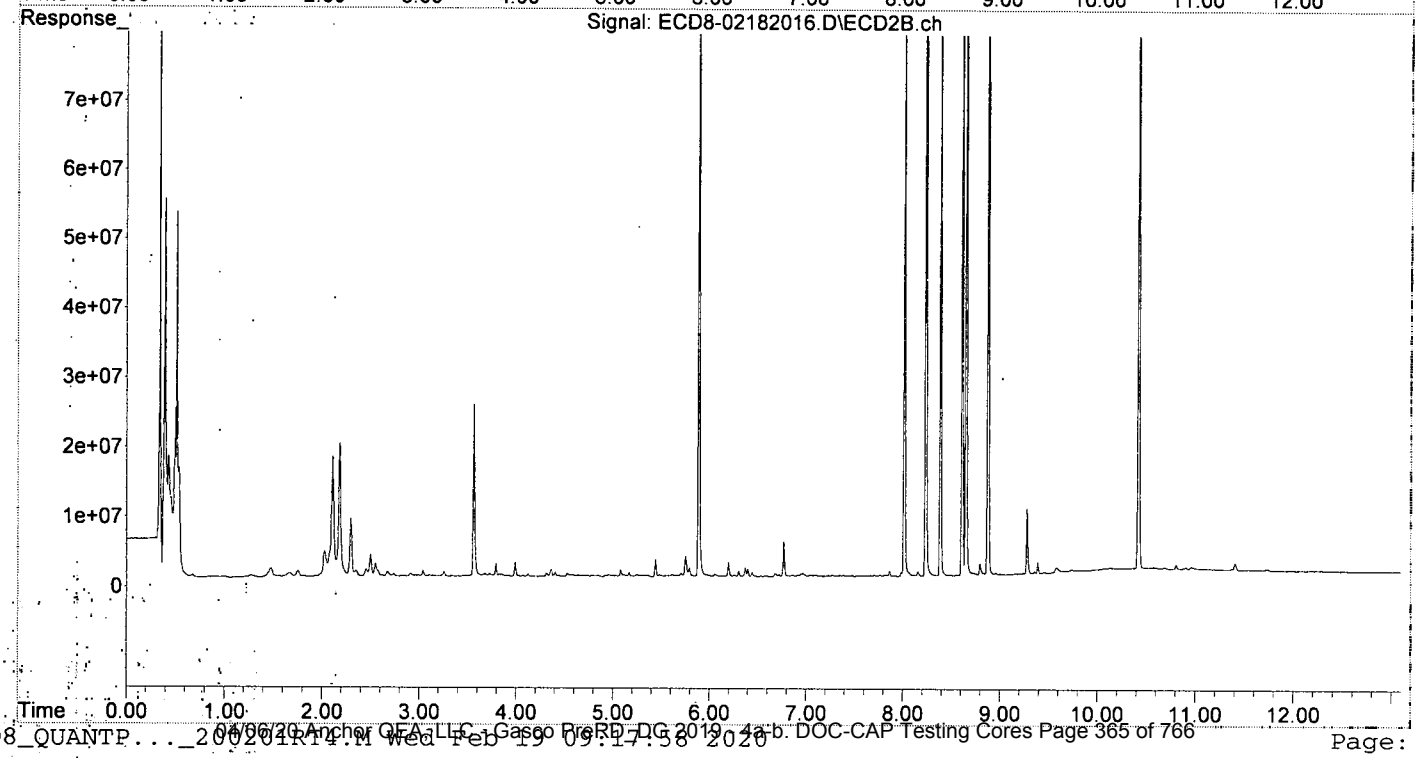
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B18034\
Data File : ECD8-02182016.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Feb 2020 15:31
Operator : MJB
Sample : 0020516-MS1
Misc : 1x, 8081B 2,4+4,4-DDX Only, GPC
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 19 09:17:57 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B18034\
Data File : ECD8-02182017.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Feb 2020 15:48
Operator : MJB
Sample : 0020516-MSD1
Misc : 1x, 8081B 2,4+4,4-DDX Only, GPC
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 19 09:18:01 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

AMS 2/19/20

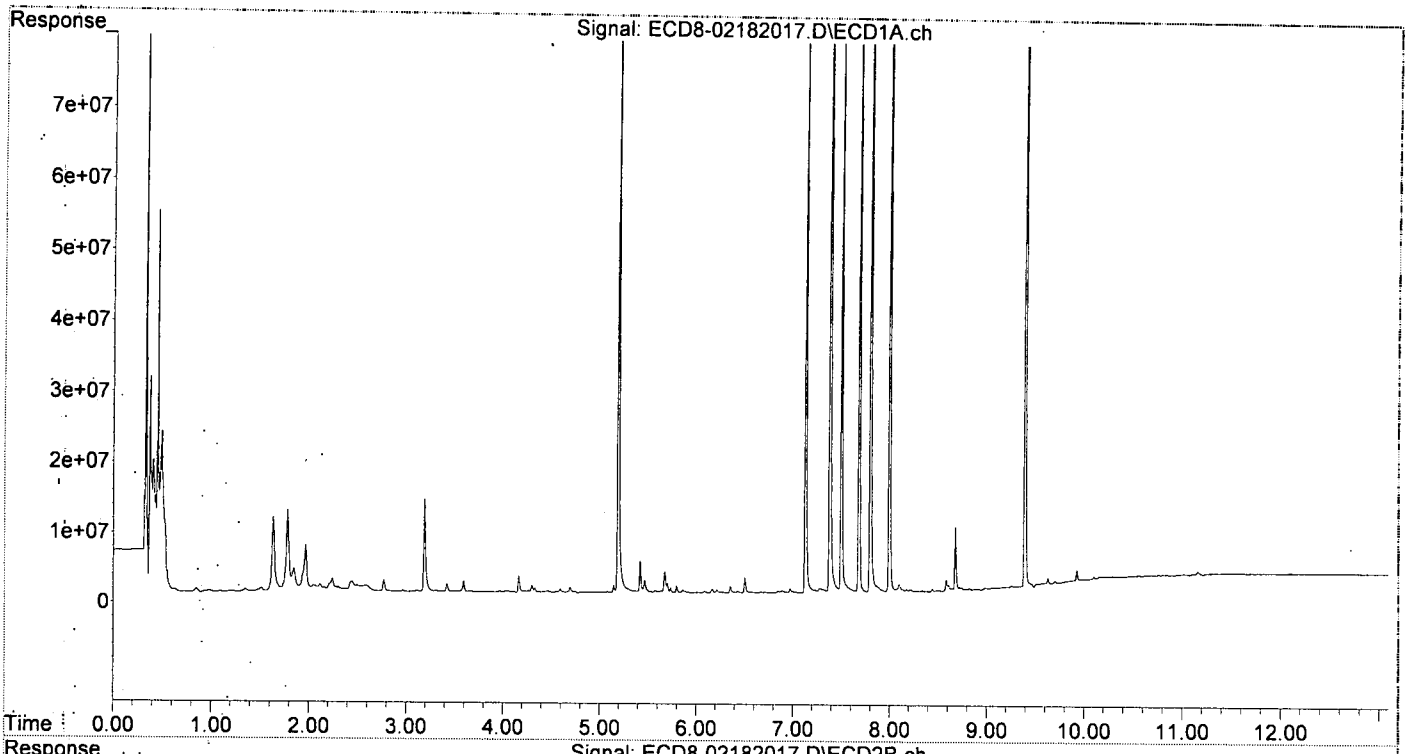
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.189	5.887	91110165	96824563	26.060	28.069	
22)	S	DCBP (S)	9.389	10.420	134.9E6	113.3E6	51.270	52.656	
		Target Compounds							
2)		a-BHC	5.734	6.532f	696927	75533	0.148	0.093	#
3)		g-BHC	6.014	0.000	75027	0	0.018	N.D.	#
4)		b-BHC	6.085	6.861	253035	229790	0.145	0.132	
5)		Heptachlor	6.432	7.175	254073	53901	0.062	0.013	#
6)		d-BHC	6.264	7.150	161300	100547	0.153	0.126	
7)		Aldrin	6.669	7.461	145295	148675	0.036	0.052	#
8)		Heptachlo...	7.128	7.863f	88769636	804633	24.038	0.224	#
9)		trans-Chl...	7.220	8.014	391396	90863303	0.104	24.436	#
10)		cis-Chlor...	0.000	8.155	0	696414	N.D.	0.198	#
11)		Endosulfa...	7.379f	8.155f	143.1E6	696414	41.250	0.211	#
12)		4,4'-DDE	7.379	8.235	143.1E6	150.5E6	43.087	44.473	
13)		Dieldrin	0.000	8.386	0	93984445	N.D.	25.907	#
14)		Endrin	0.000	8.610	0	112.0E6	N.D.	36.782	#
15)		4,4'-DDD	7.797	8.651	132.9E6	141.3E6	52.239	53.006	
16)		Endosulfa...	7.879f	8.759	743951	316544	0.249	0.090	#
17)		4,4'-DDT	7.995	8.876	141.3E6	150.1E6	52.580	53.803	
18)		Endrin Al...	8.210	8.999	327777	172610	0.125	0.065	#
19)		Endosulfa...	8.488	9.210f	142788	247302	0.050	0.010	#
20)		Methoxychlor	8.338	9.355	196183	433822	0.163	0.035	#
21)		Endrin Ke...	8.676	9.584	9124829	1357893	2.640	0.259	#
23)		Hexachlor...	2.966	3.560f	241438	17929375	0.062	3.703	#
24)		Hexachlor...	5.572	6.370	380877	1171425	0.113	0.353	#
25)		Oxychlordane	7.075	7.823	28566	116725	BelowCal	0.036	
26)		2,4'-DDE	7.128	8.014	88769636	90863303	38.394	39.975	
27)		trans-Non...	7.277f	0.000	606913	0	0.166	N.D.	#
28)		2,4'-DDD	7.499	8.386	93827240	93984445	48.445	49.096	
29)		2,4'-DDT	7.681	8.610	110.3E6	112.0E6	46.076	48.139	
30)		cis-Nonac...	7.797	8.651	132.9E6	141.3E6	32.670	35.452	
31)		Mirex	8.439	9.584	370622	1357893	8198.976	0.404	#
32)		Chlordane...	7.239	8.014	354255	90863303	0.885	209.133	#
33)		Chlordane...	0.000	8.155	0	696414	N.D.	1.916	#
34)		Chlordane...	7.879	8.795	743951	1611239	5.714	13.568	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.277f	8.386	606913	93984445	37.076	3189.269	#
37)		Toxaphene...	0.000	8.738f	0	452168	N.D.	11.251	#
38)		Toxaphene...	7.879f	8.759	743951	316544	7.409	4.893	#
39)		Toxaphene...	8.177f	8.795f	373273	1611239	BelowCal	12.560	
40)		Toxaphene...	8.375	8.999	22056	172610	0.407	3.011	#
41)		Toxaphene...	8.439	9.389	370622	2467296	4.873	37.353	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

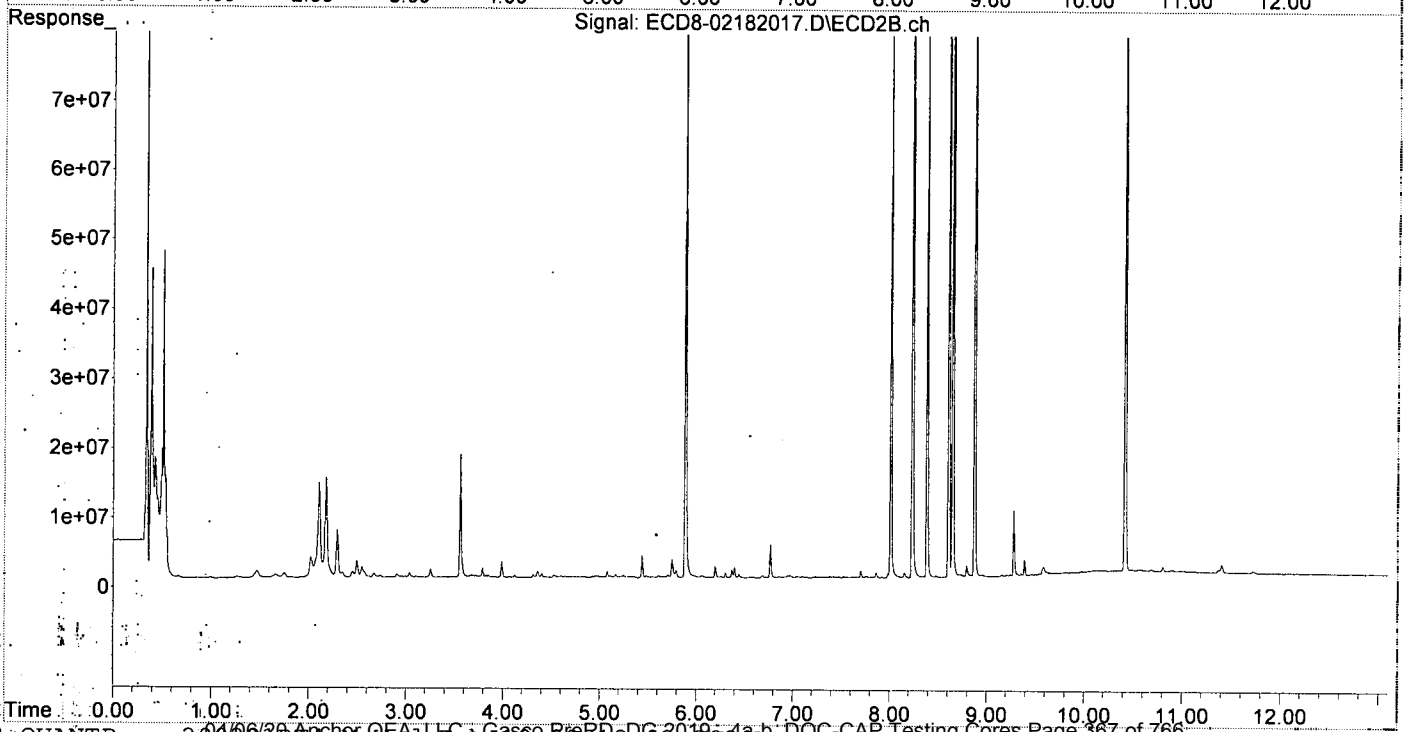
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B18034\
Data File : ECD8-02182017.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Feb 2020 15:48
Operator : MJB
Sample : 0020516-MSD1
Misc : 1x, 8081B 2,4+4,4-DDX Only, GPC
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 19 09:18:01 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B18034\
Data File : ECD8-02182018.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Feb 2020 16:05
Operator : MJB
Sample : 0B18034-CCV3
Misc : A19K134 , AB 100 ppb
ALS Vial : 16 Sample Multiplier: 1

AMS 2/19/20

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 19 09:18:05 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

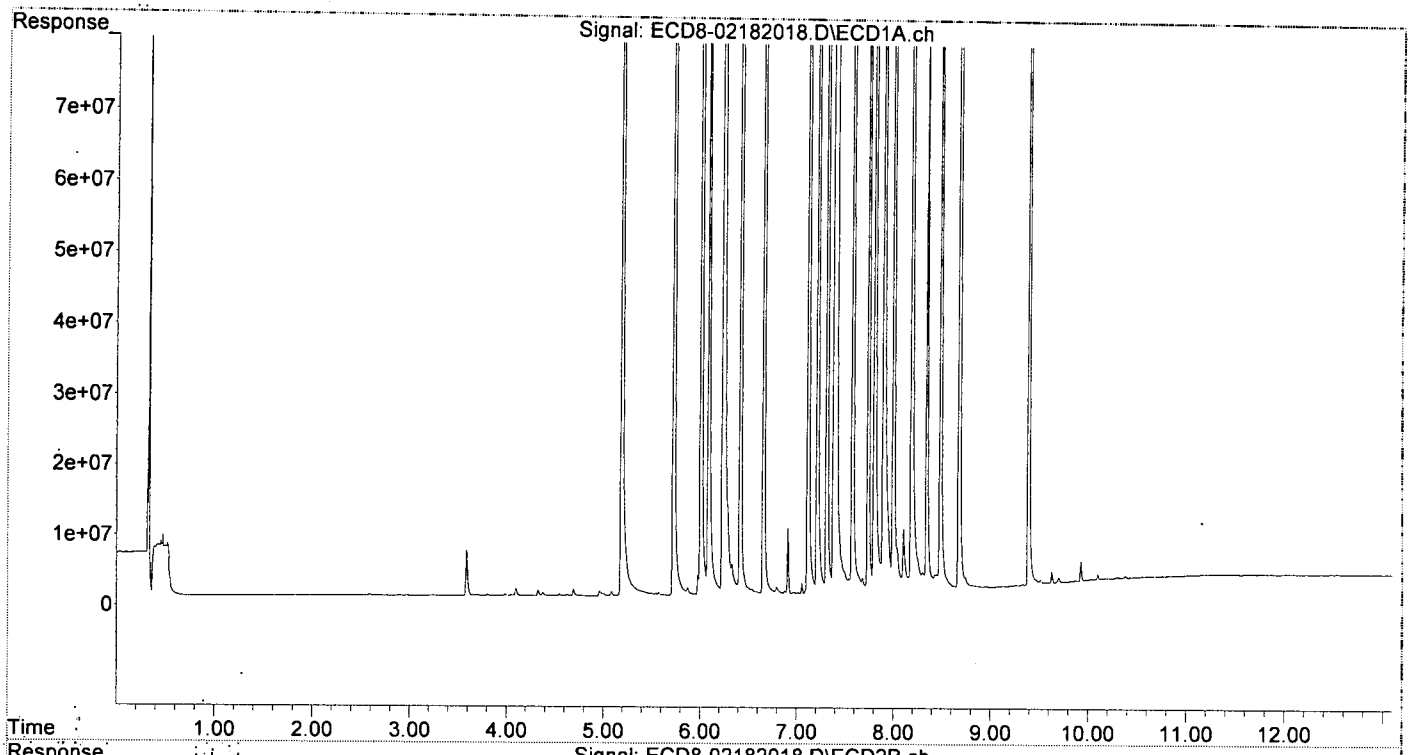
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.190	5.887	287.5E6	336.0E6	82.237	97.404	
22)	S	DCBP (S)	9.392	10.422	260.0E6	230.3E6	97.082	102.372	
		Target Compounds							
2)		a-BHC	5.727	6.490	442.5E6	510.3E6	93.656	100.216	
3)		g-BHC	6.009	6.807	382.6E6	422.6E6	91.907	94.326	
4)		b-BHC	6.087	6.872	134.0E6	154.0E6	76.951	88.699	
5)		Heptachlor	6.418	7.178	384.4E6	420.6E6	93.525	99.887	
6)		d-BHC	6.236	7.127	259.3E6	343.8E6	69.259	83.584	
7)		Aldrin	6.657	7.443	395.3E6	396.4E6	97.830	93.101	
8)		Heptachlo...	7.119	7.881	327.8E6	374.7E6	88.755	104.392	
9)		trans-Chl...	7.214	8.021	344.8E6	380.6E6	91.686	102.344	
10)		cis-Chlor...	7.311	8.128	337.4E6	351.0E6	91.865	99.653	
11)		Endosulfa...	7.405	8.178	332.2E6	335.8E6	95.756	101.602	
12)		4,4'-DDE	7.384	8.237	285.1E6	329.7E6	85.854	89.733	
13)		Dieldrin	7.577	8.379	358.4E6	374.6E6	93.993	94.152	
14)		Endrin	7.739	8.605	266.9E6	308.2E6	81.780	93.164	
15)		4,4'-DDD	7.803	8.653	231.1E6	277.1E6	90.819	94.604	
16)		Endosulfa...	7.898	8.753	205.5E6	290.2E6	68.698	93.970	#
17)		4,4'-DDT	7.999	8.878	250.8E6	305.5E6	93.287	99.285	
18)		Endrin Al...	8.186	8.989	212.6E6	257.8E6	80.736	97.518	
19)		Endosulfa...	8.486	9.180	180.4E6	275.0E6	63.038	93.893	#
20)		Methoxychlor	8.343	9.358	93424844	145.1E6	77.426	107.182	#
21)		Endrin Ke...	8.678	9.579	310.6E6	329.7E6	89.869	98.786	
23)		Hexachlor...	2.982	0.000	8614	0	0.002	N.D.	#
24)		Hexachlor...	5.573	6.348	441868	33041	0.131	BelowCal	#
25)		Oxychlordane	7.056	7.795f	1575391	287097	0.333	0.090	#
26)		2,4'-DDE	7.119f	8.021	327.8E6	380.6E6	141.757	167.424	
27)		trans-Non...	7.311	8.080	337.4E6	1651411	92.018	0.458	#
28)		2,4'-DDD	7.543f	8.379	1874870	374.6E6	0.968	195.689	#
29)		2,4'-DDT	7.684	8.605	1954541	308.2E6	0.817	118.122	#
30)		cis-Nonac...	7.803	8.653	231.1E6	277.1E6	56.797	69.520	
31)		Mirex	8.452	9.579	2077913	329.7E6	0.652	147.433	#
32)		Chlordane...	7.214	8.021	344.8E6	380.6E6	860.944	875.898	
33)		Chlordane...	7.311	8.128	337.4E6	351.0E6	693.676	965.586	#
34)		Chlordane...	7.898f	8.803	205.5E6	2656895	1578.488	22.373	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.311	8.379	337.4E6	374.6E6	20608.793	12711.815	#
37)		Toxaphene...	7.577f	8.753f	358.4E6	290.2E6	11409.400	7220.066	#
38)		Toxaphene...	7.898	8.753	205.5E6	290.2E6	3009.945	4485.052	#
39)		Toxaphene...	8.186f	8.803	212.6E6	2656895	3165.586	23.405	#
40)		Toxaphene...	8.404f	8.989	1832332	257.8E6	33.805	4497.035	#
41)		Toxaphene...	8.452	9.358	2077913	145.1E6	27.322	2196.743	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

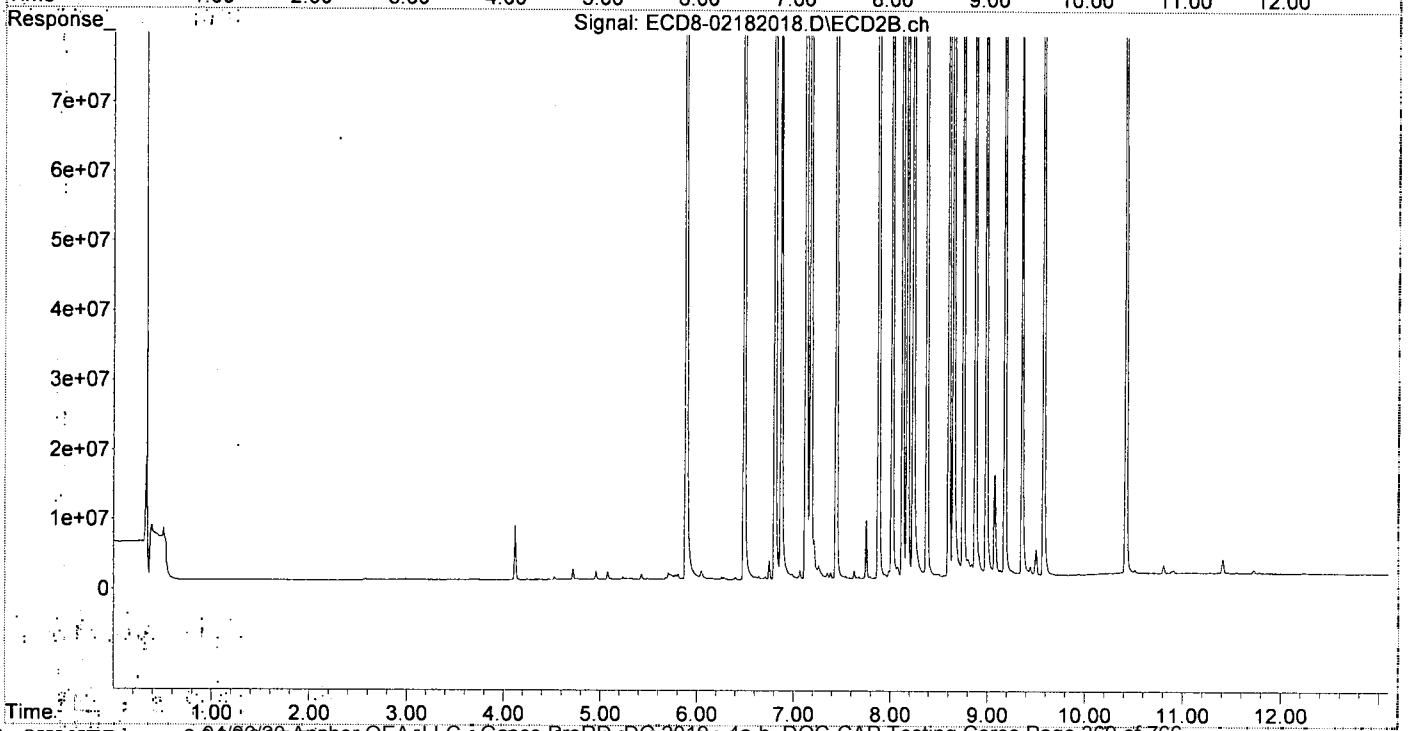
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B18034\
Data File : ECD8-02182018.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Feb 2020 16:05
Operator : MJB
Sample : 0B18034-CCV3
Misc : A19K134 , AB 100 ppb
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 19 09:18:05 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B18034\
Data File : ECD8-02182019.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Feb 2020 16:22
Operator : MJB
Sample : 0B18034-CCV4
Misc : A19409 , 9-42 100 ppb
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 19 09:18:09 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

AMS 2/19/20

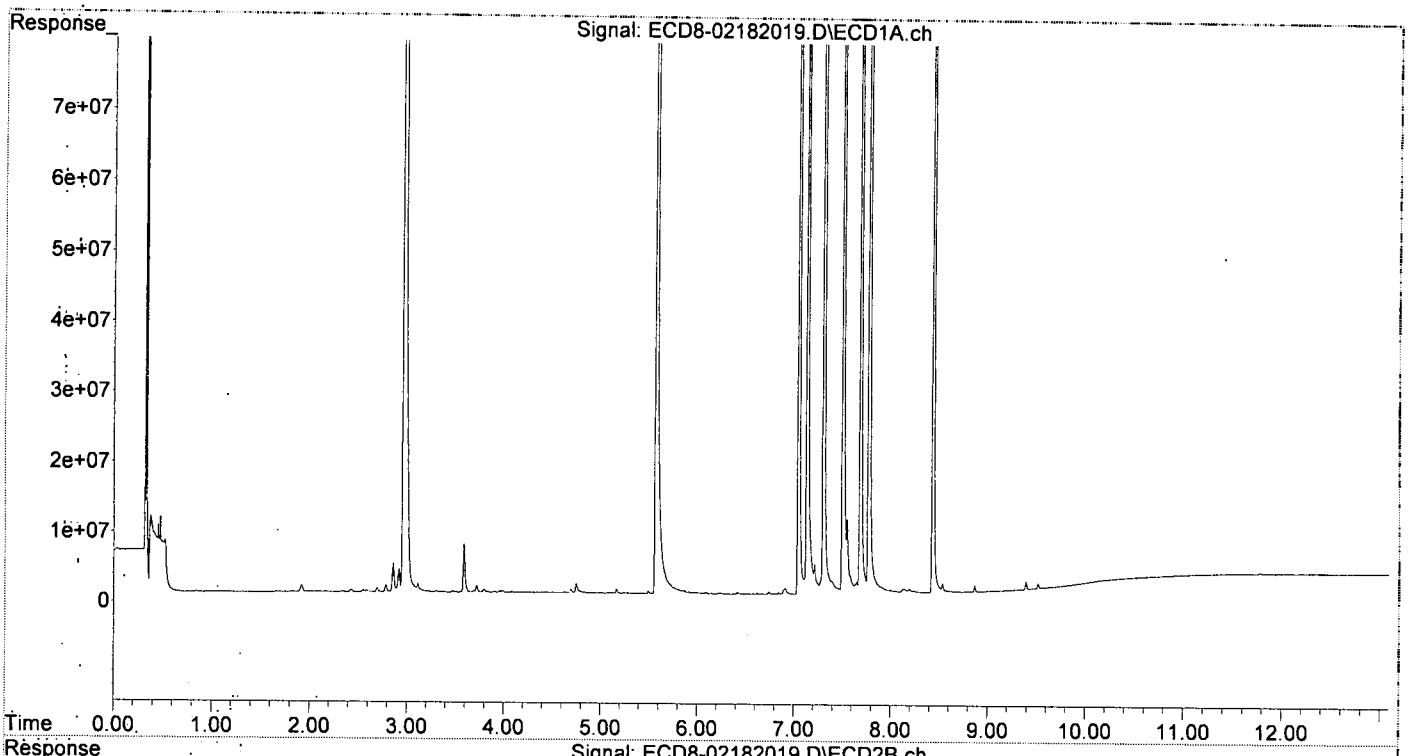
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.166f	5.909	666866	136207	0.191	0.039	#
22)	S	DCBP (S)	9.394	10.423	1220729	1346837	0.143	0.159	
		Target Compounds							
2)		a-BHC	5.753	0.000	923769	0	0.196	N.D.	#
3)		g-BHC	6.007	6.813	174742	54822	0.042	0.056	#
4)		b-BHC	6.090	6.877	227522	115689	0.131	0.067	#
5)		Heptachlor	6.417	7.178	347865	333053	0.085	0.079	
6)		d-BHC	6.221f	7.133	168751	104614	0.155	0.127	
7)		Aldrin	6.659	7.443	43465	51919	0.011	0.026	#
8)		Heptachlo...	7.133	7.879	208.2E6	1114439	56.380	0.310	#
9)		trans-Chl...	7.214	8.016	4229693	232.0E6	1.125	62.399	#
10)		cis-Chlor...	7.304	0.000	344.1E6	0	93.701	N.D.	#
11)		Endosulfa...	7.391f	8.192	1801993	829072	0.519	0.251	#
12)		4,4'-DDE	7.391	8.282f	1801993	250174	0.543	0.169	#
13)		Dieldrin	7.550f	8.389	10597453	195.7E6	2.779	52.000	#
14)		Endrin	7.774f	8.612	395.1E6	259.4E6	121.062	79.927	#
15)		4,4'-DDD	7.774f	8.650	395.1E6	423.2E6	155.247	133.375	
16)		Endosulfa...	7.899	8.736f	973150	842427	0.325	0.289	
17)		4,4'-DDT	8.002	8.879	426094	395111	0.159	0.136	
18)		Endrin Al...	8.197	8.992	579621	203499	0.220	0.077	#
19)		Endosulfa...	8.536f	9.185	1279080	98464	0.447	BelowCal	#
20)		Methoxychlor	0.000	9.364	0	98807	N.D.	BelowCal	
21)		Endrin Ke...	8.683	9.569	106923	239.0E6	0.031	74.405	#
23)		Hexachlor...	2.968	3.586	333.3E6	433.8E6	85.503	89.583	
24)		Hexachlor...	5.570	6.353	297.5E6	326.5E6	88.513	96.876	
25)		Oxychlordane	7.046	7.811	318.9E6	333.2E6	102.118	104.200	
26)		2,4'-DDE	7.133	8.016	208.2E6	232.0E6	90.048	102.077	
27)		trans-Non...	7.304	8.084	344.1E6	375.2E6	93.857	103.937	
28)		2,4'-DDD	7.504	8.389	167.5E6	195.7E6	86.480	102.218	
29)		2,4'-DDT	7.685	8.612	220.9E6	259.4E6	92.291	101.996	
30)		cis-Nonac...	7.774	8.650	395.1E6	423.2E6	97.090	106.203	
31)		Mirex	8.434	9.569	243.2E6	239.0E6	101.476	108.918	
32)		Chlordane...	7.214	8.016	4229693	232.0E6	10.562	534.029	#
33)		Chlordane...	7.304f	0.000	344.1E6	0	707.538	N.D.	#
34)		Chlordane...	7.899f	8.813	973150	1086826	7.474	9.152	
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.304	8.389	344.1E6	195.7E6	21020.623	6639.973	#
37)		Toxaphene...	0.000	8.736	0	842427	N.D.	20.962	#
38)		Toxaphene...	7.899	8.736	973150	842427	10.666	13.021	
39)		Toxaphene...	8.143	8.813	509265	1086826	0.909	7.114	#
40)		Toxaphene...	0.000	8.992	0	203499	N.D.	3.550	#
41)		Toxaphene...	8.434	9.380	243.2E6	93400	3198.112	1.414	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

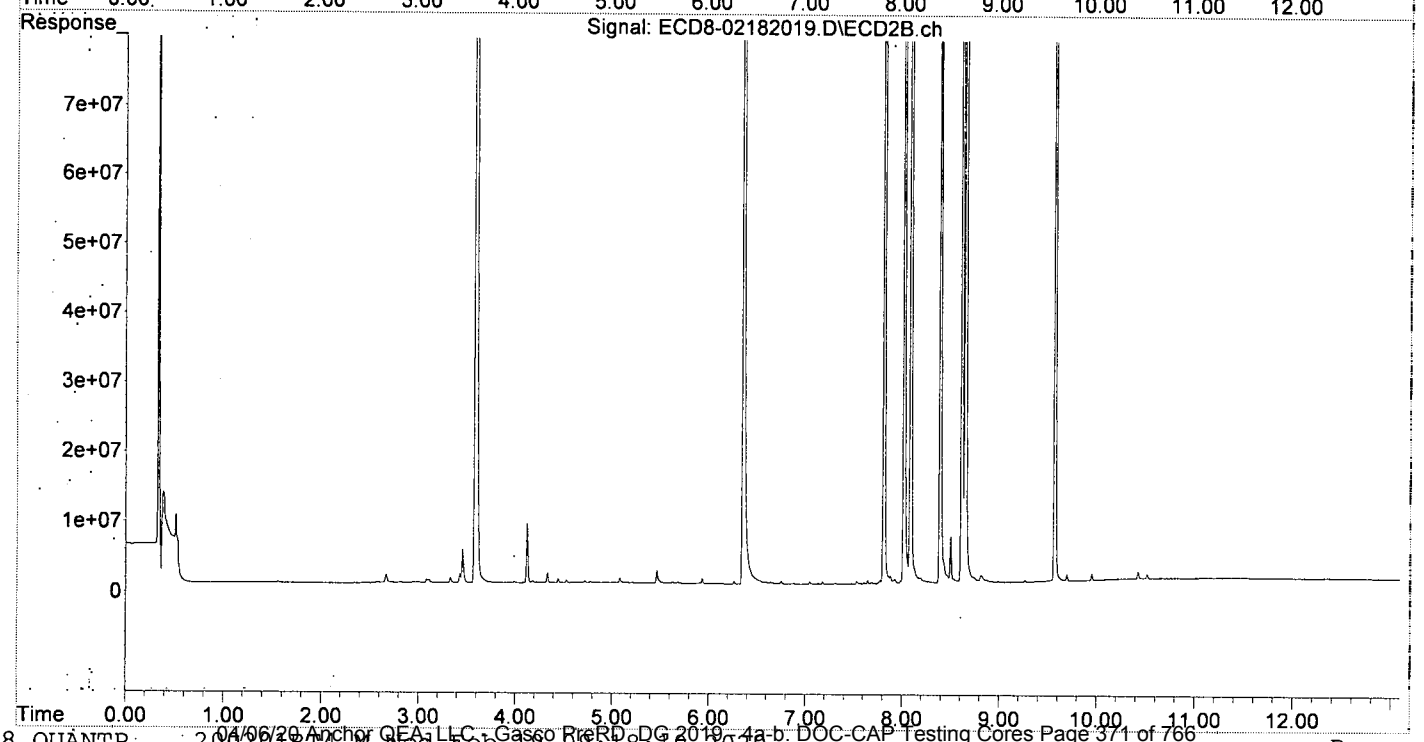
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B18034\
Data File : ECD8-02182019.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Feb 2020 16:22
Operator : MJB
Sample : 0B18034-CCV4
Misc : A19409 , 9-42 100 ppb
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 19 09:18:09 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B18034\
Data File : ECD8-02182020.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Feb 2020 16:38
Operator : MJB
Sample : 0B18034-CCB3
Misc : A20A395
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 19 09:18:13 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

AMS 2/19/20

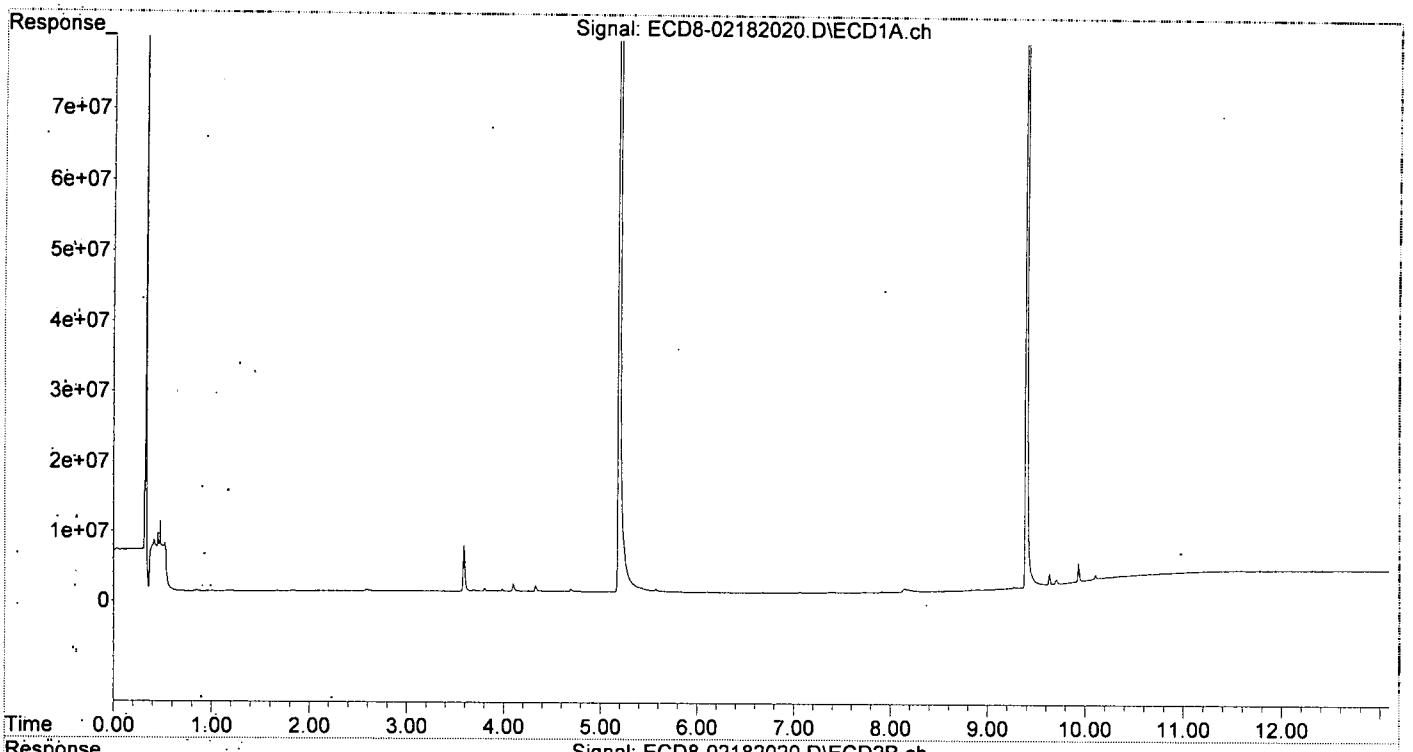
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	5.190	5.888	283.5E6	322.0E6	81.097	93.354
22)	S	DCBP (S)	9.395	10.425	246.8E6	225.0E6	92.343	100.212
		Target Compounds						
2)		a-BHC	0.000	6.470f	0	15417	N.D.	0.079 #
3)		g-BHC	0.000	0.000	0	0	N.D.	N.D.
4)		b-BHC	6.100	6.880	82286	15916	0.047	0.009 #
5)		Heptachlor	0.000	7.185	0	21198	N.D.	0.005 #
6)		d-BHC	0.000	7.142	0	17881	N.D.	0.103 #
7)		Aldrin	6.670	7.479f	17602	38472	0.004	0.022 #
8)		Heptachlo...	7.091f	7.880	13665	13518	0.004	0.004
9)		trans-Chl...	7.223	8.032	28789	58873	0.008	0.016 #
10)		cis-Chlor...	7.323	8.168f	22387	31016	0.006	0.009 #
11)		Endosulfa...	7.406	8.179	22000	28087	0.006	0.008 #
12)		4,4'-DDE	7.394	8.239	32422	12910	0.010	0.092 #
13)		Dieldrin	0.000	8.387	0	16731	N.D.	0.037 #
14)		Endrin	7.777f	8.615	17645	27824	0.005	0.002 #
15)		4,4'-DDD	7.780f	8.655	16922	45951	0.007	0.063 #
16)		Endosulfa...	7.910	8.781	124001	19311	0.041	BelowCal #
17)		4,4'-DDT	8.003	0.000	15084	0	0.006	N.D. #
18)		Endrin Al...	8.175f	8.995	364012	79982	0.138	0.030 #
19)		Endosulfa...	8.495	9.185	33224	29897	0.012	BelowCal #
20)		Methoxychlor	8.353	9.364	38948	35903	0.032	BelowCal #
21)		Endrin Ke...	8.685	9.586	32986	43011	0.010	BelowCal #
23)		Hexachlor...	2.972	3.607	43685	73684	0.011	0.015 #
24)		Hexachlor...	5.574	6.348	448896	54585	0.134	BelowCal #
25)		Oxychlordane	7.066	7.811	102653	28915	BelowCal	0.009
26)		2,4'-DDE	0.000	8.032	0	58873	N.D.	0.026 #
27)		trans-Non...	7.319	8.085	29565	150819	0.008	0.042 #
28)		2,4'-DDD	0.000	8.393	0	15429	N.D.	0.008 #
29)		2,4'-DDT	7.692	8.620	12150	27695	0.005	BelowCal #
30)		cis-Nonac...	7.780	8.655	16922	45951	0.004	0.012 #
31)		Mirex	8.446	9.586	37681	43011	8199.113	BelowCal #
32)		Chlordane...	7.230	8.032	21482	58873	0.054	0.136 #
33)		Chlordane...	7.323	8.168f	22387	31016	0.046	0.085 #
34)		Chlordane...	7.910f	8.818	124001	893090	0.952	7.520 #
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36)		Toxaphene...	7.304	8.387	12629	16731	0.772	0.568 #
37)		Toxaphene...	0.000	8.717	0	17884	N.D.	0.445 #
38)		Toxaphene...	7.910	8.741	124001	200506	96752.175	3.099 #
39)		Toxaphene...	8.147	8.818	470377	893090	0.309	5.101 #
40)		Toxaphene...	8.369	8.995	33998	79982	0.627	1.395 #
41)		Toxaphene...	8.440	9.364	37929	35903	0.499	0.544
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

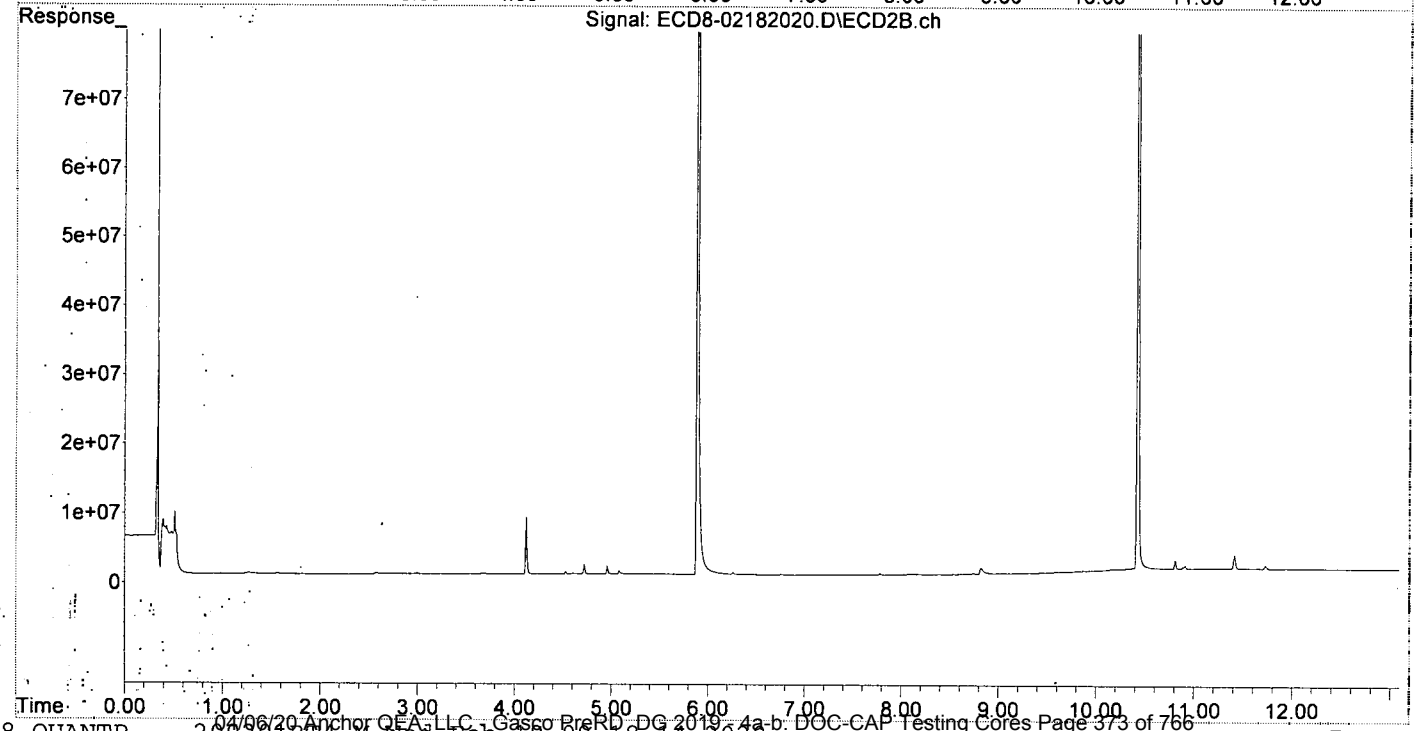
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B18034\
Data File : ECD8-02182020.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Feb 2020 16:38
Operator : MJB
Sample : 0B18034-CCB3
Misc : A20A395
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 19 09:18:13 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





APEX LABORATORIES, LLC
6700 SW Sandburg St. Tigard OR 97223 phone 503-718-2323

Organochloride Pesticides by EPA 8081B
Calibration Data

Sequence 0B01012 (Cal ID A0B0404) DualECD8

ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence: **0B01012** Instrument: **DUALECD8**

Date: **02/01/20 13:45** Calibration: **A0B0404**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0B01012-BKD1	Water	QC	QC				A20A019
2	0B01012-ICB1	Water	QC	QC				A20A395
3	0B01012-CAL1	Water	QC	QC				A20B001
4	0B01012-CAL2	Water	QC	QC				A20B002
5	0B01012-CAL3	Water	QC	QC				A19K128
6	0B01012-CAL4	Water	QC	QC				A19K130
7	0B01012-CAL5	Water	QC	QC				A19K131
8	0B01012-CAL6	Water	QC	QC				A19K132
9	0B01012-CAL7	Water	QC	QC				A19K133
10	0B01012-CAL8	Water	QC	QC				A19K134
11	0B01012-CAL9	Water	QC	QC				A19K126
12	0B01012-IBL1	Water	QC	QC				
13	0B01012-ICV1	Water	QC	QC				A19I209
14	0B01012-CALA	Water	QC	QC				A20B003
15	0B01012-CALB	Water	QC	QC				A19K263
16	0B01012-CALC	Water	QC	QC				A19K264
17	0B01012-CALD	Water	QC	QC				A19K265
18	0B01012-CALE	Water	QC	QC				A19K266
19	0B01012-CALF	Water	QC	QC				A19J407
20	0B01012-CALG	Water	QC	QC				A19J408
21	0B01012-CALH	Water	QC	QC				A19J409
22	0B01012-CALI	Water	QC	QC				A19K262
23	0B01012-IBL2	Water	QC	QC				
24	0B01012-ICV2	Water	QC	QC				A19J410
25	0B01012-CALJ	Water	QC	QC				A20B004
26	0B01012-CALK	Water	QC	QC				A19K307
27	0B01012-CALL	Water	QC	QC				A19K308
28	0B01012-CALM	Water	QC	QC				A19K309
29	0B01012-CALN	Water	QC	QC				A19K310
30	0B01012-CALO	Water	QC	QC				A19K311
31	0B01012-CALP	Water	QC	QC				A19K306
32	0B01012-IBL3	Water	QC	QC				
33	0B01012-ICV3	Water	QC	QC				A19K312
34	0B01012-CALQ	Water	QC	QC				A20B005
35	0B01012-CALR	Water	QC	QC				A19J417
36	0B01012-CALS	Water	QC	QC				A19J418
37	0B01012-CALT	Water	QC	QC				A19J419
38	0B01012-CALU	Water	QC	QC				A19J420
39	0B01012-CALV	Water	QC	QC				A19J421
40	0B01012-CALW	Water	QC	QC				A19J416
41	0B01012-IBL4	Water	QC	QC				
42	0B01012-ICV4	Water	QC	QC				A19J422

Data Entered By: MR 2/4/20

Comments: ±CAL

Data Reviewed By: MR 2/5/20

Calibration Status Report DUALECD8

Method Path : C:\msdchem\1\methods\
Method File : ECD8_QUANTPEST_200201.M
Title : Instrument: DualECD8
Last Update : Mon Feb 03 15:36:51 2020
Response Via : Initial Calibration

A0B0404

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2	2	50	0	C:\msdchem\1\data\2020-02\0B01012\ECD8-02012037.D
3	3	100	0	C:\msdchem\1\data\2020-02\0B01012\ECD8-02012038.D
4	4	200	0	C:\msdchem\1\data\2020-02\0B01012\ECD8-02012039.D
5	5	500	0	C:\msdchem\1\data\2020-02\0B01012\ECD8-02012040.D
6	6	1000	0	C:\msdchem\1\data\2020-02\0B01012\ECD8-02012041.D
7	7	2000	0	C:\msdchem\1\data\2020-02\0B01012\ECD8-02012042.D
8	8	-1	0	C:\msdchem\1\data\2020-02\0B01012\ECD8-02012023.D
9	9	-1	0	C:\msdchem\1\data\2020-02\0B01012\ECD8-02012024.D

MJB 2/3/20

#	ID	Update Time	Quant Time	Acquisition Time
1	1	Feb 03 15:36 2020	Feb 03 15:28 2020	2 Feb 2020 00:08
2	2	Feb 03 15:36 2020	Feb 03 15:29 2020	2 Feb 2020 00:24
3	3	Feb 03 15:36 2020	Feb 03 15:29 2020	2 Feb 2020 00:41
4	4	Feb 03 15:36 2020	Feb 03 15:30 2020	2 Feb 2020 00:58
5	5	Feb 03 15:36 2020	Feb 03 15:27 2020	2 Feb 2020 1:15
6	6	Feb 03 15:36 2020	Feb 03 15:31 2020	2 Feb 2020 1:32
7	7	Feb 03 15:36 2020	Feb 03 15:31 2020	2 Feb 2020 1:48
8	8	Feb 03 15:34 2020	Feb 03 15:20 2020	1 Feb 2020 20:29
9	9	Feb 03 15:34 2020	Feb 03 15:20 2020	1 Feb 2020 20:46

ECD8_QUANTPEST_200201.M Mon Feb 03 17:24:20 2020

Calibration Report DUALECD8

Method Path : C:\msdchem\1\methods\
Method File : ECD8_QUANTPEST_200201.M
Title : Instrument: DualECD8
Last Update : Mon Feb 03 15:36:51 2020
Response Via : Initial Calibration

Calibration Files
1 =ECD8-02012036 2 =ECD8-02012037 3 =ECD8-02012038 4 =ECD8-02012039 5 =ECD8-02

		Compound	Fit	Constant	Linear	Quad	RSD/Cf
1)	S	TCMX (S)	Avg	-----	3.4961 e6	-----	0.0749
2)		a-BHC	Avg	-----	4.7246 e6	-----	0.0457
3)		g-BHC	Avg	-----	4.1634 e6	-----	0.0350
4)		b-BHC	Avg	-----	1.7416 e6	-----	0.0471
5)		Heptachlor	Avg	-----	4.1100 e6	-----	0.0402
6)		d-BHC	Quad	-3.6787 e5	3.4533 e6	4.2814 e3	0.9964
7)		Aldrin	Avg	-----	4.0406 e6	-----	0.0283
8)		Heptachlor Expoxide	Avg	-----	3.6928 e6	-----	0.0542
9)		trans-Chlordane	Avg	-----	3.7605 e6	-----	0.0398
10)		cis-Chlordane	Avg	-----	3.6723 e6	-----	0.0621
11)		Endosulfan I	Avg	-----	3.4687 e6	-----	0.0507
12)		4,4'-DDE	Avg	-----	3.3208 e6	-----	0.0744
13)		Dieldrin	Avg	-----	3.8134 e6	-----	0.0343
14)		Endrin	Avg	-----	3.2636 e6	-----	0.0315
15)		4,4'-DDD	Avg	-----	2.5450 e6	-----	0.0979
16)		Endosulfan II	Avg	-----	2.9916 e6	-----	0.0649
17)		4,4'-DDT	Avg	-----	2.6882 e6	-----	0.0889
18)		Endrin Aldehyde	Avg	-----	2.6327 e6	-----	0.0812
19)		Endosulfan Sulfate	Avg	-----	2.8622 e6	-----	0.0519
20)		Methoxychlor	Avg	-----	1.2066 e6	-----	0.0820
21)		Endrin Ketone	Avg	-----	3.4564 e6	-----	0.0521
22)	S	DCBP (S)	Quad	8.5493 e5	2.5533 e6	1.1956 e3	0.9987
23)		Hexachlorobutadiene	Avg	-----	3.8982 e6	-----	0.0867
24)		Hexachlorobenzene	Avg	-----	3.3616 e6	-----	0.0588
25)		Oxychlordane	Quad	5.5211 e5	3.0698 e6	4.6404 e2	0.9988
26)		2,4'-DDE	Avg	-----	2.3121 e6	-----	0.0585
27)		trans-Nonachlor	Avg	-----	3.6662 e6	-----	0.0810
28)		2,4'-DDD	Avg	-----	1.9368 e6	-----	0.0779
29)		2,4'-DDT	Avg	-----	2.3931 e6	-----	0.0804
30)		cis-Nonachlor	Avg	-----	4.0695 e6	-----	0.0640
31)		Mirex	Quad	5.0001 e5	2.4220 e6	-2.9540 e2	0.9974
32)		Chlordane (1)	Avg	-----	4.0048 e5	-----	0.0330
33)		Chlordane (2)	Avg	-----	4.8633 e5	-----	0.0407
34)		Chlordane (3)	Avg	-----	1.3020 e5	-----	0.0619
35)		Chlordane - AVE	Avg	-----	-----	-----	0.0000
36)		Toxaphene (1)	Avg	-----	1.6369 e4	-----	0.0553
37)		Toxaphene (2)	Avg	-----	3.1415 e4	-----	0.0831
38)		Toxaphene (3)	Quad	2.2243 e5	7.0395 e4	-0.7276	0.9981
39)		Toxaphene (4)	Quad	4.5032 e5	6.4862 e4	0.6759	0.9982
40)		Toxaphene (5)	Avg	-----	5.4202 e4	-----	0.0528
41)		Toxaphene (6)	Avg	-----	7.6054 e4	-----	0.0615
42)		Toxaphene - AVE	Avg	-----	-----	-----	0.0000

MJB 2/3/20

Signal #2

		Compound	Fit	Constant	Linear	Quad	RSD/Cf
1)	S	TCMX (S)	Avg	-----	3.4496 e6	-----	0.0965
2)		a-BHC	Quad	-3.2343 e5	4.2664 e6	8.2745 e3	0.9960
3)		g-BHC	Quad	-1.6434 e5	3.9019 e6	6.1477 e3	0.9964
4)		b-BHC	Avg	-----	1.7361 e6	-----	0.0812
5)		Heptachlor	Avg	-----	4.2108 e6	-----	0.0897
6)		d-BHC	Quad	-3.4135 e5	3.4999 e6	7.3816 e3	0.9930
7)		Aldrin	Quad	-4.5141 e4	3.7409 e6	5.5614 e3	0.9964

8)		Heptachlor Expoxide	Avg	-----	3.5897 e6	-----	0.0770
9)		trans-Chlordane	Avg	-----	3.7184 e6	-----	0.0875
10)		cis-Chlordane	Avg	-----	3.5227 e6	-----	0.0870
11)		Endosulfan I	Avg	-----	3.3050 e6	-----	0.0966
12)		4,4'-DDE	Quad	-2.7421 e5	3.1100 e6	6.3174 e3	0.9963
13)		Dieldrin	Quad	-1.1278 e5	3.5000 e6	5.0969 e3	0.9973
14)		Endrin	Quad	2.1691 e4	2.8712 e6	4.6829 e3	0.9979
15)		4,4'-DDD	Quad	-1.0007 e5	2.3331 e6	6.3054 e3	0.9950
16)		Endosulfan II	Quad	8.0342 e4	2.6351 e6	4.8093 e3	0.9962
17)		4,4'-DDT	Quad	6.2935 e4	2.4488 e6	6.3238 e3	0.9944
18)		Endrin Aldehyde	Avg	-----	2.6437 e6	-----	0.1032
19)		Endosulfan Sulfate	Quad	2.2237 e5	2.4980 e6	4.5656 e3	0.9966
20)		Methoxychlor	Quad	3.9664 e5	1.0572 e6	2.7326 e3	0.9885
21)		Endrin Ketone	Quad	6.2899 e5	2.8167 e6	5.2103 e3	0.9947
22)	S	DCBP (S)	Quad	1.0261 e6	2.0175 e6	2.1659 e3	0.9907
23)		Hexachlorobutadiene	Avg	-----	4.8419 e6	-----	0.0604
24)		Hexachlorobenzene	Quad	1.5728 e5	2.8673 e6	5.1735 e3	0.9980
25)		Oxychlordane	Avg	-----	3.1981 e6	-----	0.0855
26)		2,4'-DDE	Avg	-----	2.2730 e6	-----	0.0865
27)		trans-Nonachlor	Avg	-----	3.6095 e6	-----	0.0771
28)		2,4'-DDD	Avg	-----	1.9143 e6	-----	0.0953
29)		2,4'-DDT	Quad	1.0467 e5	2.1282 e6	4.0612 e3	0.9981
30)		cis-Nonachlor	Avg	-----	3.9852 e6	-----	0.0818
31)		Mirex	Quad	5.2228 e5	2.0685 e6	1.1146 e3	0.9931
32)		Chlordane (1)	Avg	-----	4.3448 e5	-----	0.0655
33)		Chlordane (2)	Avg	-----	3.6356 e5	-----	0.0725
34)		Chlordane (3)	Avg	-----	1.1876 e5	-----	0.0531
35)		Chlordane - AVE	Avg	-----	-----	-----	0.0000
36)		Toxaphene (1)	Avg	-----	2.9469 e4	-----	0.0522
37)		Toxaphene (2)	Avg	-----	4.0189 e4	-----	0.0698
38)		Toxaphene (3)	Avg	-----	6.4696 e4	-----	0.0605
39)		Toxaphene (4)	Quad	4.0242 e5	9.6156 e4	7.1704	0.9972
40)		Toxaphene (5)	Avg	-----	5.7329 e4	-----	0.0545
41)		Toxaphene (6)	Avg	-----	6.6054 e4	-----	0.0754
42)		Toxaphene - AVE	Avg	-----	-----	-----	0.0000

ECD8_QUANTPEST_200201.M Mon Feb 03 17:24:39 2020

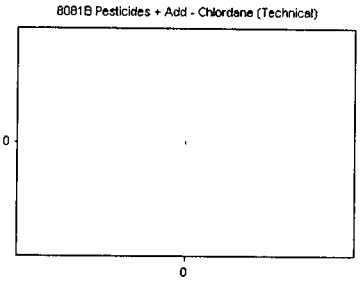
Element Calibration Review Sheet

Calibration ID: **A0B0404** Instrument: **DUALECD8** Calibration Date: **02/04/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD8_QUANTPEST_20020**

Chlordane (Technical)

Curve Fit: **AVERAGE RF**

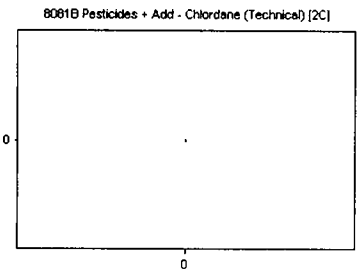


Standard	Concentration	Response	Response Factor	RT
0B01012-CALJ	10	0	0.000	0.00
0B01012-CALK	50	0	0.000	0.00
0B01012-CALL	100	0	0.000	0.00
0B01012-CALM	200	0	0.000	0.00
0B01012-CALN	500	0	0.000	0.00
0B01012-CALO	1000	0	0.000	0.00
0B01012-CALP	2000	0	0.000	0.00

AVE RF **0.000** RF RSD **0.00** AVE RT **0.00**

Chlordane (Technical) [2C]

Curve Fit: **AVERAGE RF**

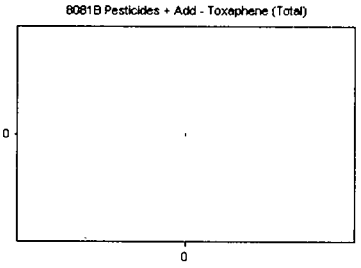


Standard	Concentration	Response	Response Factor	RT
0B01012-CALJ	10	0	0.000	0.00
0B01012-CALK	50	0	0.000	0.00
0B01012-CALL	100	0	0.000	0.00
0B01012-CALM	200	0	0.000	0.00
0B01012-CALN	500	0	0.000	0.00
0B01012-CALO	1000	0	0.000	0.00
0B01012-CALP	2000	0	0.000	0.00

AVE RF **0.000** RF RSD **0.00** AVE RT **0.00**

Toxaphene (Total)

Curve Fit: **AVERAGE RF**

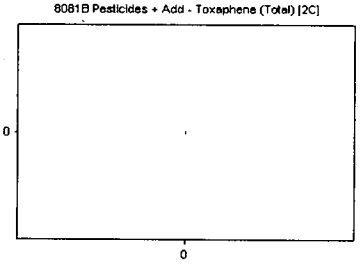


Standard	Concentration	Response	Response Factor	RT
0B01012-CALQ	10	0	0.000	0.00
0B01012-CALR	50	0	0.000	0.00
0B01012-CALS	100	0	0.000	0.00
0B01012-CALT	200	0	0.000	0.00
0B01012-CALU	500	0	0.000	0.00
0B01012-CALV	1000	0	0.000	0.00
0B01012-CALW	2000	0	0.000	0.00

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
0B01012-CALQ	10	0	0.000	0.00
0B01012-CALR	50	0	0.000	0.00
0B01012-CALS	100	0	0.000	0.00
0B01012-CALT	200	0	0.000	0.00
0B01012-CALU	500	0	0.000	0.00
0B01012-CALV	1000	0	0.000	0.00
0B01012-CALW	2000	0	0.000	0.00

AVE RF **0.000** RF RSD **0.00** AVE RT **0.00**

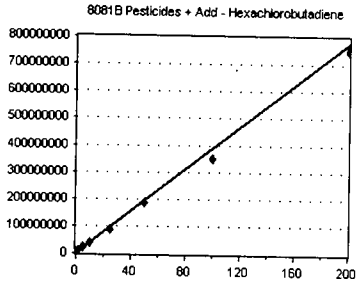
Element Calibration Review Sheet

Calibration ID: **A0B0404** Instrument: **DUALECD8** Calibration Date: **02/04/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD8_QUANTPEST_20020**

Hexachlorobutadiene

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
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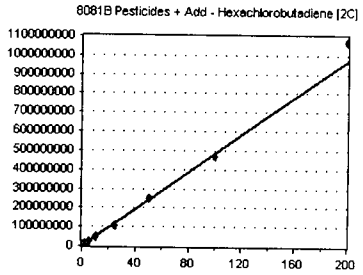
0B01012-CALB	1	4206156	4206156.000	3.08
0B01012-CALC	2	7973044	3986522.000	3.08
0B01012-CALD	5	2.000834E+07	4001668.000	3.08
0B01012-CALE	10	3.837758E+07	3837758.000	3.08
0B01012-CALF	25	8.728258E+07	3491303.000	3.08
0B01012-CALG	50	1.865705E+08	3731410.000	3.08
0B01012-CALH	100	3.510147E+08	3510147.000	3.08
0B01012-CALI	200	7.522633E+08	3761317.000	3.08

AVE RF **3898151.000** RF RSD **8.67** AVE RT **3.08**

Hexachlorobutadiene [2C]

Curve Fit: **AVERAGE RF**

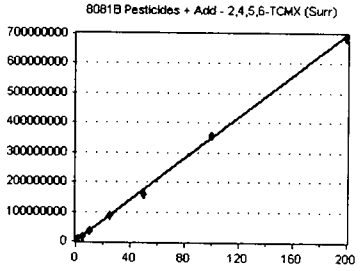


Standard	Concentration	Response	Response Factor	RT
0B01012-CALA	0.5	2594123	5188246.000	3.68
0B01012-CALB	1	4878910	4878910.000	3.68
0B01012-CALC	2	9306742	4653371.000	3.68
0B01012-CALD	5	2.374866E+07	4749732.000	3.68
0B01012-CALE	10	4.708842E+07	4708842.000	3.68
0B01012-CALF	25	1.09599E+08	4383960.000	3.68
0B01012-CALG	50	2.49172E+08	4983440.000	3.68
0B01012-CALH	100	4.690606E+08	4690606.000	3.68
0B01012-CALI	200	1.06808E+09	5340400.000	3.68

AVE RF **4841945.000** RF RSD **6.04** AVE RT **3.68**

2,4,5,6-TCMX (Surr)

Curve Fit: **AVERAGE RF**

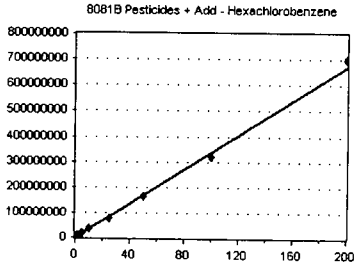


Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	2010387	4020774.000	5.30
0B01012-CAL2	1	3713760	3713760.000	5.30
0B01012-CAL3	2	7209311	3604656.000	5.30
0B01012-CAL4	5	1.60812E+07	3216240.000	5.30
0B01012-CAL5	10	3.30315E+07	3303150.000	5.30
0B01012-CAL6	25	8.582981E+07	3433192.000	5.30
0B01012-CAL7	50	1.601967E+08	3203934.000	5.30
0B01012-CAL8	100	3.554214E+08	3554214.000	5.30
0B01012-CAL9	200	6.830236E+08	3415118.000	5.30

AVE RF **3496115.000** RF RSD **7.49** AVE RT **5.30**

Hexachlorobenzene

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0B01012-CALA	0.5	1894604	3789208.000	5.68
0B01012-CALB	1	3451879	3451879.000	5.68
0B01012-CALC	2	6640927	3320464.000	5.68
0B01012-CALD	5	1.644726E+07	3289452.000	5.68
0B01012-CALE	10	3.26479E+07	3264790.000	5.68
0B01012-CALF	25	7.79427E+07	3117708.000	5.68
0B01012-CALG	50	1.657174E+08	3314348.000	5.68
0B01012-CALH	100	3.205595E+08	3205595.000	5.68
0B01012-CALI	200	7.002122E+08	3501061.000	5.68

AVE RF **3361612.000** RF RSD **5.88** AVE RT **5.68**

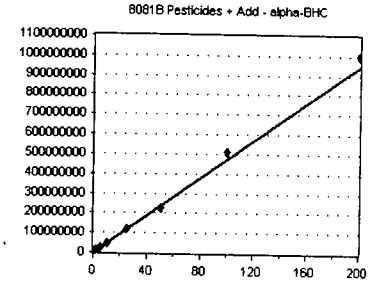
Element Calibration Review Sheet

Calibration ID: **A0B0404** Instrument: **DUALECD8** Calibration Date: **02/04/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD8_QUANTPEST_20020**

alpha-BHC

Curve Fit: **AVERAGE RF**

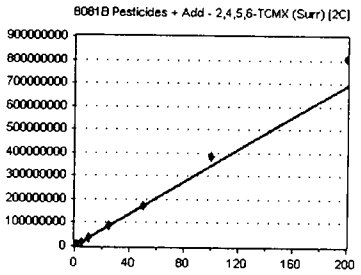


Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	2323532	4647064.000	5.84
0B01012-CAL2	1	4491787	4491787.000	5.84
0B01012-CAL3	2	9150524	4575262.000	5.84
0B01012-CAL4	5	2.346608E+07	4693216.000	5.84
0B01012-CAL5	10	4.655607E+07	4655607.000	5.84
0B01012-CAL6	25	1.216262E+08	4865048.000	5.84
0B01012-CAL7	50	2.248693E+08	4497386.000	5.84
0B01012-CAL8	100	5.093932E+08	5093932.000	5.84
0B01012-CAL9	200	1.00038E+09	5001900.000	5.84

AVE RF **4724578.000** RF RSD **4.57** AVE RT **5.84**

2,4,5,6-TCMX (Surr) [2C]

Curve Fit: **AVERAGE RF**

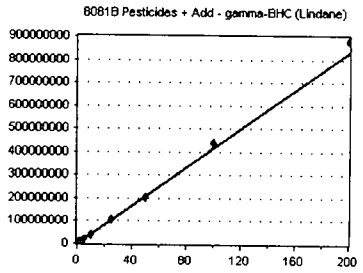


Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	1807457	3614914.000	5.98
0B01012-CAL2	1	3325610	3325610.000	5.98
0B01012-CAL3	2	6464924	3232462.000	5.98
0B01012-CAL4	5	1.503127E+07	3006254.000	5.98
0B01012-CAL5	10	3.1881E+07	3188100.000	5.98
0B01012-CAL6	25	8.514933E+07	3405973.000	5.98
0B01012-CAL7	50	1.682853E+08	3365706.000	5.98
0B01012-CAL8	100	3.864483E+08	3864483.000	5.98
0B01012-CAL9	200	8.08498E+08	4042490.000	5.98

AVE RF **3449555.000** RF RSD **9.65** AVE RT **5.98**

gamma-BHC (Lindane)

Curve Fit: **AVERAGE RF**

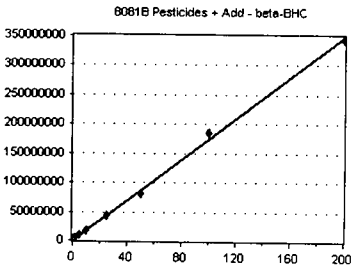


Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	2098226	4196452.000	6.12
0B01012-CAL2	1	3995270	3995270.000	6.12
0B01012-CAL3	2	8103069	4051535.000	6.12
0B01012-CAL4	5	2.061784E+07	4123568.000	6.12
0B01012-CAL5	10	4.042996E+07	4042996.000	6.12
0B01012-CAL6	25	1.057196E+08	4228784.000	6.12
0B01012-CAL7	50	2.032709E+08	4065418.000	6.12
0B01012-CAL8	100	4.359327E+08	4359327.000	6.12
0B01012-CAL9	200	8.814611E+08	4407306.000	6.12

AVE RF **4163406.000** RF RSD **3.50** AVE RT **6.12**

beta-BHC

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	943381	1886762.000	6.20
0B01012-CAL2	1	1736591	1736591.000	6.20
0B01012-CAL3	2	3435299	1717650.000	6.20
0B01012-CAL4	5	8638547	1727709.000	6.20
0B01012-CAL5	10	1.657155E+07	1657155.000	6.20
0B01012-CAL6	25	4.326881E+07	1730752.000	6.20
0B01012-CAL7	50	8.18664E+07	1637328.000	6.20
0B01012-CAL8	100	1.858015E+08	1858015.000	6.20
0B01012-CAL9	200	3.445661E+08	1722831.000	6.20

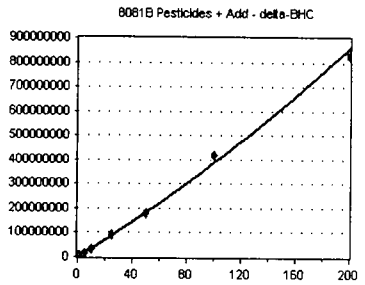
AVE RF **1741644.000** RF RSD **4.71** AVE RT **6.20**

Element Calibration Review Sheet

Calibration ID: **A0B0404** Instrument: **DUALECD8** Calibration Date: **02/04/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD8_QUANTPEST_20020**

delta-BHC

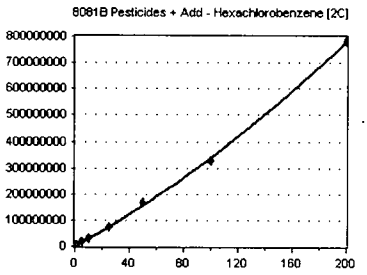


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	1446613	2893226.000	6.35
0B01012-CAL2	1	2800163	2800163.000	6.35
0B01012-CAL3	2	6356662	3178331.000	6.35
0B01012-CAL4	5	1.671825E+07	3343650.000	6.35
0B01012-CAL5	10	3.397214E+07	3397214.000	6.35
0B01012-CAL6	25	9.370087E+07	3748035.000	6.35
0B01012-CAL7	50	1.824065E+08	3648130.000	6.35
0B01012-CAL8	100	4.199344E+08	4199344.000	6.35
0B01012-CAL9	200	8.262515E+08	4131258.000	6.34

AVE RF **3482150.000** RF RSD **14.23** AVE RT **6.35**

Hexachlorobenzene [2C]

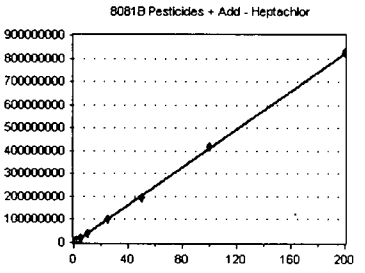


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
0B01012-CALA	0.5	1616133	3232266.000	6.45
0B01012-CALB	1	2946247	2946247.000	6.45
0B01012-CALC	2	5773353	2886677.000	6.45
0B01012-CALD	5	1.541107E+07	3082214.000	6.45
0B01012-CALE	10	2.852539E+07	2852539.000	6.45
0B01012-CALF	25	7.228214E+07	2891286.000	6.45
0B01012-CALG	50	1.685388E+08	3370776.000	6.45
0B01012-CALH	100	3.276458E+08	3276458.000	6.45
0B01012-CALI	200	7.824725E+08	3912363.000	6.45

AVE RF **3161203.000** RF RSD **10.74** AVE RT **6.45**

Heptachlor

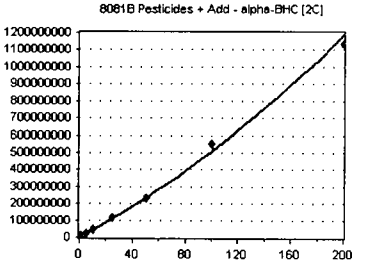


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	2213636	4427272.000	6.53
0B01012-CAL2	1	4223019	4223019.000	6.53
0B01012-CAL3	2	8104217	4052109.000	6.53
0B01012-CAL4	5	2.000274E+07	4000548.000	6.53
0B01012-CAL5	10	3.990009E+07	3990009.000	6.53
0B01012-CAL6	25	1.037632E+08	4150528.000	6.53
0B01012-CAL7	50	1.922788E+08	3845576.000	6.53
0B01012-CAL8	100	4.162827E+08	4162827.000	6.53
0B01012-CAL9	200	8.275412E+08	4137706.000	6.53

AVE RF **4109955.000** RF RSD **4.02** AVE RT **6.53**

alpha-BHC [2C]



Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	1906806	3813612.000	6.59
0B01012-CAL2	1	3754344	3754344.000	6.59
0B01012-CAL3	2	7591226	3795613.000	6.59
0B01012-CAL4	5	2.025052E+07	4050104.000	6.59
0B01012-CAL5	10	4.3487E+07	4348700.000	6.59
0B01012-CAL6	25	1.19197E+08	4767880.000	6.58
0B01012-CAL7	50	2.3331E+08	4666200.000	6.59
0B01012-CAL8	100	5.537284E+08	5537284.000	6.59
0B01012-CAL9	200	1.133362E+09	5666810.000	6.59

AVE RF **4488950.000** RF RSD **16.30** AVE RT **6.58**

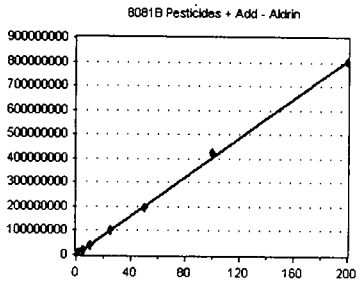
Element Calibration Review Sheet

Calibration ID: **A0B0404** Instrument: **DUALECD8** Calibration Date: **02/04/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD8_QUANTPEST_20020**

Aldrin

Curve Fit: **AVERAGE RF**

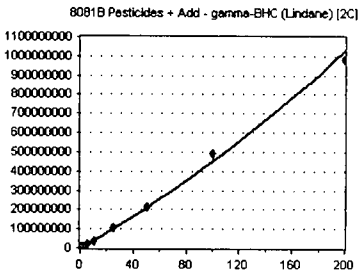


Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	2117773	4235546.000	6.77
0B01012-CAL2	1	4023063	4023063.000	6.77
0B01012-CAL3	2	7878680	3939340.000	6.77
0B01012-CAL4	5	2.002148E+07	4004296.000	6.77
0B01012-CAL5	10	3.955333E+07	3955333.000	6.77
0B01012-CAL6	25	1.019187E+08	4076748.000	6.77
0B01012-CAL7	50	1.954616E+08	3909232.000	6.77
0B01012-CAL8	100	4.209087E+08	4209087.000	6.77
0B01012-CAL9	200	8.024639E+08	4012319.000	6.77

AVE RF **4040552.000** RF RSD **2.83** AVE RT **6.77**

gamma-BHC (Lindane) [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

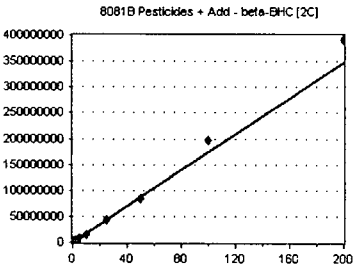


Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	1857818	3715636.000	6.90
0B01012-CAL2	1	3614287	3614287.000	6.90
0B01012-CAL3	2	7144289	3572145.000	6.90
0B01012-CAL4	5	1.890369E+07	3780738.000	6.90
0B01012-CAL5	10	3.851699E+07	3851699.000	6.90
0B01012-CAL6	25	1.078528E+08	4314112.000	6.90
0B01012-CAL7	50	2.118249E+08	4236498.000	6.90
0B01012-CAL8	100	4.912682E+08	4912682.000	6.90
0B01012-CAL9	200	9.803349E+08	4901675.000	6.90

AVE RF **4099941.000** RF RSD **12.77** AVE RT **6.90**

beta-BHC [2C]

Curve Fit: **AVERAGE RF**

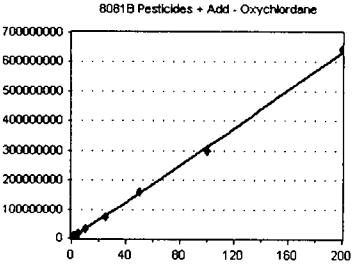


Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	871353	1742706.000	6.97
0B01012-CAL2	1	1672509	1672509.000	6.97
0B01012-CAL3	2	3394908	1697454.000	6.97
0B01012-CAL4	5	7798279	1559656.000	6.97
0B01012-CAL5	10	1.605662E+07	1605662.000	6.97
0B01012-CAL6	25	4.282634E+07	1713054.000	6.97
0B01012-CAL7	50	8.529623E+07	1705925.000	6.97
0B01012-CAL8	100	1.968101E+08	1968101.000	6.97
0B01012-CAL9	200	3.918805E+08	1959403.000	6.97

AVE RF **1736052.000** RF RSD **8.12** AVE RT **6.97**

Oxychlordane

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**



Standard	Concentration	Response	Response Factor	RT
0B01012-CALA	0.5	2078442	4156884.000	7.16
0B01012-CALB	1	3626338	3626338.000	7.16
0B01012-CALC	2	6769962	3384981.000	7.16
0B01012-CALD	5	1.61843E+07	3236860.000	7.16
0B01012-CALE	10	3.1984E+07	3198400.000	7.16
0B01012-CALF	25	7.299099E+07	2919640.000	7.16
0B01012-CALG	50	1.605089E+08	3210178.000	7.16
0B01012-CALH	100	2.998338E+08	2998338.000	7.16
0B01012-CALI	200	6.436567E+08	3218284.000	7.16

AVE RF **3327767.000** RF RSD **11.17** AVE RT **7.16**

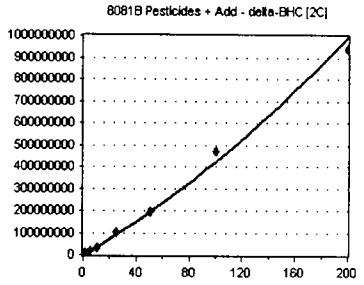
Element Calibration Review Sheet

Calibration ID: **A0B0404** Instrument: **DUALECD8** Calibration Date: **02/04/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD8_QUANTPEST_20020**

delta-BHC [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

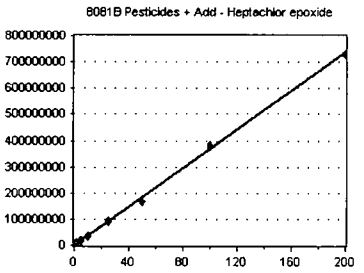


Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	1525163	3050326.000	7.22
0B01012-CAL2	1	2821743	2821743.000	7.22
0B01012-CAL3	2	6360084	3180042.000	7.22
0B01012-CAL4	5	1.628615E+07	3257230.000	7.22
0B01012-CAL5	10	3.455671E+07	3455671.000	7.22
0B01012-CAL6	25	1.009439E+08	4037756.000	7.22
0B01012-CAL7	50	1.92918E+08	3858360.000	7.22
0B01012-CAL8	100	4.722036E+08	4722036.000	7.22
0B01012-CAL9	200	9.396505E+08	4698253.000	7.22

AVE RF **3675713.000** RF RSD **18.98** AVE RT **7.22**

Heptachlor epoxide

Curve Fit: **AVERAGE RF**

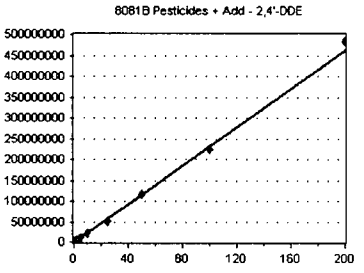


Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	2037408	4074816.000	7.23
0B01012-CAL2	1	3849968	3849968.000	7.23
0B01012-CAL3	2	7310938	3655469.000	7.23
0B01012-CAL4	5	1.821124E+07	3642248.000	7.23
0B01012-CAL5	10	3.556183E+07	3556183.000	7.23
0B01012-CAL6	25	9.060382E+07	3624153.000	7.23
0B01012-CAL7	50	1.681536E+08	3363072.000	7.23
0B01012-CAL8	100	3.806447E+08	3806447.000	7.23
0B01012-CAL9	200	7.32596E+08	3662980.000	7.23

AVE RF **3692815.000** RF RSD **5.42** AVE RT **7.23**

2,4'-DDE

Curve Fit: **AVERAGE RF**

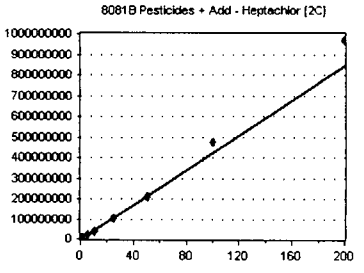


Standard	Concentration	Response	Response Factor	RT
0B01012-CALA	0.5	1290069	2580138.000	7.24
0B01012-CALB	1	2295081	2295081.000	7.24
0B01012-CALC	2	4488919	2244460.000	7.24
0B01012-CALD	5	1.174373E+07	2348746.000	7.24
0B01012-CALE	10	2.280436E+07	2280436.000	7.24
0B01012-CALF	25	5.220238E+07	2088095.000	7.24
0B01012-CALG	50	1.163594E+08	2327188.000	7.24
0B01012-CALH	100	2.230456E+08	2230456.000	7.24
0B01012-CALI	200	4.828511E+08	2414256.000	7.24

AVE RF **2312095.000** RF RSD **5.85** AVE RT **7.24**

Heptachlor [2C]

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	2166906	4333812.000	7.28
0B01012-CAL2	1	4011938	4011938.000	7.28
0B01012-CAL3	2	7612959	3806480.000	7.28
0B01012-CAL4	5	1.937156E+07	3874312.000	7.28
0B01012-CAL5	10	3.874349E+07	3874349.000	7.28
0B01012-CAL6	25	1.044734E+08	4178936.000	7.27
0B01012-CAL7	50	2.108814E+08	4217628.000	7.28
0B01012-CAL8	100	4.769755E+08	4769755.000	7.28
0B01012-CAL9	200	9.660228E+08	4830114.000	7.28

AVE RF **4210814.000** RF RSD **8.97** AVE RT **7.28**

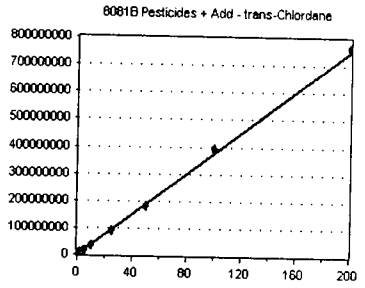
Element Calibration Review Sheet

Calibration ID: **A0B0404** Instrument: **DUALECD8** Calibration Date: **02/04/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD8_QUANTPEST_20020**

trans-Chlordane

Curve Fit: **AVERAGE RF**

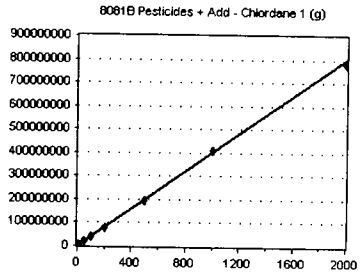


Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	2006872	4013744.000	7.33
0B01012-CAL2	1	3865919	3865919.000	7.33
0B01012-CAL3	2	7233767	3616884.000	7.33
0B01012-CAL4	5	1.816404E+07	3632808.000	7.33
0B01012-CAL5	10	3.64511E+07	3645110.000	7.33
0B01012-CAL6	25	9.234463E+07	3693785.000	7.33
0B01012-CAL7	50	1.813409E+08	3626818.000	7.33
0B01012-CAL8	100	3.927507E+08	3927507.000	7.33
0B01012-CAL9	200	7.644719E+08	3822359.000	7.33

AVE RF **3760548.000** RF RSD **3.98** AVE RT **7.33**

Chlordane 1 (g)

Curve Fit: **AVERAGE RF**

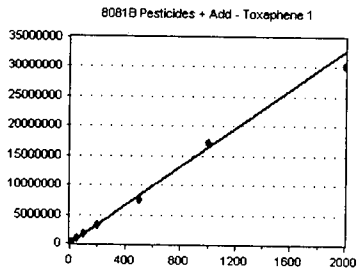


Standard	Concentration	Response	Response Factor	RT
0B01012-CALJ	10	4222162	422216.200	7.33
0B01012-CALK	50	1.933186E+07	386637.200	7.33
0B01012-CALL	100	4.098202E+07	409820.200	7.33
0B01012-CALM	200	7.983398E+07	399169.900	7.33
0B01012-CALN	500	1.942334E+08	388466.800	7.33
0B01012-CALO	1000	4.070686E+08	407068.600	7.33
0B01012-CALP	2000	7.799603E+08	389980.200	7.33

AVE RF **400479.900** RF RSD **3.30** AVE RT **7.33**

Toxaphene 1

Curve Fit: **AVERAGE RF**

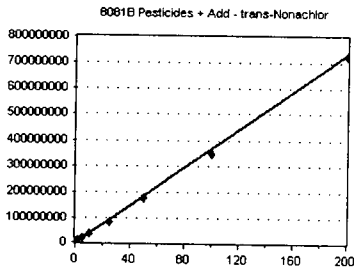


Standard	Concentration	Response	Response Factor	RT
0B01012-CALQ	10	169507	16950.700	7.40
0B01012-CALR	50	862137	17242.740	7.40
0B01012-CALS	100	1687426	16874.260	7.40
0B01012-CALT	200	3210991	16054.960	7.40
0B01012-CALU	500	7624274	15248.550	7.40
0B01012-CALV	1000	1.712611E+07	17126.110	7.40
0B01012-CALW	2000	3.017711E+07	15088.550	7.40

AVE RF **16369.410** RF RSD **5.53** AVE RT **7.40**

trans-Nonachlor

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0B01012-CALA	0.5	2168811	4337622.000	7.42
0B01012-CALB	1	3768972	3768972.000	7.42
0B01012-CALC	2	7569675	3784838.000	7.42
0B01012-CALD	5	1.811565E+07	3623130.000	7.42
0B01012-CALE	10	3.588315E+07	3588315.000	7.42
0B01012-CALF	25	8.181254E+07	3272502.000	7.42
0B01012-CALG	50	1.770198E+08	3540396.000	7.42
0B01012-CALH	100	3.439997E+08	3439997.000	7.42
0B01012-CALI	200	7.279732E+08	3639866.000	7.42

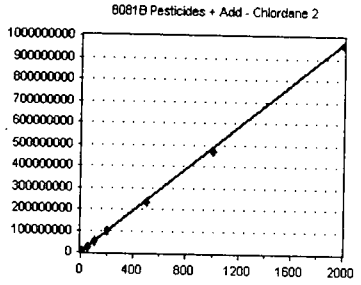
AVE RF **3666182.000** RF RSD **8.10** AVE RT **7.42**

Element Calibration Review Sheet

Calibration ID: **A0B0404** Instrument: **DUALECD8** Calibration Date: **02/04/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD8_QUANTPEST_20020**

Chlordane 2

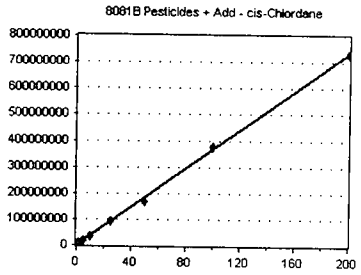


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0B01012-CALJ	10	5231315	523131.500	7.42
0B01012-CALK	50	2.384606E+07	476921.200	7.42
0B01012-CALL	100	5.006864E+07	500686.400	7.42
0B01012-CALM	200	9.74708E+07	487354.000	7.42
0B01012-CALN	500	2.341804E+08	468360.800	7.42
0B01012-CALO	1000	4.679568E+08	467956.800	7.42
0B01012-CALP	2000	9.597665E+08	479883.300	7.42

AVE RF **486327.700** RF RSD **4.07** AVE RT **7.42**

cis-Chlordane

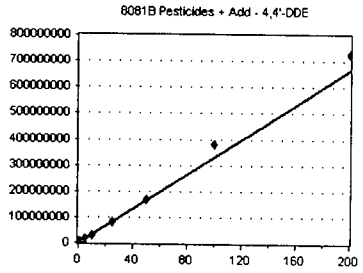


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	2072536	4145072.000	7.42
0B01012-CAL2	1	3812238	3812238.000	7.42
0B01012-CAL3	2	7290278	3645139.000	7.42
0B01012-CAL4	5	1.789437E+07	3578874.000	7.42
0B01012-CAL5	10	3.456932E+07	3456932.000	7.42
0B01012-CAL6	25	9.101382E+07	3640553.000	7.42
0B01012-CAL7	50	1.6742E+08	3348400.000	7.42
0B01012-CAL8	100	3.774805E+08	3774805.000	7.42
0B01012-CAL9	200	7.29671E+08	3648355.000	7.42

AVE RF **3672263.000** RF RSD **6.21** AVE RT **7.42**

4,4'-DDE

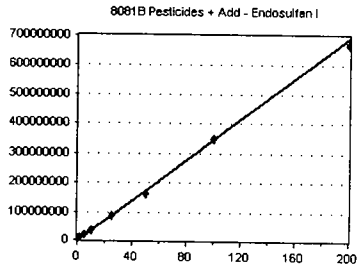


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	1628951	3257902.000	7.49
0B01012-CAL2	1	2976091	2976091.000	7.49
0B01012-CAL3	2	6364080	3182040.000	7.49
0B01012-CAL4	5	1.590245E+07	3180490.000	7.49
0B01012-CAL5	10	3.207276E+07	3207276.000	7.49
0B01012-CAL6	25	8.267964E+07	3307186.000	7.49
0B01012-CAL7	50	1.680016E+08	3360032.000	7.49
0B01012-CAL8	100	3.787441E+08	3787441.000	7.49
0B01012-CAL9	200	7.257395E+08	3628698.000	7.49

AVE RF **3320795.000** RF RSD **7.44** AVE RT **7.49**

Endosulfan I



Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	1932337	3864674.000	7.52
0B01012-CAL2	1	3593891	3593891.000	7.52
0B01012-CAL3	2	6684329	3342165.000	7.52
0B01012-CAL4	5	1.70331E+07	3406620.000	7.52
0B01012-CAL5	10	3.474804E+07	3474804.000	7.52
0B01012-CAL6	25	8.544442E+07	3417777.000	7.52
0B01012-CAL7	50	1.639408E+08	3278816.000	7.52
0B01012-CAL8	100	3.494908E+08	3494908.000	7.52
0B01012-CAL9	200	6.689564E+08	3344782.000	7.52

AVE RF **3468715.000** RF RSD **5.07** AVE RT **7.52**

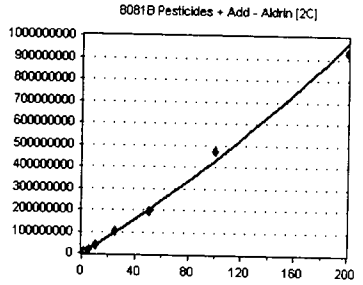
Element Calibration Review Sheet

Calibration ID: **A0B0404** Instrument: **DUALECD8** Calibration Date: **02/04/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD8_QUANTPEST_20020**

Aldrin [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

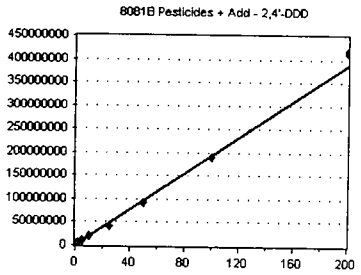


Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	1887335	3774670.000	7.54
0B01012-CAL2	1	3540234	3540234.000	7.54
0B01012-CAL3	2	7212786	3606393.000	7.54
0B01012-CAL4	5	1.826029E+07	3652058.000	7.54
0B01012-CAL5	10	3.695242E+07	3695242.000	7.54
0B01012-CAL6	25	1.033046E+08	4132184.000	7.54
0B01012-CAL7	50	1.958379E+08	3916758.000	7.54
0B01012-CAL8	100	4.720136E+08	4720136.000	7.54
0B01012-CAL9	200	9.288088E+08	4644044.000	7.54

AVE RF **3964635.000** RF RSD **11.20** AVE RT **7.54**

2,4'-DDD

Curve Fit: **AVERAGE RF**

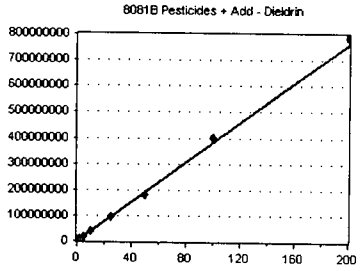


Standard	Concentration	Response	Response Factor	RT
0B01012-CALA	0.5	1111537	2223074.000	7.62
0B01012-CALB	1	1934222	1934222.000	7.61
0B01012-CALC	2	3838920	1919460.000	7.61
0B01012-CALD	5	9882639	1976528.000	7.61
0B01012-CALE	10	1.853462E+07	1853462.000	7.61
0B01012-CALF	25	4.220343E+07	1688137.000	7.61
0B01012-CALG	50	9.313354E+07	1862671.000	7.61
0B01012-CALH	100	1.888996E+08	1888996.000	7.61
0B01012-CALI	200	4.169259E+08	2084630.000	7.61

AVE RF **1936798.000** RF RSD **7.79** AVE RT **7.61**

Dieldrin

Curve Fit: **AVERAGE RF**

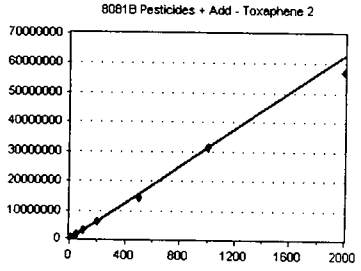


Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	1958633	3917266.000	7.69
0B01012-CAL2	1	3771816	3771816.000	7.69
0B01012-CAL3	2	7527776	3763888.000	7.69
0B01012-CAL4	5	1.875276E+07	3750552.000	7.69
0B01012-CAL5	10	3.72983E+07	3729830.000	7.69
0B01012-CAL6	25	9.58688E+07	3834752.000	7.69
0B01012-CAL7	50	1.79484E+08	3589680.000	7.69
0B01012-CAL8	100	4.028113E+08	4028113.000	7.69
0B01012-CAL9	200	7.869162E+08	3934581.000	7.69

AVE RF **3813386.000** RF RSD **3.43** AVE RT **7.69**

Toxaphene 2

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0B01012-CALQ	10	357259	35725.900	7.69
0B01012-CALR	50	1682151	33643.020	7.69
0B01012-CALS	100	3171817	31718.170	7.69
0B01012-CALT	200	6077785	30388.930	7.69
0B01012-CALU	500	1.428352E+07	28567.040	7.69
0B01012-CALV	1000	3.129069E+07	31290.690	7.69
0B01012-CALW	2000	5.714863E+07	28574.320	7.69

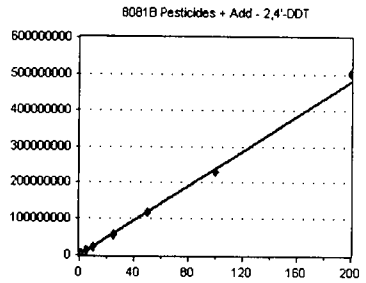
AVE RF **31415.440** RF RSD **8.31** AVE RT **7.69**

Element Calibration Review Sheet

Calibration ID: **A0B0404** Instrument: **DUALECD8** Calibration Date: **02/04/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD8_QUANTPEST_20020**

2,4'-DDT

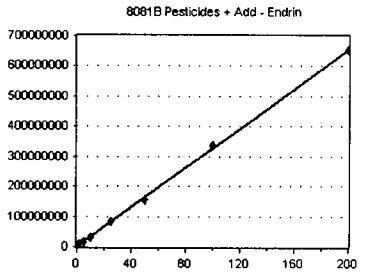


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0B01012-CALA	0.5	1418724	2837448.000	7.80
0B01012-CALB	1	2374152	2374152.000	7.80
0B01012-CALC	2	4727347	2363674.000	7.80
0B01012-CALD	5	1.187289E+07	2374578.000	7.80
0B01012-CALE	10	2.292821E+07	2292821.000	7.80
0B01012-CALF	25	5.360788E+07	2144315.000	7.79
0B01012-CALG	50	1.171116E+08	2342232.000	7.79
0B01012-CALH	100	2.298646E+08	2298646.000	7.79
0B01012-CALI	200	5.020763E+08	2510382.000	7.79

AVE RF **2393139.000** RF RSD **8.04** AVE RT **7.79**

Endrin

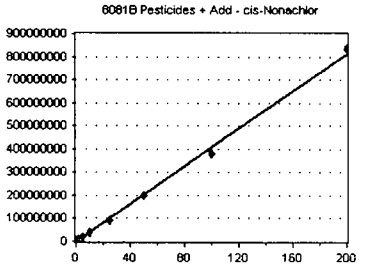


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	1701747	3403494.000	7.85
0B01012-CAL2	1	3307872	3307872.000	7.85
0B01012-CAL3	2	6440400	3220200.000	7.85
0B01012-CAL4	5	1.615376E+07	3230752.000	7.85
0B01012-CAL5	10	3.134902E+07	3134902.000	7.85
0B01012-CAL6	25	8.285862E+07	3314345.000	7.85
0B01012-CAL7	50	1.550496E+08	3100992.000	7.85
0B01012-CAL8	100	3.384351E+08	3384351.000	7.85
0B01012-CAL9	200	6.5517E+08	3275850.000	7.85

AVE RF **3263640.000** RF RSD **3.15** AVE RT **7.85**

cis-Nonachlor

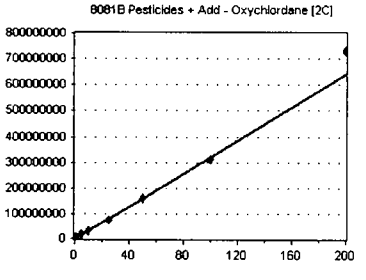


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0B01012-CALA	0.5	2296885	4593770.000	7.89
0B01012-CALB	1	4089263	4089263.000	7.89
0B01012-CALC	2	8283514	4141757.000	7.89
0B01012-CALD	5	2.060596E+07	4121192.000	7.89
0B01012-CALE	10	4.043669E+07	4043669.000	7.89
0B01012-CALF	25	9.155034E+07	3662014.000	7.89
0B01012-CALG	50	2.000893E+08	4001786.000	7.89
0B01012-CALH	100	3.793441E+08	3793441.000	7.89
0B01012-CALI	200	8.356395E+08	4178198.000	7.88

AVE RF **4069454.000** RF RSD **6.40** AVE RT **7.89**

Oxychlordane [2C]



Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0B01012-CALA	0.5	1817597	3635194.000	7.91
0B01012-CALB	1	3174792	3174792.000	7.91
0B01012-CALC	2	6050162	3025081.000	7.91
0B01012-CALD	5	1.550996E+07	3101992.000	7.91
0B01012-CALE	10	2.989029E+07	2989029.000	7.91
0B01012-CALF	25	7.158479E+07	2863392.000	7.91
0B01012-CALG	50	1.607071E+08	3214142.000	7.91
0B01012-CALH	100	3.127713E+08	3127713.000	7.91
0B01012-CALI	200	7.303451E+08	3651726.000	7.91

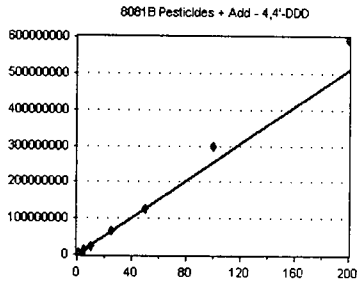
AVE RF **3198118.000** RF RSD **8.55** AVE RT **7.91**

Element Calibration Review Sheet

Calibration ID: **A0B0404** Instrument: **DUALECD8** Calibration Date: **02/04/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD8_QUANTPEST_20020**

4,4'-DDD

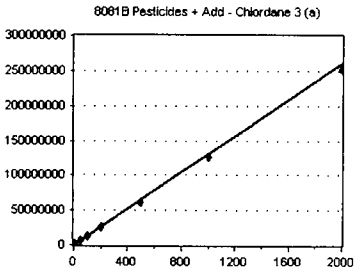


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	1218671	2437342.000	7.92
0B01012-CAL2	1	2373048	2373048.000	7.91
0B01012-CAL3	2	4683505	2341753.000	7.91
0B01012-CAL4	5	1.173723E+07	2347446.000	7.91
0B01012-CAL5	10	2.42592E+07	2425920.000	7.91
0B01012-CAL6	25	6.337781E+07	2535112.000	7.91
0B01012-CAL7	50	1.253068E+08	2506136.000	7.91
0B01012-CAL8	100	2.97655E+08	2976550.000	7.91
0B01012-CAL9	200	5.92314E+08	2961570.000	7.91

AVE RF **2544986.000** RF RSD **9.79** AVE RT **7.91**

Chlordane 3 (a)

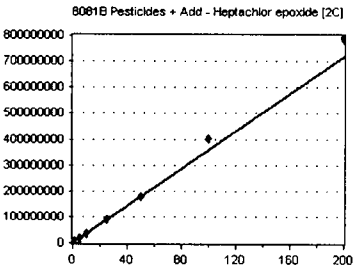


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0B01012-CALJ	10	1477991	147799.100	7.97
0B01012-CALK	50	6361865	127237.300	7.97
0B01012-CALL	100	1.303182E+07	130318.200	7.97
0B01012-CALM	200	2.587346E+07	129367.300	7.97
0B01012-CALN	500	6.1785E+07	123570.000	7.97
0B01012-CALO	1000	1.265223E+08	126522.300	7.97
0B01012-CALP	2000	2.531359E+08	126568.000	7.97

AVE RF **130197.500** RF RSD **6.19** AVE RT **7.97**

Heptachlor epoxide [2C]

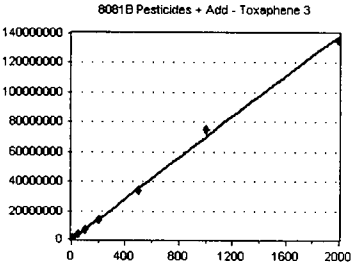


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	1829309	3658618.000	7.98
0B01012-CAL2	1	3563306	3563306.000	7.98
0B01012-CAL3	2	6383239	3191620.000	7.98
0B01012-CAL4	5	1.666379E+07	3332758.000	7.98
0B01012-CAL5	10	3.36899E+07	3368990.000	7.98
0B01012-CAL6	25	9.069309E+07	3627724.000	7.98
0B01012-CAL7	50	1.789132E+08	3578264.000	7.98
0B01012-CAL8	100	4.042626E+08	4042626.000	7.98
0B01012-CAL9	200	7.887333E+08	3943667.000	7.98

AVE RF **3589730.000** RF RSD **7.70** AVE RT **7.98**

Toxaphene 3



Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
0B01012-CALQ	10	923034	92303.400	8.01
0B01012-CALR	50	3882297	77645.940	8.00
0B01012-CALS	100	7108085	71080.850	8.00
0B01012-CALT	200	1.395566E+07	69778.300	8.00
0B01012-CALU	500	3.382787E+07	67655.740	8.00
0B01012-CALV	1000	7.486939E+07	74869.390	8.00
0B01012-CALW	2000	1.348564E+08	67428.200	8.00

AVE RF **74394.550** RF RSD **11.74** AVE RT **8.00**

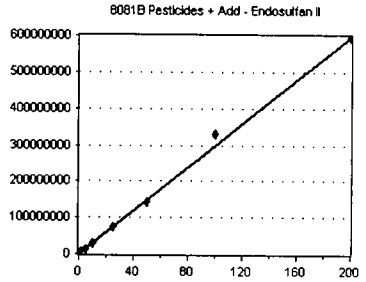
Element Calibration Review Sheet

Calibration ID: **A0B0404** Instrument: **DUALECD8** Calibration Date: **02/04/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD8_QUANTPEST_20020**

Endosulfan II

Curve Fit: **AVERAGE RF**

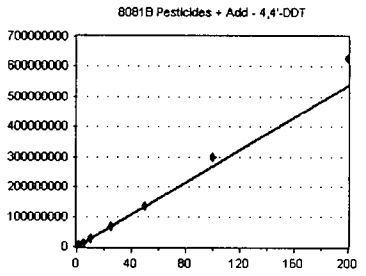


Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	1650694	3301388.000	8.01
0B01012-CAL2	1	3004856	3004856.000	8.01
0B01012-CAL3	2	5851117	2925559.000	8.01
0B01012-CAL4	5	1.400165E+07	2800330.000	8.01
0B01012-CAL5	10	2.818935E+07	2818935.000	8.01
0B01012-CAL6	25	7.334226E+07	2933690.000	8.01
0B01012-CAL7	50	1.418549E+08	2837098.000	8.01
0B01012-CAL8	100	3.318899E+08	3318899.000	8.01
0B01012-CAL9	200	5.966484E+08	2983242.000	8.01

AVE RF **2991555.000** RF RSD **6.49** AVE RT **8.01**

4,4'-DDT

Curve Fit: **AVERAGE RF**

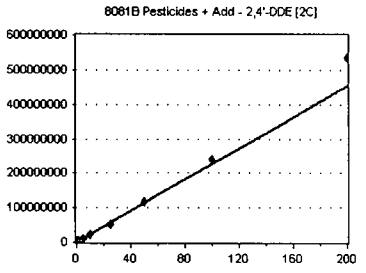


Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	1351757	2703514.000	8.11
0B01012-CAL2	1	2497592	2497592.000	8.11
0B01012-CAL3	2	4907038	2453519.000	8.11
0B01012-CAL4	5	1.263265E+07	2526530.000	8.11
0B01012-CAL5	10	2.469228E+07	2469228.000	8.11
0B01012-CAL6	25	6.809745E+07	2723898.000	8.11
0B01012-CAL7	50	1.347993E+08	2695986.000	8.11
0B01012-CAL8	100	2.988081E+08	2988081.000	8.11
0B01012-CAL9	200	6.271791E+08	3135895.000	8.11

AVE RF **2688249.000** RF RSD **8.89** AVE RT **8.11**

2,4'-DDE [2C]

Curve Fit: **AVERAGE RF**

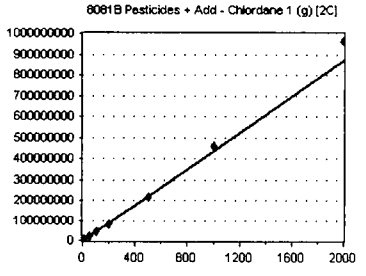


Standard	Concentration	Response	Response Factor	RT
0B01012-CALA	0.5	1200073	2400146.000	8.11
0B01012-CALB	1	2104301	2104301.000	8.11
0B01012-CALC	2	4260806	2130403.000	8.11
0B01012-CALD	5	1.090641E+07	2181282.000	8.11
0B01012-CALE	10	2.19581E+07	2195810.000	8.11
0B01012-CALF	25	5.111336E+07	2044534.000	8.11
0B01012-CALG	50	1.17141E+08	2342820.000	8.11
0B01012-CALH	100	2.384413E+08	2384413.000	8.11
0B01012-CALI	200	5.346824E+08	2673412.000	8.11

AVE RF **2273013.000** RF RSD **8.65** AVE RT **8.11**

Chlordane 1 (g) [2C]

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0B01012-CALJ	10	4084683	408468.300	8.12
0B01012-CALK	50	2.01342E+07	402684.000	8.12
0B01012-CALL	100	4.333219E+07	433321.900	8.12
0B01012-CALM	200	8.36751E+07	418375.500	8.12
0B01012-CALN	500	2.179744E+08	435948.800	8.12
0B01012-CALO	1000	4.61118E+08	461118.000	8.12
0B01012-CALP	2000	9.628295E+08	481414.800	8.12

AVE RF **434475.900** RF RSD **6.55** AVE RT **8.12**

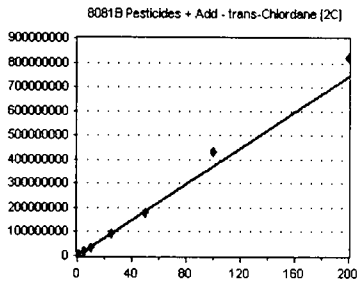
Element Calibration Review Sheet

Calibration ID: **A0B0404** Instrument: **DUALECD8** Calibration Date: **02/04/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD8_QUANTPEST_20020**

trans-Chlordane [2C]

Curve Fit: **AVERAGE RF**

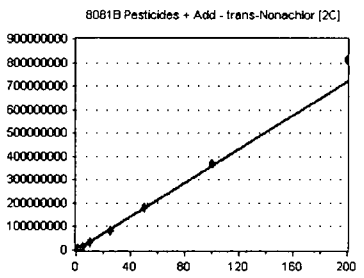


Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	1923989	3847978.000	8.12
0B01012-CAL2	1	3473086	3473086.000	8.12
0B01012-CAL3	2	6824804	3412402.000	8.12
0B01012-CAL4	5	1.70644E+07	3412880.000	8.12
0B01012-CAL5	10	3.494534E+07	3494534.000	8.12
0B01012-CAL6	25	9.410738E+07	3764295.000	8.12
0B01012-CAL7	50	1.812278E+08	3624556.000	8.12
0B01012-CAL8	100	4.326647E+08	4326647.000	8.12
0B01012-CAL9	200	8.218424E+08	4109212.000	8.12

AVE RF **3718399.000** RF RSD **8.75** AVE RT **8.12**

trans-Nonachlor [2C]

Curve Fit: **AVERAGE RF**

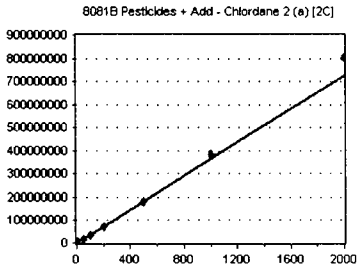


Standard	Concentration	Response	Response Factor	RT
0B01012-CALA	0.5	2004659	4009318.000	8.18
0B01012-CALB	1	3680280	3680280.000	8.18
0B01012-CALC	2	6830472	3415236.000	8.18
0B01012-CALD	5	1.698707E+07	3397414.000	8.18
0B01012-CALE	10	3.440216E+07	3440216.000	8.18
0B01012-CALF	25	8.078905E+07	3231562.000	8.18
0B01012-CALG	50	1.792028E+08	3584056.000	8.18
0B01012-CALH	100	3.675612E+08	3675612.000	8.18
0B01012-CALI	200	8.103848E+08	4051924.000	8.18

AVE RF **3609513.000** RF RSD **7.71** AVE RT **8.18**

Chlordane 2 (a) [2C]

Curve Fit: **AVERAGE RF**

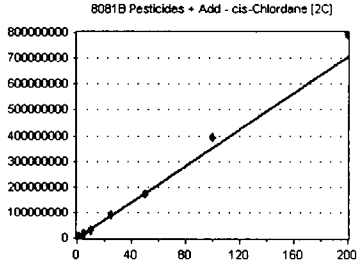


Standard	Concentration	Response	Response Factor	RT
0B01012-CALJ	10	3718290	371829.000	8.23
0B01012-CALK	50	1.591002E+07	318200.400	8.23
0B01012-CALL	100	3.522198E+07	352219.800	8.23
0B01012-CALM	200	7.06827E+07	353413.500	8.23
0B01012-CALN	500	1.819715E+08	363943.000	8.23
0B01012-CALO	1000	3.848055E+08	384805.500	8.23
0B01012-CALP	2000	8.009549E+08	400477.400	8.23

AVE RF **363555.500** RF RSD **7.25** AVE RT **8.23**

cis-Chlordane [2C]

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	1851957	3703914.000	8.23
0B01012-CAL2	1	3361292	3361292.000	8.23
0B01012-CAL3	2	6414031	3207016.000	8.23
0B01012-CAL4	5	1.606124E+07	3212248.000	8.23
0B01012-CAL5	10	3.204669E+07	3204669.000	8.23
0B01012-CAL6	25	9.099102E+07	3639641.000	8.23
0B01012-CAL7	50	1.730353E+08	3460706.000	8.23
0B01012-CAL8	100	3.950725E+08	3950725.000	8.23
0B01012-CAL9	200	7.927768E+08	3963884.000	8.23

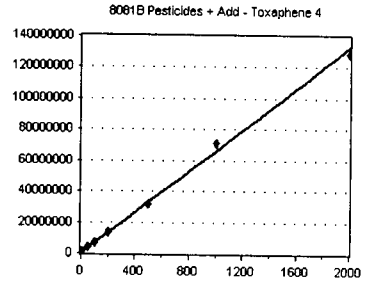
AVE RF **3522677.000** RF RSD **8.70** AVE RT **8.23**

Element Calibration Review Sheet

Calibration ID: **A0B0404** Instrument: **DUALECD8** Calibration Date: **02/04/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD8_QUANTPEST_20020**

Toxaphene 4

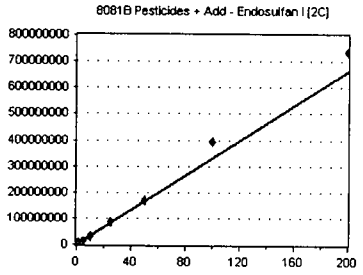


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
0B01012-CALQ	10	1100625	110062.500	8.25
0B01012-CALR	50	3672237	73444.740	8.25
0B01012-CALS	100	6856793	68567.930	8.25
0B01012-CALT	200	1.355915E+07	67795.750	8.25
0B01012-CALU	500	3.170131E+07	63402.620	8.25
0B01012-CALV	1000	7.126714E+07	71267.130	8.25
0B01012-CALW	2000	1.289479E+08	64473.950	8.24

AVE RF **74144.950** RF RSD **21.88** AVE RT **8.25**

Endosulfan I [2C]

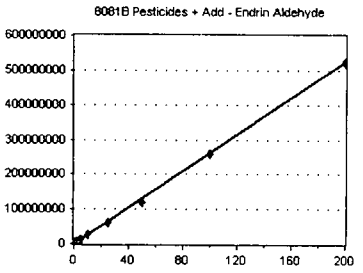


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	1589681	3179362.000	8.28
0B01012-CAL2	1	3092501	3092501.000	8.28
0B01012-CAL3	2	6087483	3043742.000	8.28
0B01012-CAL4	5	1.497872E+07	2995744.000	8.28
0B01012-CAL5	10	3.064788E+07	3064788.000	8.28
0B01012-CAL6	25	8.565336E+07	3426135.000	8.28
0B01012-CAL7	50	1.67437E+08	3348740.000	8.28
0B01012-CAL8	100	3.925215E+08	3925215.000	8.28
0B01012-CAL9	200	7.337262E+08	3668631.000	8.28

AVE RF **3304984.000** RF RSD **9.66** AVE RT **8.28**

Endrin Aldehyde

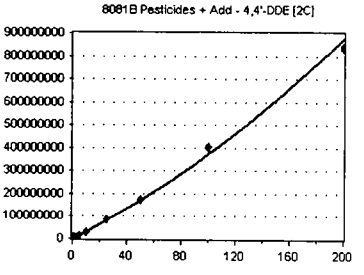


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	1534740	3069480.000	8.30
0B01012-CAL2	1	2830842	2830842.000	8.30
0B01012-CAL3	2	5465292	2732646.000	8.30
0B01012-CAL4	5	1.259007E+07	2518014.000	8.30
0B01012-CAL5	10	2.511112E+07	2511112.000	8.30
0B01012-CAL6	25	6.177681E+07	2471072.000	8.30
0B01012-CAL7	50	1.185638E+08	2371276.000	8.30
0B01012-CAL8	100	2.586035E+08	2586035.000	8.30
0B01012-CAL9	200	5.206805E+08	2603403.000	8.30

AVE RF **2632653.000** RF RSD **8.12** AVE RT **8.30**

4,4'-DDE [2C]



Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	1346237	2692474.000	8.33
0B01012-CAL2	1	2684993	2684993.000	8.33
0B01012-CAL3	2	5670683	2835342.000	8.33
0B01012-CAL4	5	1.485957E+07	2971914.000	8.33
0B01012-CAL5	10	3.019524E+07	3019524.000	8.33
0B01012-CAL6	25	8.676414E+07	3470566.000	8.33
0B01012-CAL7	50	1.751903E+08	3503806.000	8.33
0B01012-CAL8	100	4.059366E+08	4059366.000	8.33
0B01012-CAL9	200	8.351139E+08	4175570.000	8.33

AVE RF **3268173.000** RF RSD **17.29** AVE RT **8.33**

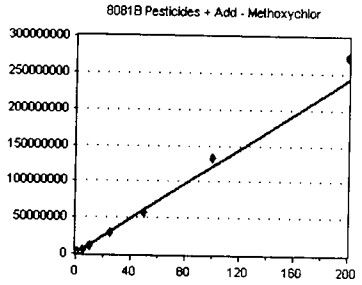
Element Calibration Review Sheet

Calibration ID: **A0B0404** Instrument: **DUALECD8** Calibration Date: **02/04/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD8_QUANTPEST_20020**

Methoxychlor

Curve Fit: **AVERAGE RF**

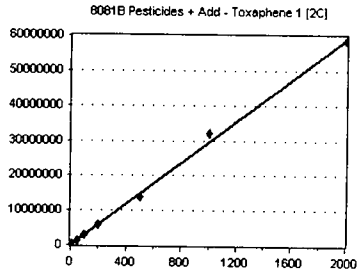


Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	650344	1300688.000	8.45
0B01012-CAL2	1	1197106	1197106.000	8.45
0B01012-CAL3	2	2268598	1134299.000	8.45
0B01012-CAL4	5	5565381	1113076.000	8.45
0B01012-CAL5	10	1.123088E+07	1123088.000	8.45
0B01012-CAL6	25	2.898057E+07	1159223.000	8.45
0B01012-CAL7	50	5.674386E+07	1134877.000	8.45
0B01012-CAL8	100	1.331207E+08	1331207.000	8.45
0B01012-CAL9	200	2.7324E+08	1366200.000	8.45

AVE RF **1206640.000** RF RSD **8.20** AVE RT **8.45**

Toxaphene 1 [2C]

Curve Fit: **AVERAGE RF**

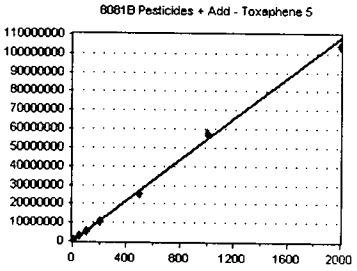


Standard	Concentration	Response	Response Factor	RT
0B01012-CALQ	10	273928	27392.800	8.46
0B01012-CALR	50	1457893	29157.860	8.46
0B01012-CALS	100	3039636	30396.360	8.46
0B01012-CALT	200	5983532	29917.660	8.45
0B01012-CALU	500	1.399106E+07	27982.120	8.45
0B01012-CALV	1000	3.202091E+07	32020.910	8.45
0B01012-CALW	2000	5.883012E+07	29415.060	8.45

AVE RF **29468.970** RF RSD **5.22** AVE RT **8.45**

Toxaphene 5

Curve Fit: **AVERAGE RF**

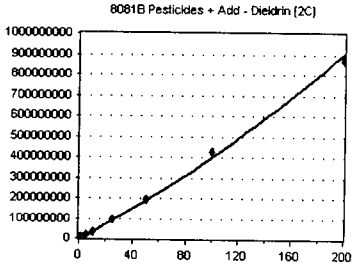


Standard	Concentration	Response	Response Factor	RT
0B01012-CALQ	10	585949	58594.900	8.47
0B01012-CALR	50	2698036	53960.720	8.47
0B01012-CALS	100	5268375	52683.750	8.47
0B01012-CALT	200	1.072372E+07	53618.600	8.47
0B01012-CALU	500	2.545497E+07	50909.940	8.47
0B01012-CALV	1000	5.760498E+07	57604.980	8.47
0B01012-CALW	2000	1.040872E+08	52043.600	8.47

AVE RF **54202.360** RF RSD **5.28** AVE RT **8.47**

Dieldrin [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**



Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	1711724	3423448.000	8.48
0B01012-CAL2	1	3204188	3204188.000	8.48
0B01012-CAL3	2	6556953	3278477.000	8.48
0B01012-CAL4	5	1.689616E+07	3379232.000	8.48
0B01012-CAL5	10	3.498248E+07	3498248.000	8.48
0B01012-CAL6	25	9.588393E+07	3835357.000	8.48
0B01012-CAL7	50	1.92135E+08	3842700.000	8.48
0B01012-CAL8	100	4.251472E+08	4251472.000	8.48
0B01012-CAL9	200	8.711686E+08	4355843.000	8.48

AVE RF **3674329.000** RF RSD **11.43** AVE RT **8.48**

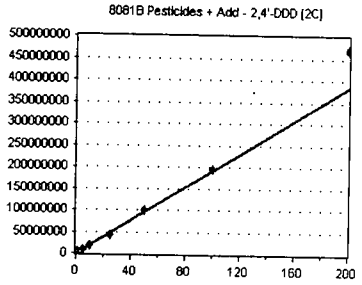
Element Calibration Review Sheet

Calibration ID: **A0B0404** Instrument: **DUALECD8** Calibration Date: **02/04/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD8_QUANTPEST_20020**

2,4'-DDD [2C]

Curve Fit: **AVERAGE RF**

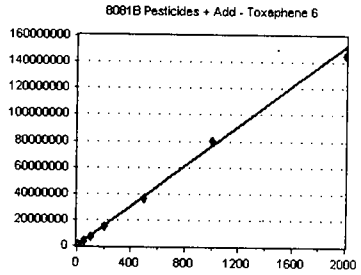


Standard	Concentration	Response	Response Factor	RT
0B01012-CALA	0.5	960869	1921738.000	8.49
0B01012-CALB	1	1795089	1795089.000	8.49
0B01012-CALC	2	3680145	1840073.000	8.49
0B01012-CALD	5	9298557	1859711.000	8.49
0B01012-CALE	10	1.806277E+07	1806277.000	8.48
0B01012-CALF	25	4.296202E+07	1718481.000	8.49
0B01012-CALG	50	9.924723E+07	1984945.000	8.48
0B01012-CALH	100	1.955472E+08	1955472.000	8.48
0B01012-CALI	200	4.693478E+08	2346739.000	8.48

AVE RF **1914280.000** RF RSD **9.53** AVE RT **8.48**

Toxaphene 6

Curve Fit: **AVERAGE RF**

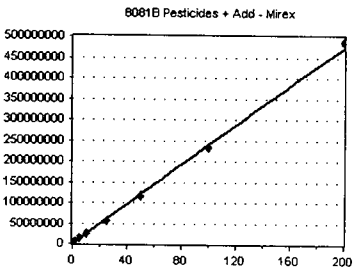


Standard	Concentration	Response	Response Factor	RT
0B01012-CALQ	10	844549	84454.900	8.54
0B01012-CALR	50	3790810	75816.200	8.54
0B01012-CALS	100	7293127	72931.270	8.54
0B01012-CALT	200	1.482303E+07	74115.150	8.54
0B01012-CALU	500	3.599046E+07	71980.920	8.54
0B01012-CALV	1000	8.042554E+07	80425.540	8.54
0B01012-CALW	2000	1.453094E+08	72654.700	8.54

AVE RF **76054.100** RF RSD **6.15** AVE RT **8.54**

Mirex

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

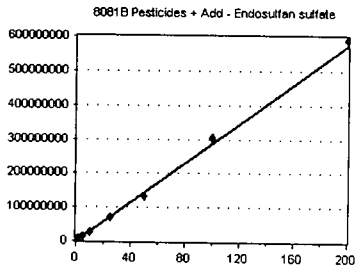


Standard	Concentration	Response	Response Factor	RT
0B01012-CALA	0.5	1693083	3386166.000	8.55
0B01012-CALB	1	2918797	2918797.000	8.55
0B01012-CALC	2	5534484	2767242.000	8.55
0B01012-CALD	5	1.332253E+07	2664506.000	8.55
0B01012-CALE	10	2.54303E+07	2543030.000	8.55
0B01012-CALF	25	5.582939E+07	2233176.000	8.55
0B01012-CALG	50	1.171366E+08	2342732.000	8.55
0B01012-CALH	100	2.327329E+08	2327329.000	8.55
0B01012-CALI	200	4.87218E+08	2436090.000	8.55

AVE RF **2624341.000** RF RSD **13.82** AVE RT **8.55**

Endosulfan sulfate

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	1548557	3097114.000	8.60
0B01012-CAL2	1	2921925	2921925.000	8.60
0B01012-CAL3	2	5585397	2792699.000	8.60
0B01012-CAL4	5	1.384389E+07	2768778.000	8.60
0B01012-CAL5	10	2.704278E+07	2704278.000	8.60
0B01012-CAL6	25	7.001342E+07	2800537.000	8.60
0B01012-CAL7	50	1.33861E+08	2677220.000	8.60
0B01012-CAL8	100	3.044524E+08	3044524.000	8.60
0B01012-CAL9	200	5.905002E+08	2952501.000	8.60

AVE RF **2862175.000** RF RSD **5.19** AVE RT **8.60**

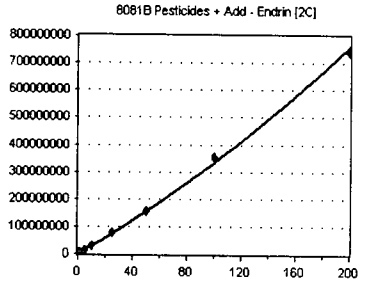
Element Calibration Review Sheet

Calibration ID: **A0B0404** Instrument: **DUALECD8** Calibration Date: **02/04/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD8_QUANTPEST_20020**

Endrin [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

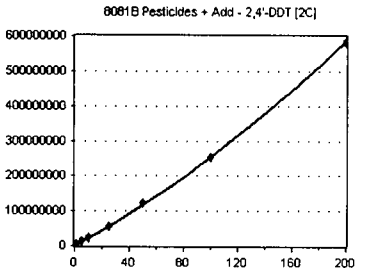


Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	1499119	2998238.000	8.71
0B01012-CAL2	1	2810308	2810308.000	8.71
0B01012-CAL3	2	5547721	2773861.000	8.71
0B01012-CAL4	5	1.387609E+07	2775218.000	8.71
0B01012-CAL5	10	2.91605E+07	2916050.000	8.71
0B01012-CAL6	25	7.939983E+07	3175993.000	8.71
0B01012-CAL7	50	1.539787E+08	3079574.000	8.71
0B01012-CAL8	100	3.544835E+08	3544835.000	8.71
0B01012-CAL9	200	7.386292E+08	3693146.000	8.71

AVE RF **3085247.000** RF RSD **10.83** AVE RT **8.71**

2,4'-DDT [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

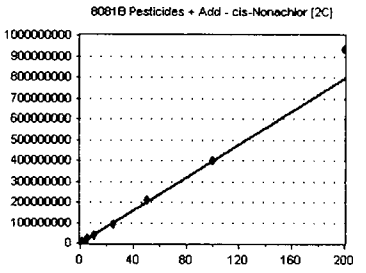


Standard	Concentration	Response	Response Factor	RT
0B01012-CALA	0.5	1210132	2420264.000	8.71
0B01012-CALB	1	2100185	2100185.000	8.71
0B01012-CALC	2	4187285	2093643.000	8.71
0B01012-CALD	5	1.135804E+07	2271608.000	8.71
0B01012-CALE	10	2.213786E+07	2213786.000	8.71
0B01012-CALF	25	5.372345E+07	2148938.000	8.71
0B01012-CALG	50	1.227566E+08	2455132.000	8.71
0B01012-CALH	100	2.535689E+08	2535689.000	8.71
0B01012-CALI	200	5.836223E+08	2918111.000	8.71

AVE RF **2350817.000** RF RSD **11.32** AVE RT **8.71**

cis-Nonachlor [2C]

Curve Fit: **AVERAGE RF**

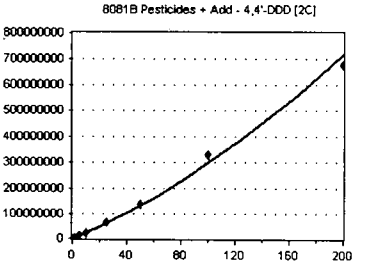


Standard	Concentration	Response	Response Factor	RT
0B01012-CALA	0.5	2084280	4168560.000	8.75
0B01012-CALB	1	3801985	3801985.000	8.75
0B01012-CALC	2	7352547	3676274.000	8.75
0B01012-CALD	5	1.958534E+07	3917068.000	8.75
0B01012-CALE	10	3.83258E+07	3832580.000	8.75
0B01012-CALF	25	9.038487E+07	3615395.000	8.75
0B01012-CALG	50	2.092537E+08	4185074.000	8.75
0B01012-CALH	100	3.989475E+08	3989475.000	8.75
0B01012-CALI	200	9.36115E+08	4680575.000	8.75

AVE RF **3985221.000** RF RSD **8.18** AVE RT **8.75**

4,4'-DDD [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**



Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	1119384	2238768.000	8.75
0B01012-CAL2	1	2115078	2115078.000	8.75
0B01012-CAL3	2	4350712	2175356.000	8.75
0B01012-CAL4	5	1.125402E+07	2250804.000	8.75
0B01012-CAL5	10	2.275793E+07	2275793.000	8.75
0B01012-CAL6	25	6.517722E+07	2607089.000	8.75
0B01012-CAL7	50	1.364753E+08	2729506.000	8.75
0B01012-CAL8	100	3.300586E+08	3300586.000	8.75
0B01012-CAL9	200	6.796638E+08	3398319.000	8.75

AVE RF **2565700.000** RF RSD **19.03** AVE RT **8.75**

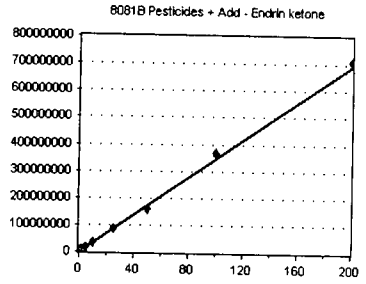
Element Calibration Review Sheet

Calibration ID: **A0B0404** Instrument: **DUALECD8** Calibration Date: **02/04/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD8_QUANTPEST_20020**

Endrin ketone

Curve Fit: **AVERAGE RF**

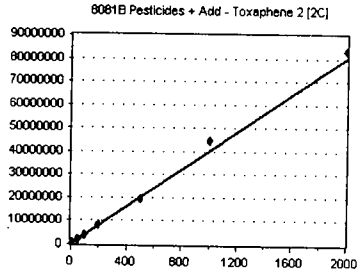


Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	1865728	3731456.000	8.80
0B01012-CAL2	1	3540934	3540934.000	8.80
0B01012-CAL3	2	6824708	3412354.000	8.80
0B01012-CAL4	5	1.662305E+07	3324610.000	8.80
0B01012-CAL5	10	3.267614E+07	3267614.000	8.80
0B01012-CAL6	25	8.55853E+07	3423412.000	8.80
0B01012-CAL7	50	1.597879E+08	3195758.000	8.80
0B01012-CAL8	100	3.667893E+08	3667893.000	8.80
0B01012-CAL9	200	7.088007E+08	3544004.000	8.80

AVE RF **3456448.000** RF RSD **5.21** AVE RT **8.80**

Toxaphene 2 [2C]

Curve Fit: **AVERAGE RF**

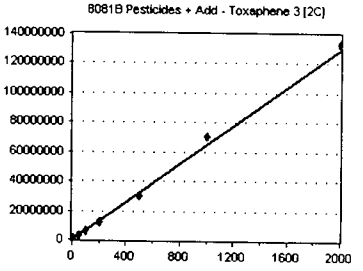


Standard	Concentration	Response	Response Factor	RT
0B01012-CALQ	10	364064	36406.400	8.80
0B01012-CALR	50	1899624	37992.480	8.80
0B01012-CALS	100	4024499	40244.990	8.80
0B01012-CALT	200	8295354	41476.770	8.80
0B01012-CALU	500	1.937513E+07	38750.260	8.80
0B01012-CALV	1000	4.495241E+07	44952.410	8.80
0B01012-CALW	2000	8.299866E+07	41499.330	8.80

AVE RF **40188.950** RF RSD **6.98** AVE RT **8.80**

Toxaphene 3 [2C]

Curve Fit: **AVERAGE RF**

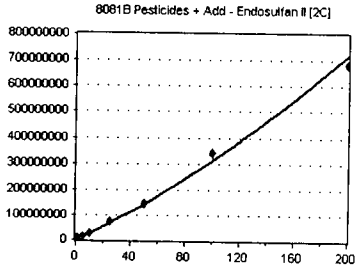


Standard	Concentration	Response	Response Factor	RT
0B01012-CALQ	10	694351	69435.100	8.84
0B01012-CALR	50	3122967	62459.340	8.84
0B01012-CALS	100	6231660	62316.600	8.84
0B01012-CALT	200	1.240684E+07	62034.200	8.84
0B01012-CALU	500	3.008388E+07	60167.760	8.84
0B01012-CALV	1000	7.000674E+07	70006.730	8.84
0B01012-CALW	2000	1.329104E+08	66455.200	8.84

AVE RF **64696.420** RF RSD **6.05** AVE RT **8.84**

Endosulfan II [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**



Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	1442453	2884906.000	8.85
0B01012-CAL2	1	2617481	2617481.000	8.86
0B01012-CAL3	2	5197583	2598792.000	8.85
0B01012-CAL4	5	1.268667E+07	2537334.000	8.85
0B01012-CAL5	10	2.593768E+07	2593768.000	8.85
0B01012-CAL6	25	7.303019E+07	2921208.000	8.85
0B01012-CAL7	50	1.461509E+08	2923018.000	8.85
0B01012-CAL8	100	3.418956E+08	3418956.000	8.85
0B01012-CAL9	200	6.847817E+08	3423909.000	8.85

AVE RF **2879930.000** RF RSD **11.88** AVE RT **8.85**

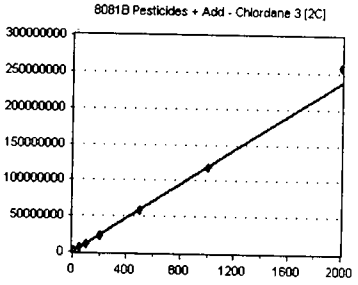
Element Calibration Review Sheet

Calibration ID: **A0B0404** Instrument: **DUALECD8** Calibration Date: **02/04/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD8_QUANTPEST_20020**

Chlordane 3 [2C]

Curve Fit: **AVERAGE RF**

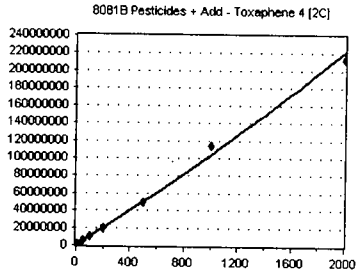


Standard	Concentration	Response	Response Factor	RT
0B01012-CALJ	10	1246903	124690.300	8.89
0B01012-CALK	50	5712561	114251.200	8.89
0B01012-CALL	100	1.164798E+07	116479.800	8.89
0B01012-CALM	200	2.214872E+07	110743.600	8.89
0B01012-CALN	500	5.849682E+07	116993.600	8.89
0B01012-CALO	1000	1.188456E+08	118845.600	8.89
0B01012-CALP	2000	2.585676E+08	129283.800	8.89

AVE RF **118755.400** RF RSD **5.31** AVE RT **8.89**

Toxaphene 4 [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

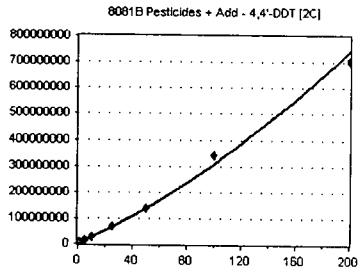


Standard	Concentration	Response	Response Factor	RT
0B01012-CALQ	10	1372328	137232.800	8.91
0B01012-CALR	50	5032751	100655.000	8.91
0B01012-CALS	100	1.007582E+07	100758.200	8.91
0B01012-CALT	200	1.995519E+07	99775.950	8.91
0B01012-CALU	500	4.883292E+07	97665.840	8.91
0B01012-CALV	1000	1.141068E+08	114106.800	8.91
0B01012-CALW	2000	2.126267E+08	106313.400	8.91

AVE RF **108072.600** RF RSD **12.95** AVE RT **8.91**

4,4'-DDT [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

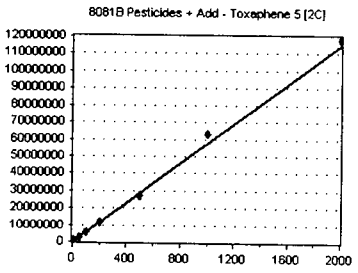


Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	1360505	2721010.000	8.98
0B01012-CAL2	1	2317293	2317293.000	8.98
0B01012-CAL3	2	4735251	2367626.000	8.98
0B01012-CAL4	5	1.163505E+07	2327010.000	8.98
0B01012-CAL5	10	2.513261E+07	2513261.000	8.98
0B01012-CAL6	25	7.053326E+07	2821331.000	8.98
0B01012-CAL7	50	1.384132E+08	2768264.000	8.98
0B01012-CAL8	100	3.40345E+08	3403450.000	8.98
0B01012-CAL9	200	7.064813E+08	3532407.000	8.98

AVE RF **2752406.000** RF RSD **16.32** AVE RT **8.98**

Toxaphene 5 [2C]

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0B01012-CALQ	10	574323	57432.300	9.08
0B01012-CALR	50	2697421	53948.420	9.08
0B01012-CALS	100	5637073	56370.730	9.08
0B01012-CALT	200	1.148559E+07	57427.950	9.08
0B01012-CALU	500	2.705087E+07	54101.740	9.08
0B01012-CALV	1000	6.308424E+07	63084.240	9.08
0B01012-CALW	2000	1.178774E+08	58938.700	9.08

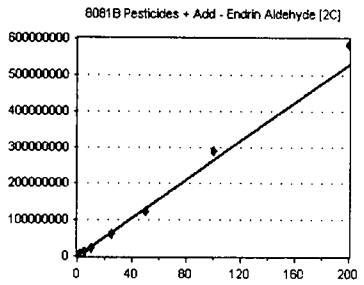
AVE RF **57329.150** RF RSD **5.45** AVE RT **9.08**

Element Calibration Review Sheet

Calibration ID: **A0B0404** Instrument: **DUALECD8** Calibration Date: **02/04/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD8_QUANTPEST_20020**

Endrin Aldehyde [2C]

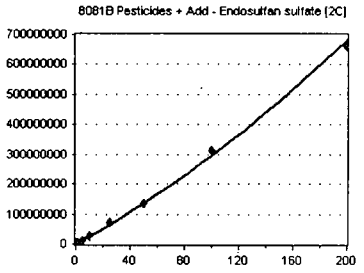


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	1556354	3112708.000	9.09
0B01012-CAL2	1	2604623	2604623.000	9.09
0B01012-CAL3	2	5226313	2613157.000	9.09
0B01012-CAL4	5	1.183867E+07	2367734.000	9.09
0B01012-CAL5	10	2.362231E+07	2362231.000	9.09
0B01012-CAL6	25	6.095996E+07	2438399.000	9.09
0B01012-CAL7	50	1.234771E+08	2469542.000	9.09
0B01012-CAL8	100	2.899748E+08	2899748.000	9.09
0B01012-CAL9	200	5.850689E+08	2925345.000	9.09

AVE RF **2643721.000** RF RSD **10.32** AVE RT **9.09**

Endosulfan sulfate [2C]

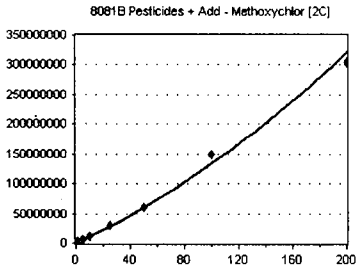


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	1535031	3070062.000	9.28
0B01012-CAL2	1	2490983	2490983.000	9.28
0B01012-CAL3	2	5212773	2606387.000	9.28
0B01012-CAL4	5	1.251823E+07	2503646.000	9.28
0B01012-CAL5	10	2.503622E+07	2503622.000	9.28
0B01012-CAL6	25	7.015802E+07	2806321.000	9.28
0B01012-CAL7	50	1.350653E+08	2701306.000	9.28
0B01012-CAL8	100	3.154474E+08	3154474.000	9.28
0B01012-CAL9	200	6.606305E+08	3303153.000	9.28

AVE RF **2793328.000** RF RSD **11.10** AVE RT **9.28**

Methoxychlor [2C]

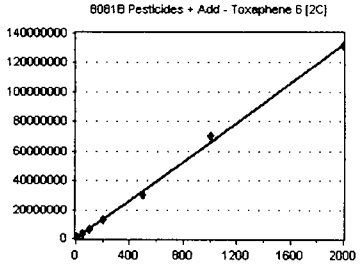


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	981544	1963088.000	9.46
0B01012-CAL2	1	1213779	1213779.000	9.45
0B01012-CAL3	2	2619150	1309575.000	9.46
0B01012-CAL4	5	5652133	1130427.000	9.45
0B01012-CAL5	10	1.086533E+07	1086533.000	9.46
0B01012-CAL6	25	3.016383E+07	1206553.000	9.45
0B01012-CAL7	50	6.027848E+07	1205570.000	9.45
0B01012-CAL8	100	1.490069E+08	1490069.000	9.45
0B01012-CAL9	200	3.043319E+08	1521660.000	9.45

AVE RF **1347473.000** RF RSD **20.39** AVE RT **9.45**

Toxaphene 6 [2C]



Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0B01012-CALQ	10	749407	74940.700	9.46
0B01012-CALR	50	3159313	63186.260	9.46
0B01012-CALS	100	6347466	63474.660	9.46
0B01012-CALT	200	1.267592E+07	63379.600	9.46
0B01012-CALU	500	3.045114E+07	60902.280	9.46
0B01012-CALV	1000	7.06734E+07	70673.400	9.46
0B01012-CALW	2000	1.316398E+08	65819.900	9.46

AVE RF **66053.830** RF RSD **7.54** AVE RT **9.46**

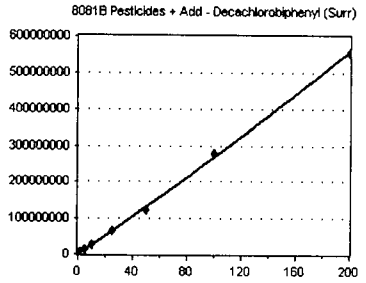
Element Calibration Review Sheet

Calibration ID: **A0B0404** Instrument: **DUALECD8** Calibration Date: **02/04/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD8_QUANTPEST_20020**

Decachlorobiphenyl (Surr)

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

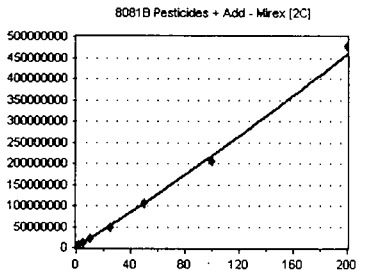


Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	2137981	4275962.000	9.51
0B01012-CAL2	1	3342363	3342363.000	9.51
0B01012-CAL3	2	6150705	3075353.000	9.51
0B01012-CAL4	5	1.355021E+07	2710042.000	9.51
0B01012-CAL5	10	2.660587E+07	2660587.000	9.51
0B01012-CAL6	25	6.645264E+07	2658106.000	9.51
0B01012-CAL7	50	1.233724E+08	2467448.000	9.51
0B01012-CAL8	100	2.800902E+08	2800902.000	9.51
0B01012-CAL9	200	5.543695E+08	2771847.000	9.51

AVE RF **2973623.000** RF RSD **18.56** AVE RT **9.51**

Mirex [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

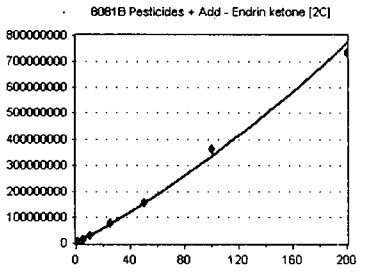


Standard	Concentration	Response	Response Factor	RT
0B01012-CALA	0.5	1475836	2951672.000	9.68
0B01012-CALB	1	2854711	2854711.000	9.67
0B01012-CALC	2	4870687	2435344.000	9.67
0B01012-CALD	5	1.146715E+07	2293430.000	9.67
0B01012-CALE	10	2.096208E+07	2096208.000	9.67
0B01012-CALF	25	4.778422E+07	1911369.000	9.67
0B01012-CALG	50	1.048365E+08	2096730.000	9.67
0B01012-CALH	100	2.041903E+08	2041903.000	9.67
0B01012-CALI	200	4.795865E+08	2397933.000	9.67

AVE RF **2342144.000** RF RSD **15.43** AVE RT **9.67**

Endrin ketone [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

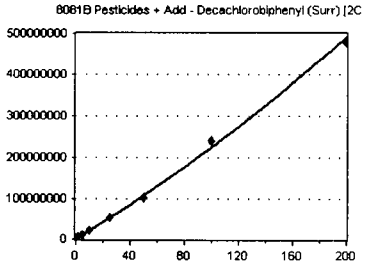


Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	2135612	4271224.000	9.68
0B01012-CAL2	1	3121972	3121972.000	9.68
0B01012-CAL3	2	6091766	3045883.000	9.68
0B01012-CAL4	5	1.440246E+07	2880492.000	9.68
0B01012-CAL5	10	2.883066E+07	2883066.000	9.68
0B01012-CAL6	25	7.944938E+07	3177975.000	9.68
0B01012-CAL7	50	1.567381E+08	3134762.000	9.68
0B01012-CAL8	100	3.636936E+08	3636936.000	9.68
0B01012-CAL9	200	7.370275E+08	3685138.000	9.68

AVE RF **3315272.000** RF RSD **13.87** AVE RT **9.68**

Decachlorobiphenyl (Surr) [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**



Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	2121210	4242420.000	10.54
0B01012-CAL2	1	2619998	2619998.000	10.54
0B01012-CAL3	2	5371510	2685755.000	10.54
0B01012-CAL4	5	1.124264E+07	2248528.000	10.54
0B01012-CAL5	10	2.164163E+07	2164163.000	10.54
0B01012-CAL6	25	5.401791E+07	2160717.000	10.54
0B01012-CAL7	50	1.037977E+08	2075954.000	10.54
0B01012-CAL8	100	2.400362E+08	2400362.000	10.54
0B01012-CAL9	200	4.776297E+08	2388149.000	10.54

AVE RF **2554005.000** RF RSD **26.09** AVE RT **10.54**

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 0B01012

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 Additionals Only (QC)
608 Pest (Chlordane)
608 Pesticides
608 Pesticides (DDT Only)
608 Pesticides (SW)
608 Pesticides (SW) Full List
608 Pesticides (TTO)
608.3 Pesticides
8081B Pesticides
8081B 2,4+4,4-DDx Only (+Add)
8081B Chlordane
8081B DDT Only
8081B Pesticides + Add
8081B Pesticides + Add (Diss)
8081B RSET FW Sed (+Add) (2016)
8081B RSET Sediment List (+Add)
8081B RSET Sediment Marine (2016) (+Add)
8081B Toxaphene

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 0B01012

INSTRUMENT SEQUENCE LOG

SampleID	SampleName	Matrix	STDID	ISTD ID	Analyzed
0B01012-ICB1	Initial Cal Blank	Water	A20A395		2/1/2020 3:09:00PM
0B01012-CAL1	Cal Standard	Water	A20B001	"	2/1/2020 3:26:00PM
0B01012-CAL2	Cal Standard	Water	A20B002	"	2/1/2020 3:43:00PM
0B01012-CAL3	Cal Standard	Water	A19K128	"	2/1/2020 4:00:00PM
0B01012-CAL4	Cal Standard	Water	A19K130	"	2/1/2020 4:16:00PM
0B01012-CAL5	Cal Standard	Water	A19K131	"	2/1/2020 4:33:00PM
0B01012-CAL6	Cal Standard	Water	A19K132	"	2/1/2020 4:50:00PM
0B01012-CAL7	Cal Standard	Water	A19K133	"	2/1/2020 5:07:00PM
0B01012-CAL8	Cal Standard	Water	A19K134	"	2/1/2020 5:24:00PM
0B01012-CAL9	Cal Standard	Water	A19K126	"	2/1/2020 5:41:00PM
0B01012-ICV1	Initial Cal Check	Water	A19I209	"	2/1/2020 6:14:00PM
0B01012-CALA	Cal Standard	Water	A20B003	"	2/1/2020 6:31:00PM
0B01012-CALB	Cal Standard	Water	A19K263	"	2/1/2020 6:48:00PM
0B01012-CALC	Cal Standard	Water	A19K264	"	2/1/2020 7:05:00PM
0B01012-CALD	Cal Standard	Water	A19K265	"	2/1/2020 7:22:00PM
0B01012-CALE	Cal Standard	Water	A19K266	"	2/1/2020 7:38:00PM
0B01012-CALF	Cal Standard	Water	A19J407	"	2/1/2020 7:55:00PM
0B01012-CALG	Cal Standard	Water	A19J408	"	2/1/2020 8:12:00PM
0B01012-CALH	Cal Standard	Water	A19J409	"	2/1/2020 8:29:00PM
0B01012-CALI	Cal Standard	Water	A19K262	"	2/1/2020 8:46:00PM
0B01012-ICV2	Initial Cal Check	Water	A19J410	"	2/1/2020 9:19:00PM
0B01012-CALJ	Cal Standard	Water	A20B004	"	2/1/2020 9:36:00PM
0B01012-CALK	Cal Standard	Water	A19K307	"	2/1/2020 9:53:00PM
0B01012-CALL	Cal Standard	Water	A19K308	"	2/1/2020 10:10:00PM
0B01012-CALM	Cal Standard	Water	A19K309	"	2/1/2020 10:27:00PM
0B01012-CALN	Cal Standard	Water	A19K310	"	2/1/2020 10:43:00PM
0B01012-CALO	Cal Standard	Water	A19K311	"	2/1/2020 11:00:00PM
0B01012-CALP	Cal Standard	Water	A19K306	"	2/1/2020 11:17:00PM
0B01012-ICV3	Initial Cal Check	Water	A19K312	"	2/1/2020 11:51:00PM
0B01012-CALQ	Cal Standard	Water	A20B005	"	2/2/2020 12:08:00AM
0B01012-CALR	Cal Standard	Water	A19J417	"	2/2/2020 12:24:00AM
0B01012-CALS	Cal Standard	Water	A19J418	"	2/2/2020 12:41:00AM
0B01012-CALT	Cal Standard	Water	A19J419	"	2/2/2020 12:58:00AM
0B01012-CALU	Cal Standard	Water	A19J420	"	2/2/2020 1:15:00AM
0B01012-CALV	Cal Standard	Water	A19J421	"	2/2/2020 1:32:00AM
0B01012-CALW	Cal Standard	Water	A19J416	"	2/2/2020 1:48:00AM
0B01012-ICV4	Initial Cal Check	Water	A19J422	"	2/2/2020 2:22:00AM

CALIBRATION STANDARD RECOVERIES

Calibration: **A0B0404** Instrument: **DUALECD8F**

1311/8081B TCLP Pest Reg L Sequence: **0B01012** Matrix: **Water**

0B01012-CAL1	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CAL2	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CAL3	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 0B01012

0B01012-CAL4	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CAL5	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CAL6	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CAL7	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CAL8	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CAL9	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CALA	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CALB	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CALC	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CALD	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CALE	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CALF	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CALG	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CALH	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CALI	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CALJ	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CALK	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CALL	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CALM	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CALN	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CALO	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CALP	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CALQ	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CALR	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CALS	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CALT	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CALU	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CALV	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CALW	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 0B01012

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 quadatic fit compounds.

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 otpion, they must be checked against the requanted curve points to determine if the recalculated results are within limits (70-130 or as specified).

ICV RECOVERIES

Calibration: **A0B0404** Instrument: **DUALECD8F**

608.3 Pesticides Sequence: **0B01012** Matrix: **Water**

0B01012-ICV1	**Inst. MRL**	**ICV Level**	**Result**	**%Rec.**	**Qual**
0B01012-ICV2	**Inst. MRL**	**ICV Level**	**Result**	**%Rec.**	**Qual**
0B01012-ICV3	**Inst. MRL**	**ICV Level**	**Result**	**%Rec.**	**Qual**
0B01012-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.

Compound List Report DUALECD8

Method Path : C:\msdchem\1\methods\
Method File : ECD8_QUANTPEST_200201.M
Title : Instrument: DualECD8
Last Update : Mon Feb 03 15:36:51 2020
Response Via : Initial Calibration

Total Cpnds : 85

MJB 2/3/20

PK#		Compound Name	Exp_RT	Rel_RT	Cal	A/H	ID
1	S	TCMX (S)	5.297	1.000	A	H	R
2		a-BHC	5.837	1.000	A	H	R
3		g-BHC	6.119	1.000	A	H	R
4		b-BHC	6.197	1.000	A	H	R
5		Heptachlor	6.529	1.000	A	H	R
6		d-BHC	6.345	1.000	Q	H	R
7		Aldrin	6.769	1.000	A	H	R
8		Heptachlor Expoxide	7.230	1.000	A	H	R
9		trans-Chlordane	7.326	1.000	A	H	R
10		cis-Chlordane	7.423	1.000	A	H	R
11		Endosulfan I	7.518	1.000	A	H	R
12		4,4'-DDE	7.490	1.000	A	H	R
13		Dieldrin	7.691	1.000	A	H	R
14		Endrin	7.854	1.000	A	H	R
15		4,4'-DDD	7.910	1.000	A	H	R
16		Endosulfan II	8.011	1.000	A	H	R
17		4,4'-DDT	8.109	1.000	A	H	R
18		Endrin Aldehyde	8.302	1.000	A	H	R
19		Endosulfan Sulfate	8.603	1.000	A	H	R
20		Methoxychlor	8.452	1.000	A	H	R
21		Endrin Ketone	8.797	1.000	A	H	R
22	S	DCBP (S)	9.507	1.000	Q	H	R
23		Hexachlorobutadiene	3.080	1.000	A	H	R
24		Hexachlorobenzene	5.678	1.000	A	H	R
25		Oxychlordane	7.157	1.000	Q	H	R
26		2,4'-DDE	7.238	1.000	A	H	R
27		trans-Nonachlor	7.414	1.000	A	H	R
28		2,4'-DDD	7.610	1.000	A	H	R
29		2,4'-DDT	7.793	1.000	A	H	R
30		cis-Nonachlor	7.885	1.000	A	H	R
31		Mirex	8.550	1.000	Q	H	R
32		Chlordane (1)	7.326	1.000	A	H	R
33		Chlordane (2)	7.419	1.000	A	H	R
34		Chlordane (3)	7.966	1.000	A	H	R
35		Chlordane - AVE	0.000	1.000	A	H	R
36		Toxaphene (1)	7.399	1.000	A	H	R
37		Toxaphene (2)	7.691	1.000	A	H	R
38		Toxaphene (3)	8.002	1.000	Q	H	R
39		Toxaphene (4)	8.244	1.000	Q	H	R
40		Toxaphene (5)	8.471	1.000	A	H	R
41		Toxaphene (6)	8.538	1.000	A	H	R
42		Toxaphene - AVE	0.000	1.000	A	H	R
43		Signal #2	3.787	1.000	A	H	R
44	S	TCMX (S) #2	5.981	1.000	A	H	R
45		a-BHC #2	6.584	1.000	Q	H	R
46		g-BHC #2	6.902	1.000	Q	H	R
47		b-BHC #2	6.966	1.000	A	H	R
48		Heptachlor #2	7.276	1.000	A	H	R
49		d-BHC #2	7.220	1.000	Q	H	R
50		Aldrin #2	7.542	1.000	Q	H	R
51		Heptachlor Expoxide #2	7.979	1.000	A	H	R
52		trans-Chlordane #2	8.119	1.000	A	H	R
53		cis-Chlordane #2	8.226	1.000	A	H	R
54		Endosulfan I #2	8.277	1.000	A	H	R
55		4,4'-DDE #2	8.331	1.000	Q	H	R
56		Dieldrin #2	8.477	1.000	Q	H	R

57		Endrin #2	8.705	1.000	Q	H	R
58		4,4'-DDD #2	8.748	1.000	Q	H	R
59		Endosulfan II #2	8.853	1.000	Q	H	R
60		4,4'-DDT #2	8.974	1.000	Q	H	R
61		Endrin Aldehyde #2	9.089	1.000	A	H	R
62		Endosulfan Sulfate #2	9.281	1.000	Q	H	R
63		Methoxychlor #2	9.453	1.000	Q	H	R
64		Endrin Ketone #2	9.682	1.000	Q	H	R
65	S	DCBP (S) #2	10.537	1.000	Q	H	R
66		Hexachlorobutadiene #2	3.680	1.000	A	H	R
67		Hexachlorobenzene #2	6.447	1.000	Q	H	R
68		Oxychlordane #2	7.907	1.000	A	H	R
69		2,4'-DDE #2	8.110	1.000	A	H	R
70		trans-Nonachlor #2	8.181	1.000	A	H	R
71		2,4'-DDD #2	8.483	1.000	A	H	R
72		2,4'-DDT #2	8.708	1.000	Q	H	R
73		cis-Nonachlor #2	8.748	1.000	A	H	R
74		Mirex #2	9.673	1.000	Q	H	R
75		Chlordane (1) #2	8.117	1.000	A	H	R
76		Chlordane (2) #2	8.225	1.000	A	H	R
77		Chlordane (3) #2	8.889	1.000	A	H	R
78		Chlordane - AVE #2	0.000	1.000	A	H	R
79		Toxaphene (1) #2	8.454	1.000	A	H	R
80		Toxaphene (2) #2	8.801	1.000	A	H	R
81		Toxaphene (3) #2	8.836	1.000	A	H	R
82		Toxaphene (4) #2	8.905	1.000	Q	H	R
83		Toxaphene (5) #2	9.081	1.000	A	H	R
84		Toxaphene (6) #2	9.463	1.000	A	H	R
85		Toxaphene - AVE #2	0.000	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

ECD8_QUANTPEST_200201.M Mon Feb 03 17:24:31 2020

Response Factor Report DUALECD8

Method Path : C:\msdchem\1\methods\
Method File : ECD8_QUANTPEST_200201.M
Title : Instrument: DualECD8
Last Update : Mon Feb 03 15:36:51 2020
Response Via : Initial Calibration

Calibration Files
1 =ECD8-02012036.D 2 =ECD8-02012037.D 3 =ECD8-02012038.D 4 =ECD8-02012039.D 5 =ECD8-02012040.D
6 =ECD8-02012041.D 7 =ECD8-02012042.D 8 =ECD8-02012023.D 9 =ECD8-02012024.D

		Compound	1	2	3	4	5	6	7	8	9	Avg	%RSD
1)	S	TCMX (S)	4.021	3.714	3.605	3.216	3.303	3.433	3.204	3.554	3.415	3.496 E6	7.49
2)		a-BHC	4.647	4.492	4.575	4.693	4.656	4.865	4.497	5.094	5.002	4.725 E6	4.57
3)		g-BHC	4.196	3.995	4.052	4.124	4.043	4.229	4.065	4.359	4.407	4.163 E6	3.50
4)		b-BHC	1.887	1.737	1.718	1.728	1.657	1.731	1.637	1.858	1.723	1.742 E6	4.71
5)		Heptachlor	4.427	4.223	4.052	4.001	3.990	4.151	3.846	4.163	4.138	4.110 E6	4.02
6)		d-BHC	2.893	2.800	3.178	3.344	3.397	3.748	3.648	4.199	4.131	3.482 E6	14.23
7)		Aldrin	4.236	4.023	3.939	4.004	3.955	4.077	3.909	4.209	4.012	4.041 E6	2.83
8)		Heptachlor Exp...	4.075	3.850	3.655	3.642	3.556	3.624	3.363	3.806	3.663	3.693 E6	5.42
9)		trans-Chlordane	4.014	3.866	3.617	3.633	3.645	3.694	3.627	3.928	3.822	3.761 E6	3.98
10)		cis-Chlordane	4.145	3.812	3.645	3.579	3.457	3.641	3.348	3.775	3.648	3.672 E6	6.21
11)		Endosulfan I	3.865	3.594	3.342	3.407	3.475	3.418	3.279	3.495	3.345	3.469 E6	5.07
12)		4,4'-DDE	3.258	2.976	3.182	3.180	3.207	3.307	3.360	3.787	3.629	3.321 E6	7.44
13)		Dieldrin	3.917	3.772	3.764	3.751	3.730	3.835	3.590	4.028	3.935	3.813 E6	3.43
14)		Endrin	3.403	3.308	3.220	3.231	3.135	3.314	3.101	3.384	3.276	3.264 E6	3.15
15)		4,4'-DDD	2.437	2.373	2.342	2.347	2.426	2.535	2.506	2.977	2.962	2.545 E6	9.79
16)		Endosulfan II	3.301	3.005	2.926	2.800	2.819	2.934	2.837	3.319	2.983	2.992 E6	6.49
17)		4,4'-DDT	2.704	2.498	2.454	2.527	2.469	2.724	2.696	2.988	3.136	2.688 E6	8.89
18)		Endrin Aldehyde	3.069	2.831	2.733	2.518	2.511	2.471	2.371	2.586	2.603	2.633 E6	8.12
19)		Endosulfan Sul...	3.097	2.922	2.793	2.769	2.704	2.801	2.677	3.045	2.953	2.862 E6	5.19
20)		Methoxychlor	1.301	1.197	1.134	1.113	1.123	1.159	1.135	1.331	1.366	1.207 E6	8.20
21)		Endrin Ketone	3.731	3.541	3.412	3.325	3.268	3.423	3.196	3.668	3.544	3.456 E6	5.21
22)	S	DCBP (S)	4.276	3.342	3.075	2.710	2.661	2.658	2.467	2.801	2.772	2.974 E6	18.56
23)		Hexachlorobuta...	4.557	4.206	3.987	4.002	3.838	3.491	3.731	3.510	3.761	3.898 E6	8.67
24)		Hexachlorobenzene	3.789	3.452	3.320	3.289	3.265	3.118	3.314	3.206	3.501	3.362 E6	5.88
25)		Oxychlordane	4.157	3.626	3.385	3.237	3.198	2.920	3.210	2.998	3.218	3.328 E6	11.17
26)		2,4'-DDE	2.580	2.295	2.244	2.349	2.280	2.088	2.327	2.230	2.414	2.312 E6	5.85
27)		trans-Nonachlor	4.338	3.769	3.785	3.623	3.588	3.273	3.540	3.440	3.640	3.666 E6	8.10
28)		2,4'-DDD	2.223	1.934	1.919	1.977	1.853	1.688	1.863	1.889	2.085	1.937 E6	7.79
29)		2,4'-DDT	2.837	2.374	2.364	2.375	2.293	2.144	2.342	2.299	2.510	2.393 E6	8.04
30)		cis-Nonachlor	4.594	4.089	4.142	4.121	4.044	3.662	4.002	3.793	4.178	4.069 E6	6.40
31)		Mirex	3.386	2.919	2.767	2.665	2.543	2.233	2.343	2.327	2.436	2.624 E6	13.82
32)		Chlordane (1)	4.222	3.866	4.098	3.992	3.885	4.071	3.900			4.005 E5	3.30
33)		Chlordane (2)	5.231	4.769	5.007	4.874	4.684	4.680	4.799			4.863 E5	4.07
34)		Chlordane (3)	1.478	1.272	1.303	1.294	1.236	1.265	1.266			1.302 E5	6.19
35)		Chlordane - AVE										0.000	-1.00
36)		Toxaphene (1)	1.695	1.724	1.687	1.605	1.525	1.713	1.509			1.637 E4	5.53
37)		Toxaphene (2)	3.573	3.364	3.172	3.039	2.857	3.129	2.857			3.142 E4	8.31
38)		Toxaphene (3)	9.230	7.765	7.108	6.978	6.766	7.487	6.743			7.439 E4	11.74
39)		Toxaphene (4)	1.101	0.734	0.686	0.678	0.634	0.713	0.645			0.741 E5	21.88
40)		Toxaphene (5)	5.859	5.396	5.268	5.362	5.091	5.760	5.204			5.420 E4	5.28
41)		Toxaphene (6)	8.445	7.582	7.293	7.412	7.198	8.043	7.265			7.605 E4	6.15
42)		Toxaphene - AVE										0.000	-1.00

MJP 2/3/20

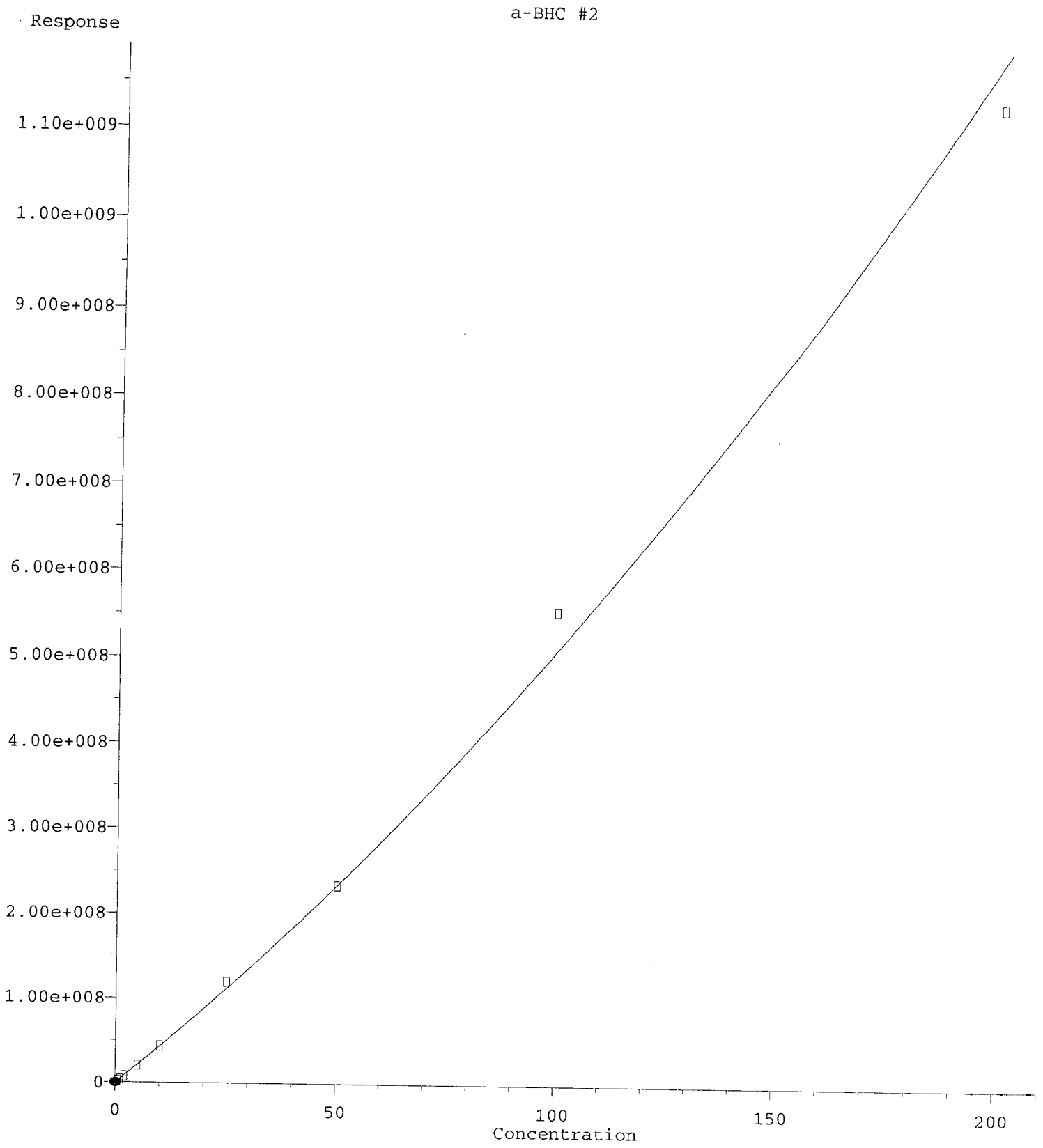
Response Factor Report DUALECD8

Method Path : C:\msdchem\1\methods\
Method File : ECD8_QUANTPEST_200201.M
Title : Instrument: DualECD8

Signal #2 Calibration Files
1 =ECD8-02012036.D 2 =ECD8-02012037.D 3 =ECD8-02012038.D
4 =ECD8-02012039.D 5 =ECD8-02012040.D 6 =ECD8-02012041.D

		Compound	1	2	3	4	5	6	Avg	%RSD
44)	S	TCMX (S) #2	3.615	3.326	3.232	3.006	3.188	3.406	3.366	3.864 4.042 3.450 E6 9.65
45)		a-BHC #2	3.814	3.754	3.796	4.050	4.349	4.768	4.666	5.537 5.667 4.489 E6 16.30
46)		g-BHC #2	3.716	3.614	3.572	3.781	3.852	4.314	4.236	4.913 4.902 4.100 E6 12.77
47)		b-BHC #2	1.743	1.673	1.697	1.560	1.606	1.713	1.706	1.968 1.959 1.736 E6 8.12
48)		Heptachlor #2	4.334	4.012	3.806	3.874	3.874	4.179	4.218	4.770 4.830 4.211 E6 8.97
49)		d-BHC #2	3.050	2.822	3.180	3.257	3.456	4.038	3.858	4.722 4.698 3.676 E6 18.98
50)		Aldrin #2	3.775	3.540	3.606	3.652	3.695	4.132	3.917	4.720 4.644 3.965 E6 11.20
51)		Heptachlor Exp...	3.659	3.563	3.192	3.333	3.369	3.628	3.578	4.043 3.944 3.590 E6 7.70
52)		trans-Chlordan...	3.848	3.473	3.412	3.413	3.495	3.764	3.625	4.327 4.109 3.718 E6 8.75
53)		cis-Chlordane #2	3.704	3.361	3.207	3.212	3.205	3.640	3.461	3.951 3.964 3.523 E6 8.70
54)		Endosulfan I #2	3.179	3.093	3.044	2.996	3.065	3.426	3.349	3.925 3.669 3.305 E6 9.66
55)		4,4'-DDE #2	2.692	2.685	2.835	2.972	3.020	3.471	3.504	4.059 4.176 3.268 E6 17.29
56)		Dieldrin #2	3.423	3.204	3.278	3.379	3.498	3.835	3.843	4.251 4.356 3.674 E6 11.43
57)		Endrin #2	2.998	2.810	2.774	2.775	2.916	3.176	3.080	3.545 3.693 3.085 E6 10.83
58)		4,4'-DDD #2	2.239	2.115	2.175	2.251	2.276	2.607	2.730	3.301 3.398 2.566 E6 19.03
59)		Endosulfan II #2	2.885	2.617	2.599	2.537	2.594	2.921	2.923	3.419 3.424 2.880 E6 11.88
60)		4,4'-DDT #2	2.721	2.317	2.368	2.327	2.513	2.821	2.768	3.403 3.532 2.752 E6 16.32
61)		Endrin Aldehyd...	3.113	2.605	2.613	2.368	2.362	2.438	2.470	2.900 2.925 2.644 E6 10.32
62)		Endosulfan Sul...	3.070	2.491	2.606	2.504	2.504	2.806	2.701	3.154 3.303 2.793 E6 11.10
63)		Methoxychlor #2	1.963	1.214	1.310	1.130	1.087	1.207	1.206	1.490 1.522 1.347 E6 20.39
64)		Endrin Ketone #2	4.271	3.122	3.046	2.880	2.883	3.178	3.135	3.637 3.685 3.315 E6 13.87
65)	S	DCBP (S) #2	4.242	2.620	2.686	2.249	2.164	2.161	2.076	2.400 2.388 2.554 E6 26.09
66)		Hexachlorobuta...	5.188	4.879	4.653	4.750	4.709	4.384	4.983	4.691 5.340 4.842 E6 6.04
67)		Hexachlorobenz...	3.232	2.946	2.887	3.082	2.853	2.891	3.371	3.276 3.912 3.161 E6 10.74
68)		Oxychlordane #2	3.635	3.175	3.025	3.102	2.989	2.863	3.214	3.128 3.652 3.198 E6 8.55
69)		2,4'-DDE #2	2.400	2.104	2.130	2.181	2.196	2.045	2.343	2.384 2.673 2.273 E6 8.65
70)		trans-Nonachlo...	4.009	3.680	3.415	3.397	3.440	3.232	3.584	3.676 4.052 3.610 E6 7.71
71)		2,4'-DDD #2	1.922	1.795	1.840	1.860	1.806	1.718	1.985	1.955 2.347 1.914 E6 9.53
72)		2,4'-DDT #2	2.420	2.100	2.094	2.272	2.214	2.149	2.455	2.536 2.918 2.351 E6 11.32
73)		cis-Nonachlor #2	4.169	3.802	3.676	3.917	3.833	3.615	4.185	3.989 4.681 3.985 E6 8.18
74)		Mirex #2	2.952	2.855	2.435	2.293	2.096	1.911	2.097	2.042 2.398 2.342 E6 15.43
75)		Chlordane (1) #2	4.085	4.027	4.333	4.184	4.359	4.611	4.814	4.345 E5 6.55
76)		Chlordane (2) #2	3.718	3.182	3.522	3.534	3.639	3.848	4.005	3.636 E5 7.25
77)		Chlordane (3) #2	1.247	1.143	1.165	1.107	1.170	1.188	1.293	1.188 E5 5.31
78)		Chlordane - AV...								0.000 -1.00
79)		Toxaphene (1) #2	2.739	2.916	3.040	2.992	2.798	3.202	2.942	2.947 E4 5.22
80)		Toxaphene (2) #2	3.641	3.799	4.024	4.148	3.875	4.495	4.150	4.019 E4 6.98
81)		Toxaphene (3) #2	6.944	6.246	6.232	6.203	6.017	7.001	6.646	6.470 E4 6.05
82)		Toxaphene (4) #2	1.372	1.007	1.008	0.998	0.977	1.141	1.063	1.081 E5 12.95
83)		Toxaphene (5) #2	5.743	5.395	5.637	5.743	5.410	6.308	5.894	5.733 E4 5.45
84)		Toxaphene (6) #2	7.494	6.319	6.347	6.338	6.090	7.067	6.582	6.605 E4 7.54
85)		Toxaphene - AV...								0.000 -1.00

(#) = Out of Range

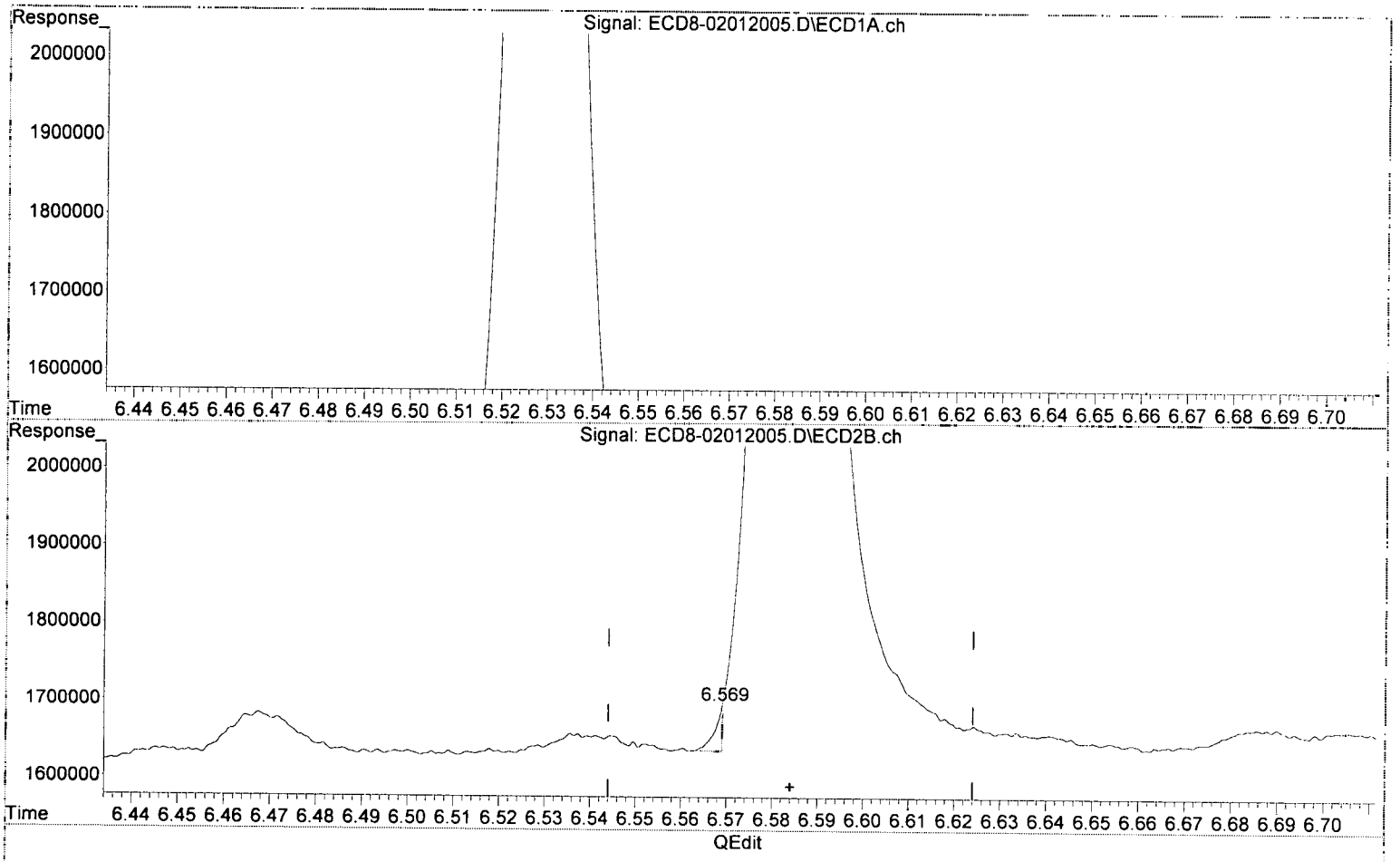


R = 8.27e+003 A*A + 4.27e+006 A - 3.23e+005
Coef of Det (r^2) = 0.996 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 15:26
Operator : MJB
Sample : 0B01012-CAL1
Misc : A20B001, AB 0.5 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:45:47 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(2) a-BHC

5.836min 0.492 ng/mL

response 2323532

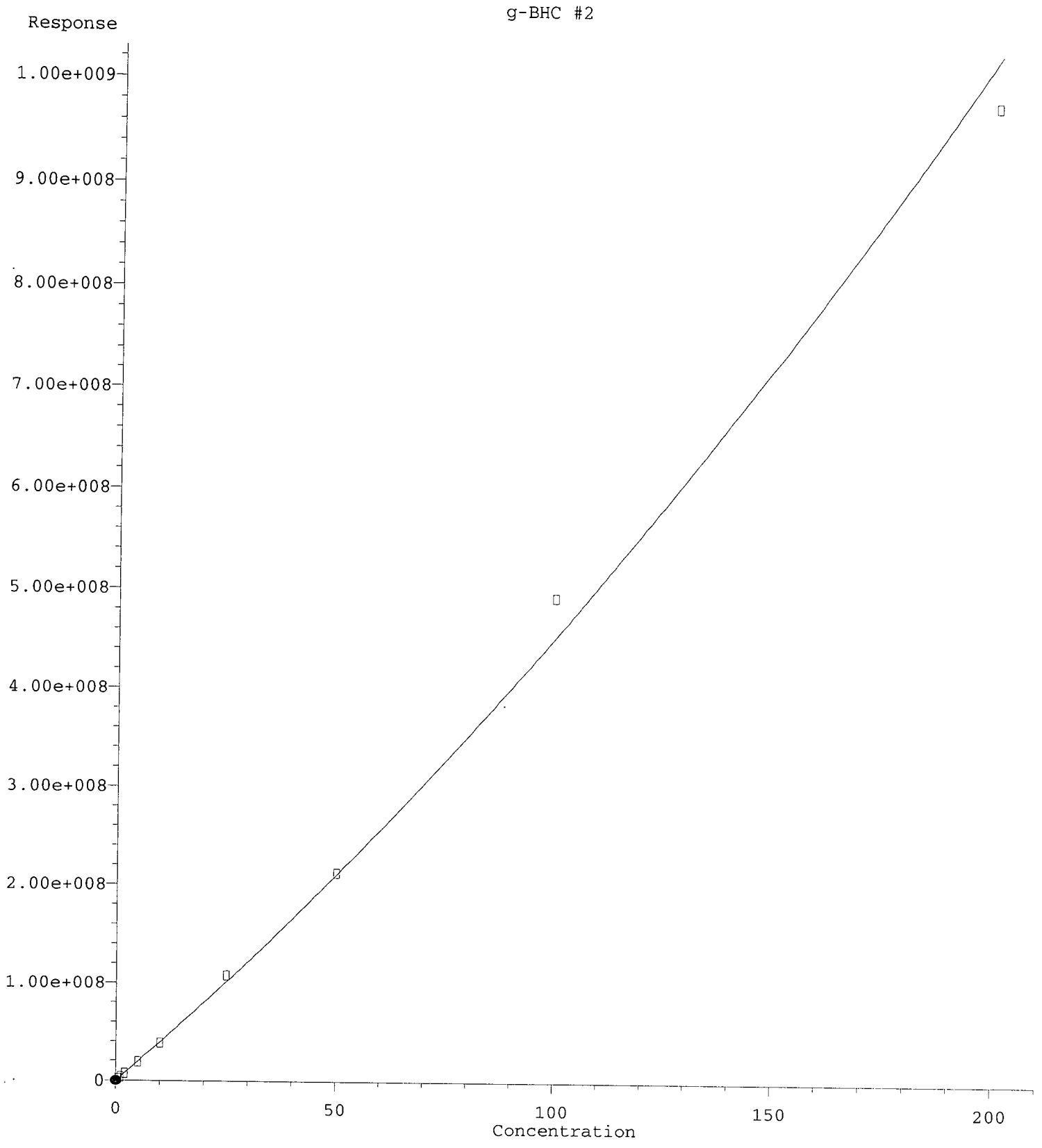
MJB 2/3/20

(2) a-BHC #2

6.569min 0.090 ng/mL

response 59842

(+) = Expected Retention Time

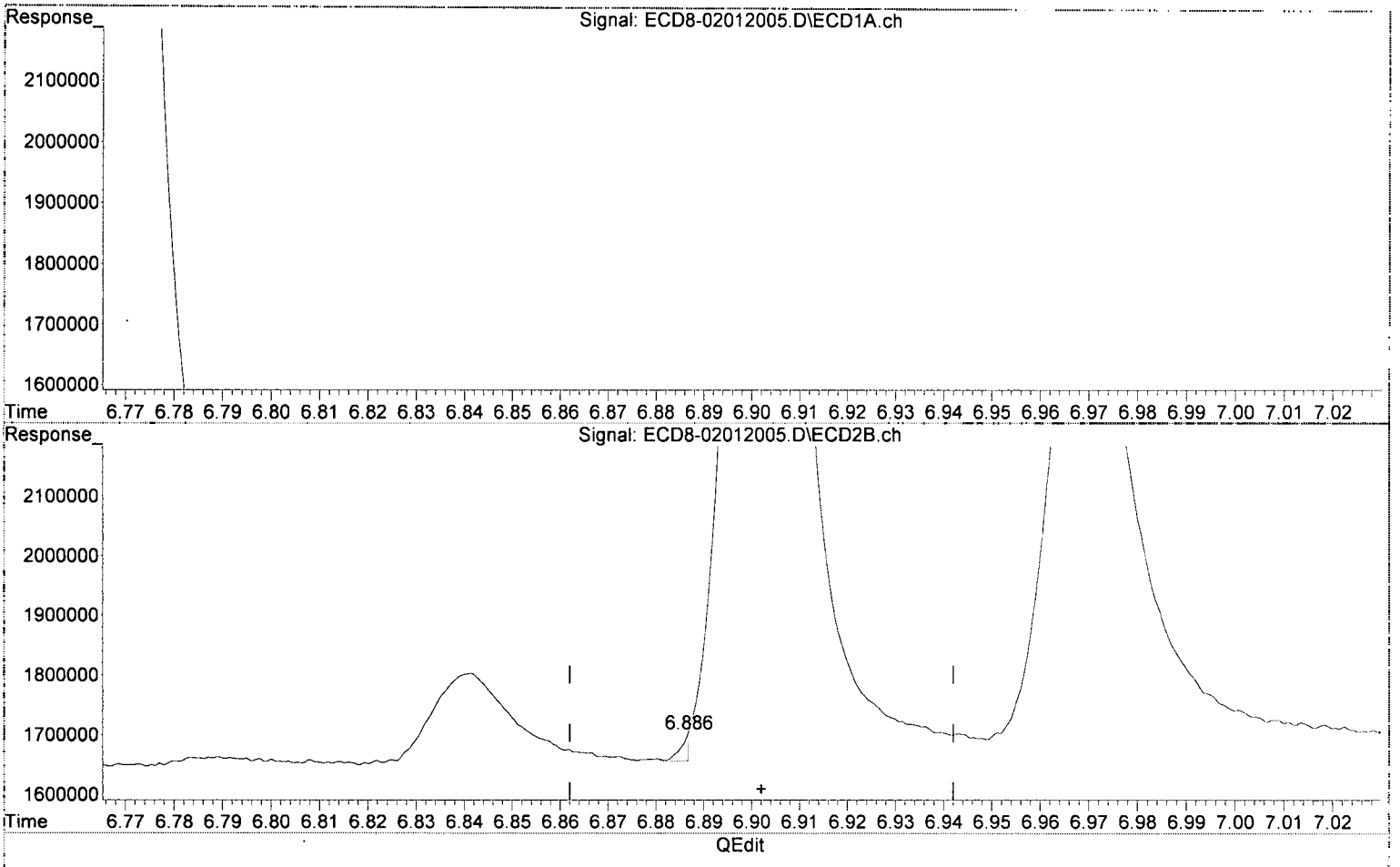


R = 6.15e+003 A*A + 3.90e+006 A - 1.64e+005
Coef of Det (r^2) = 0.996 Curve Fit: Quadratic w/(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 15:26
Operator : MJB
Sample : 0B01012-CAL1
Misc : A20B001, AB 0.5 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:45:47 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(3) g-BHC

6.120min 0.504 ng/mL

response 2098226

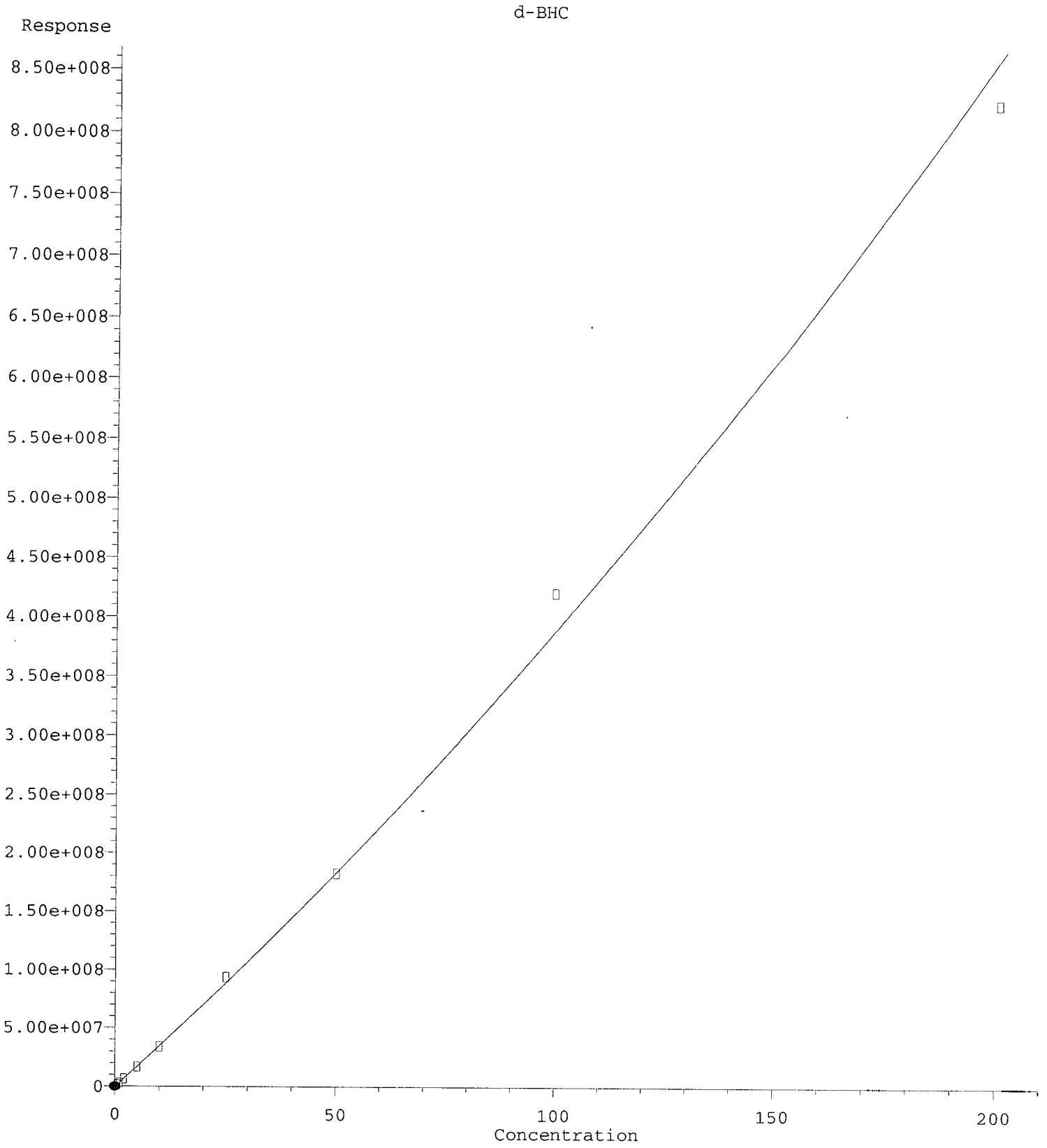
MJB 2/3/20

(3) g-BHC #2

6.886min 0.052 ng/mL m

response 37568

(+) = Expected Retention Time

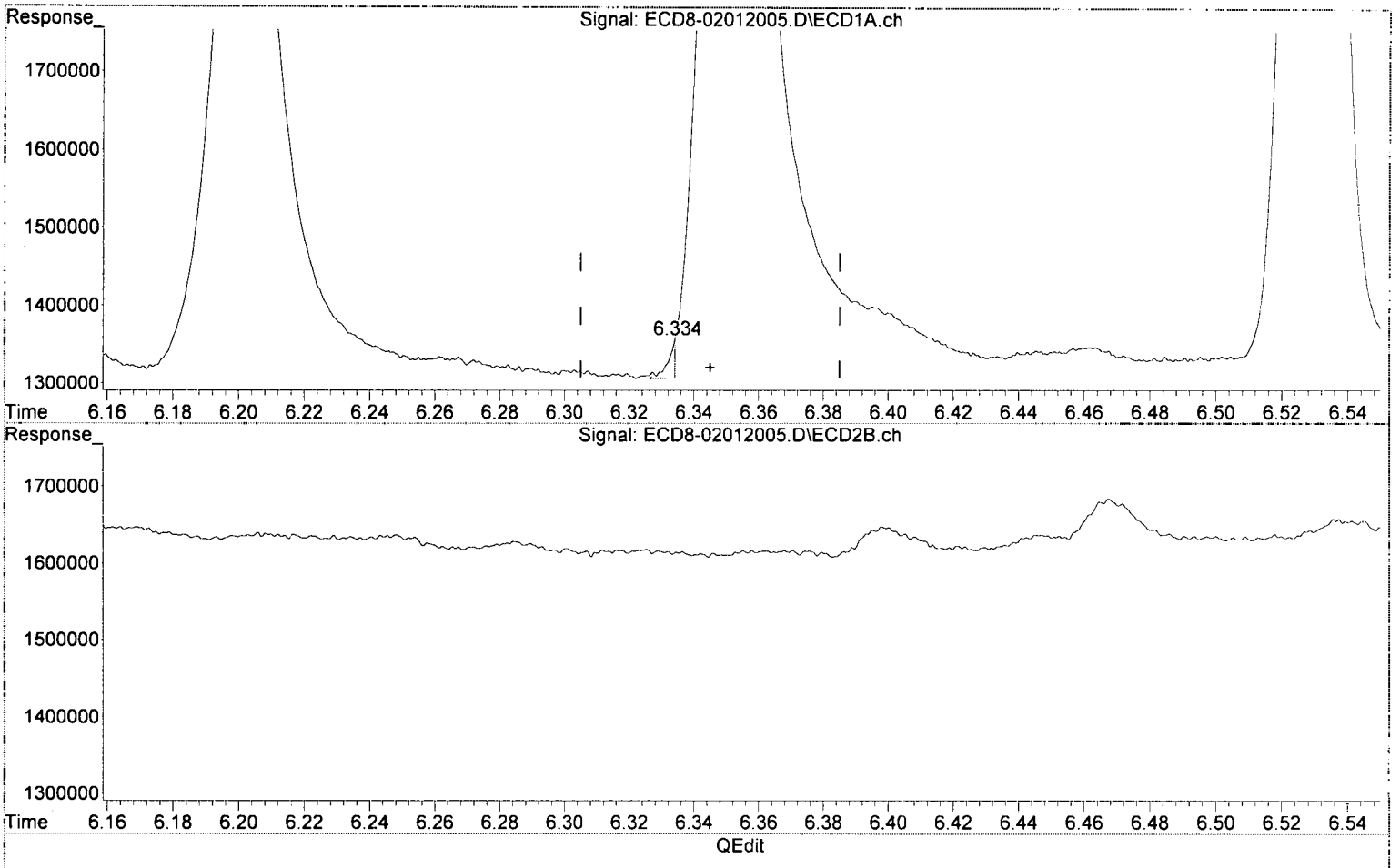


R = 4.28e+003 A*A + 3.45e+006 A - 3.68e+005
Coef of Det (r^2) = 0.996 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 15:26
Operator : MJB
Sample : 0B01012-CAL1
Misc : A20B001, AB 0.5 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:45:47 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(6) d-BHC

6.334min 0.121 ng/mL m

response 50088

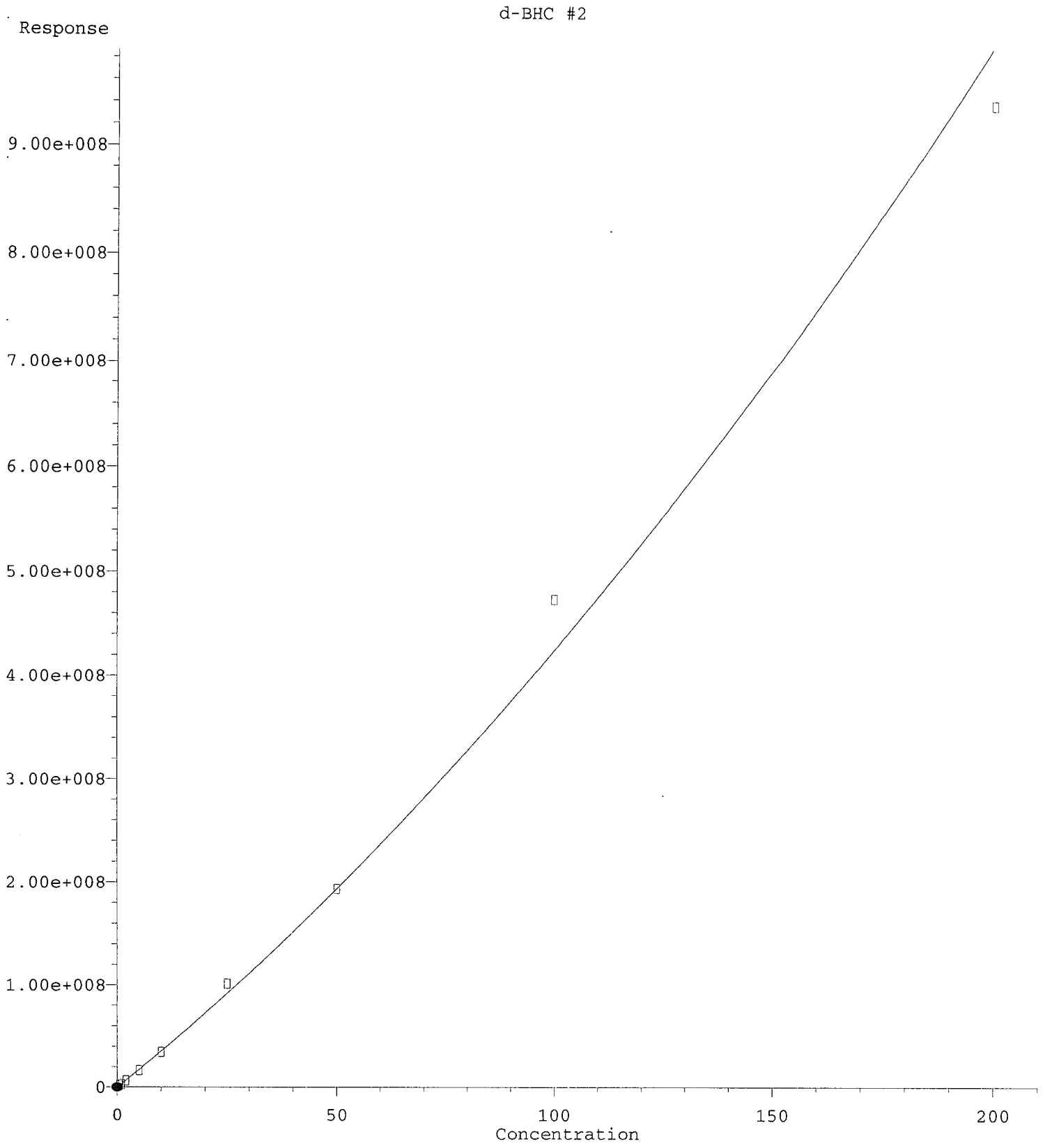
MB 2/3/20

(6) d-BHC #2

7.224min 0.533 ng/mL

response 1525163

(+) = Expected Retention Time

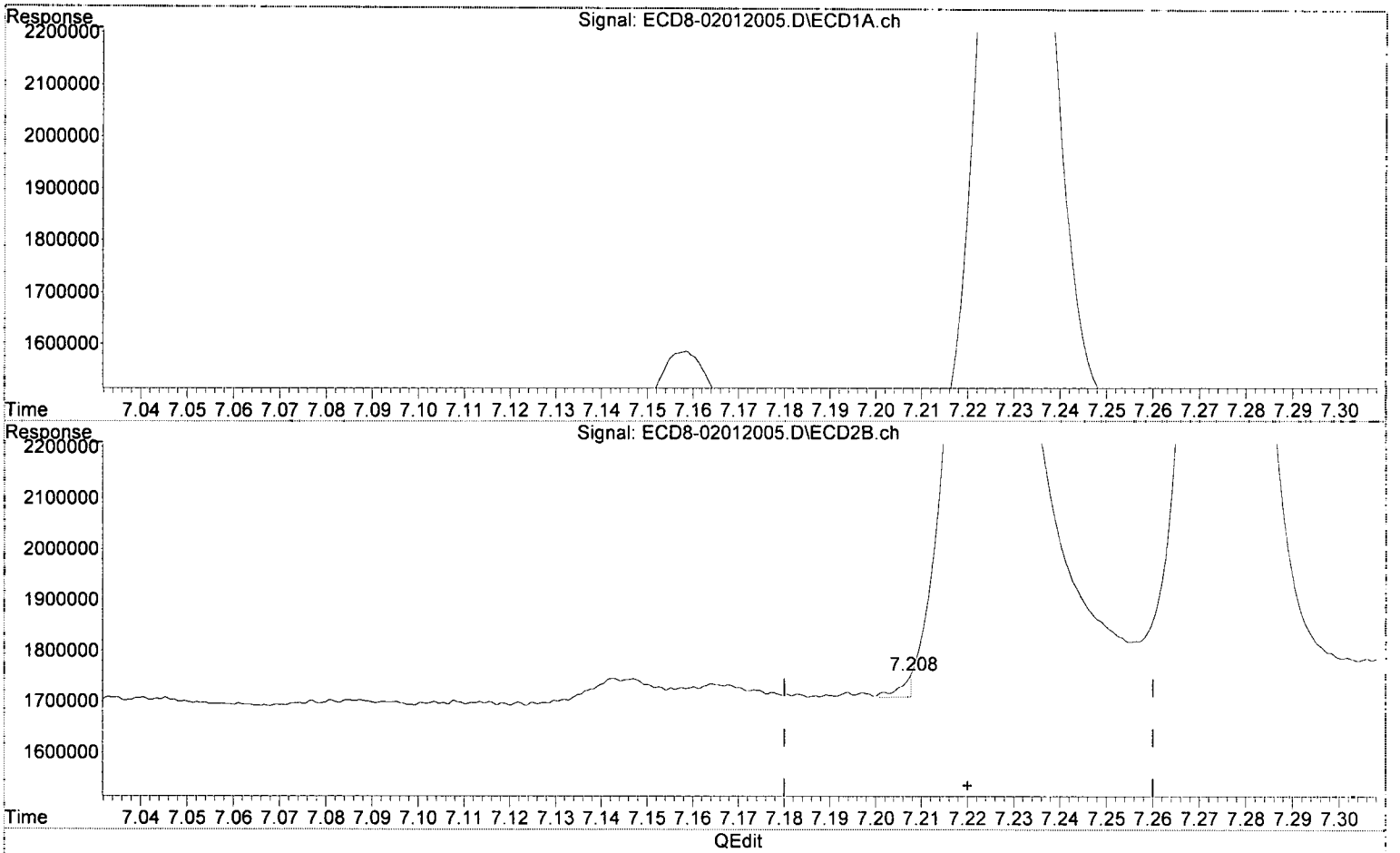


R = 7.38e+003 A*A + 3.50e+006 A - 3.41e+005
Coef of Det (r^2) = 0.993 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 15:26
Operator : MJB
Sample : 0B01012-CAL1
Misc : A20B001, AB 0.5 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:45:47 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



QEdit

(6) d-BHC

6.334min 0.121 ng/mL m

response 50088

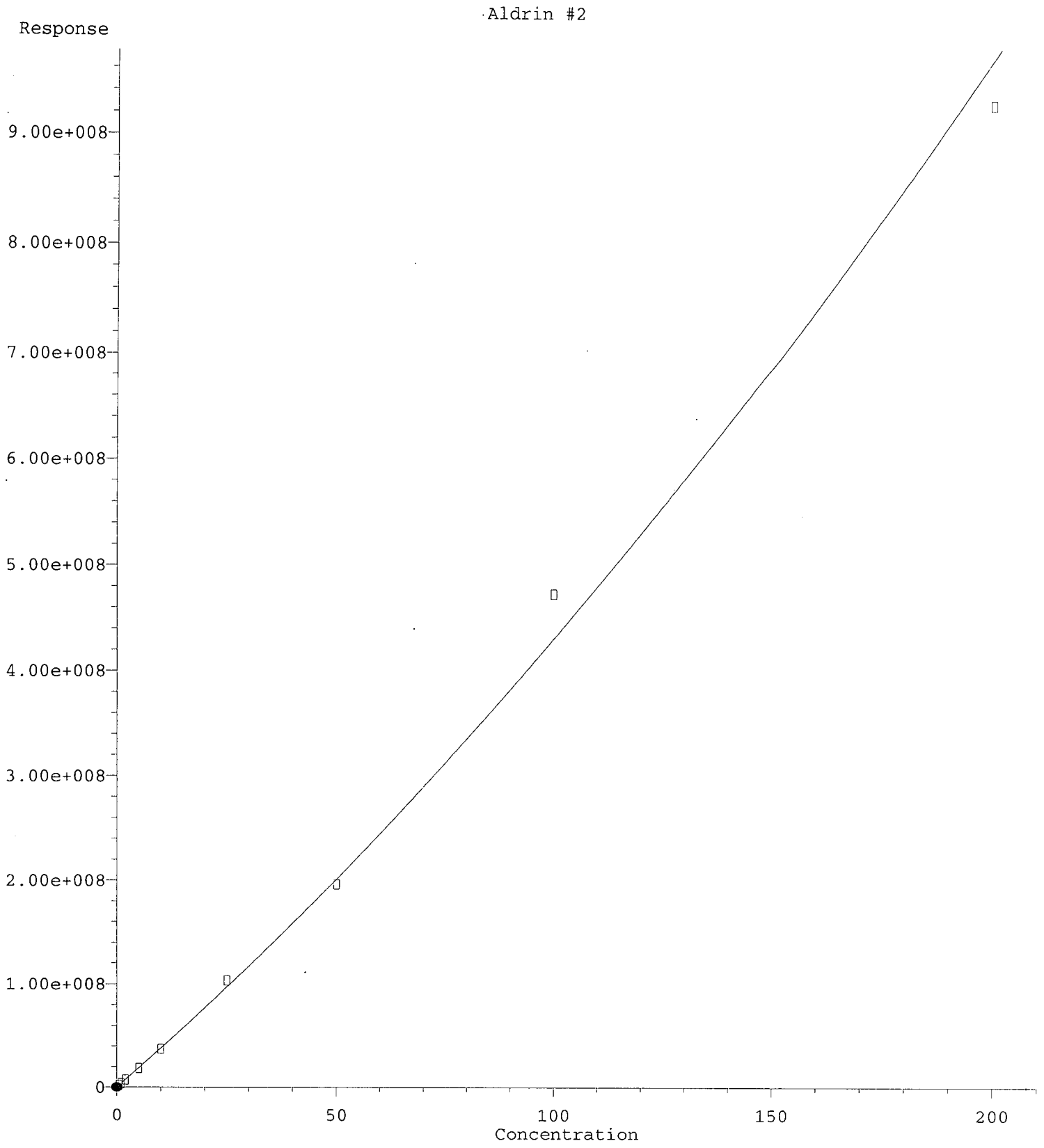
MJB 2/3/20

(6) d-BHC #2

7.208min 0.110 ng/mL m

response 42952

(+) = Expected Retention Time

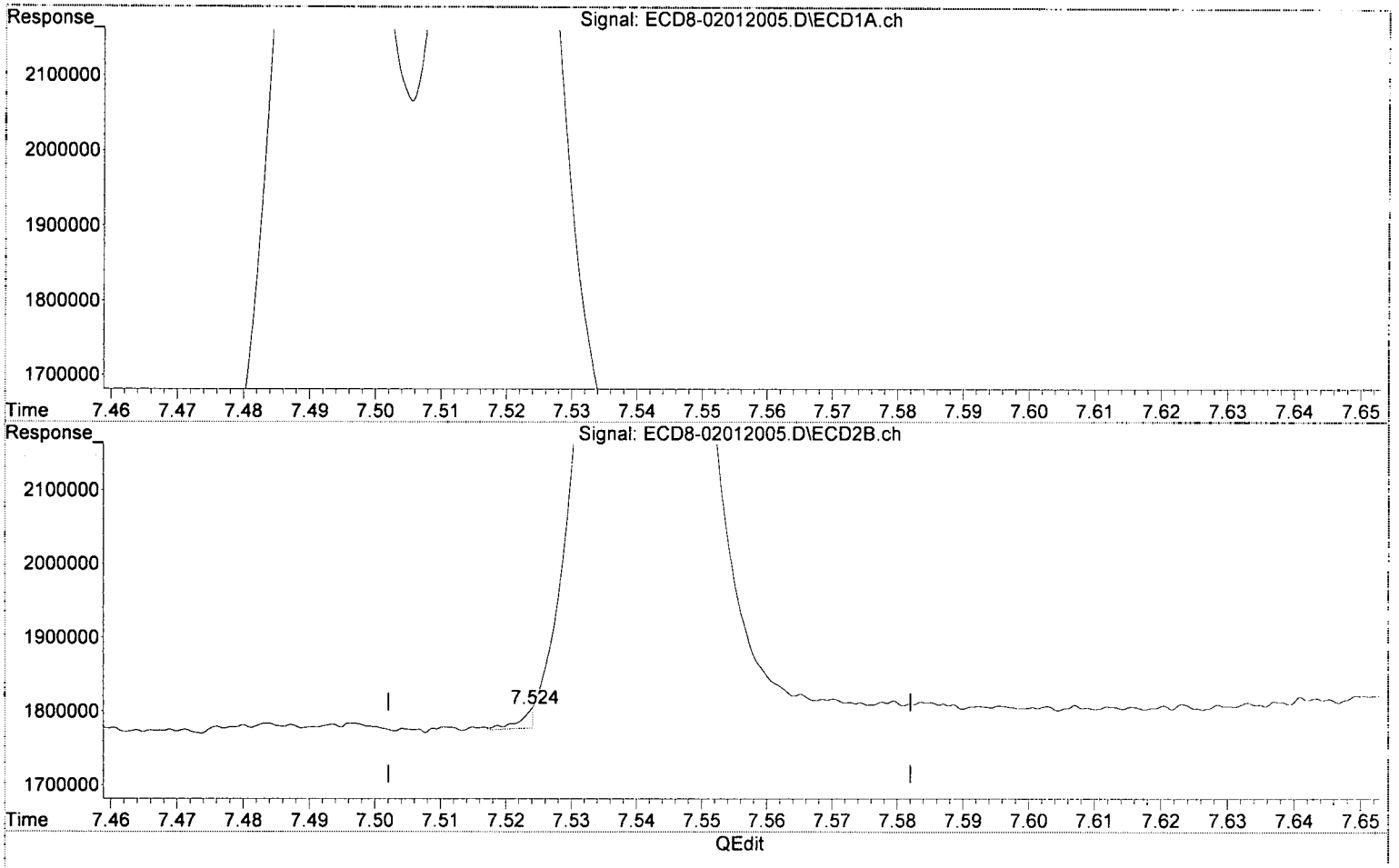


R = 5.56e+003 A*A + 3.74e+006 A - 4.51e+004
Coef of Det (r^2) = 0.996 Curve Fit: Quadratic w/(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 15:26
Operator : MJB
Sample : 0B01012-CAL1
Misc : A20B001, AB 0.5 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:45:47 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(7) Aldrin

6.769min 0.524 ng/mL

response 2117773

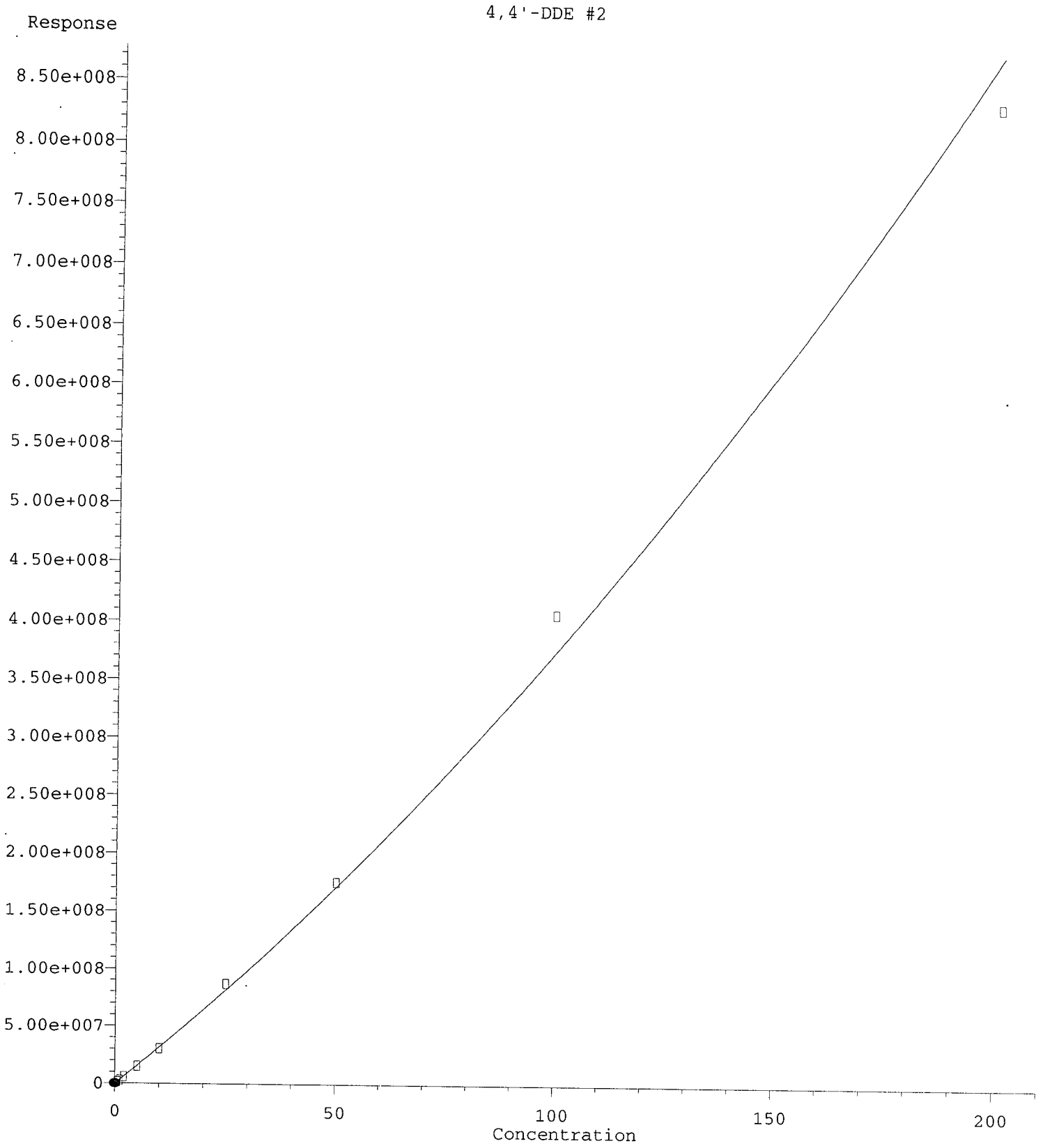
MJB 2/3/20

(7) Aldrin #2

7.524min 0.019 ng/mL (m)

response 26735

(+) = Expected Retention Time

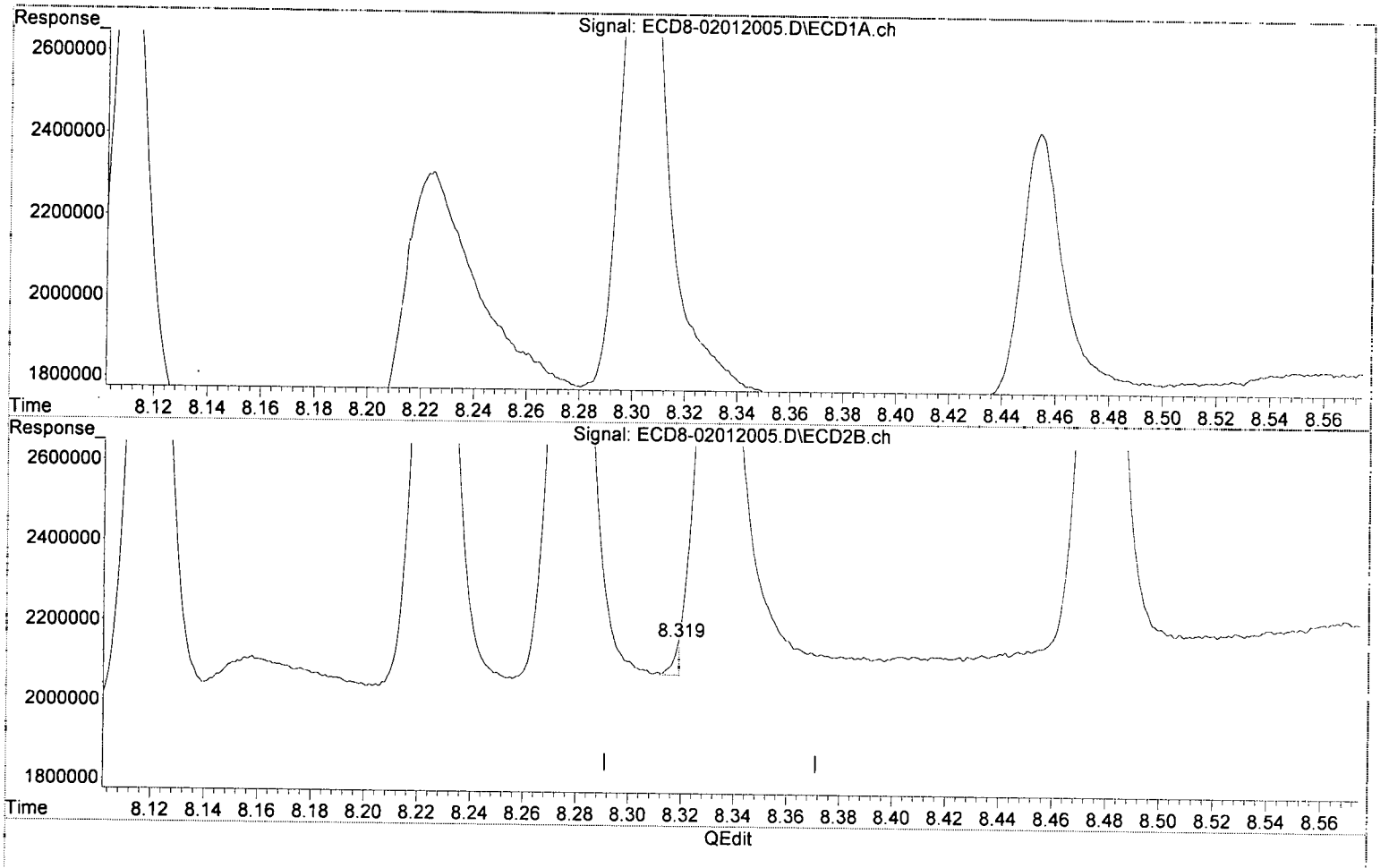


R = 6.32e+003 A*A + 3.11e+006 A - 2.74e+005
Coef of Det (r^2) = 0.996 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 15:26
Operator : MJB
Sample : 0B01012-CAL1
Misc : A20B001, AB 0.5 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:45:47 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(12) 4,4'-DDE

7.493min 0.491 ng/mL

response 1628951

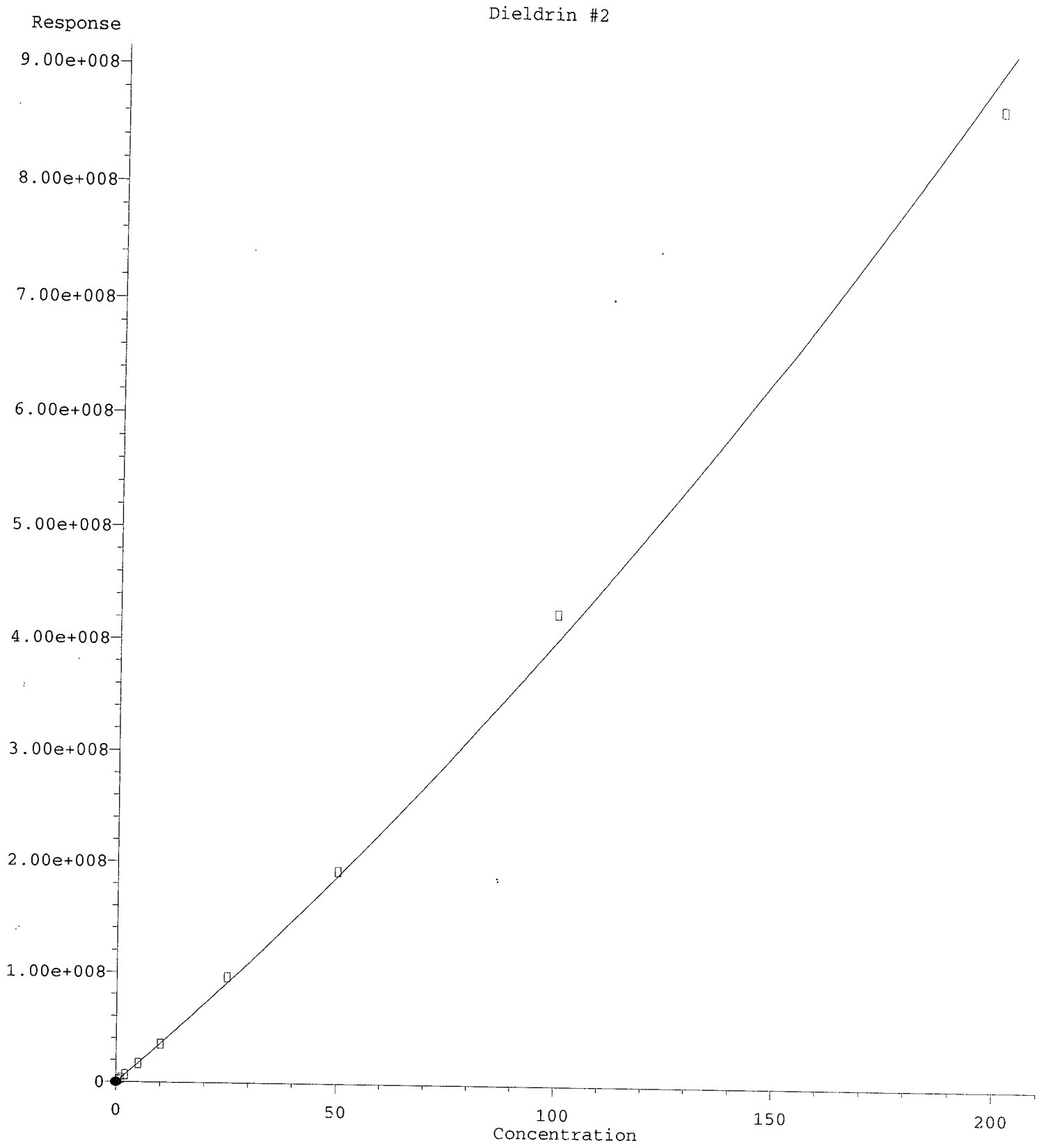
MJB 2/3/20

(12) 4,4'-DDE #2

8.319min 0.115 ng/mL (m)

response 84324

(+) = Expected Retention Time

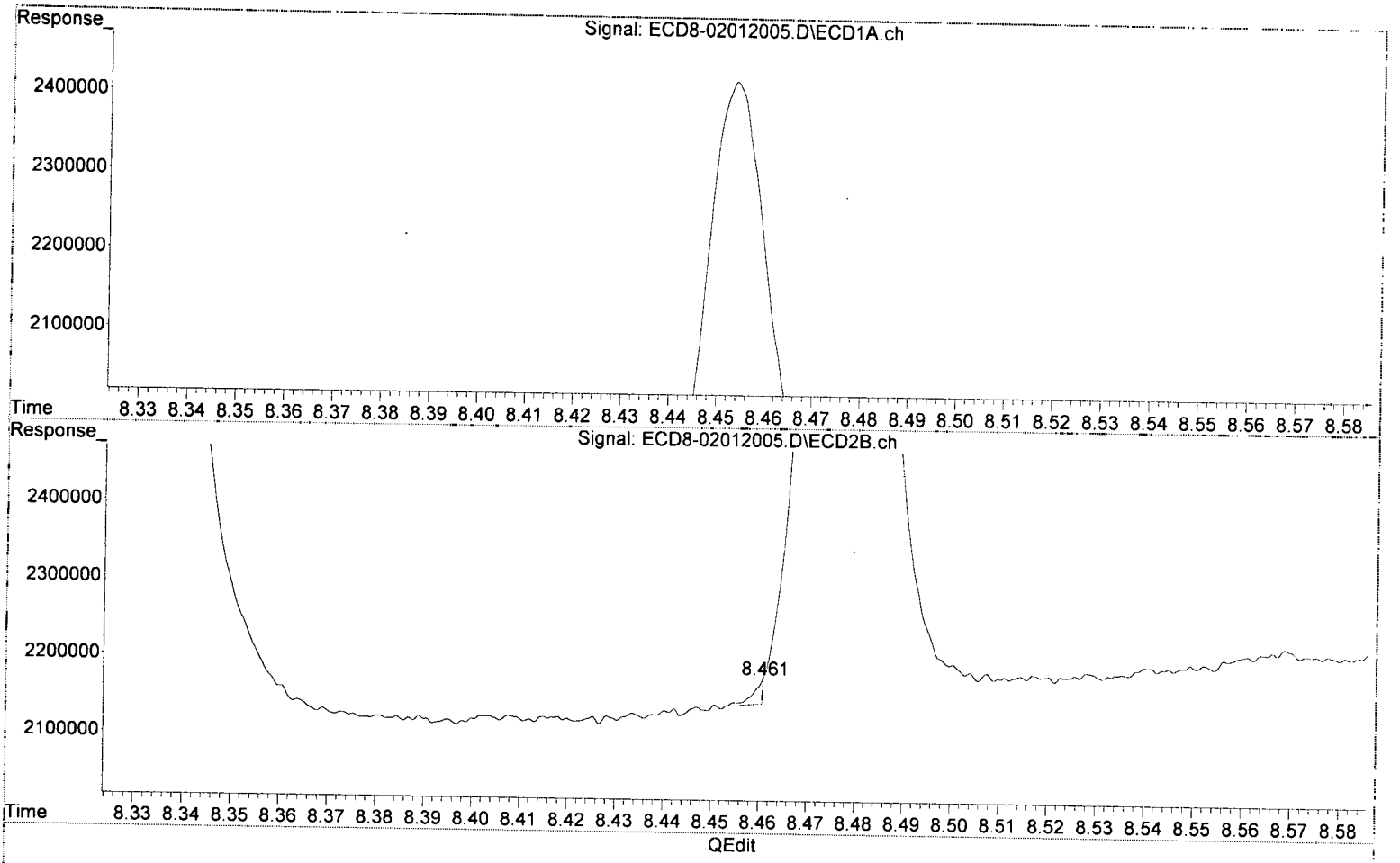


R = 5.10e+003 A*A + 3.50e+006 A - 1.13e+005
Coef of Det (r^2) = 0.997 Curve Fit: Quadratic w/1/a^2
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 15:26
Operator : MJB
Sample : 0B01012-CAL1
Misc : A20B001, AB 0.5 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:45:47 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(13) Dieldrin

7.691min 0.514 ng/mL

response 1958633

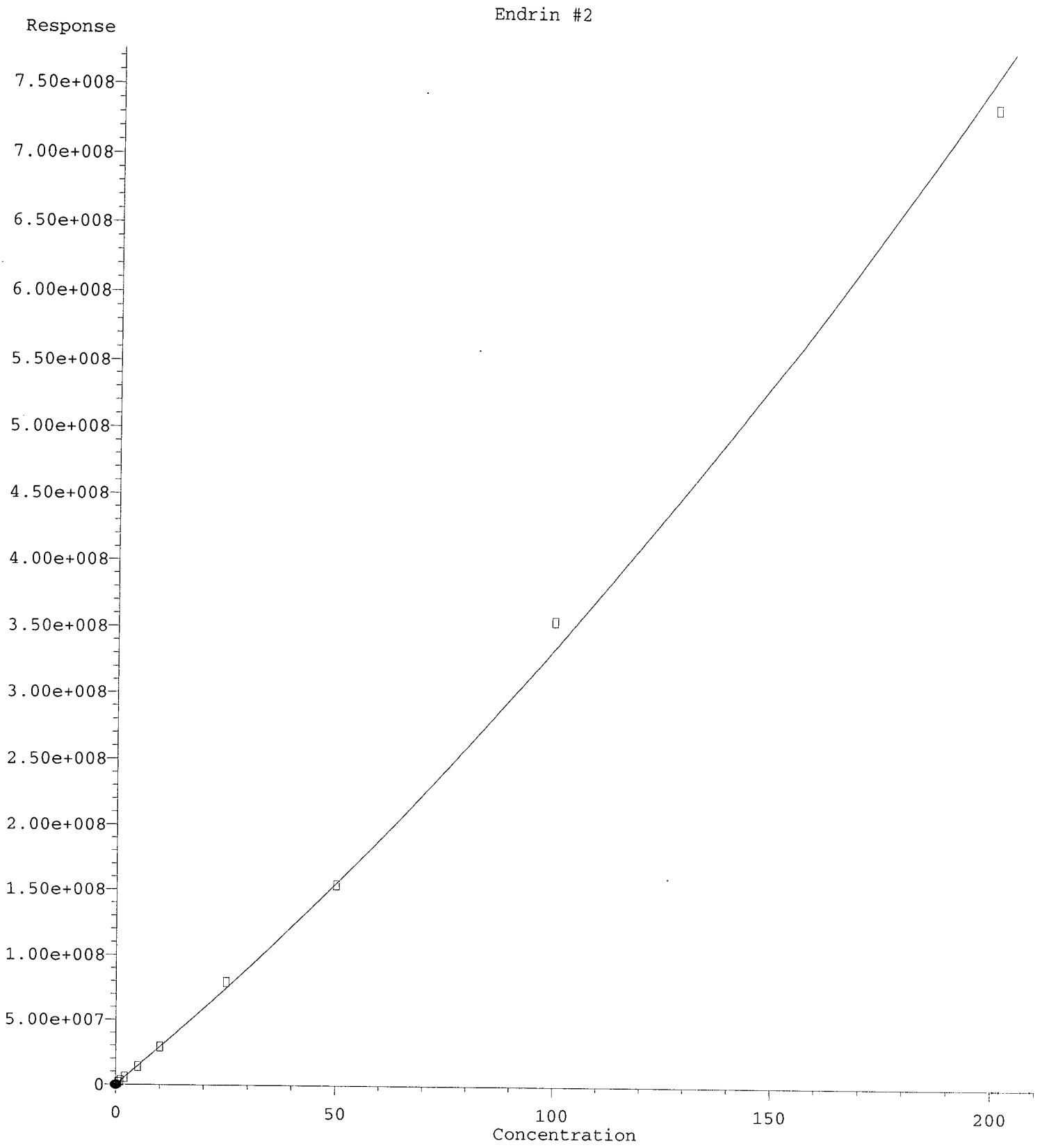
MJB 2/3/20

(13) Dieldrin #2

8.461min 0.041 ng/mL (m)

response 30875

(+) = Expected Retention Time

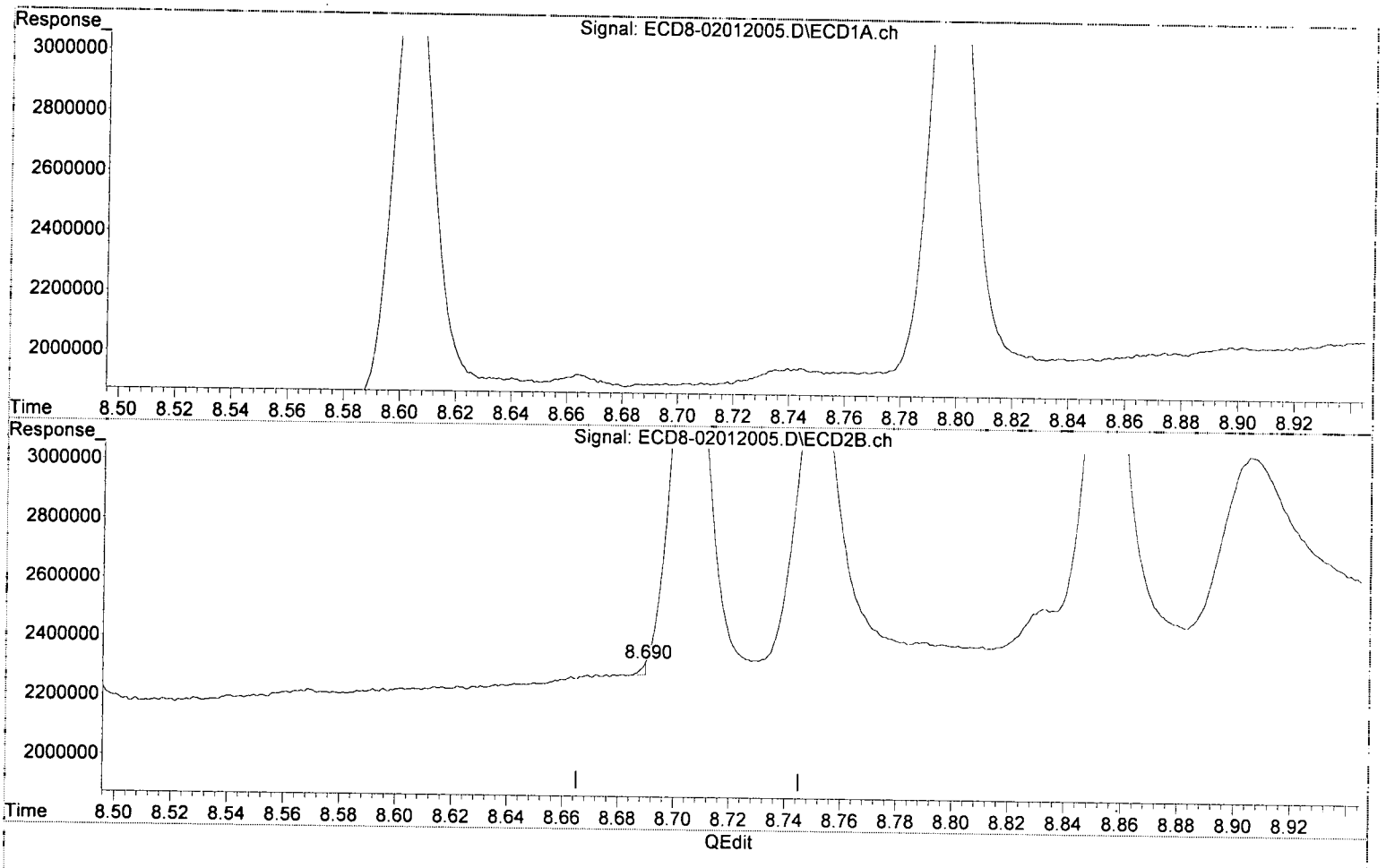


R = 4.68e+003 A*A + 2.87e+006 A + 2.17e+004
Coef of Det (r^2) = 0.998 Curve Fit: Quadratic w/(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 15:26
Operator : MJB
Sample : 0B01012-CAL1
Misc : A20B001, AB 0.5 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:45:47 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(14) Endrin

7.854min 0.521 ng/mL

response 1701747

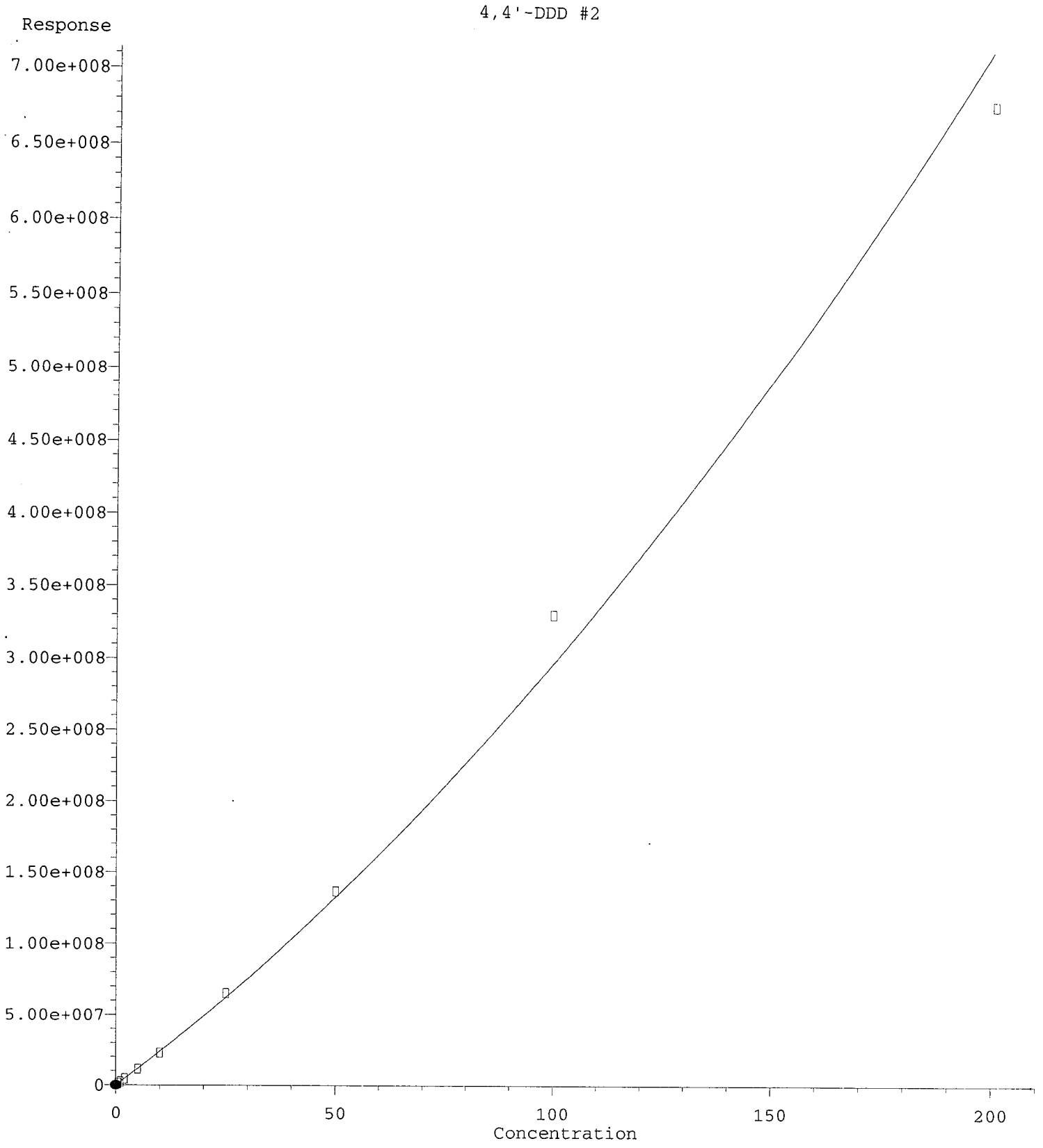
MB 2/3/20

(14) Endrin #2

8.690min 0.007 ng/mL (m)

response 40887

(+) = Expected Retention Time

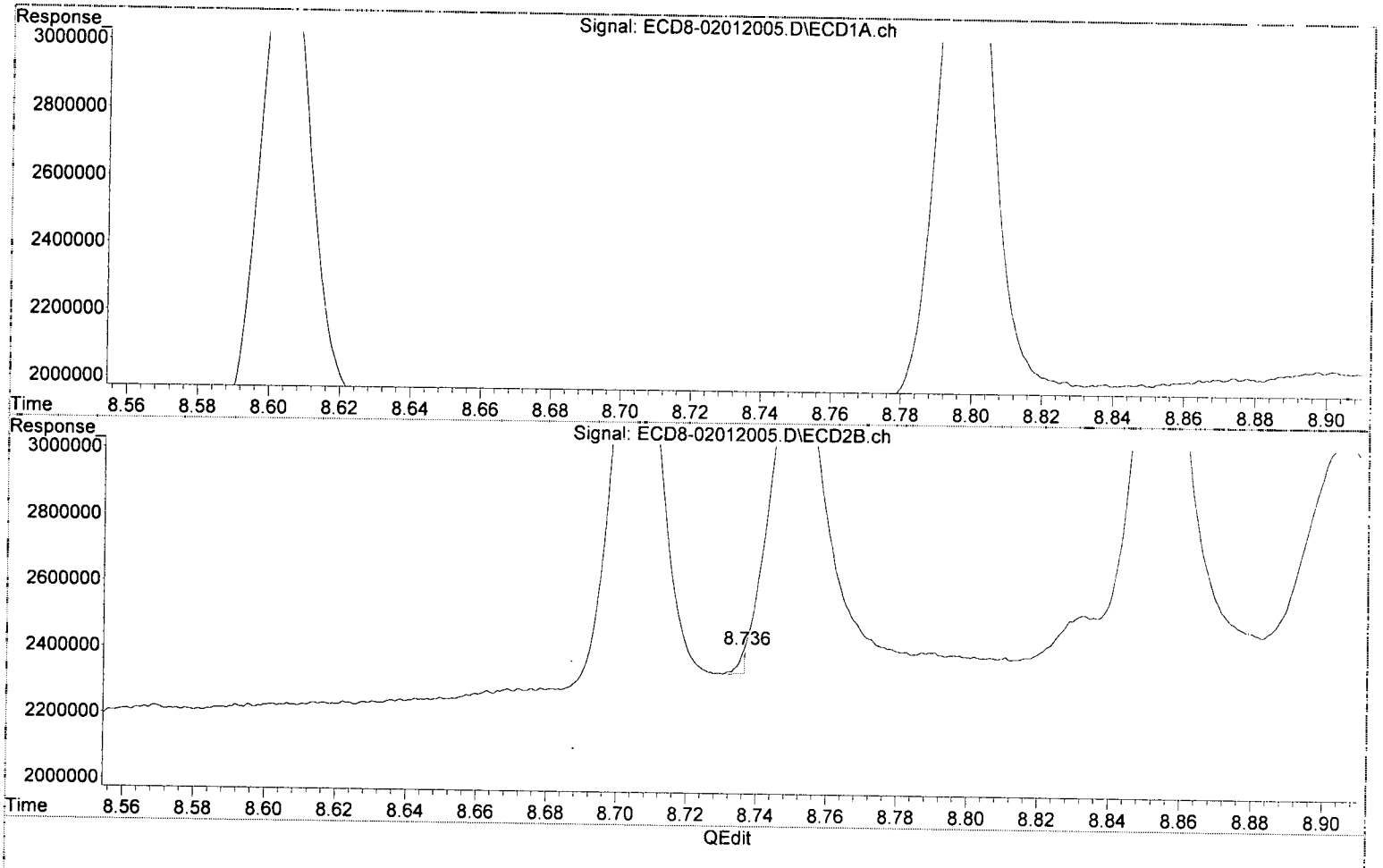


R = 6.31e+003 A*A + 2.33e+006 A - 1.00e+005
Coef of Det (r^2) = 0.995 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 15:26
Operator : MJB
Sample : 0B01012-CAL1
Misc : A20B001, AB 0.5 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:45:47 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(15) 4,4'-DDD

7.915min 0.479 ng/mL

response 1218671

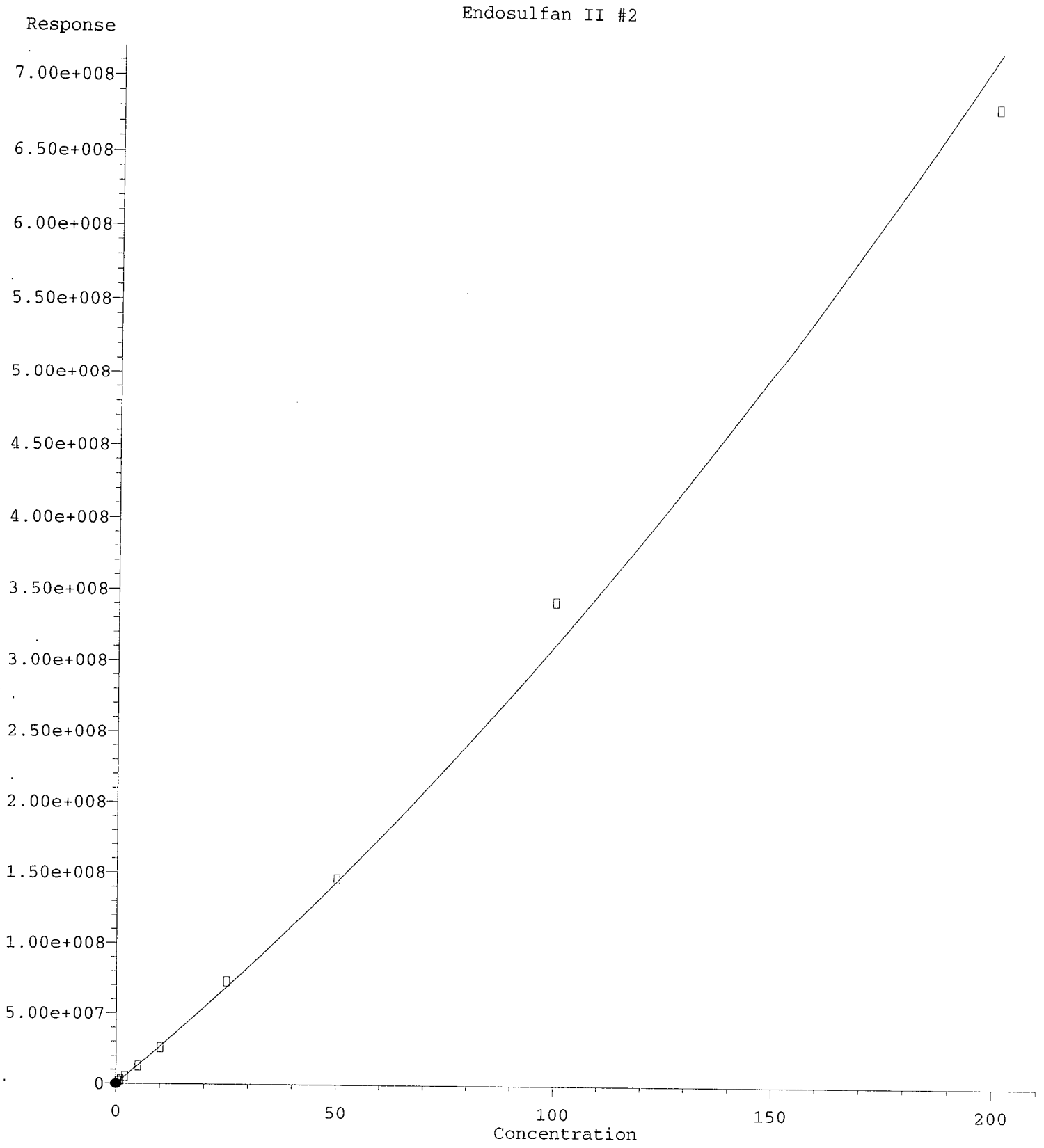
MWB 2/3/20

(15) 4,4'-DDD #2

8.736min 0.075 ng/mL (m)

response 74855

(+) = Expected Retention Time

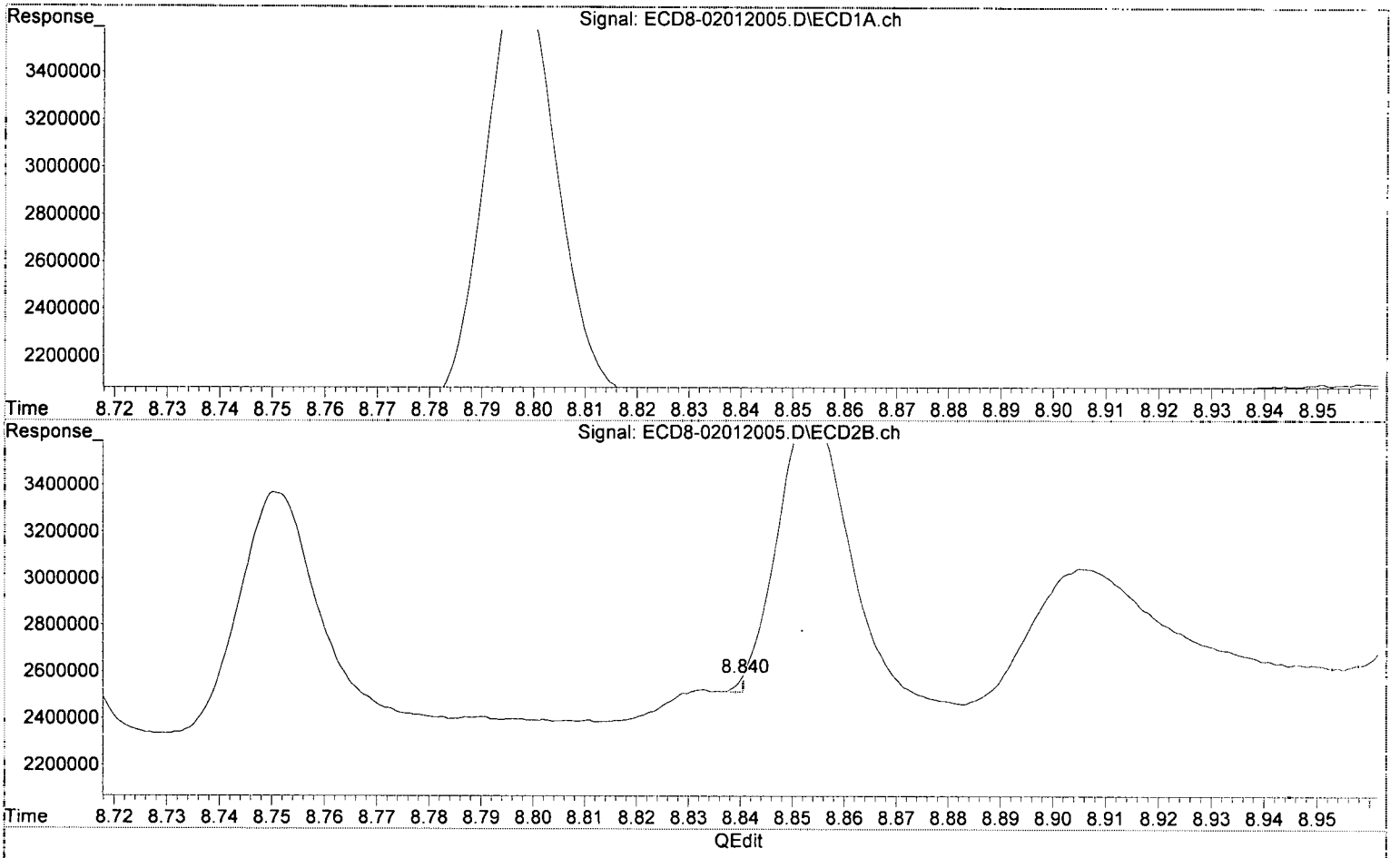


R = 4.81e+003 A*A + 2.64e+006 A + 8.03e+004
Coef of Det (r^2) = 0.996 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 15:26
Operator : MJB
Sample : 0B01012-CAL1
Misc : A20B001, AB 0.5 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:45:47 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(16) Endosulfan II

8.013min 0.552 ng/mL

response 1650694

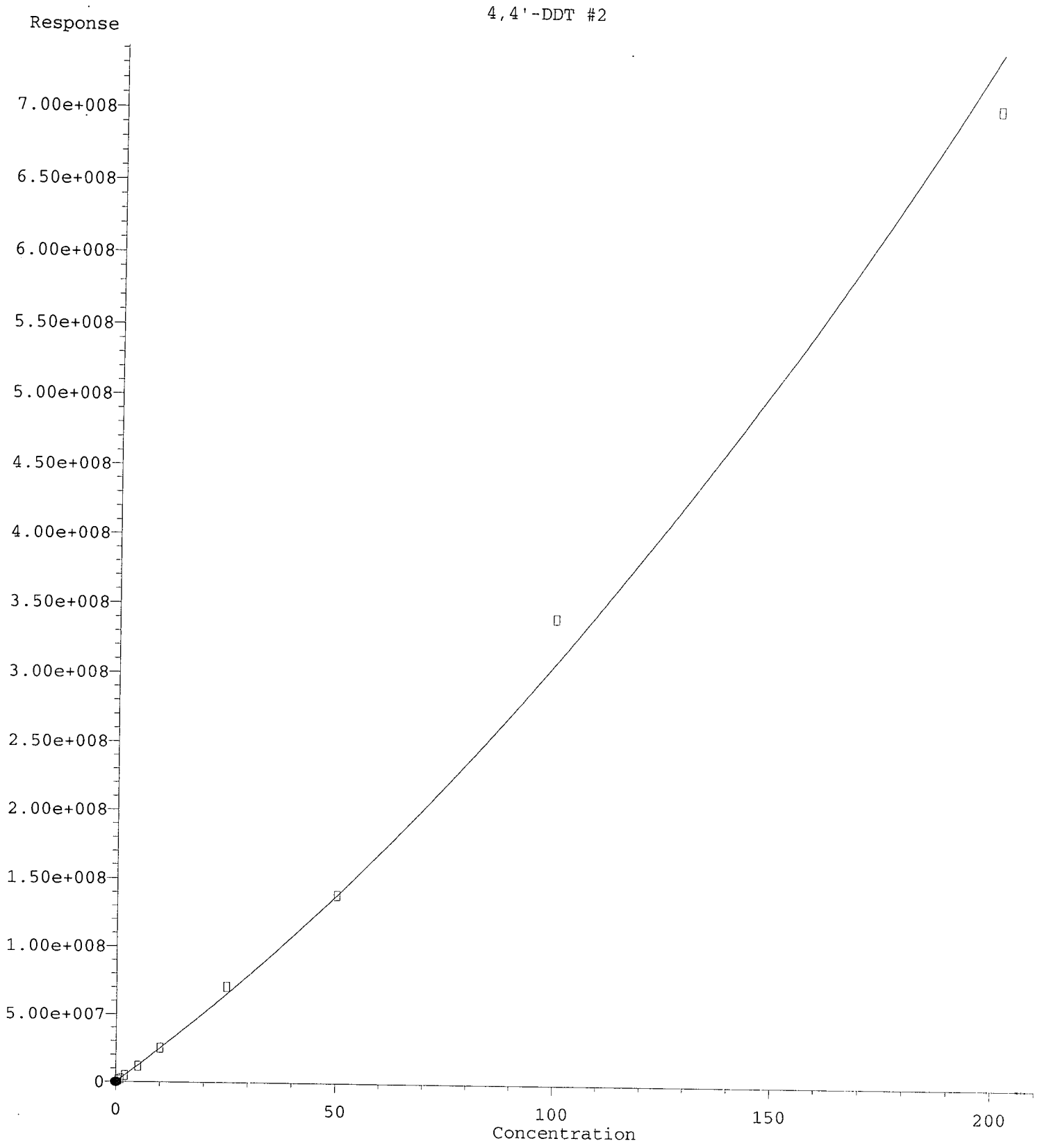
MJ 2/3/20

(16) Endosulfan II #2

8.840min -0.006 ng/mL m

response 64183

(+) = Expected Retention Time

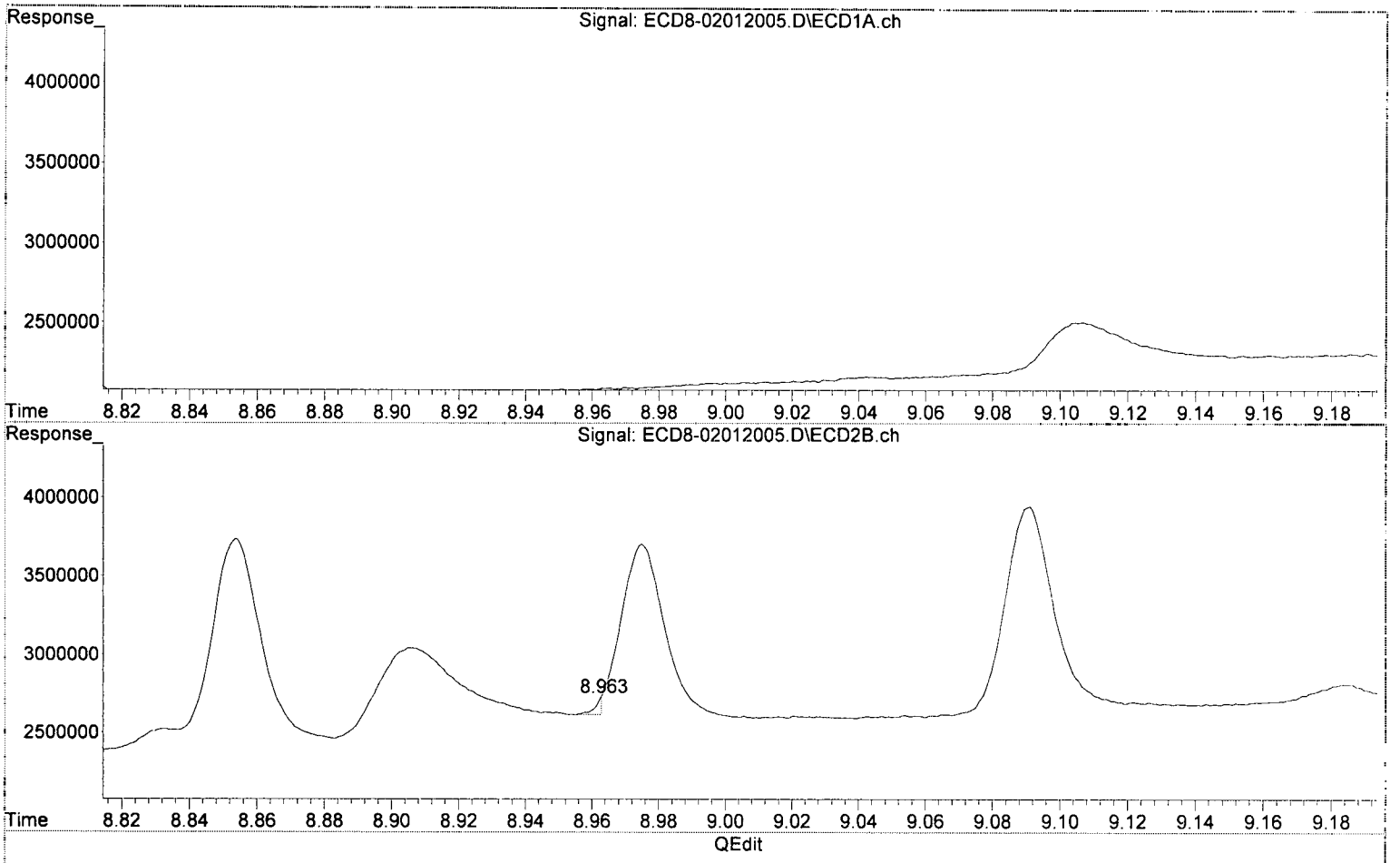


R = 6.32e+003 A*A + 2.45e+006 A + 6.29e+004
Coef of Det (r^2) = 0.994 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 15:26
Operator : MJB
Sample : 0B01012-CAL1
Misc : A20B001, AB 0.5 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:45:47 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(17) 4,4'-DDT

8.110min 0.503 ng/mL

response 1351757

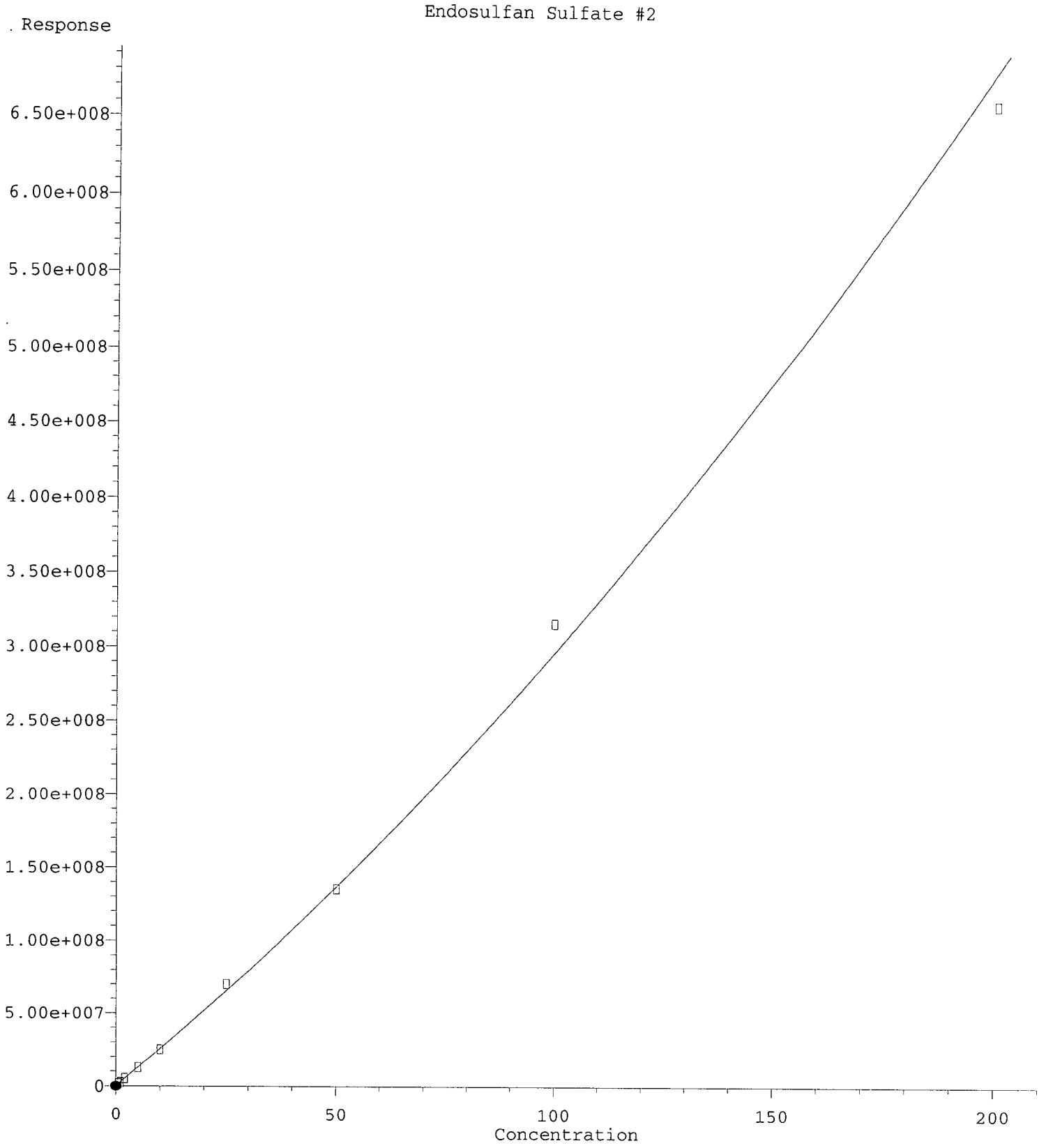
MJB 2/3/20

(17) 4,4'-DDT #2

8.963min 0.021 ng/mL (m)

response 113728

(+) = Expected Retention Time

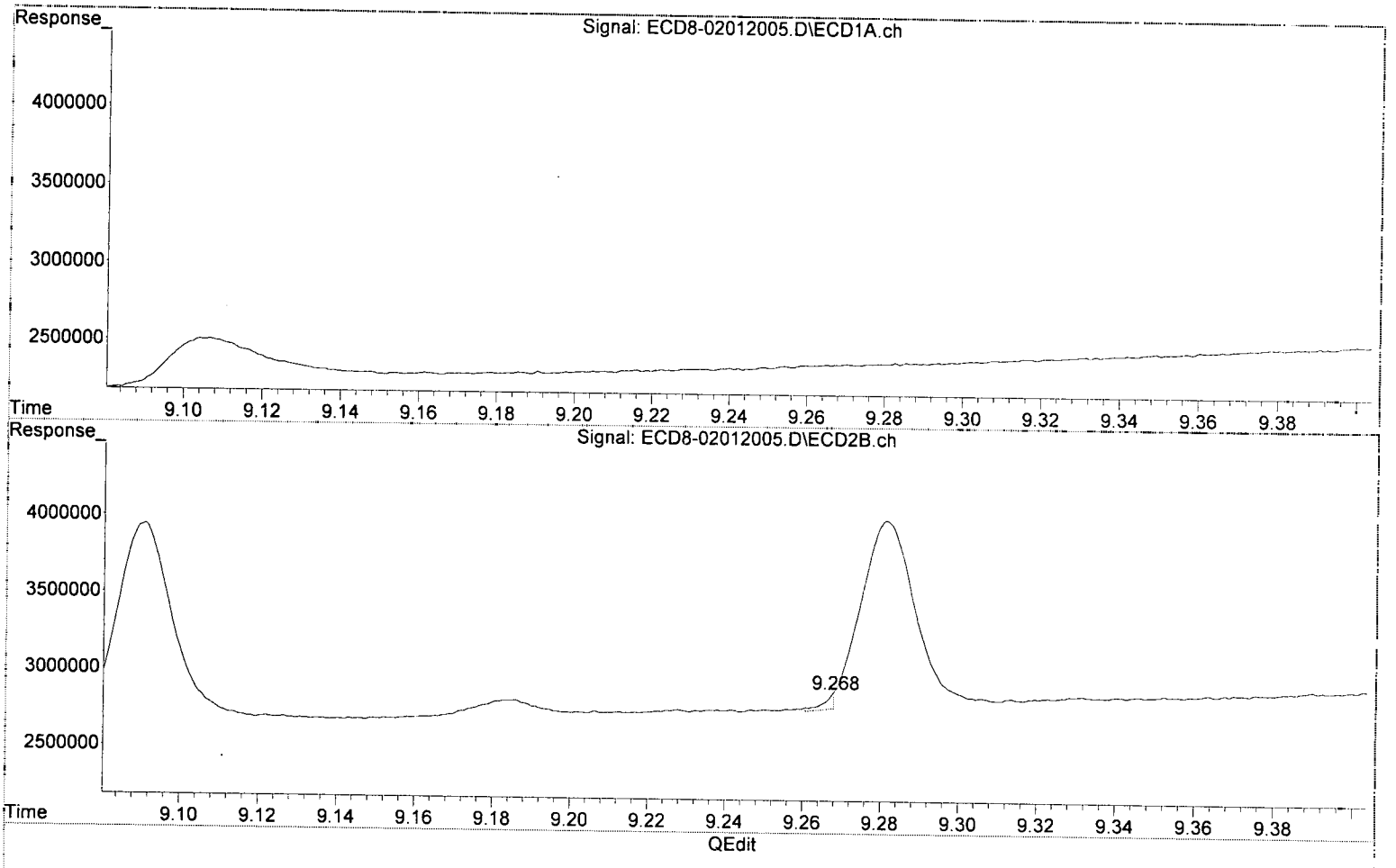


R = 4.57e+003 A*A + 2.50e+006 A + 2.22e+005
Coef of Det (r^2) = 0.997 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 15:26
Operator : MJB
Sample : 0B01012-CAL1
Misc : A20B001, AB 0.5 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:45:47 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(19) Endosulfan Sulfate

8.604min 0.541 ng/mL

response 1548557

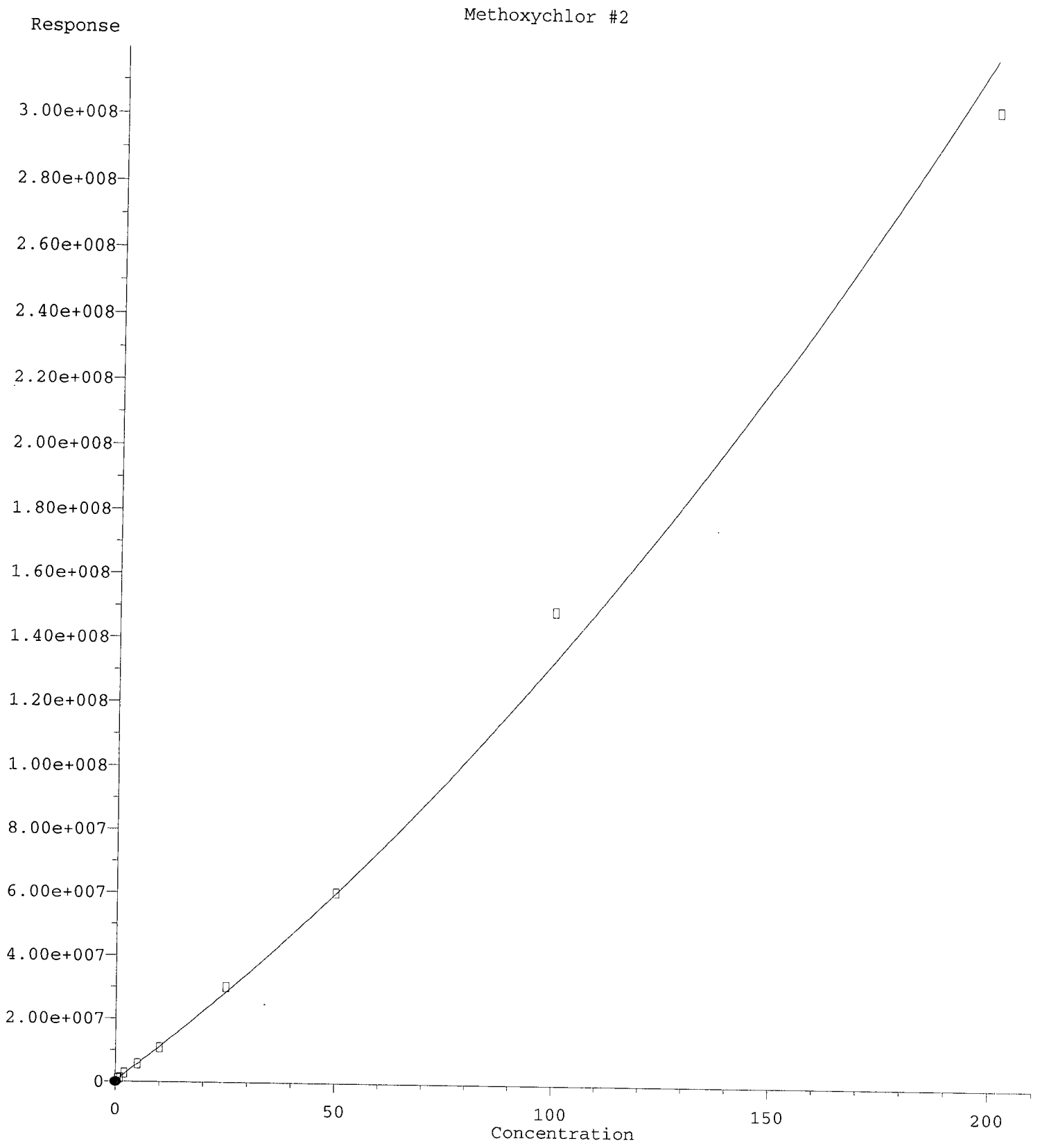
MJB 2/3/20

(19) Endosulfan Sulfate #2

9.268min -0.049 ng/mL (m)

response 99158

(+) = Expected Retention Time

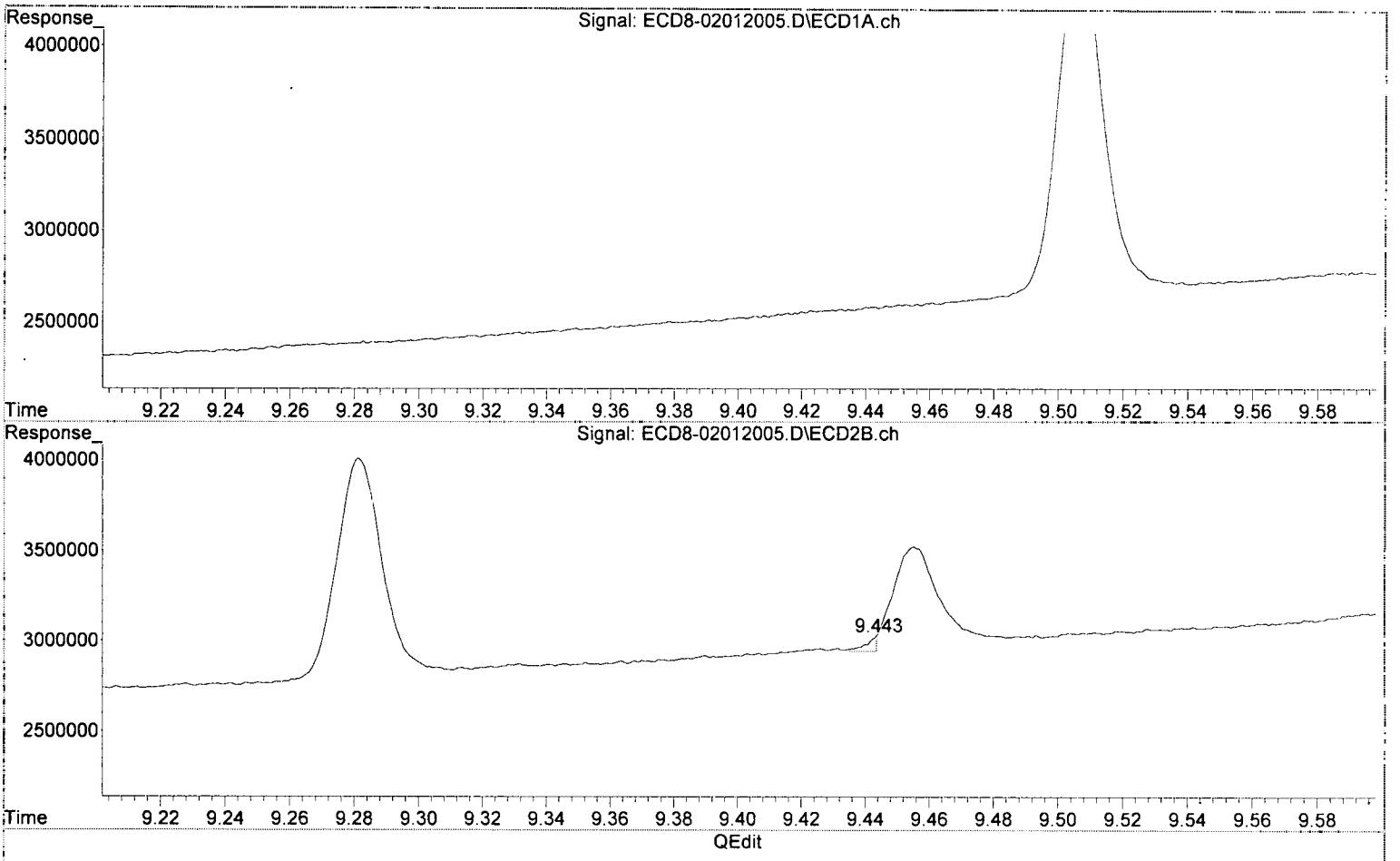


R = 2.73e+003 A*A + 1.06e+006 A + 3.97e+005
Coef of Det (r^2) = 0.988 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 15:26
Operator : MJB
Sample : 0B01012-CAL1
Misc : A20B001, AB 0.5 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:45:47 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(20) Methoxychlor

8.454min 0.539 ng/mL

response 650344

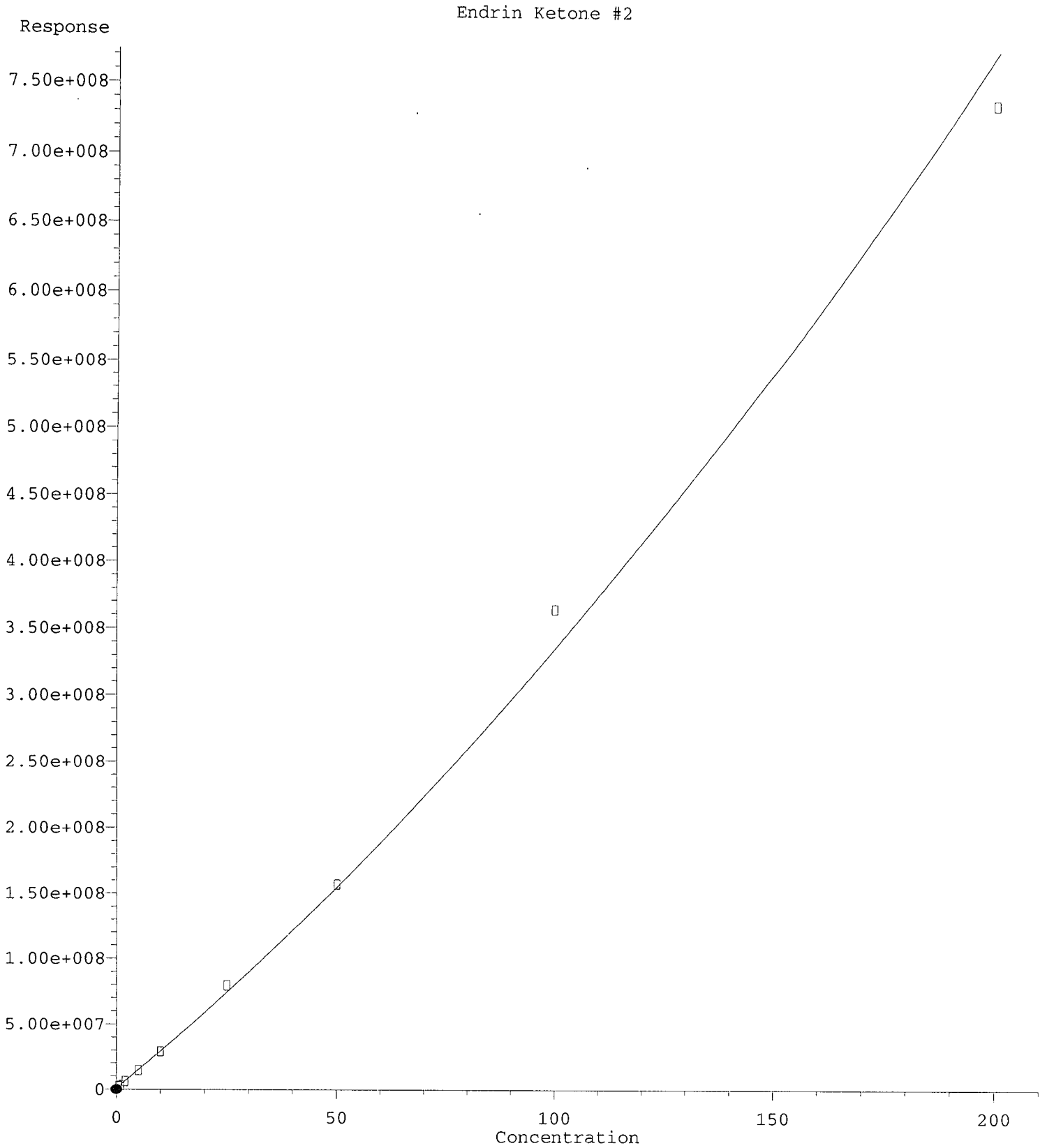
MJB 2/3/20

(20) Methoxychlor #2

9.443min -0.297 ng/mL m

response 82761

(+) = Expected Retention Time

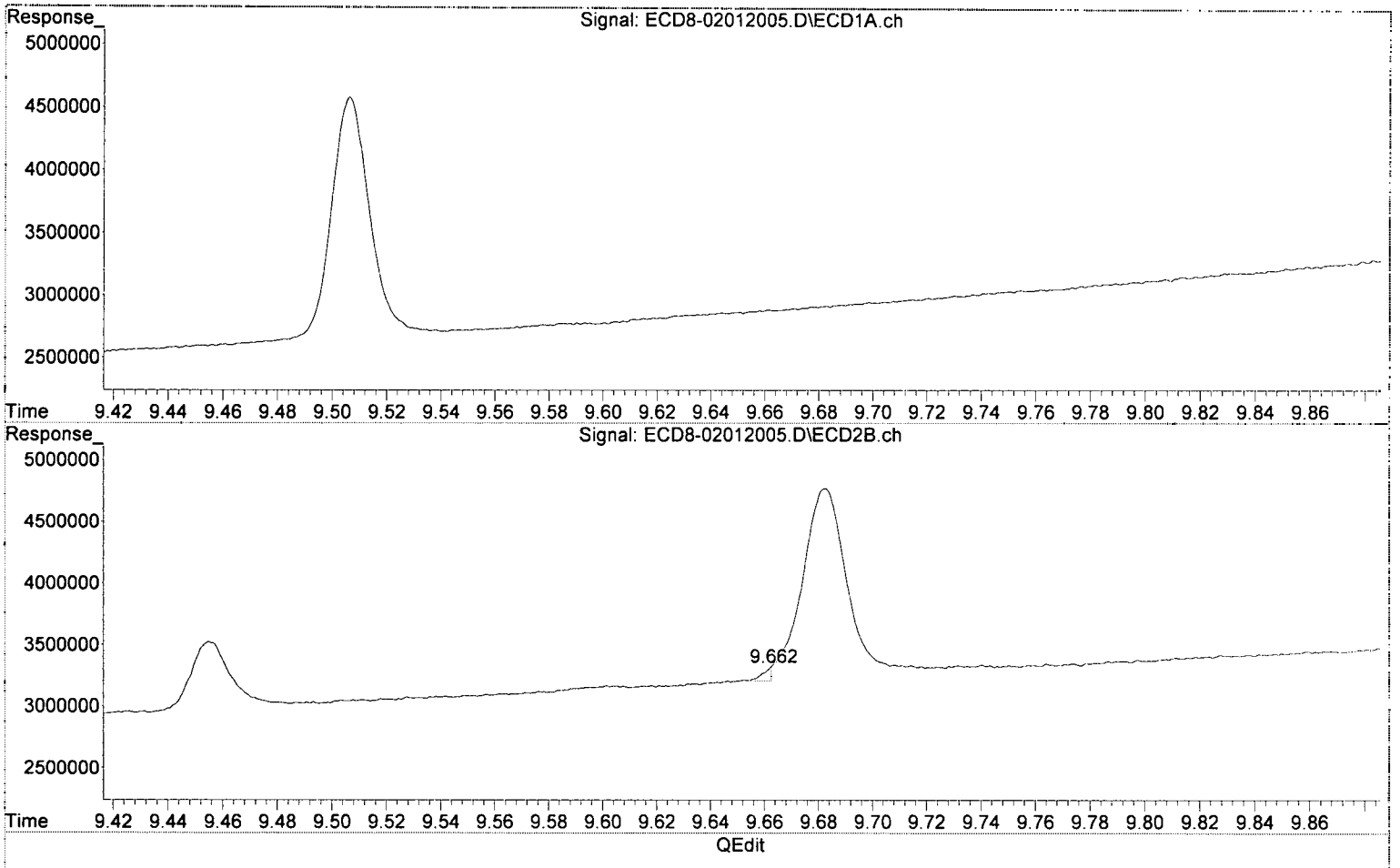


R = 5.21e+003 A*A + 2.82e+006 A + 6.29e+005
Coef of Det (r^2) = 0.995 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 15:26
Operator : MJB
Sample : 0B01012-CAL1
Misc : A20B001, AB 0.5 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:45:47 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(21) Endrin Ketone

8.797min 0.540 ng/mL

response 1865728

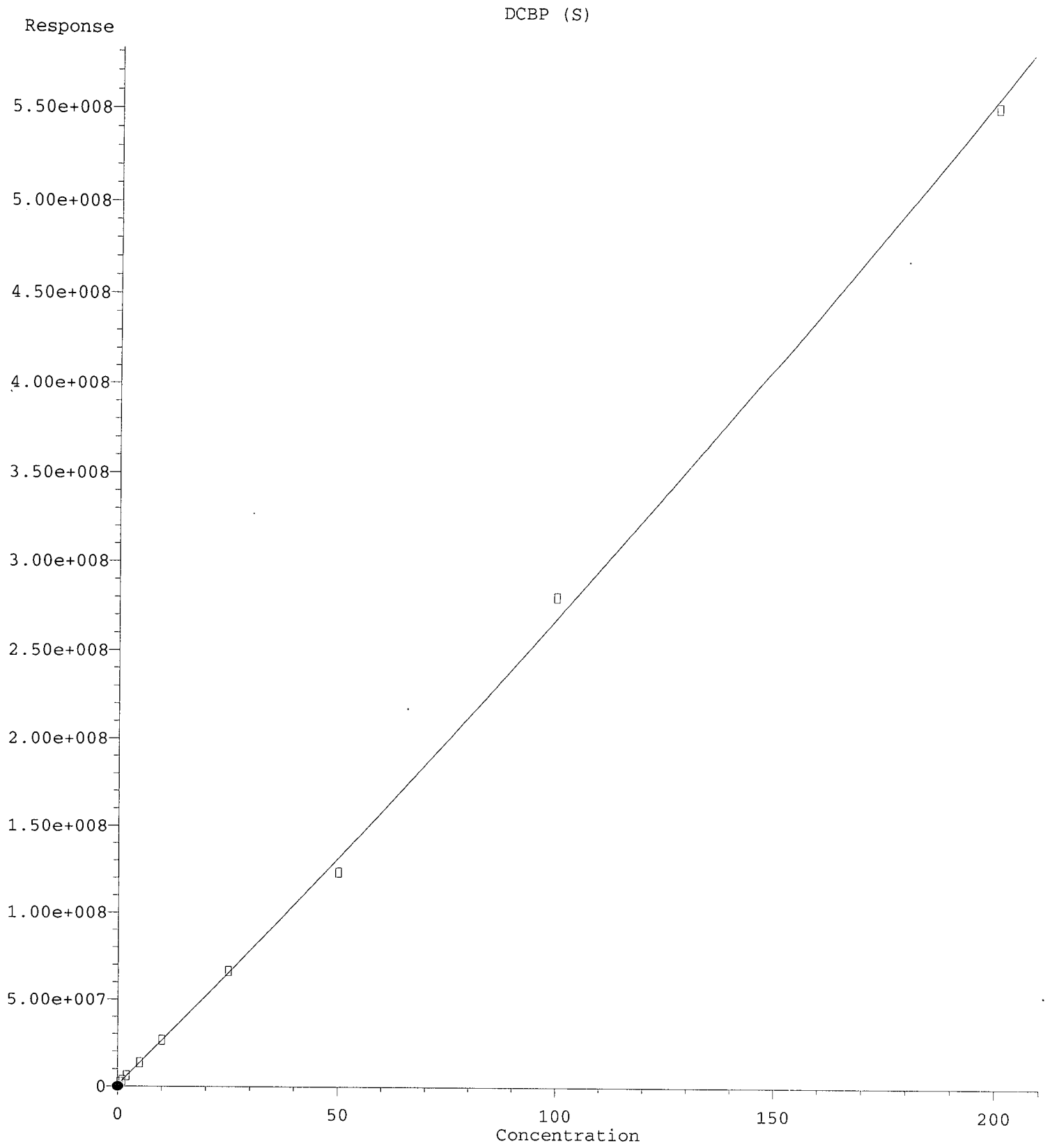
MJB 2/3/20

(21) Endrin Ketone #2

9.662min -0.183 ng/mL (m)

response 113206

(+) = Expected Retention Time

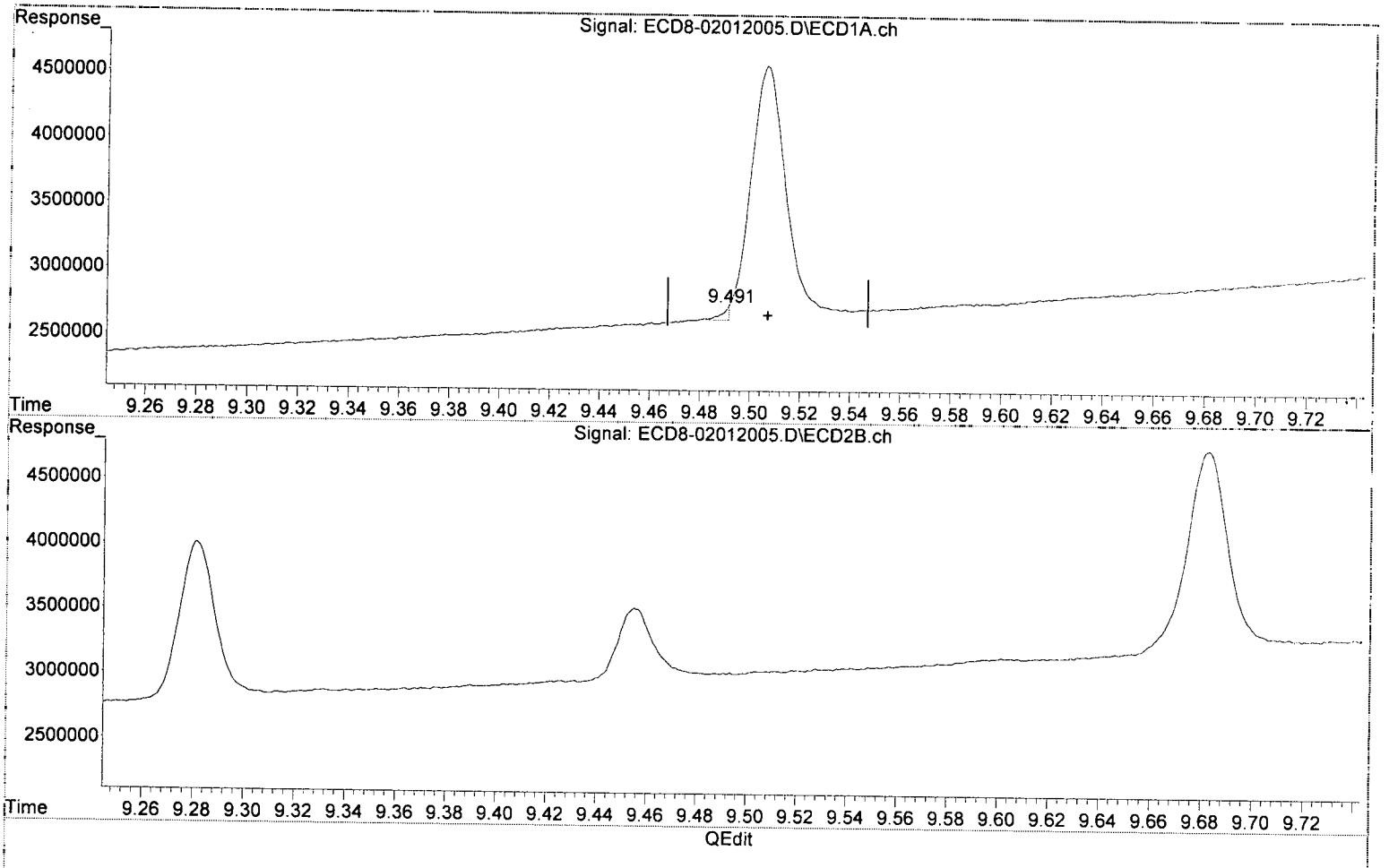


R = 1.20e+003 A*A + 2.55e+006 A + 8.55e+005
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 15:26
Operator : MJB
Sample : 0B01012-CAL1
Misc : A20B001, AB 0.5 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:45:47 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(22) DCBP (S) (S)

9.491min -0.295 ng/mL (m)

response 101899

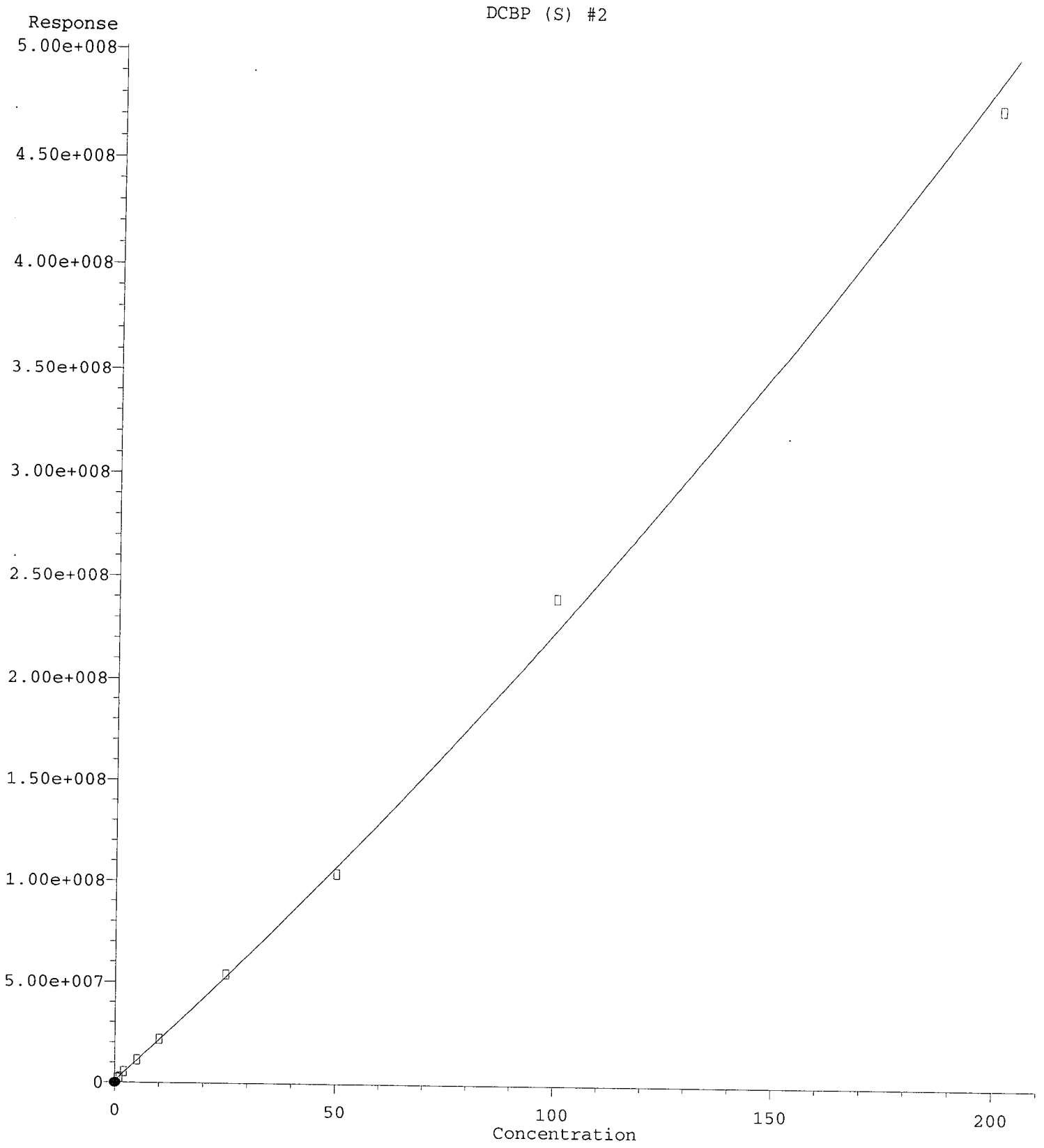
MJB 4/9/20

(22) DCBP (S) #2 (S)

10.537min 0.543 ng/mL

response 2121210

(+) = Expected Retention Time

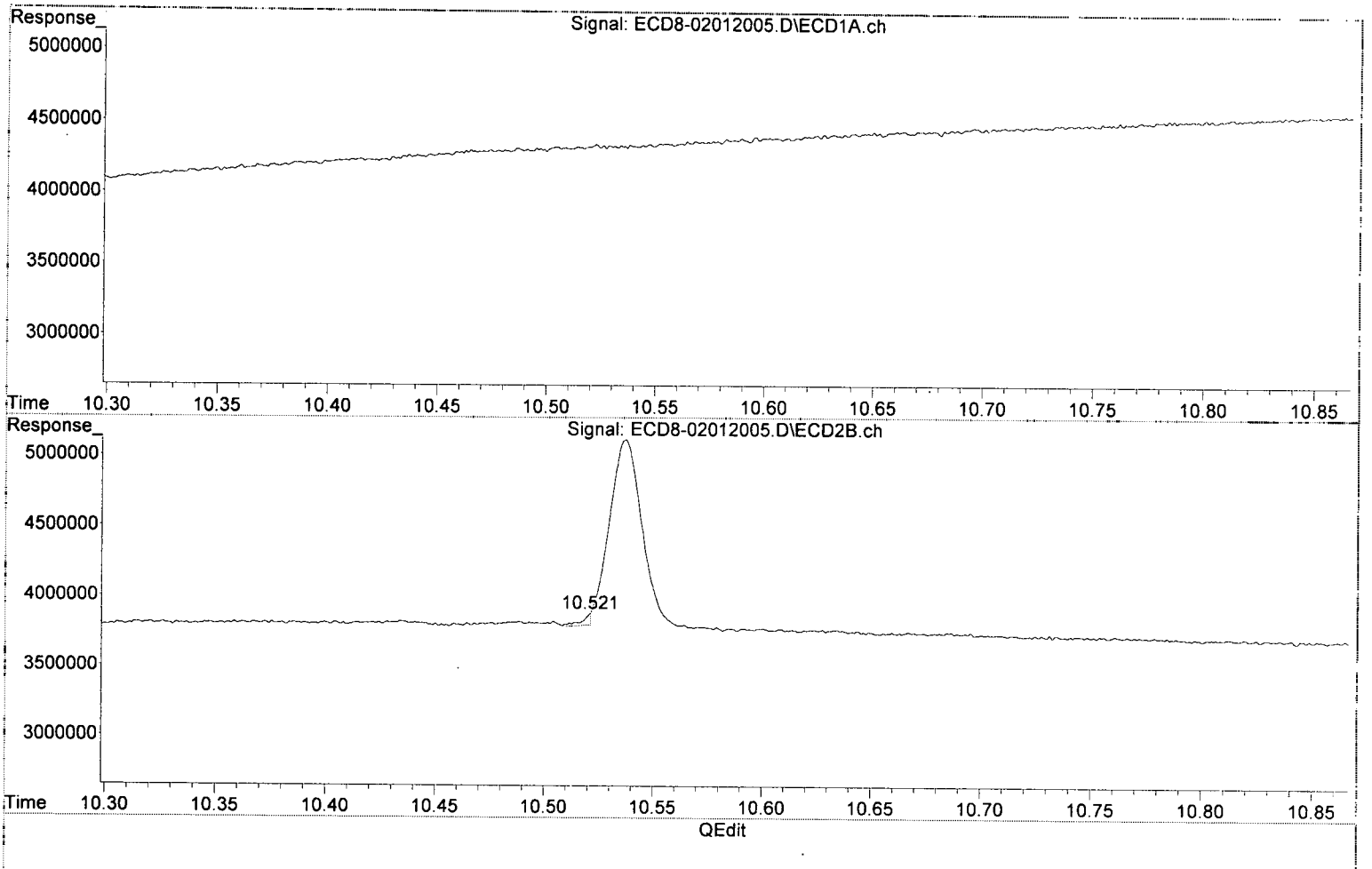


R = 2.17e+003 A*A + 2.02e+006 A + 1.03e+006
Coef of Det (r^2) = 0.991 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 15:26
Operator : MJB
Sample : 0B01012-CAL1
Misc : A20B001, AB 0.5 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:45:47 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(22) DCBP (S) (S)

9.491min -0.295 ng/mL m

response 101899

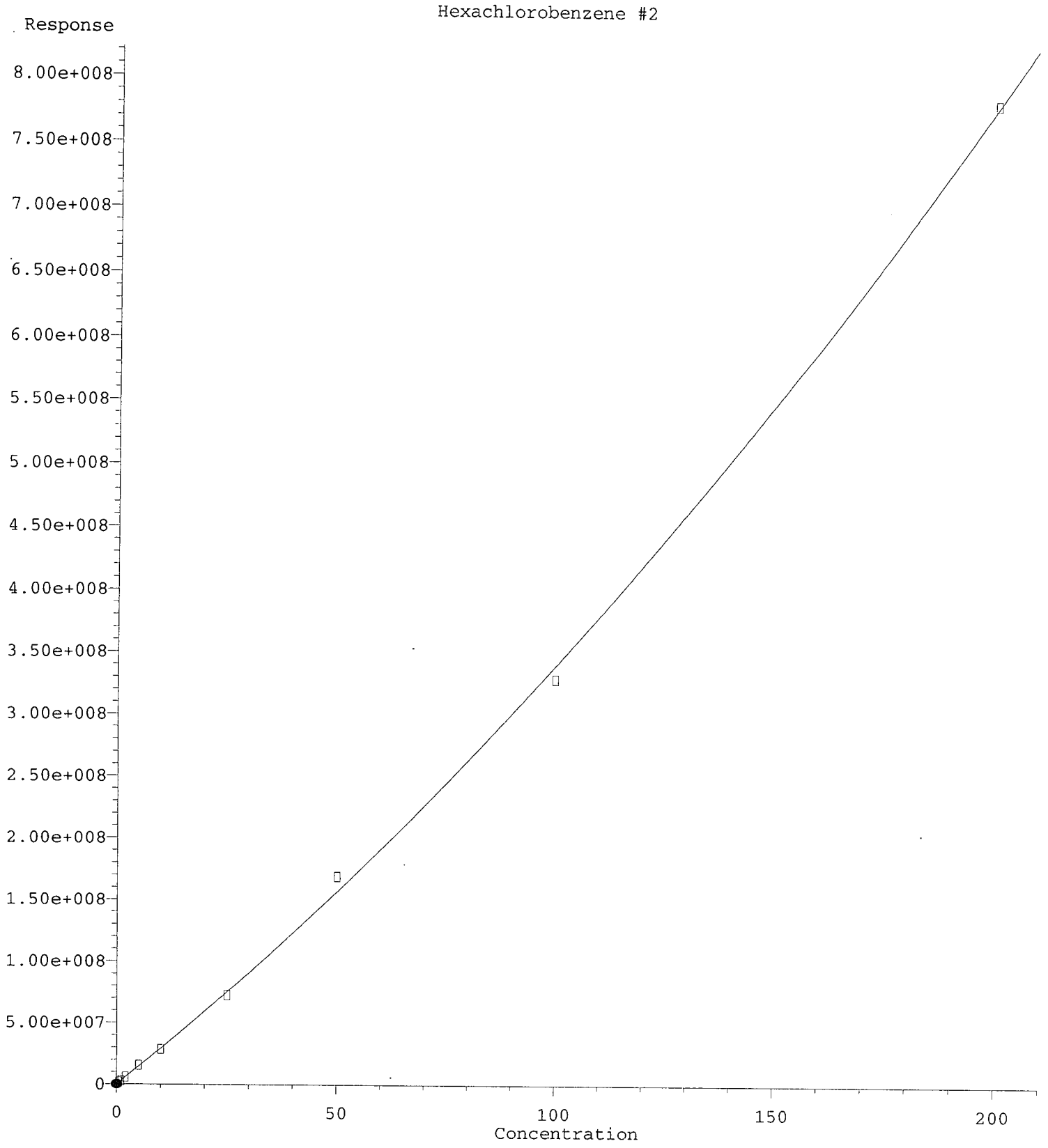
MJB 2/3/20

(22) DCBP (S) #2 (S)

10.521min -0.468 ng/mL (m)

response 82061

(+) = Expected Retention Time

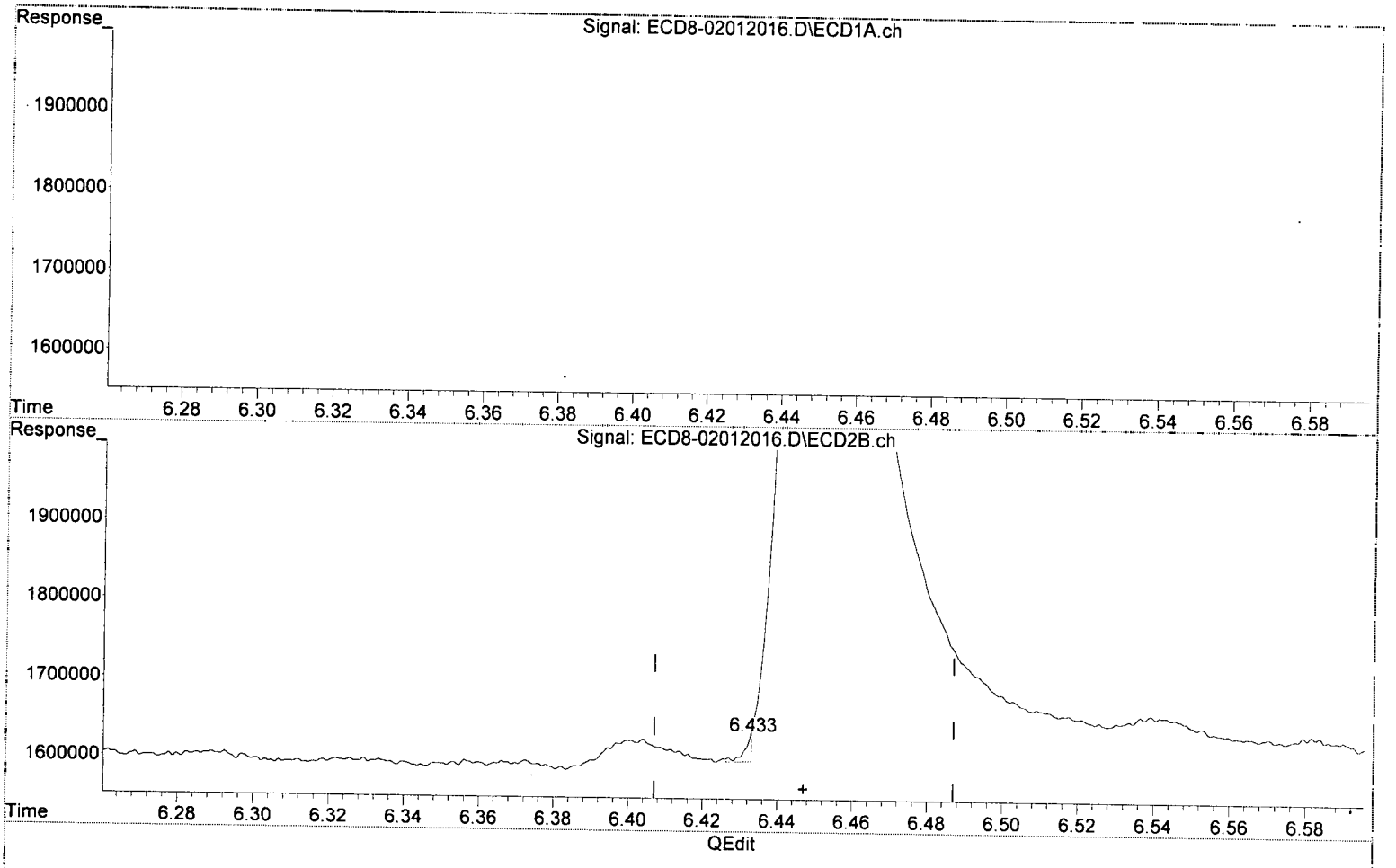


R = 5.17e+003 A*A + 2.87e+006 A + 1.57e+005
Coef of Det (r^2) = 0.998 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012016.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 18:31
Operator : MJB
Sample : 0B01012-CALA
Misc : A20B003, 9-42 0.5 ppb
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:49:29 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(24) Hexachlorobenzene

5.681min 0.564 ng/mL

response 1894604

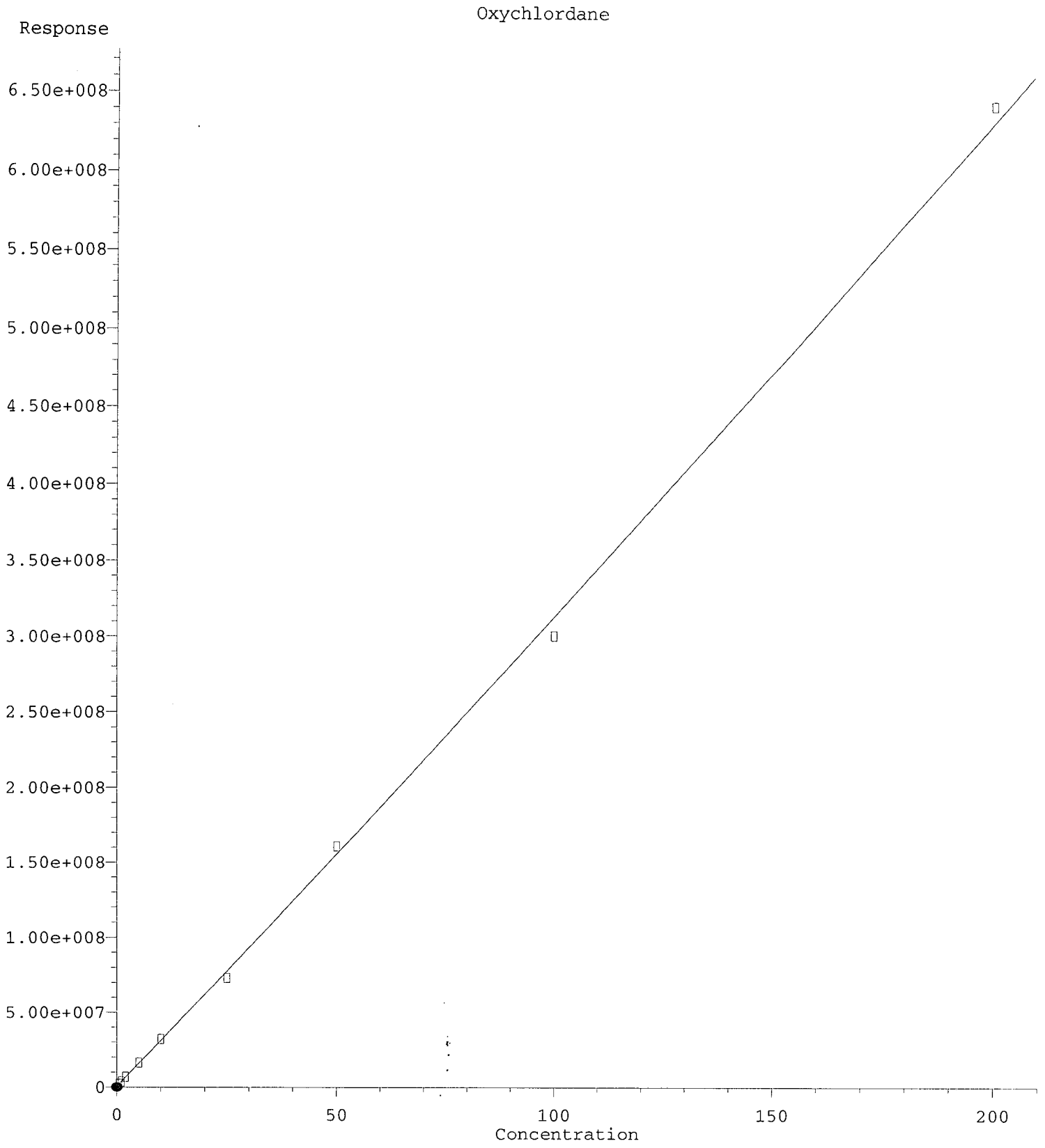
MJB 2/3/20

(24) Hexachlorobenzene #2

6.433min -0.043 ng/mL (m)

response 32864

(+) = Expected Retention Time

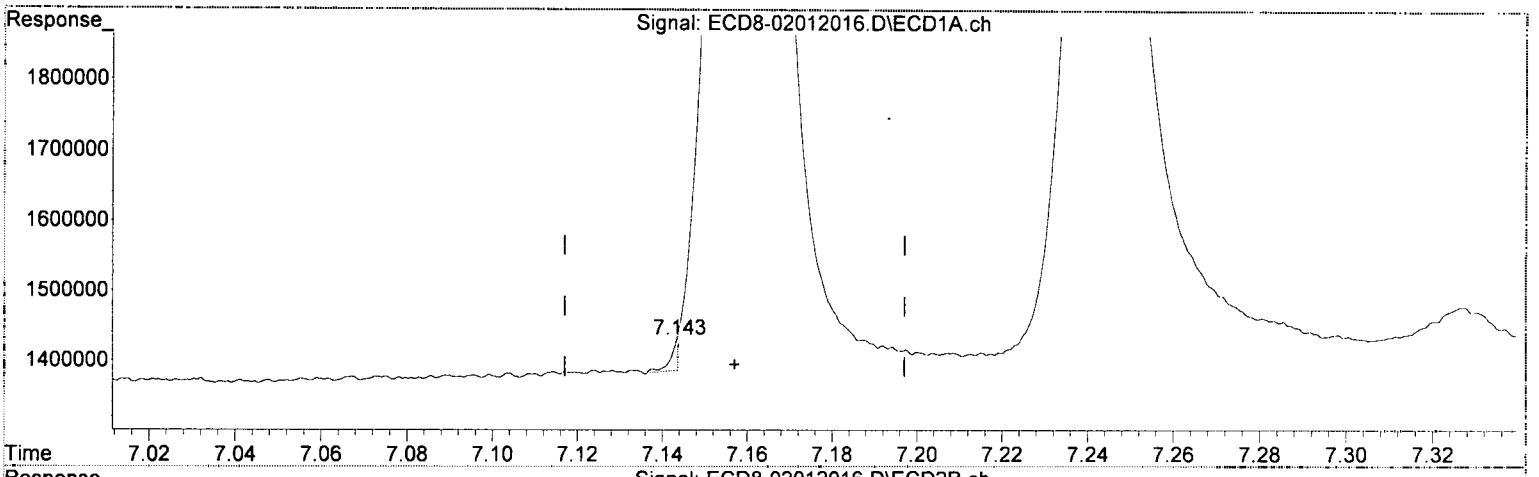


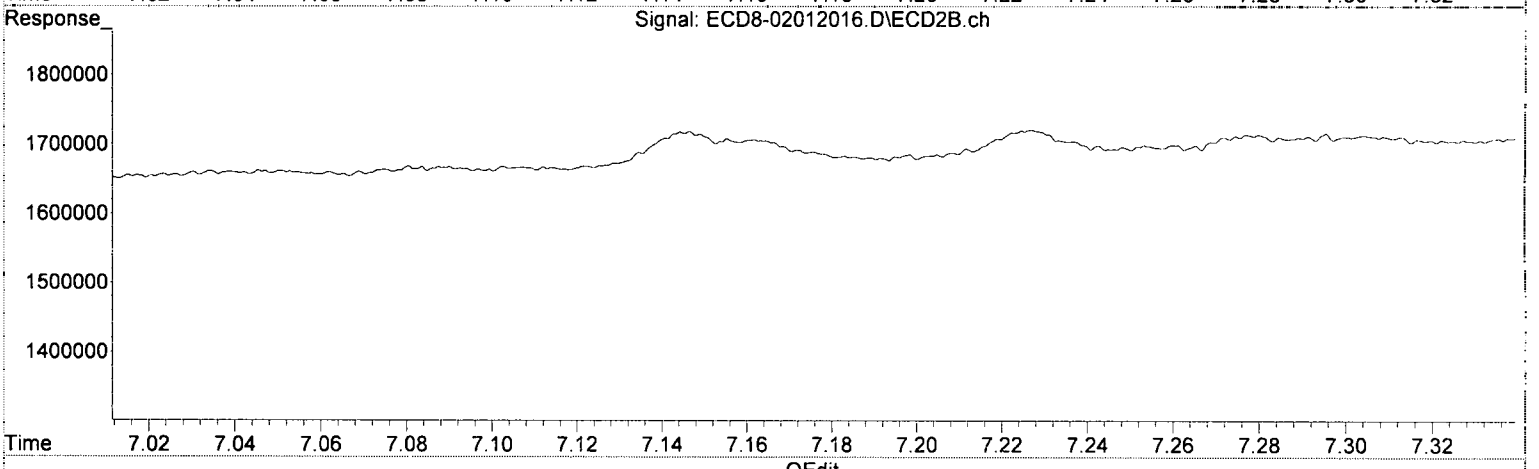
R = 4.64e+002 A*A + 3.07e+006 A + 5.52e+005
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012016.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 18:31
Operator : MJB
Sample : 0B01012-CALA
Misc : A20B003, 9-42 0.5 ppb
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:49:29 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





QEdit

(25) Oxychlordane

7.143min -0.165 ng/mL (m)

response 44172

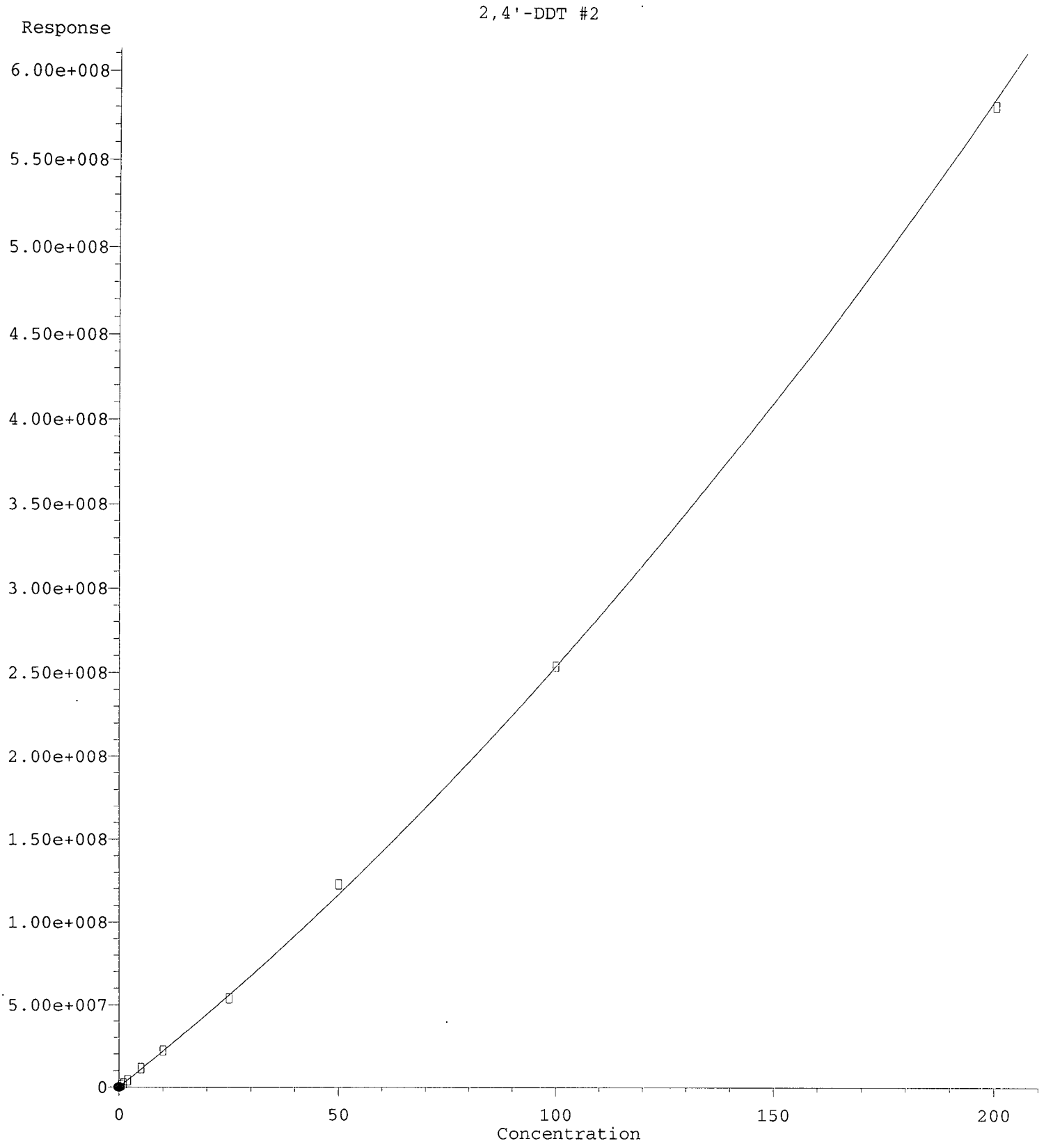
MJB 2/3/20

(25) Oxychlordane #2

7.908min 0.568 ng/mL

response 1817597

(+) = Expected Retention Time

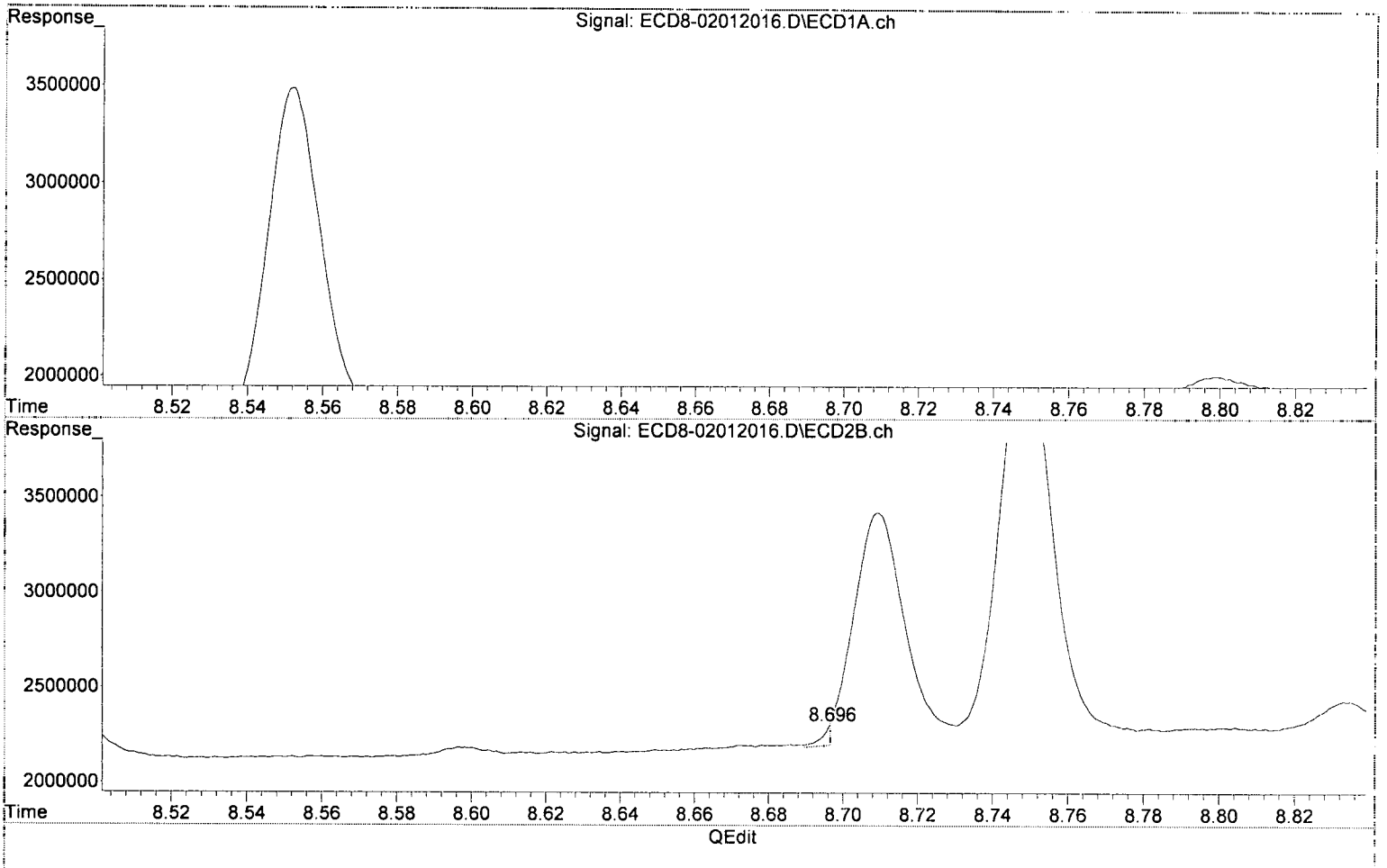


R = 4.06e+003 A*A + 2.13e+006 A + 1.05e+005
Coef of Det (r^2) = 0.998 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012016.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 18:31
Operator : MJB
Sample : 0B01012-CALA
Misc : A20B003, 9-42 0.5 ppb
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:49:29 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(29) 2,4'-DDT

7.797min 0.593 ng/mL

response 1418724

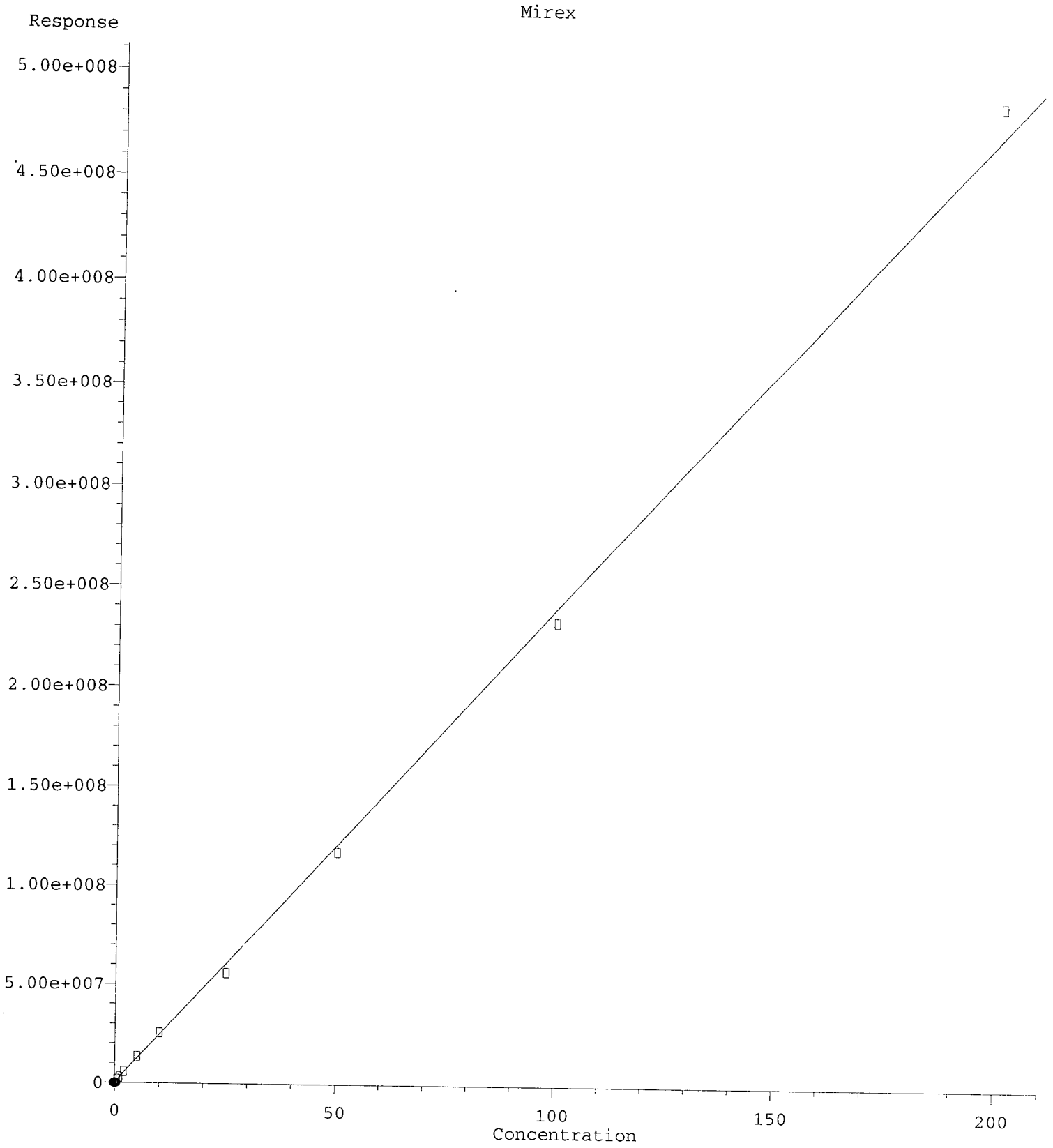
MJB 2/3/20

(29) 2,4'-DDT #2

8.696min -0.000 ng/mL (m)

response 104421

(+) = Expected Retention Time

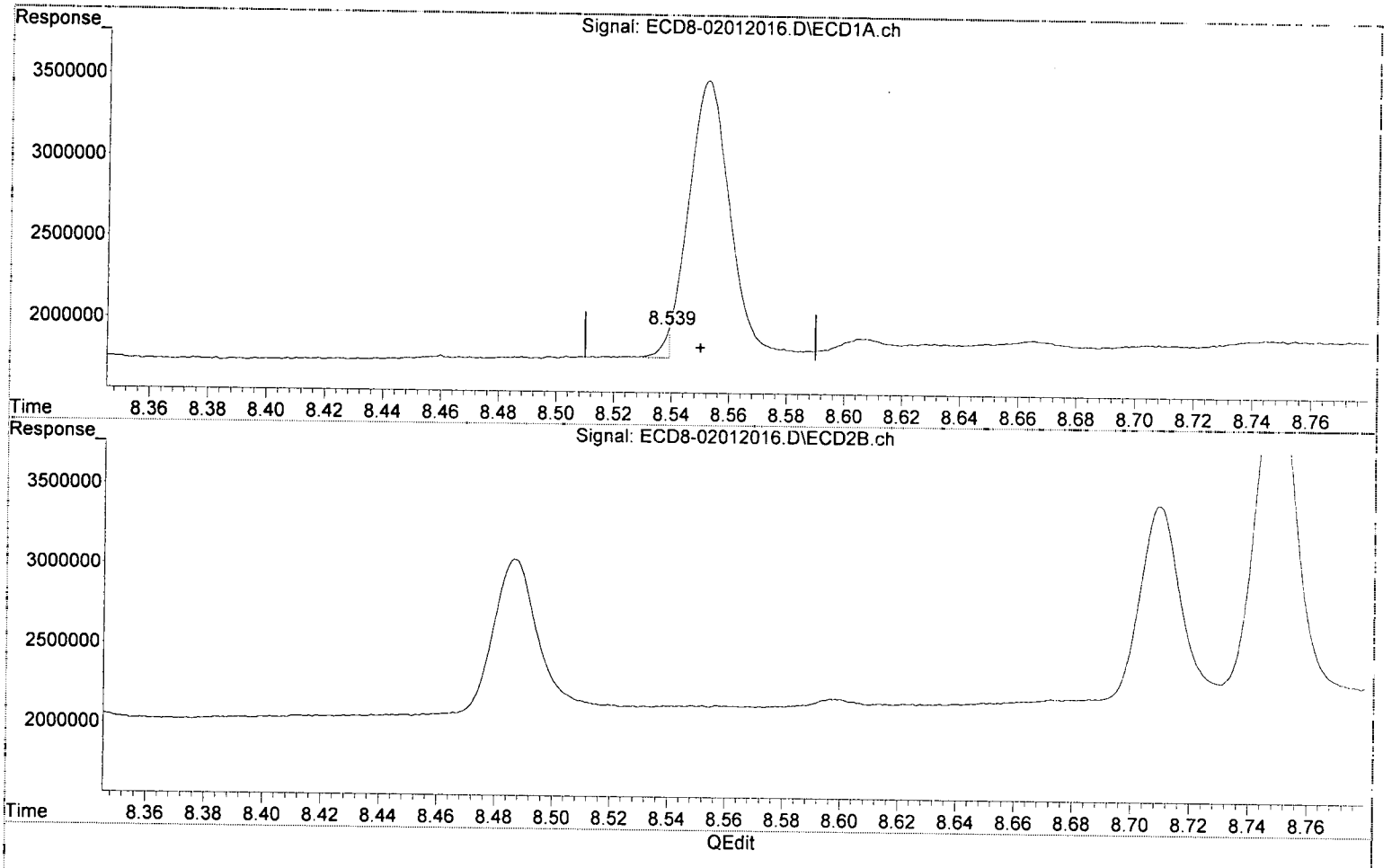


R = -2.95e+002 A*A + 2.42e+006 A + 5.00e+005
Coef of Det (r^2) = 0.997 Curve Fit: Quadratic w/(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012016.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 18:31
Operator : MJB
Sample : 0B01012-CALA
Misc : A20B003, 9-42 0.5 ppb
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:49:29 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(31) Mirex

8.539min 8199.054 ng/mL (m)

response 181602

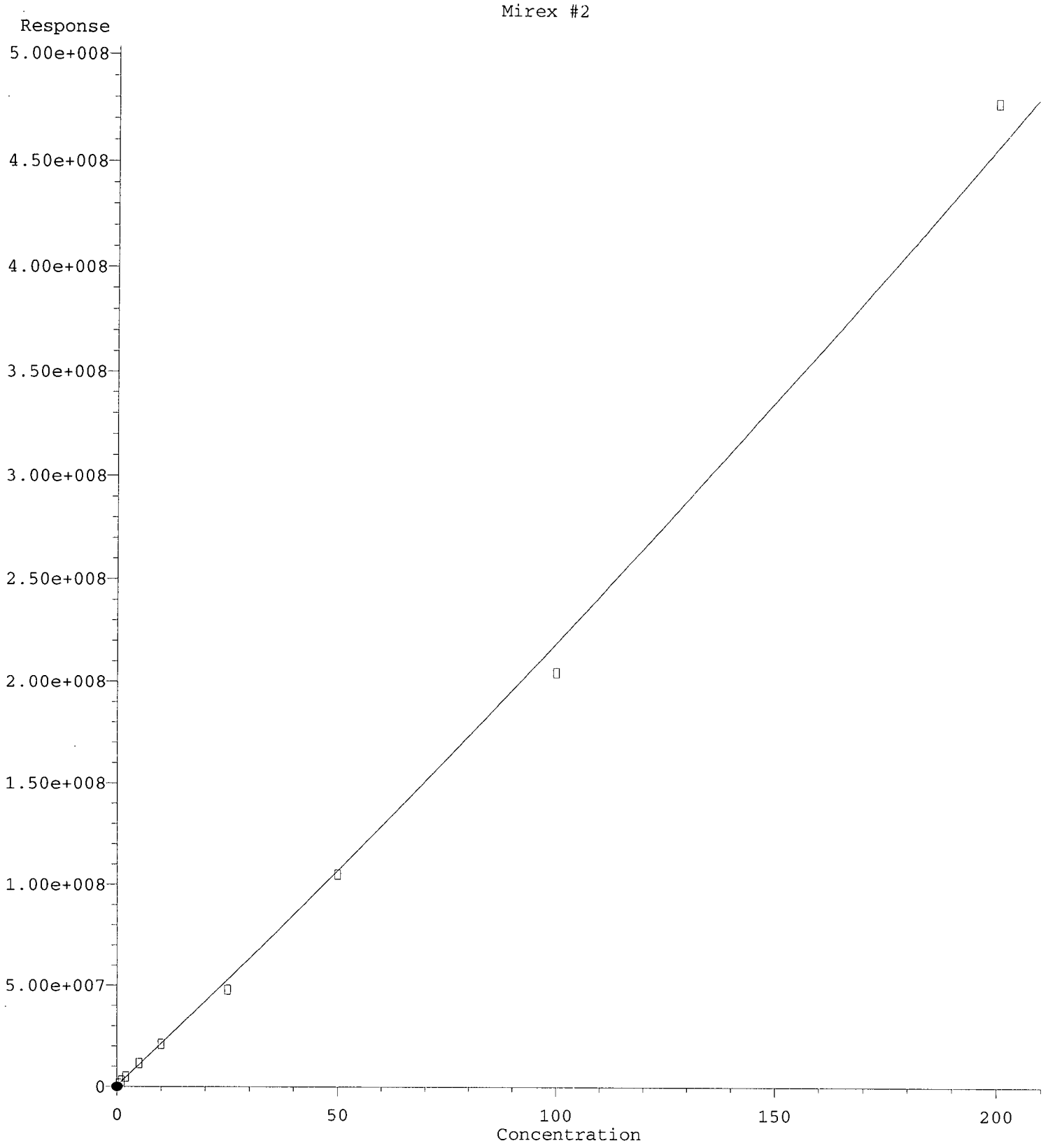
MJB 2/3/20

(31) Mirex #2

9.675min 0.461 ng/mL

response 1475836

(+) = Expected Retention Time

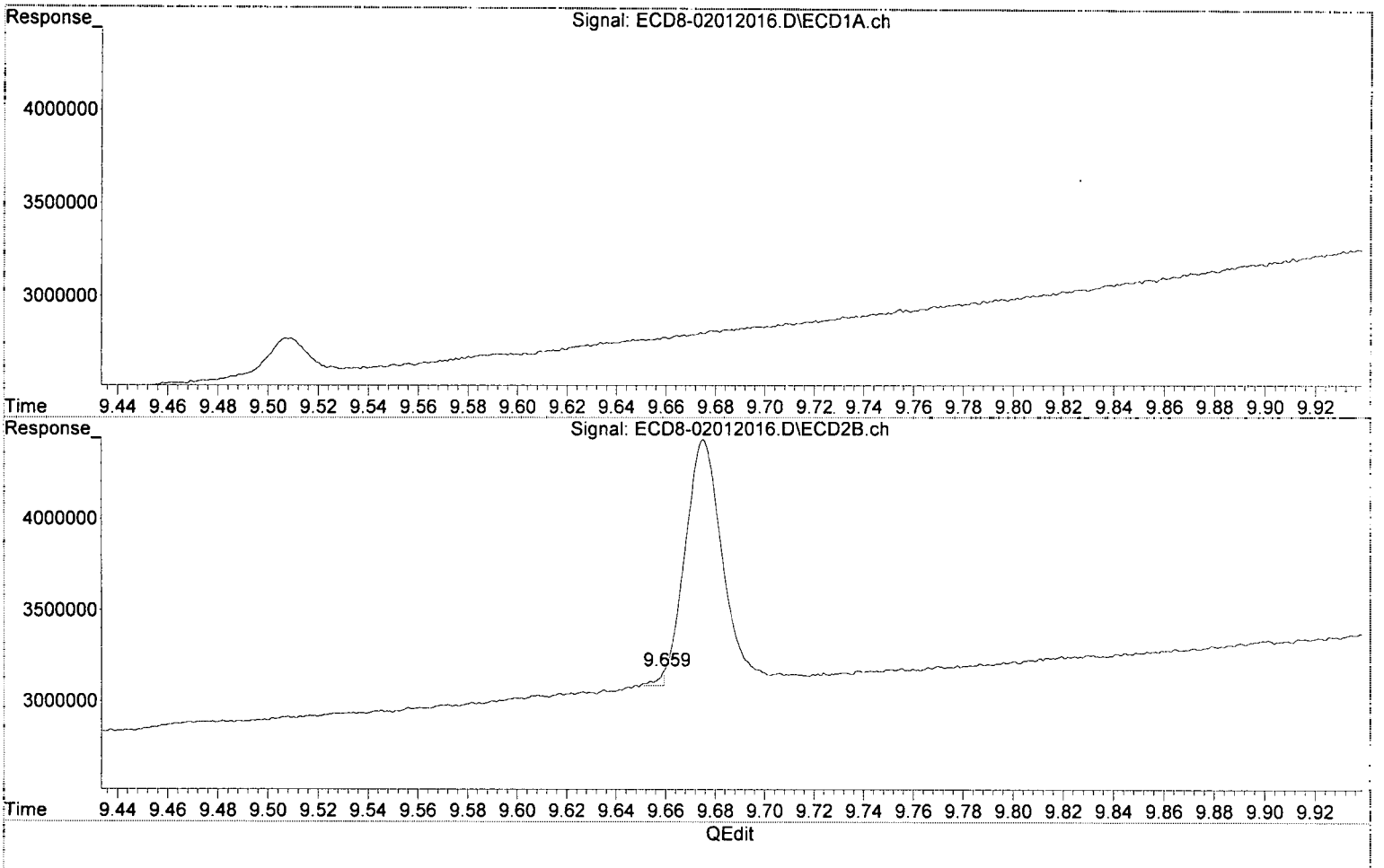


R = 1.11e+003 A*A + 2.07e+006 A + 5.22e+005
Coef of Det (r^2) = 0.993 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTTEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012016.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 18:31
Operator : MJB
Sample : 0B01012-CALA
Misc : A20B003, 9-42 0.5 ppb
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:49:29 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(31) Mirex

8.539min 8199.054 ng/mL m

response 181602

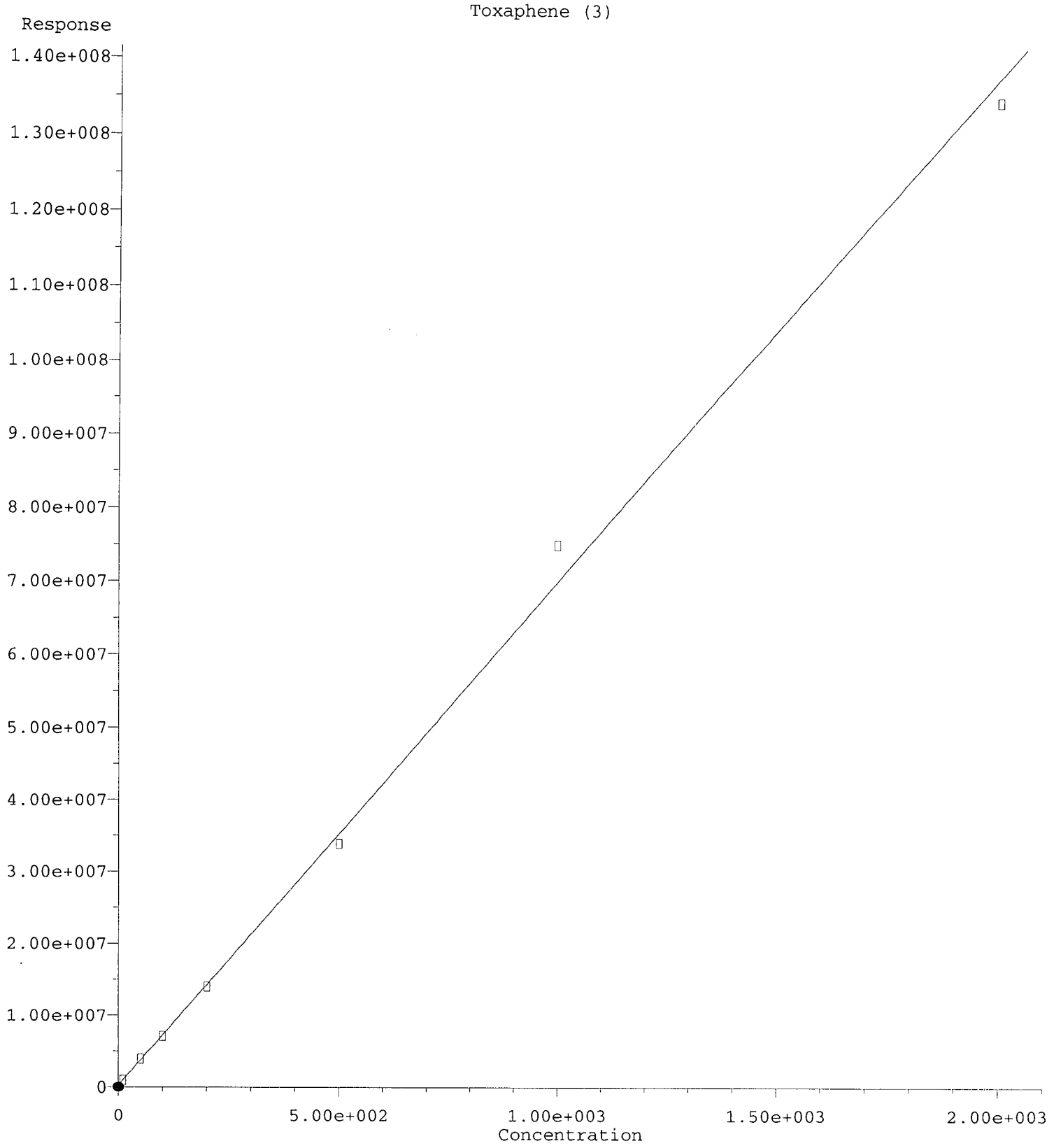
MJB 2/3/20

(31) Mirex #2

9.659min -0.212 ng/mL (m)

response 83389

(+) = Expected Retention Time

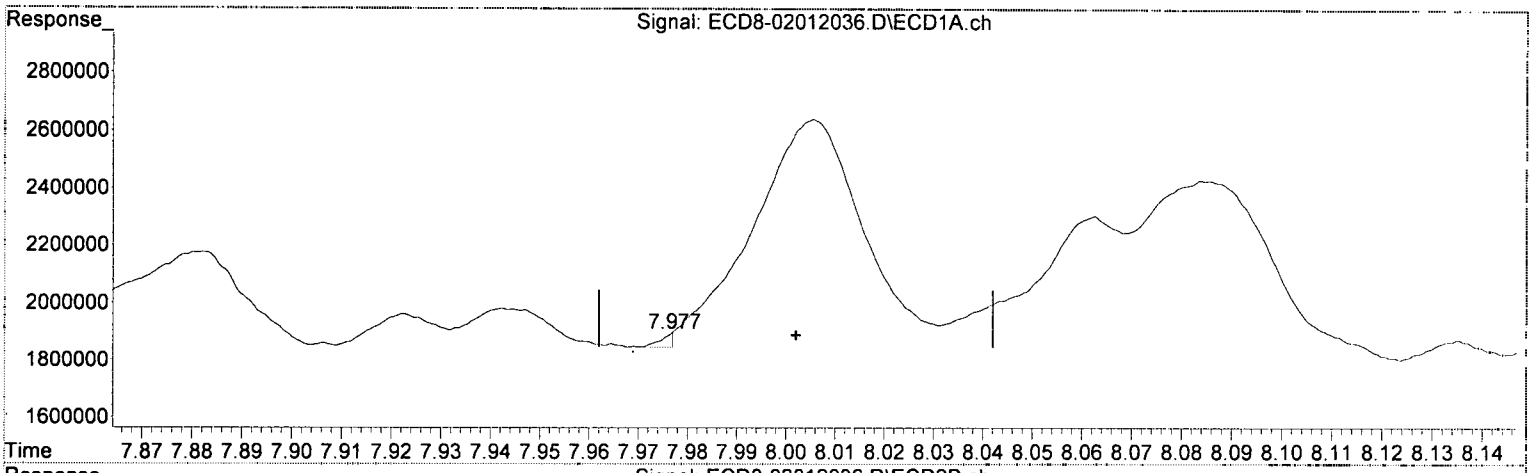


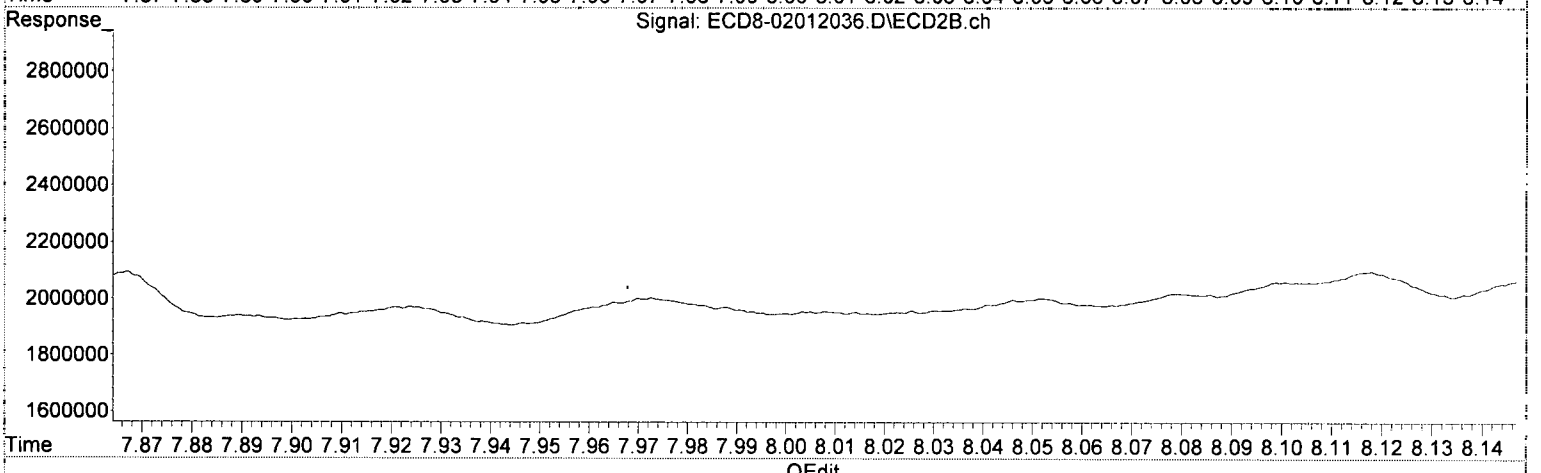
R = -7.28e-001 A*A + 7.04e+004 A + 2.22e+005
Coef of Det (r^2) = 0.998 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012036.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 00:08
Operator : MJB
Sample : 0B01012-CALQ
Misc : A20B005, TOX 10 ppb
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:53:18 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





QEdit

(38) Toxaphene (3)

7.977min 96753.255 ng/mL (m)

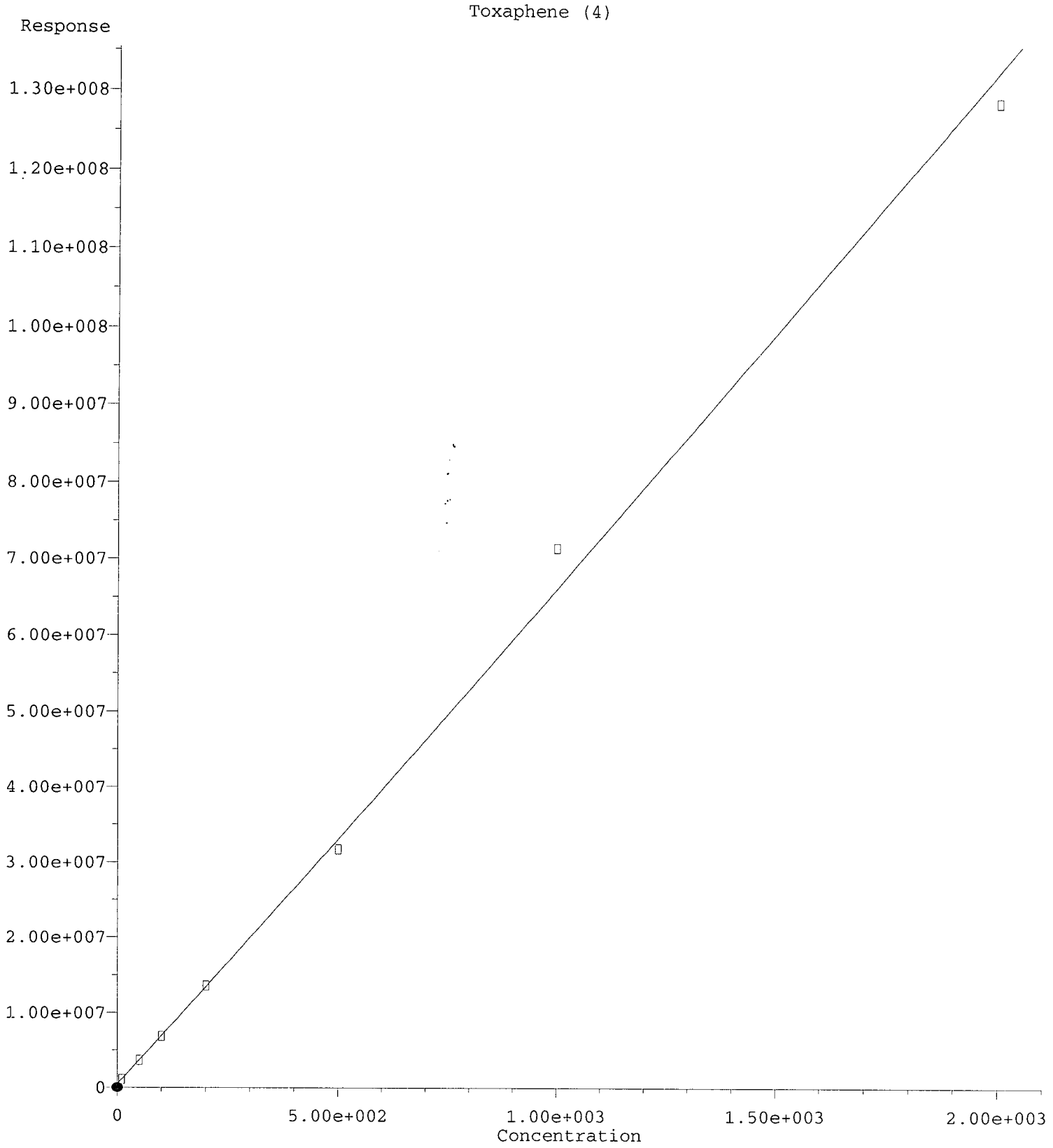
response 47861

(38) Toxaphene (3) #2

8.838min 10.732 ng/mL

response 694351

(+) = Expected Retention Time

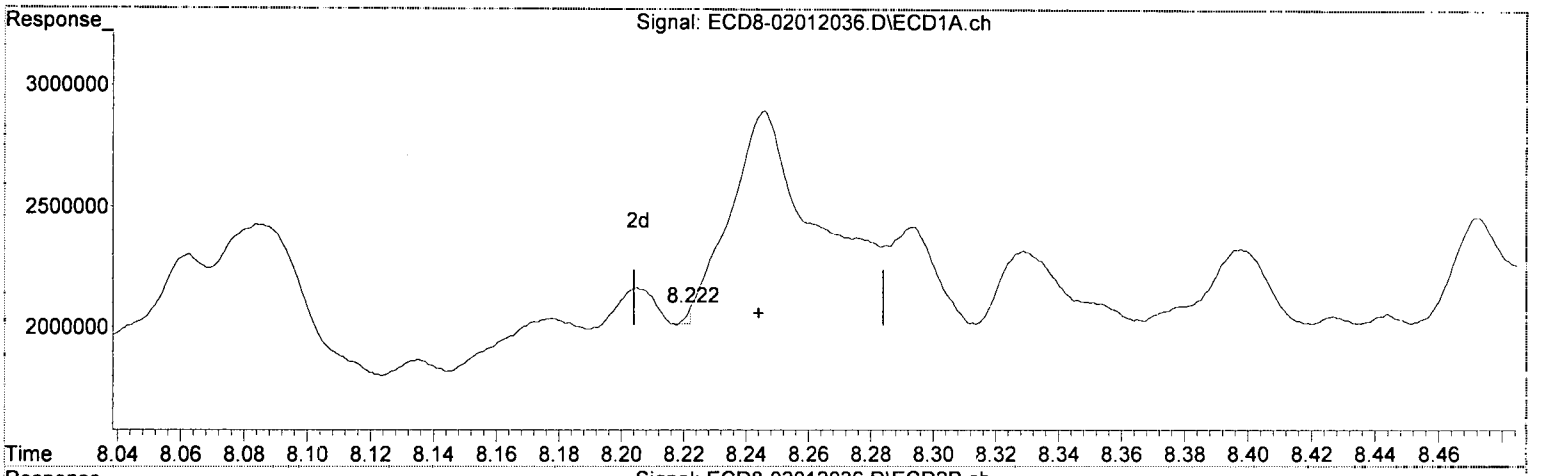


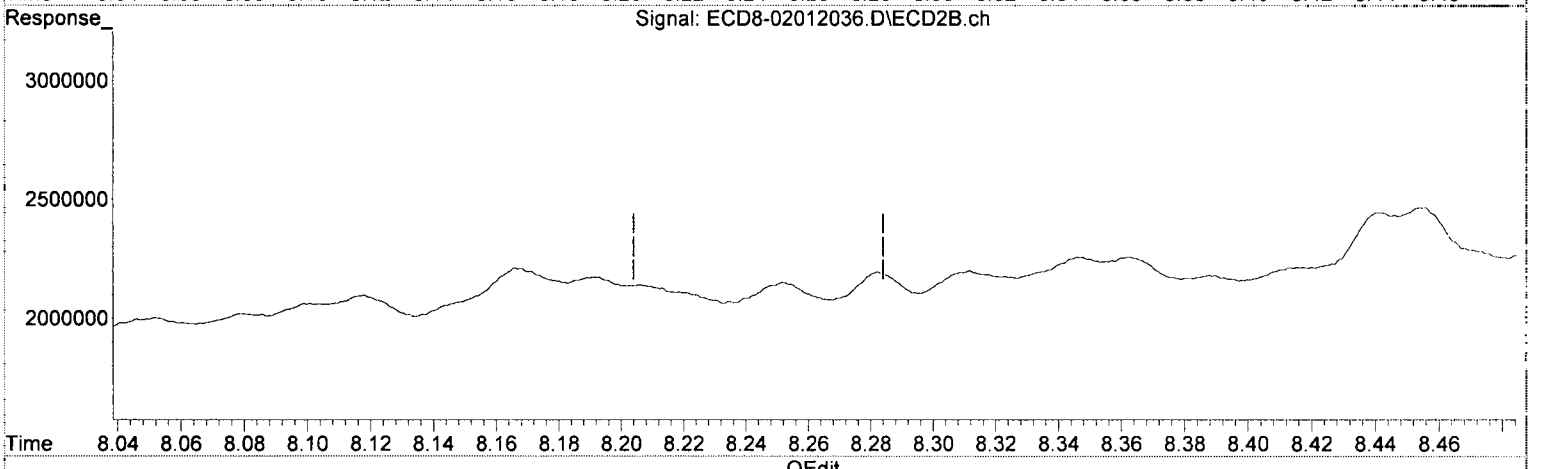
R = 6.76e-001 A*A + 6.49e+004 A + 4.50e+005
Coef of Det (r^2) = 0.998 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012036.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 00:08
Operator : MJB
Sample : 0B01012-CALQ
Misc : A20B005, TOX 10 ppb
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:53:18 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





QEdit

(39) Toxaphene (4)

8.222min -5.887 ng/mL (m)

response 68489

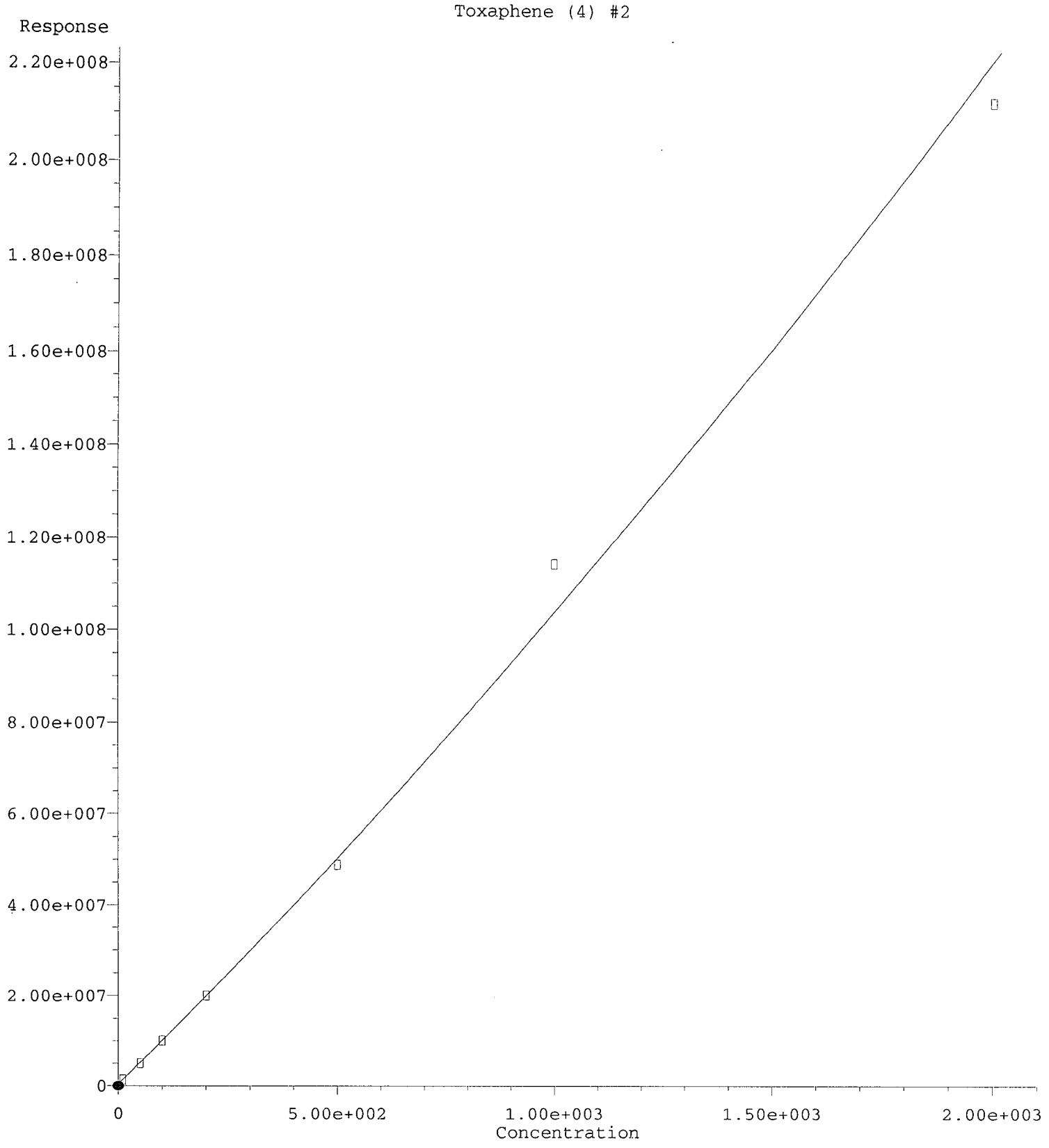
MJB 2/3/20

(39) Toxaphene (4) #2

8.907min 10.079 ng/mL

response 1372328

(+) = Expected Retention Time

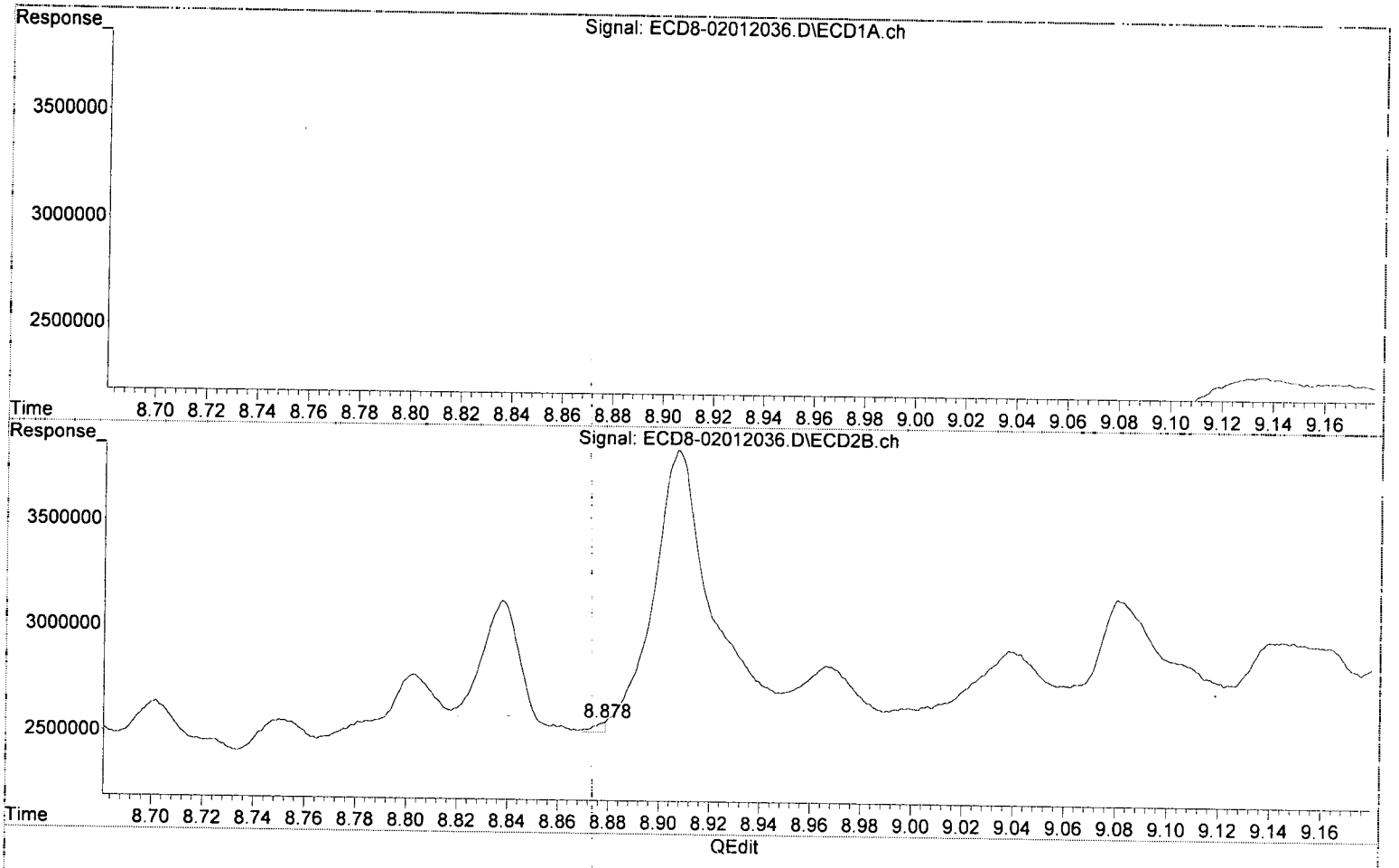


R = 7.17e+000 A*A + 9.62e+004 A + 4.02e+005
Coef of Det (r^2) = 0.997 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012036.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 00:08
Operator : MJB
Sample : 0B01012-CALQ
Misc : A20B005, TOX 10 ppb
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:53:18 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(39) Toxaphene (4)

8.222min -5.887 ng/mL m

response 68489

MJB 2/3/20

(39) Toxaphene (4) #2

8.878min -3.705 ng/mL m

response 46228

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012004.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 15:09
Operator : MJB
Sample : 0B01012-ICB1
Misc : A20A395
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 17:28:08 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

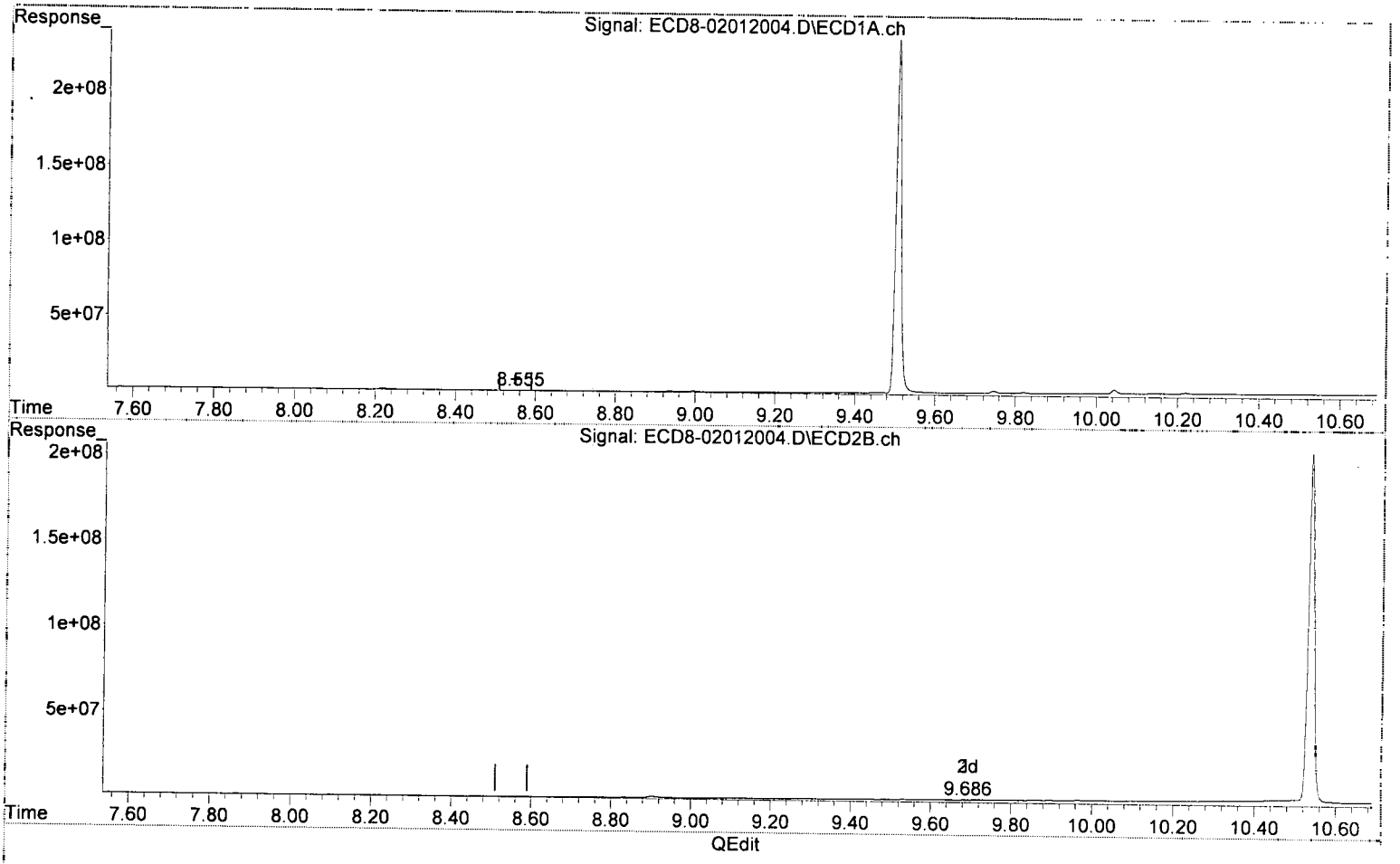
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.297	5.981	318.0E6	341.4E6	90.964	98.960	
22)	S	DCBP (S)	9.506	10.536	236.5E6	202.4E6	88.597	90.949	
		Target Compounds							
2)		a-BHC	5.840	0.000	33920	0	0.007	N.D.	#
3)		g-BHC	6.132	6.911	55024	6227	0.013	0.044	#
4)		b-BHC	6.189	6.951	134250	10158	0.077	0.006	#
5)		Heptachlor	0.000	7.277	0	8767	N.D.	0.002	#
6)		d-BHC	0.000	7.220	0	43476	N.D.	0.110	#
7)		Aldrin	0.000	7.552	0	217045	N.D.	0.070	#
8)		Heptachlo...	7.262f	7.976	39204	10712	0.011	0.003	#
9)		trans-Chl...	7.312	8.118	154215	50544	0.041	0.014	#
10)		cis-Chlor...	7.413	8.216	92336	29538	0.025	0.008	#
11)		Endosulfa...	0.000	8.282	0	22810	N.D.	0.007	#
12)		4,4'-DDE	7.470	8.333	62475	34538	0.019	0.099	#
13)		Dieldrin	7.668f	8.482	15162	19454	0.004	0.038	#
14)		Endrin	7.852	8.711	12432	86283	0.004	0.022	#
15)		4,4'-DDD	7.911	8.751	18026	44442	0.007	0.062	#
16)		Endosulfa...	8.004	8.862	229792	68437	0.077	BelowCal	#
17)		4,4'-DDT	8.112	8.977	42048	156623	0.016	0.038	#
18)		Endrin Al...	8.300	9.087	154413	151440	0.059	0.057	
19)		Endosulfa...	8.605	9.289	68096	203844	0.024	BelowCal	#
20)		Methoxychlor	8.464	9.452	99388	262606	0.082	BelowCal	#
21)		Endrin Ke...	8.786	9.687	50943	449438	0.015	BelowCal	#
23)		Hexachlor...	3.090	3.697	39616	63814	0.010	0.013	#
24)		Hexachlor...	5.679	6.447	458732	23069	0.136	BelowCal	#
25)		Oxychlordane	7.157	7.905	198607	23209	BelowCal	0.007	
26)		2,4'-DDE	7.262f	8.118	39204	50544	0.017	0.022	#
27)		trans-Non...	7.413	8.154f	92336	122733	0.025	0.034	#
28)		2,4'-DDD	7.602	8.482	9119	19454	0.005	0.010	#
29)		2,4'-DDT	7.794	8.711	20671	86283	0.009	BelowCal	#
30)		cis-Nonac...	7.899	8.751	14317	44442	0.004	0.011	#
31)		Mirex	8.556	9.687	179129	449438 ~~8199.055~~	Q-ac1	BelowCal	#
32)		Chlordane...	7.312	8.118	154215	50544	0.385	0.116	#
33)		Chlordane...	7.413	8.216	92336	29538	0.190	0.081	#
34)		Chlordane...	7.957	8.902	16279	732441	0.125	6.168	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.413	8.471	92336	17547	5.641	0.595	#
37)		Toxaphene...	7.668f	8.807	15162	39634	0.483	0.986	#
38)		Toxaphene...	8.004	8.832	229792	160410	0.105	2.479	#
39)		Toxaphene...	8.267f	8.902	188436	732441	BelowCal	3.431	
40)		Toxaphene...	8.474	9.087	94749	151440	1.748	2.642	#
41)		Toxaphene...	8.536	9.452	72757	262606	0.957	3.976	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012004.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 15:09
Operator : MJB
Sample : 0B01012-ICB1
Misc : A20A395
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 17:28:08 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(31) Mirex

8.556min 8199.055 ng/mL QDC

response 179129

MJB 2/3/20

(31) Mirex #2

9.687min -0.035 ng/mL

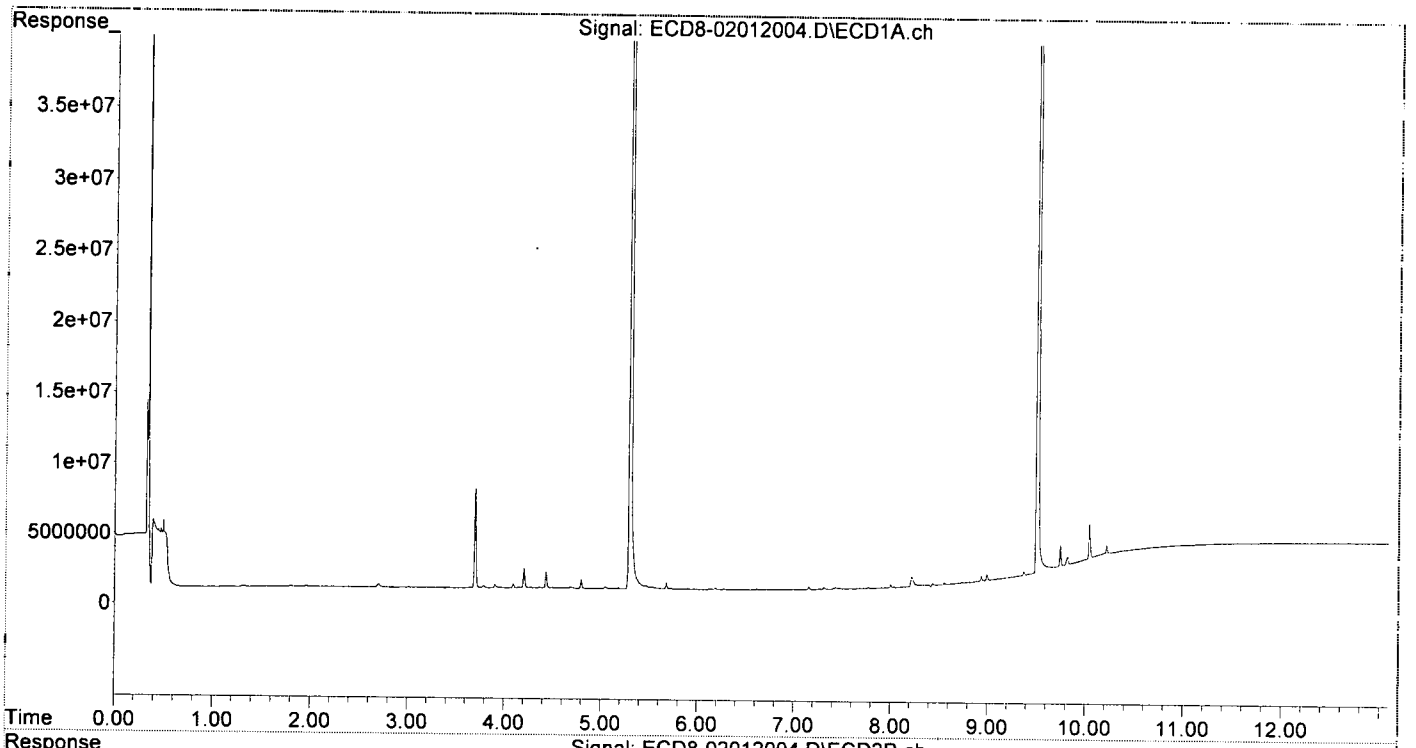
response 449438

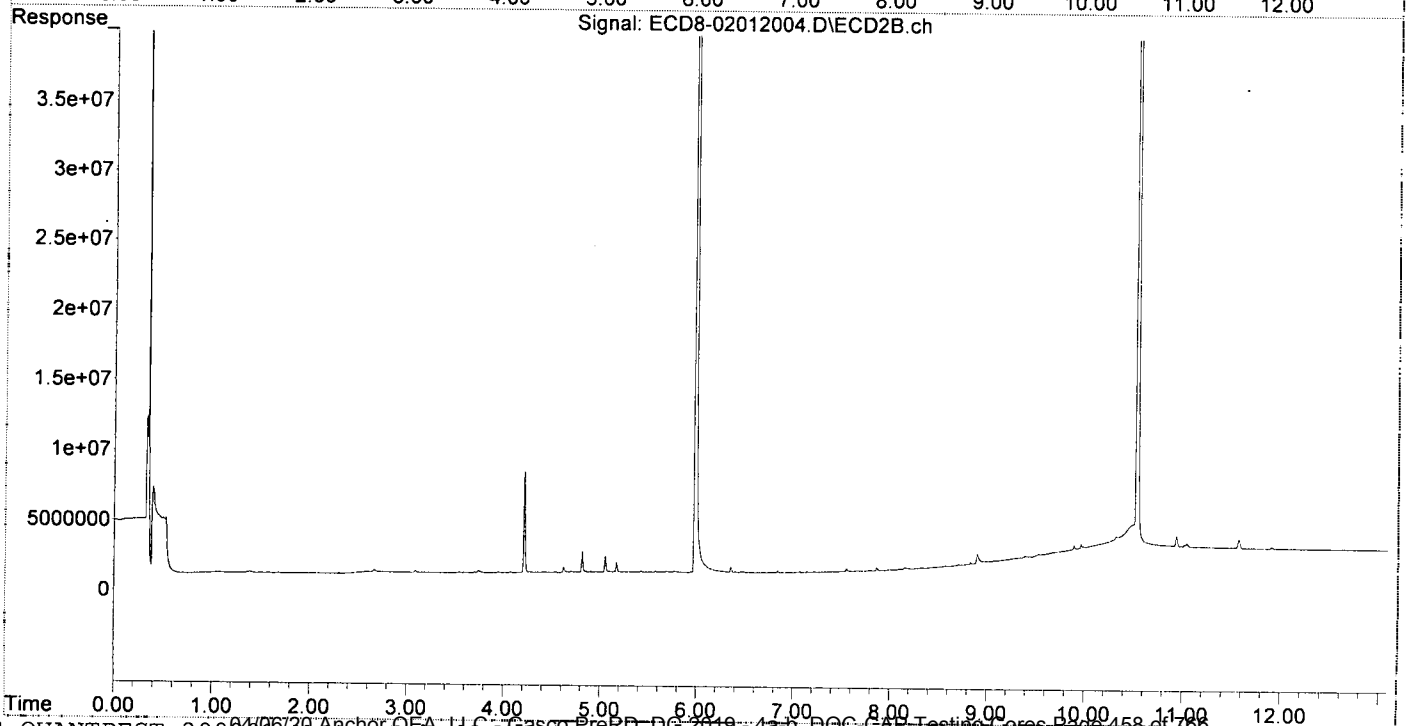
(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012004.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 15:09
Operator : MJB
Sample : 0B01012-ICB1
Misc : A20A395
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 17:28:08 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012014.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 17:58
Operator : MJB
Sample : 0B01012-IBL1
Misc : Instrument Blank
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 17:28:12 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

clean

MJB 2/3/20

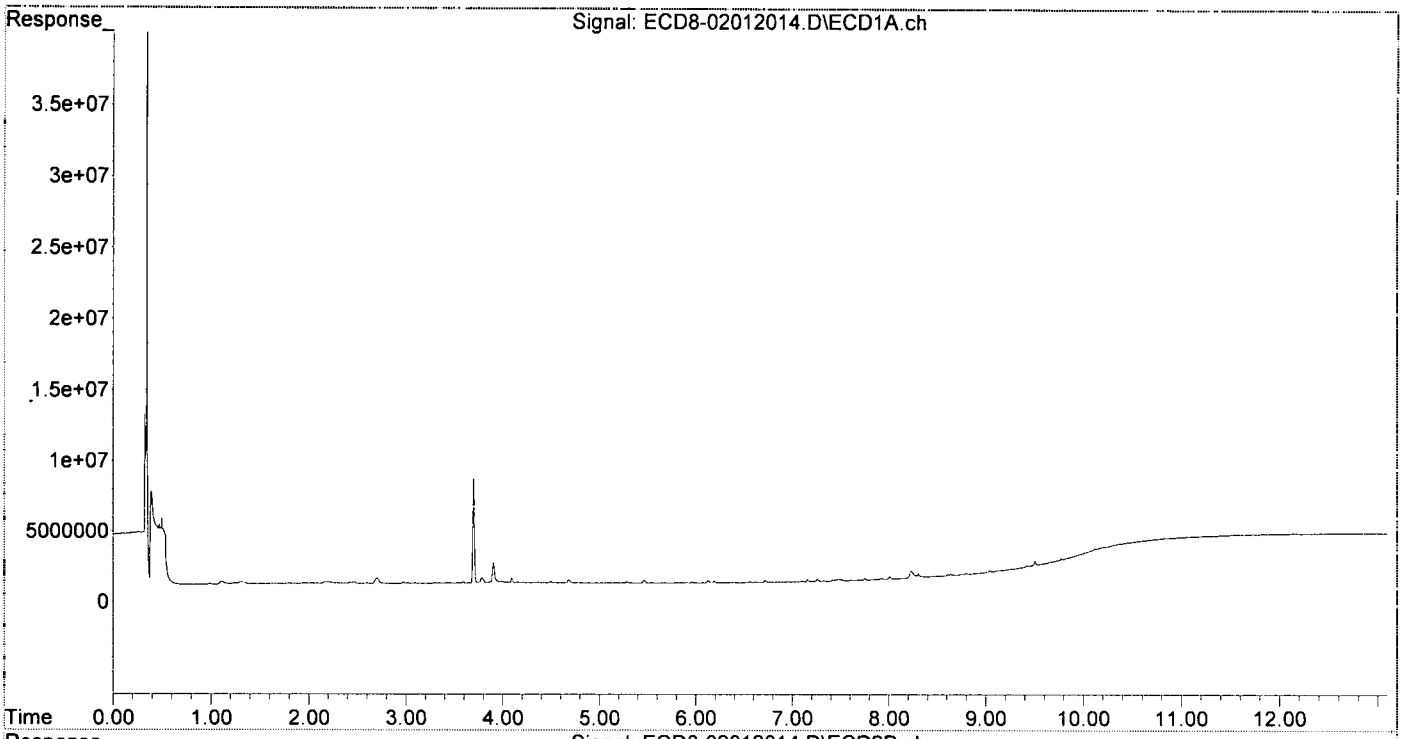
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	5.282	5.982	95189	41890	0.027	0.012 #
22) S	DCBP (S)	9.507	10.537	492471	638877	BelowCal	BelowCal
	Target Compounds						
2)	a-BHC	5.841	6.586	40611	26491	0.009	0.082 #
3)	g-BHC	6.125	6.905	169328	10004	0.041	0.045
4)	b-BHC	6.187	6.971	134965	31544	0.077	0.018 #
5)	Heptachlor	6.558f	7.276	59400	16903	0.014	0.004 #
6)	d-BHC	6.362	7.219	23778	220481	0.113	0.160 #
7)	Aldrin	6.771	7.542	15122	21973	0.004	0.018 #
8)	Heptachlo...	7.230	7.979	30323	29133	0.008	0.008
9)	trans-Chl...	7.327	8.120	42161	68307	0.011	0.018 #
10)	cis-Chlor...	7.421	8.225	69327	52479	0.019	0.015
11)	Endosulfa...	7.515	8.279	72783	42494	0.021	0.013 #
12)	4,4'-DDE	7.495	8.335	156047	124848	0.047	0.128 #
13)	Dieldrin	7.692	8.481	40938	40016	0.011	0.044 #
14)	Endrin	7.855	8.687	23482	32550	0.007	0.004 #
15)	4,4'-DDD	7.917	8.754	110975	131623	0.044	0.099 #
16)	Endosulfa...	8.008	8.853	203315	117522	0.068	0.014 #
17)	4,4'-DDT	8.121	8.959	16693	360032	0.006	0.121 #
18)	Endrin Al...	8.305	9.093	313791	318073	0.119	0.120
19)	Endosulfa...	8.606	9.283	95656	238213	0.033	0.006 #
20)	Methoxychlor	8.462	9.474f	24356	271741	0.020	BelowCal #
21)	Endrin Ke...	8.798	9.683	102576	562674	0.030	BelowCal #
23)	Hexachlor...	3.088	3.698	37161	78542	0.010	0.016 #
24)	Hexachlor...	5.647f	6.467	15412	65013	0.005	BelowCal #
25)	Oxychlordane	7.157	7.900	204406	27429	BelowCal	0.009
26)	2,4'-DDE	7.230	8.120	30323	68307	0.013	0.030 #
27)	trans-Non...	7.421	8.148f	69327	187721	0.019	0.052 #
28)	2,4'-DDD	7.606	8.481	38787	40016	0.020	0.021
29)	2,4'-DDT	7.810	8.687f	10870	32550	0.005	BelowCal #
30)	cis-Nonac...	7.890	8.754	27167	131623	0.007	0.033 #
31)	Mirex	8.549	9.683	26934	562674	8199.118	0.020 #
32)	Chlordane...	7.327	8.120	42161	68307	0.105	0.157 #
33)	Chlordane...	7.421	8.225	69327	52479	0.143	0.144
34)	Chlordane...	7.982	8.913f	31330	566953	0.241	4.774 #
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36)	Toxaphene...	7.378f	8.451	8568	24651	0.523	0.836 #
37)	Toxaphene...	7.692	8.797	40938	54945	1.303	1.367
38)	Toxaphene...	8.008	8.834	203315	146142	96751.049	2.259 #
39)	Toxaphene...	8.230	8.913	534790	566953	1.302	1.711 #
40)	Toxaphene...	8.462	9.093	24356	318073	0.449	5.548 #
41)	Toxaphene...	8.549	9.474	26934	271741	0.354	4.114 #
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

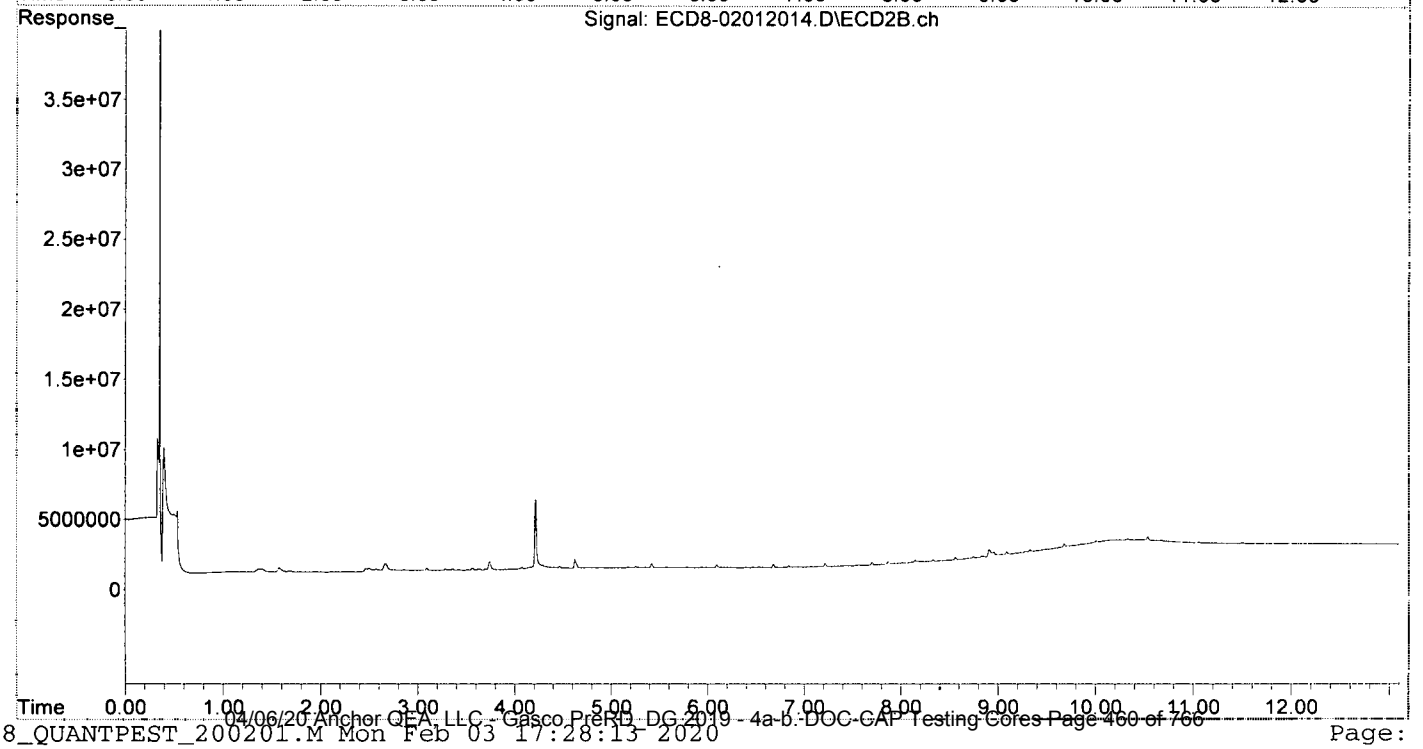
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012014.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 17:58
Operator : MJB
Sample : 0B01012-IBL1
Misc : Instrument Blank
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 17:28:12 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012015.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 18:14
Operator : MJB
Sample : 0B01012-ICV1
Misc : A19I209, AB 50 ppb
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 17:28:16 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

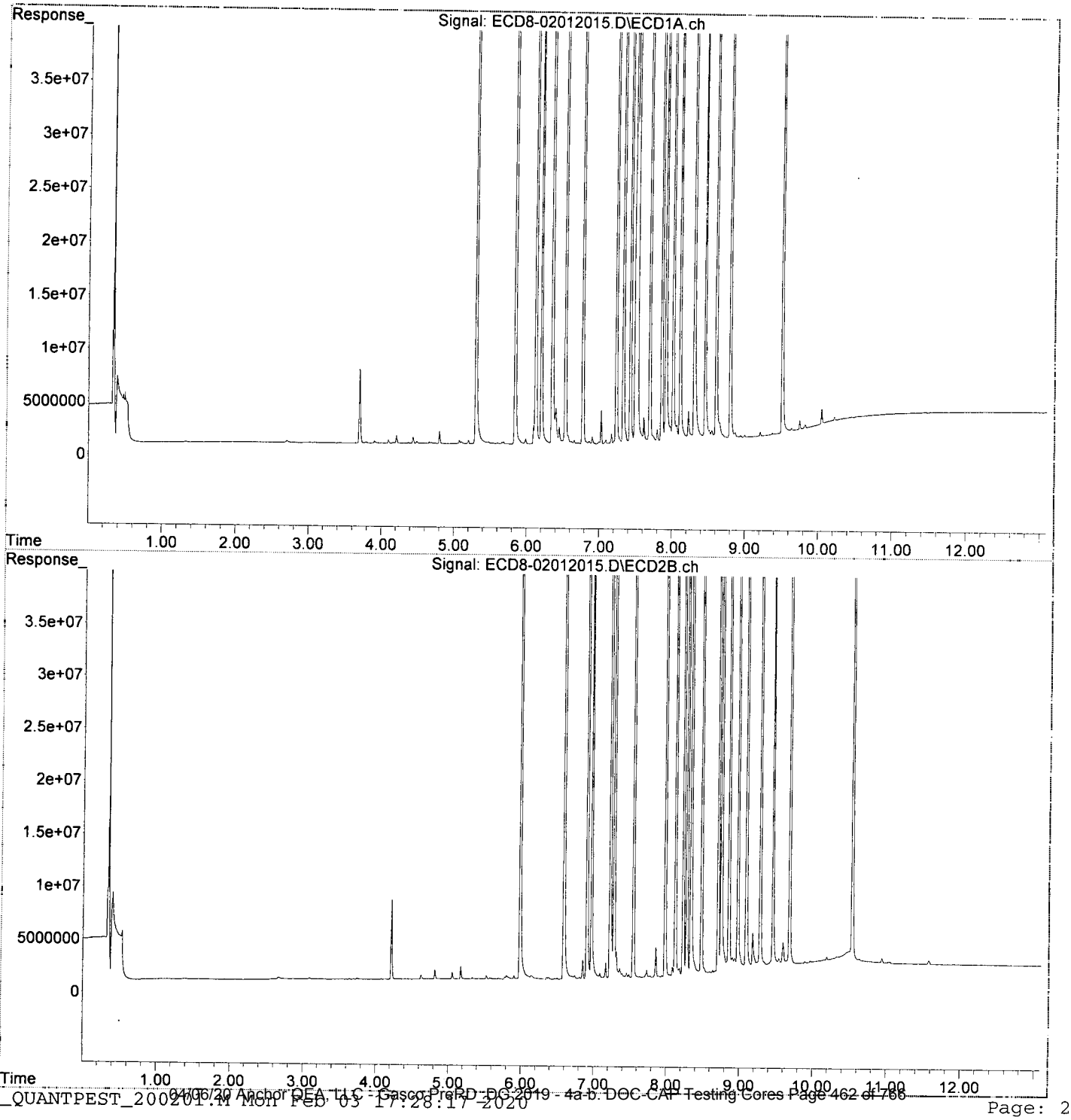
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.297	5.981	161.5E6	170.2E6	46.195	49.336	
22)	S DCBP (S)	9.507	10.537	121.2E6	103.5E6	46.127	48.299	
	Target Compounds							
2)	a-BHC	5.836	6.585	229.8E6	234.7E6	48.636	50.205	
3)	g-BHC	6.119	6.902	206.9E6	218.0E6	49.693	51.692	
4)	b-BHC	6.197	6.965	84698578	85149025	48.631	49.048	
5)	Heptachlor	6.528	7.275	189.4E6	205.5E6	46.071	48.814	
6)	d-BHC	6.345	7.220	183.4E6	202.2E6	50.101	52.145	
7)	Aldrin	6.768	7.542	191.7E6	197.5E6	47.446	49.215	
8)	Heptachlo...	7.229	7.978	171.2E6	174.6E6	46.371	48.636	
9)	trans-Chl...	7.325	8.118	179.3E6	186.6E6	47.670	50.173	
10)	cis-Chlor...	7.422	8.226	168.4E6	171.6E6	45.853	48.724	
11)	Endosulfa...	7.518	8.277	162.0E6	161.8E6	46.717	48.957	
12)	4,4'-DDE	7.489	8.331	165.0E6	164.8E6	49.676	48.331	
13)	Dieldrin	7.690	8.477	188.0E6	189.8E6	49.305	50.546	
14)	Endrin	7.853	8.705	164.0E6	155.5E6	50.237	50.079	
15)	4,4'-DDD	7.910	8.748	129.6E6	130.8E6	50.915	49.486	
16)	Endosulfa...	8.011	8.853	149.5E6	151.0E6	49.958	52.295	
17)	4,4'-DDT	8.108	8.975	135.9E6	147.2E6	50.543	52.860	
18)	Endrin Al...	8.301	9.090	136.2E6	139.5E6	51.748	52.770	
19)	Endosulfa...	8.602	9.281	144.2E6	144.3E6	50.385	52.603	
20)	Methoxychlor	8.451	9.454	57032855	59892133	47.266	49.852	
21)	Endrin Ke...	8.796	9.683	164.0E6	157.7E6	47.452	50.956	
23)	Hexachlor...	3.087	3.682	42461	16308	0.011	0.003	#
24)	Hexachlor...	5.679	6.463	256563	76800	0.076	BelowCal	#
25)	Oxychlordane	7.166	7.887	908282	117801	0.116	0.037	#
26)	2,4'-DDE	7.229	8.118	171.2E6	186.6E6	74.063	82.078	
27)	trans-Non...	7.422	8.176	168.4E6	774108	45.929	0.214	#
28)	2,4'-DDD	7.610	8.477	2312332	189.8E6	1.194	99.161	#
29)	2,4'-DDT	7.794	8.705	1125090	155.5E6	0.470	64.983	#
30)	cis-Nonac...	7.910f	8.748	129.6E6	130.8E6	31.842	32.820	
31)	Mirex	8.543	9.683	761345	157.7E6	0.108	73.098	#
32)	Chlordane...	7.325	8.118	179.3E6	186.6E6	447.623	429.399	
33)	Chlordane...	7.422	8.226	168.4E6	171.6E6	346.239	472.112	#
34)	Chlordane...	7.972	8.902	1387735	1671965	10.659	14.079	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.422f	8.477f	168.4E6	189.8E6	10286.590	6441.428	#
37)	Toxaphene...	7.690	0.000	188.0E6	0	5984.930	N.D.	#
38)	Toxaphene...	8.011	8.853	149.5E6	151.0E6	2168.521	2334.476	
39)	Toxaphene...	8.222f	8.902	2723388	1671965	35.032	13.190	#
40)	Toxaphene...	8.451	9.090	57032855	139.5E6	1052.221	2433.482	#
41)	Toxaphene...	8.543	9.454	761345	59892133	10.011	906.717	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012015.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 18:14
Operator : MJB
Sample : 0B01012-ICV1
Misc : A19I209, AB 50 ppb
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 17:28:16 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012025.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 21:03
Operator : MJB
Sample : 0B01012-IBL2
Misc : Instrument Blank
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 17:28:20 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

Clean

MJB 2/13/20

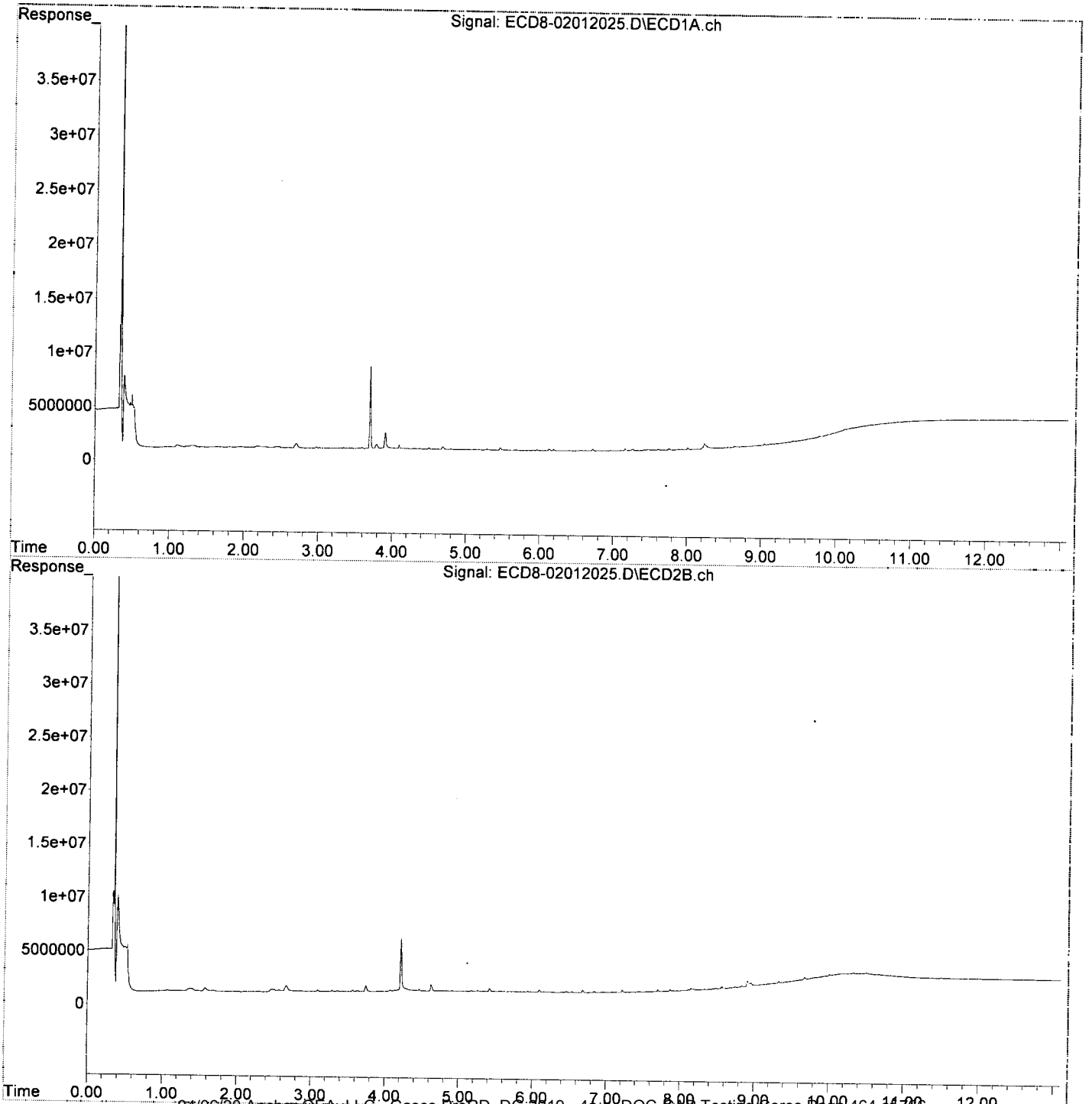
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.283	5.983	94989	23258	0.027	0.007	#
22)	S	DCBP (S)	9.514	10.527	177944	664094	BelowCal	BelowCal	
		Target Compounds							
2)		a-BHC	5.844	6.576	30623	16777	0.006	0.080	#
3)		g-BHC	6.127	6.894	153765	9160	0.037	0.044	
4)		b-BHC	6.188	6.967	128047	20253	0.074	0.012	#
5)		Heptachlor	6.524	7.278	11922	6428	0.003	0.002	#
6)		d-BHC	6.367f	7.218	11022	220592	0.110	0.161	#
7)		Aldrin	0.000	7.537	0	9312	N.D.	0.015	#
8)		Heptachlo...	7.210f	7.984	16052	13063	0.004	0.004	
9)		trans-Chl...	0.000	8.116	0	77139	N.D.	0.021	#
10)		cis-Chlor...	7.414	8.224	80061	31717	0.022	0.009	#
11)		Endosulfa...	7.553f	8.275	23890	16141	0.007	0.005	#
12)		4,4'-DDE	7.466f	8.332	82438	33244	0.025	0.099	#
13)		Dieldrin	7.691	8.486	6060	76038	0.002	0.054	#
14)		Endrin	7.853	8.713	11218	48797	0.003	0.009	#
15)		4,4'-DDD	7.885f	8.748	59493	109850	0.023	0.090	#
16)		Endosulfa...	8.007	8.870	182279	87567	0.061	0.003	#
17)		4,4'-DDT	8.070f	8.986	31904	192313	0.012	0.053	#
18)		Endrin Al...	0.000	9.095	0	186028	N.D.	0.070	#
19)		Endosulfa...	8.606	9.282	15476	246717	0.005	0.010	#
20)		Methoxychlor	0.000	9.452	0	315059	N.D.	BelowCal	
21)		Endrin Ke...	8.799	9.679	25364	645286	0.007	0.006	
23)		Hexachlor...	3.092	3.698	39190	80389	0.010	0.017	#
24)		Hexachlor...	5.682	6.450	54914	66418	0.016	BelowCal	#
25)		Oxychlordane	7.157	7.904	214870	44528	BelowCal	0.014	
26)		2,4'-DDE	7.260f	8.116	160074	77139	0.069	0.034	#
27)		trans-Non...	7.414	8.181	80061	109331	0.022	0.030	#
28)		2,4'-DDD	7.611	8.486	83589	76038	0.043	0.040	
29)		2,4'-DDT	7.802	8.713	12656	48797	0.005	BelowCal	#
30)		cis-Nonac...	7.885	8.748	59493	109850	0.015	0.028	#
31)		Mirex	8.551	9.679	49750	645286	8199.108	0.059	#
32)		Chlordane...	0.000	8.116	0	77139	N.D.	0.178	#
33)		Chlordane...	7.414	8.224	80061	31717	0.165	0.087	#
34)		Chlordane...	7.937f	8.870	16054	87567	0.123	0.737	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.414	8.448	80061	43789	4.891	1.486	#
37)		Toxaphene...	7.691	8.800	6060	67393	0.193	1.677	#
38)		Toxaphene...	8.007	8.833	182279	173531	96751.347	2.682	#
39)		Toxaphene...	8.233	8.912	497865	586942	0.733	1.919	#
40)		Toxaphene...	8.506f	9.095	24411	186028	0.450	3.245	#
41)		Toxaphene...	8.551	9.471	49750	332364	0.654	5.032	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012025.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 21:03
Operator : MJB
Sample : 0B01012-IBL2
Misc : Instrument Blank
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 17:28:20 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012026.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 21:19
Operator : MJB
Sample : 0B01012-ICV2
Misc : A19J410, 9-42 50 ppb
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 17:28:24 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

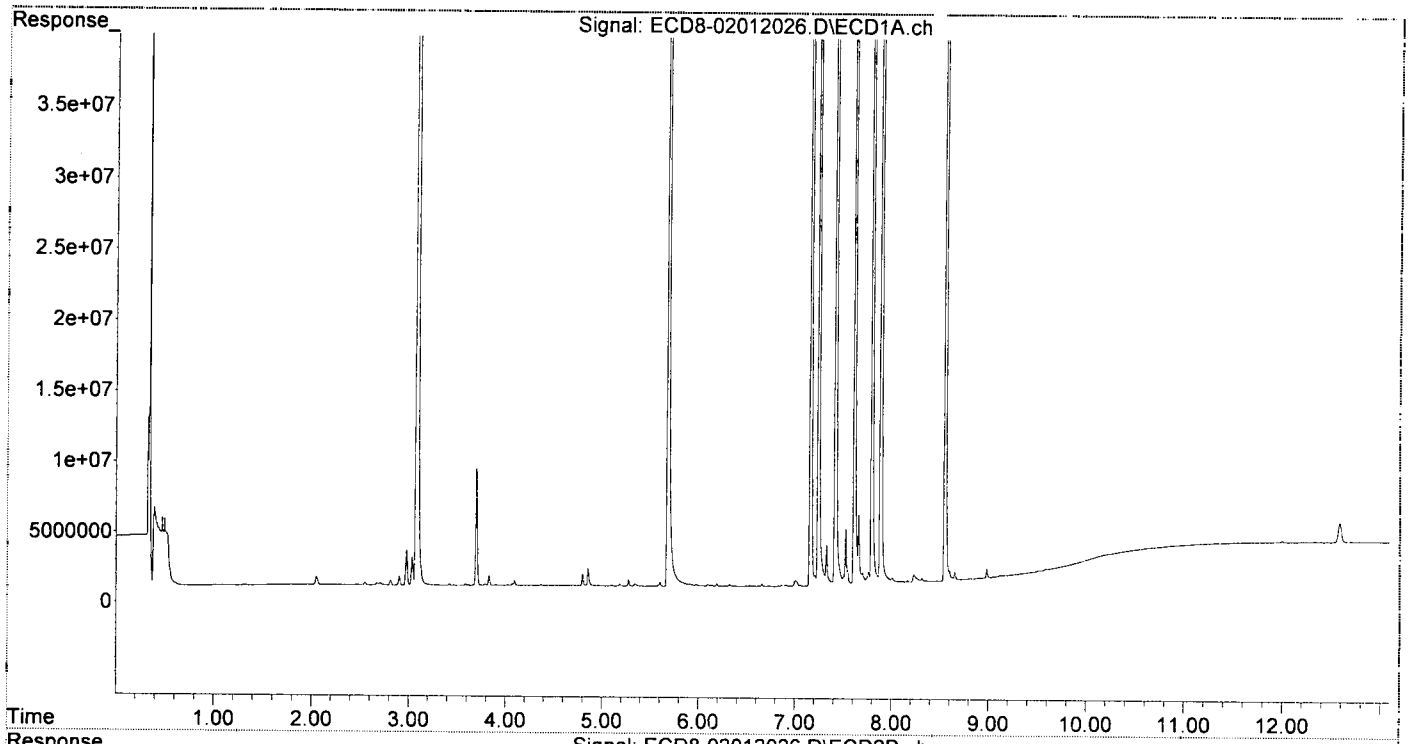
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.273f	5.985	462494	95930	0.132	0.028	#
22)	S DCBP (S)	0.000	10.541	0	281717	N.D.	BelowCal	
	Target Compounds							
2)	a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)	g-BHC	6.093f	6.930f	137773	44680	0.033	0.054	#
4)	b-BHC	6.188	6.975	203773	41755	0.117	0.024	#
5)	Heptachlor	6.530	7.276	90458	83748	0.022	0.020	
6)	d-BHC	6.350	7.226	35723	59805	0.117	0.115	
7)	Aldrin	6.732f	7.556	44684	118735	0.011	0.044	#
8)	Heptachlo...	7.239	0.000	117.6E6	0	31.851	N.D.	#
9)	trans-Chl...	7.325	8.110	2935963	120.8E6	0.781	32.490	#
10)	cis-Chlor...	7.415	8.226	187.6E6	4787498	51.073	1.359	#
11)	Endosulfa...	7.523	8.289	3930470	430643	1.133	0.130	#
12)	4,4'-DDE	7.523f	8.338	3930470	1591170	1.184	0.599	#
13)	Dieldrin	7.696	8.483	785221	103.4E6	0.206	28.389	#
14)	Endrin	7.885f	8.708	202.7E6	122.2E6	62.116	39.945	#
15)	4,4'-DDD	7.885f	8.748	202.7E6	209.6E6	79.656	74.760	
16)	Endosulfa...	8.007	8.831f	381343	324984	0.127	0.093	#
17)	4,4'-DDT	8.111	8.972	100313	174772	0.037	0.046	
18)	Endrin Al...	8.313	9.096	238470	106888	0.091	0.040	#
19)	Endosulfa...	8.594	9.287	696896	132261	0.243	BelowCal	#
20)	Methoxychlor	8.430f	0.000	7483	0	0.006	N.D.	#
21)	Endrin Ke...	8.799	9.674	40383	110.0E6	0.012	36.376	#
23)	Hexachlor...	3.081	3.681	192.4E6	251.3E6	49.353	51.898	
24)	Hexachlor...	5.679	6.448	169.5E6	170.1E6	50.413	54.016	
25)	Oxychlordane	7.158	7.907	165.5E6	166.6E6	53.310	52.105	
26)	2,4'-DDE	7.239	8.110	117.6E6	120.8E6	50.871	53.151	
27)	trans-Non...	7.415	8.181	187.6E6	195.5E6	51.157	54.156	
28)	2,4'-DDD	7.611	8.483	96774391	103.4E6	49.966	53.993	
29)	2,4'-DDT	7.793	8.708	119.4E6	122.2E6	49.908	52.169	
30)	cis-Nonac...	7.885	8.748	202.7E6	209.6E6	49.816	52.585	
31)	Mirex	8.550	9.674	122.9E6	110.0E6	50.851	51.488	
32)	Chlordane...	7.325	8.110	2935963	120.8E6	7.331	278.063	#
33)	Chlordane...	7.415	8.226	187.6E6	4787498	385.650	13.169	#
34)	Chlordane...	0.000	8.910f	0	567608	N.D.	4.780	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.415	8.483f	187.6E6	103.4E6	11457.489	3507.324	#
37)	Toxaphene...	7.696	8.831f	785221	324984	24.995	8.086	#
38)	Toxaphene...	8.007	8.831	381343	324984	2.257	5.023	#
39)	Toxaphene...	8.231	8.910	516481	567608	1.020	1.718	#
40)	Toxaphene...	0.000	9.096	0	106888	N.D.	1.864	#
41)	Toxaphene...	8.550	0.000	122.9E6	0	1615.893	N.D.	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

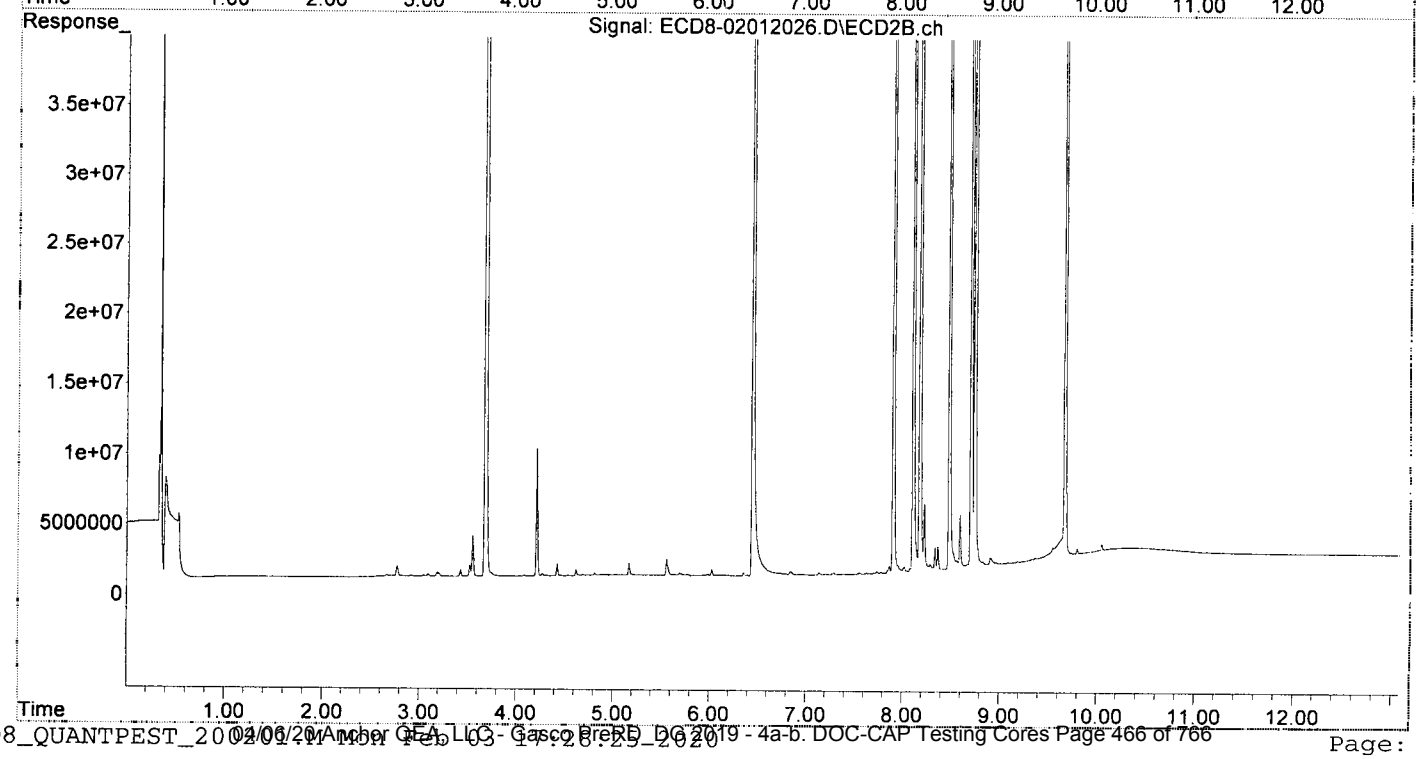
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012026.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 21:19
Operator : MJB
Sample : 0B01012-ICV2
Misc : A19J410, 9-42 50 ppb
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 17:28:24 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012034.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 23:34
Operator : MJB
Sample : 0B01012-IBL3
Misc : Instrument Blank
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 17:28:28 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

Clean
MJB 4/7/20

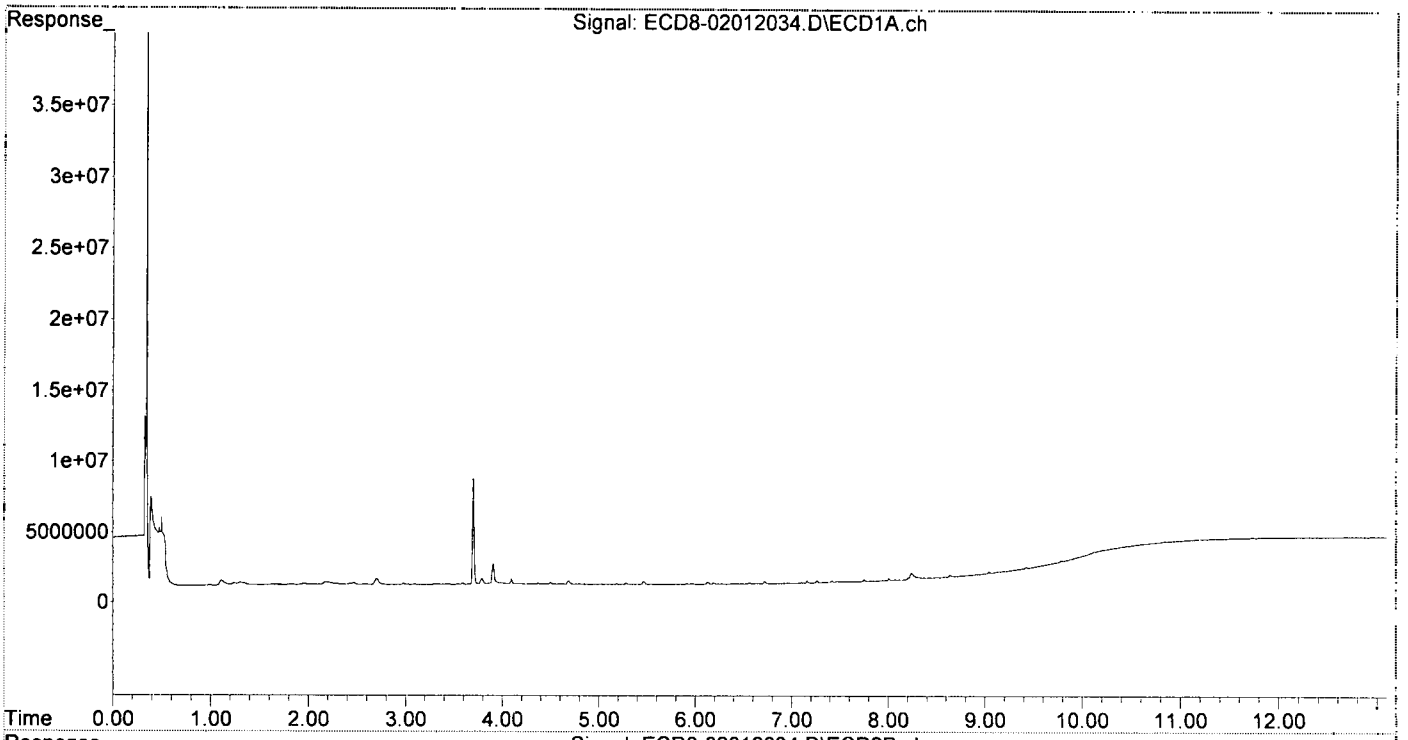
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.284	5.981	98733	19607	0.028	0.006	#
22)	S	DCBP (S)	9.501	10.541	43622	892875	BelowCal	BelowCal	
		Target Compounds							
2)		a-BHC	5.843	6.582	32066	15598	0.007	0.079	#
3)		g-BHC	6.127	6.895	147613	9454	0.035	0.045	#
4)		b-BHC	6.189	6.970	119234	17521	0.068	0.010	#
5)		Heptachlor	6.527	7.275	14667	10777	0.004	0.003	#
6)		d-BHC	6.367f	7.217	10408	217359	0.110	0.160	#
7)		Aldrin	0.000	7.544	0	8142	N.D.	0.014	#
8)		Heptachlo...	7.236	7.986	5046	6578	0.001	0.002	#
9)		trans-Chl...	7.326	8.119	53333	91075	0.014	0.024	#
10)		cis-Chlor...	7.419	8.225	105017	86465	0.029	0.025	
11)		Endosulfa...	7.525	8.288	26172	22868	0.008	0.007	
12)		4,4'-DDE	7.495	8.336	49124	41336	0.015	0.101	#
13)		Dieldrin	7.698	8.484	7070	39354	0.002	0.043	#
14)		Endrin	7.859	8.703	12270	79900	0.004	0.020	#
15)		4,4'-DDD	7.888f	8.743	18486	115044	0.007	0.092	#
16)		Endosulfa...	8.008	8.863	170981	141352	0.057	0.023	#
17)		4,4'-DDT	8.144f	8.958	8826	502369	0.003	0.179	#
18)		Endrin Al...	8.324f	9.088	70572	255337	0.027	0.097	#
19)		Endosulfa...	8.612	9.258f	11851	310903	0.004	0.035	#
20)		Methoxychlor	0.000	9.444	0	419254	N.D.	0.021	#
21)		Endrin Ke...	8.801	9.683	24694	755300	0.007	0.045	#
23)		Hexachlor...	3.089	3.699	46593	89255	0.012	0.018	#
24)		Hexachlor...	5.681	6.447	17569	20176	0.005	BelowCal	#
25)		Oxychlordane	7.158	7.898	191148	33286	BelowCal	0.010	
26)		2,4'-DDE	7.236	8.119	5046	91075	0.002	0.040	#
27)		trans-Non...	7.419	8.179	105017	116839	0.029	0.032	
28)		2,4'-DDD	7.606	8.484	44103	39354	0.023	0.021	
29)		2,4'-DDT	7.797	8.703	7157	79900	0.003	BelowCal	#
30)		cis-Nonac...	7.888	8.743	18486	115044	0.005	0.029	#
31)		Mirex	8.552	9.683	10661	755300	8199.124	0.113	#
32)		Chlordane...	7.326	8.119	53333	91075	0.133	0.210	#
33)		Chlordane...	7.419	8.225	105017	86465	0.216	0.238	
34)		Chlordane...	7.968	8.871	17623	139736	0.135	1.177	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.419	8.449	105017	55813	6.415	1.894	#
37)		Toxaphene...	7.698	8.803	7070	116894	0.225	2.909	#
38)		Toxaphene...	8.008	8.835	170981	214719	96751.508	3.319	#
39)		Toxaphene...	8.238	8.917	436383	588264	BelowCal	1.932	
40)		Toxaphene...	8.509f	9.088	27476	255337	0.507	4.454	#
41)		Toxaphene...	8.552	9.469	10661	443021	0.140	6.707	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

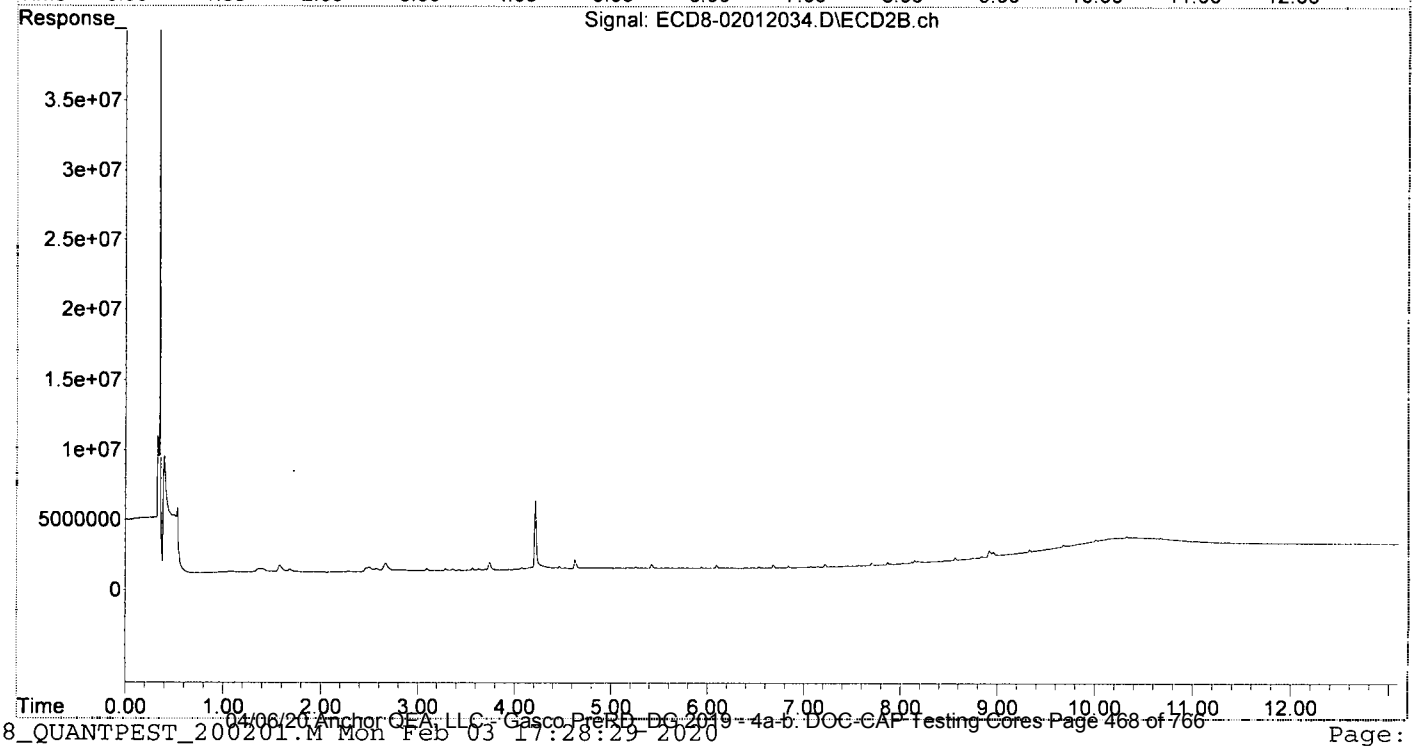
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012034.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 23:34
Operator : MJB
Sample : 0B01012-IBL3
Misc : Instrument Blank
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 17:28:28 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012035.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 23:51
Operator : MJB
Sample : 0B01012-ICV3
Misc : A19K312, CHLOR 500 ppb
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 17:28:32 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.297	5.983	102103	114036	0.029	0.033	
22)	S DCBP (S)	9.509	10.549	442158	682174	BelowCal	BelowCal	
	Target Compounds							
2)	a-BHC	5.825	6.611f	85836	3734765	0.018	0.949	#
3)	g-BHC	6.136	6.910	181902	1927747	0.044	0.536	#
4)	b-BHC	6.221f	6.976	2518888	174115	1.446	0.100	#
5)	Heptachlor	6.528	7.274	92158802	97916408	22.423	23.254	
6)	d-BHC	6.339	7.208	718608	505684	0.314	0.242	
7)	Aldrin	6.770	7.547	1187019	921583	0.294	0.258	
8)	Heptachlo...	7.238	7.996	14634580	4901611	3.963	1.365	#
9)	trans-Chl...	7.325	8.117	201.2E6	226.8E6	53.492	60.988	
10)	cis-Chlor...	7.419	8.224	236.0E6	186.7E6	64.272	52.989	
11)	Endosulfa...	7.517	8.297	2057409	3309611	0.593	1.001	#
12)	4,4'-DDE	7.497	8.319	3275087	4515911	0.986	1.535	#
13)	Dieldrin	7.704	8.477	6365894	20372847	1.669	5.804	#
14)	Endrin	7.843	8.722	3743006	2426447	1.147	0.836	#
15)	4,4'-DDD	7.884f	8.747	34316093	33227371	13.484	13.772	
16)	Endosulfa...	8.018	8.863	4068702	3863150	1.360	1.432	
17)	4,4'-DDT	8.086f	8.984	1132289	1512448	0.421	0.591	#
18)	Endrin Al...	8.326f	9.059f	1343763	1268334	0.510	0.480	
19)	Endosulfa...	8.608	9.284	2627202	373379	0.918	0.060	#
20)	Methoxychlor	8.452	9.457	1412232	518826	1.170	0.116	#
21)	Endrin Ke...	8.793	9.681	404117	2170568	0.117	0.547	#
23)	Hexachlor...	3.089	3.682	49383	24358	0.013	0.005	#
24)	Hexachlor...	5.655f	6.463	318404	79911	0.095	BelowCal	#
25)	Oxychlordane	7.152	7.920	1885219	2613453	0.434	0.817	#
26)	2,4'-DDE	7.238	8.117	14634580	226.8E6	6.330	99.769	#
27)	trans-Non...	7.419	8.180	236.0E6	172.1E6	64.379	47.667	#
28)	2,4'-DDD	7.642f	8.477	25008246	20372847	12.912	10.643	
29)	2,4'-DDT	7.812	8.722	5408636	2426447	2.260	1.089	#
30)	cis-Nonac...	7.884	8.747	34316093	33227371	8.433	8.338	
31)	Mirex	8.545	9.681	466067	2170568	8198.936	0.796	#
32)	Chlordane...	7.325	8.117	201.2E6	226.8E6	502.297	521.954	
33)	Chlordane...	7.419	8.224	236.0E6	186.7E6	485.318	513.436	
34)	Chlordane...	7.966	8.888	63830007	57949683	490.255	487.975	
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.390	8.477f	28796553	20372847	1759.169	691.332	#
37)	Toxaphene...	7.704	8.803	6365894	5219875	202.636	129.883	#
38)	Toxaphene...	7.997	8.839	2979211	5324116	39.178	82.294	#
39)	Toxaphene...	8.245	8.888	2823883	57949683	36.580	573.914	#
40)	Toxaphene...	8.452	9.059f	1412232	1268334	26.055	22.124	
41)	Toxaphene...	8.545	9.457	466067	518826	6.128	7.855	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

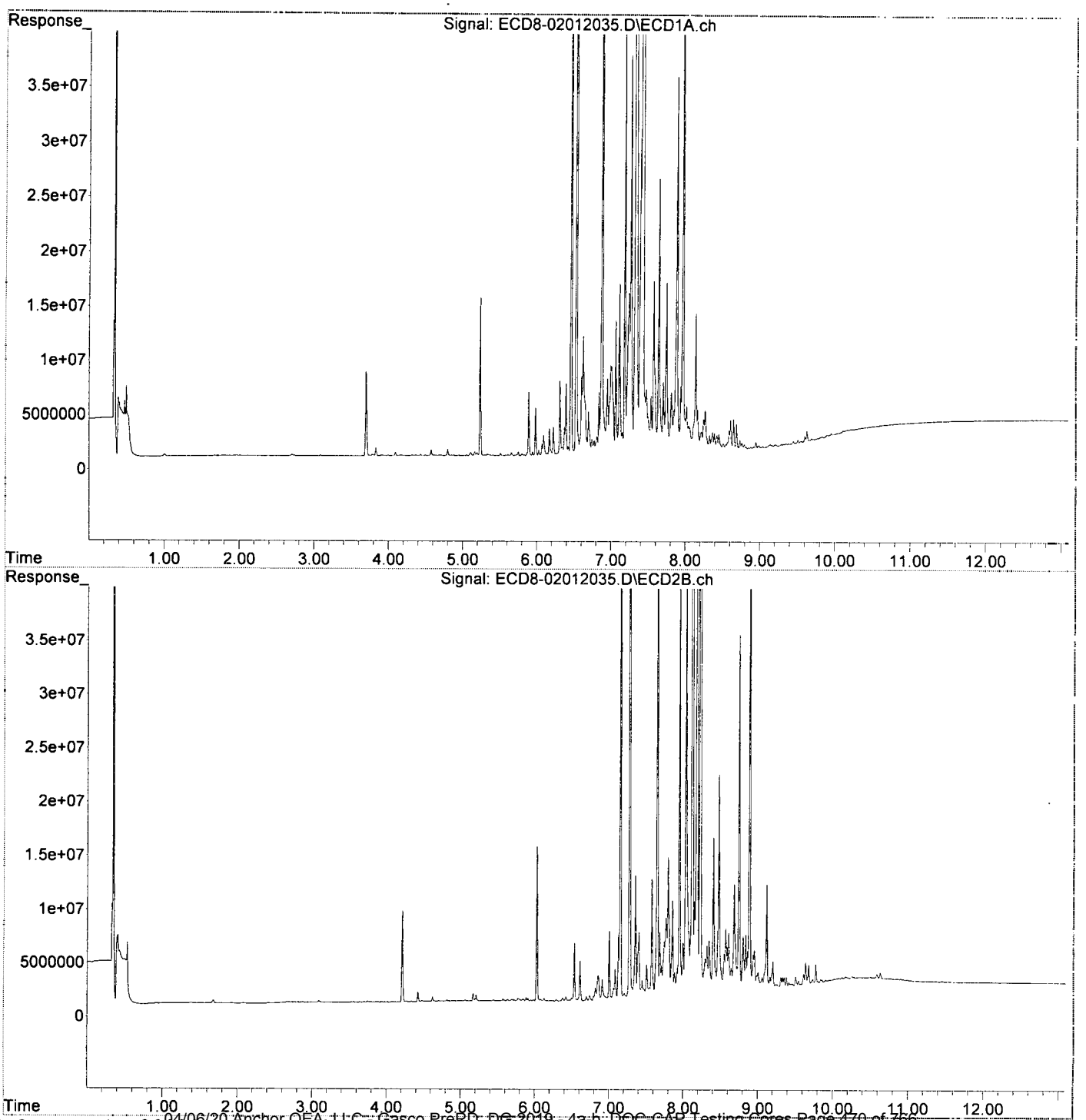
A B
492.62 507.79

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012035.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 23:51
Operator : MJB
Sample : 0B01012-ICV3
Misc : A19K312, CHLOR 500 ppb
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 17:28:32 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012043.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 2:05
Operator : MJB
Sample : 0B01012-IBL4
Misc : Instrument Blank
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 17:28:36 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

clean
MJB 2/3/20

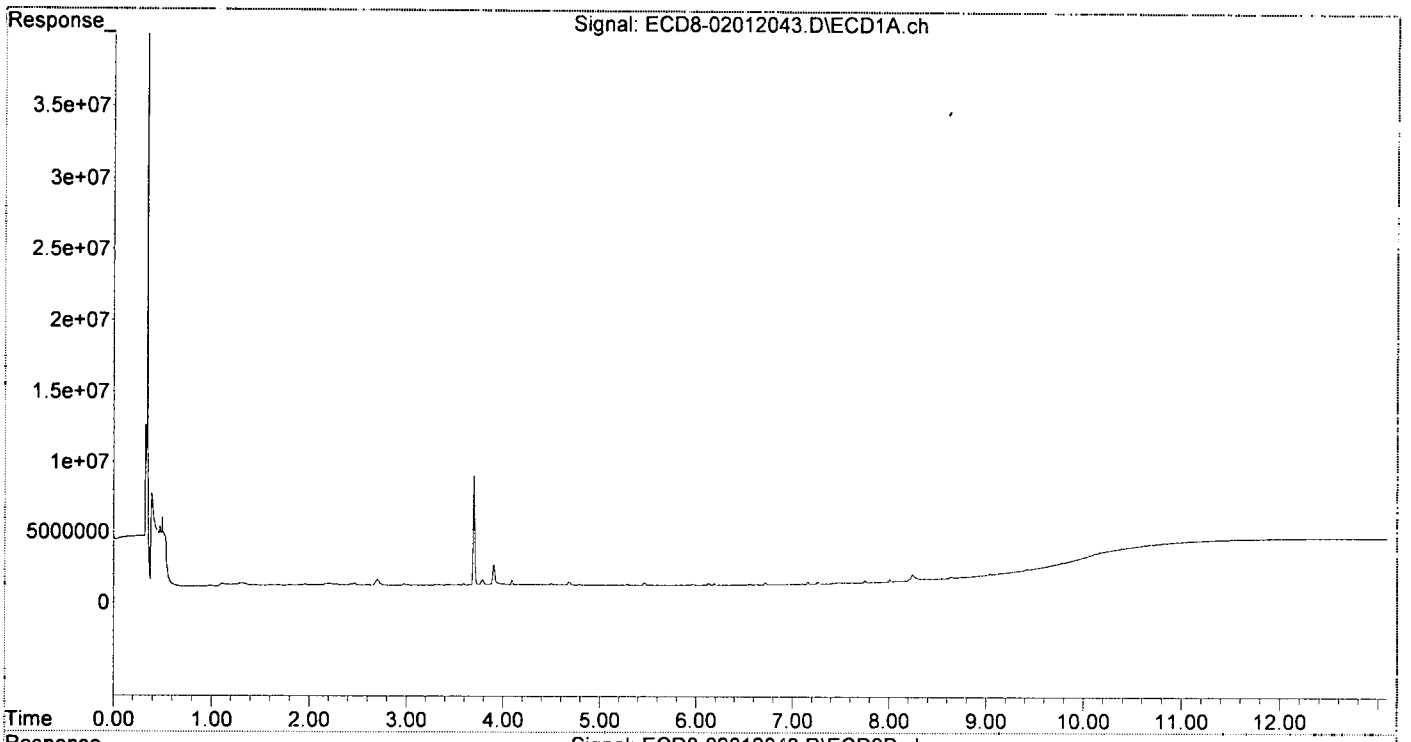
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.283	5.983	97129	10331	0.028	0.003	#
22)	S	DCBP (S)	9.505	10.525	158391	742061	BelowCal	BelowCal	
		Target Compounds							
2)		a-BHC	5.841	6.573	31406	23051	0.007	0.081	#
3)		g-BHC	6.129	6.892	144324	11670	0.035	0.045	#
4)		b-BHC	6.189	6.979	120878	17225	0.069	0.010	#
5)		Heptachlor	6.527	7.312f	11185	14708	0.003	0.003	#
6)		d-BHC	6.367f	7.217	13198	216044	0.110	0.159	#
7)		Aldrin	0.000	7.566f	0	50700	N.D.	0.026	#
8)		Heptachlo...	7.226	7.956f	5275	8156	0.001	0.002	#
9)		trans-Chl...	7.330	8.119	12534	38481	0.003	0.010	#
10)		cis-Chlor...	7.416	8.253f	46476	21068	0.013	0.006	#
11)		Endosulfa...	7.527	8.253f	34189	21068	0.010	0.006	#
12)		4,4'-DDE	7.483	8.332	59358	25862	0.018	0.096	#
13)		Dieldrin	7.690	8.447f	8788	41379	0.002	0.044	#
14)		Endrin	7.864	8.744f	6653	55434	0.002	0.012	#
15)		4,4'-DDD	7.920	8.744	5377	55434	0.002	0.067	#
16)		Endosulfa...	8.008	8.832f	183369	166976	0.061	0.033	#
17)		4,4'-DDT	8.103	8.957	3941	417819	0.001	0.145	#
18)		Endrin Al...	8.332f	0.000	76012	0	0.029	N.D.	#
19)		Endosulfa...	8.608	0.000	16050	0	0.006	N.D.	#
20)		Methoxychlor	8.449	0.000	14721	0	0.012	N.D.	#
21)		Endrin Ke...	8.799	9.682	24185	637900	0.007	0.003	#
23)		Hexachlor...	3.089	3.699	38132	80810	0.010	0.017	#
24)		Hexachlor...	5.674	6.467	16598	64540	0.005	BelowCal	#
25)		Oxychlordane	7.158	7.900	189063	29768	BelowCal	0.009	
26)		2,4'-DDE	7.226	8.119	5275	38481	0.002	0.017	#
27)		trans-Non...	7.416	8.186	46476	69988	0.013	0.019	#
28)		2,4'-DDD	7.605	8.447f	47788	41379	0.025	0.022	
29)		2,4'-DDT	7.796	8.744f	7574	55434	0.003	BelowCal	#
30)		cis-Nonac...	7.883	8.744	5420	55434	0.001	0.014	#
31)		Mirex	8.549	9.682	13158	637900	8199.123	0.056	#
32)		Chlordane...	7.330	8.119	12534	38481	0.031	0.089	#
33)		Chlordane...	7.416	8.199f	46476	58670	0.096	0.161	#
34)		Chlordane...	7.968	8.915f	5752	516817	0.044	4.352	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.416	8.447	46476	41379	2.839	1.404	#
37)		Toxaphene...	7.690	8.832f	8788	166976	0.280	4.155	#
38)		Toxaphene...	8.008	8.832	183369	166976	96751.332	2.581	#
39)		Toxaphene...	8.240	8.915	443613	516817	BelowCal	1.190	
40)		Toxaphene...	8.472	0.000	15357	0	0.283	N.D.	#
41)		Toxaphene...	8.542	0.000	12646	0	0.166	N.D.	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

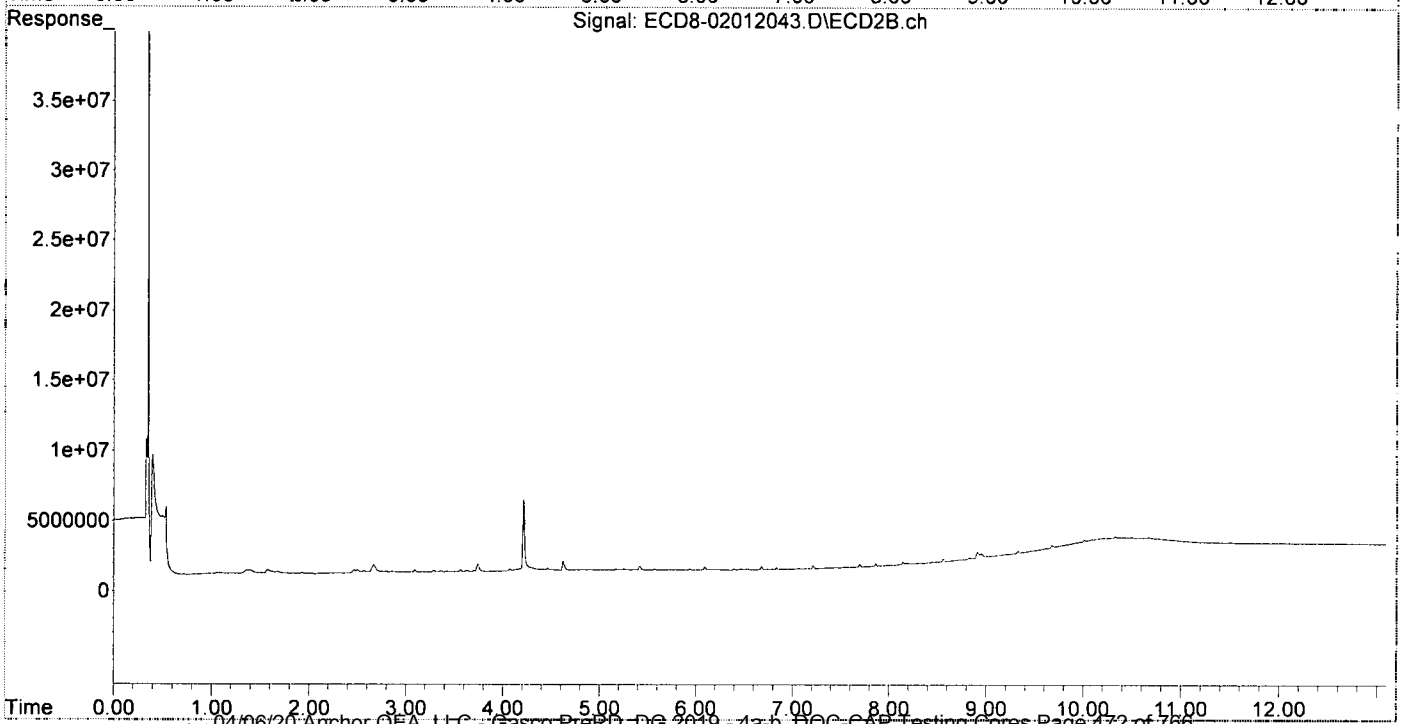
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012043.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 2:05
Operator : MJB
Sample : 0B01012-IBL4
Misc : Instrument Blank
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 17:28:36 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012044.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 2:22
Operator : MJB
Sample : 0B01012-ICV4
Misc : A19J422, TOX 500 ppb
ALS Vial : 39 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 17:28:40 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MP 2/3/20

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.335f	5.983	110999	99182	0.032	0.029	
22)	S DCBP (S)	9.497	10.515f	693247	1717771	BelowCal	0.343	
	Target Compounds							
2)	a-BHC	5.835	6.586	99095	77467	0.021	0.094	#
3)	g-BHC	6.114	6.893	37764	131681	0.009	0.076	#
4)	b-BHC	6.186	6.975	248202	87005	0.143	0.050	#
5)	Heptachlor	6.528	7.276	319553	350072	0.078	0.083	
6)	d-BHC	6.329	7.219	100730	261363	0.136	0.172	#
7)	Aldrin	6.766	7.566f	717392	1005500	0.178	0.281	#
8)	Heptachlo...	7.231	7.970	2516758	4123931	0.682	1.149	#
9)	trans-Chl...	7.312	8.098f	3488495	4637356	0.928	1.247	#
10)	cis-Chlor...	7.399f	8.206f	7661138	4552878	2.086	1.292	#
11)	Endosulfa...	7.521	8.281	9638582	6414998	2.779	1.941	#
12)	4,4'-DDE	7.496	8.345	5092095	7757940	1.533	2.569	#
13)	Dieldrin	7.692	8.492	14272433	8195816	3.743	2.366	#
14)	Endrin	7.837	8.700	12909489	16527403	3.956	5.696	#
15)	4,4'-DDD	7.921	8.750	13381873	11127699	5.258	4.751	
16)	Endosulfa...	8.002	8.859	33473288	8447138	11.189	3.157	#
17)	4,4'-DDT	8.132f	8.966	8361255	12980220	3.110	5.205	#
18)	Endrin Al...	8.292	9.081	23426405	27489175	8.898	10.398	
19)	Endosulfa...	8.608	9.282	14242045	12740392	4.976	4.966	
20)	Methoxychlor	8.443	9.462	11306361	30731027	9.370	26.832	#
21)	Endrin Ke...	8.791	9.705f	9140654	7146433	2.645	2.304	
23)	Hexachlor...	3.082	3.677	66915	65283	0.017	0.013	
24)	Hexachlor...	5.686	6.432	20834	35211	0.006	BelowCal	#
25)	Oxychlordane	7.160	7.923	6174300	3491517	1.831	1.092	#
26)	2,4'-DDE	7.231	8.098	2516758	4637356	1.089	2.040	#
27)	trans-Non...	7.399	8.191	7661138	5108856	2.090	1.415	#
28)	2,4'-DDD	7.610	8.492	10401060	8195816	5.370	4.281	
29)	2,4'-DDT	7.792	8.700	17863901	16527403	7.465	7.606	
30)	cis-Nonac...	7.879	8.750	21800253	11127699	5.357	2.792	#
31)	Mirex	8.538	9.705f	35082093	7146433	14.303	3.197	#
32)	Chlordane...	7.312	8.098	3488495	4637356	8.711	10.673	
33)	Chlordane...	7.399f	8.206	7661138	4552878	15.753	12.523	
34)	Chlordane...	7.942f	8.904	15096168	50103773	115.948	421.907	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.399	8.453	7661138	14031789	468.016	476.155	
37)	Toxaphene...	7.692	8.802	14272433	19300126	454.313	480.235	
38)	Toxaphene...	8.002	8.837	33473288	30293001	474.677	468.233	
39)	Toxaphene...	8.244	8.904	32680583	50103773	494.355	498.360	
40)	Toxaphene...	8.470	9.081	26380028	27489175	486.695	479.497	
41)	Toxaphene...	8.538	9.462	35082093	30731027	461.278	465.242	
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

A 473.22

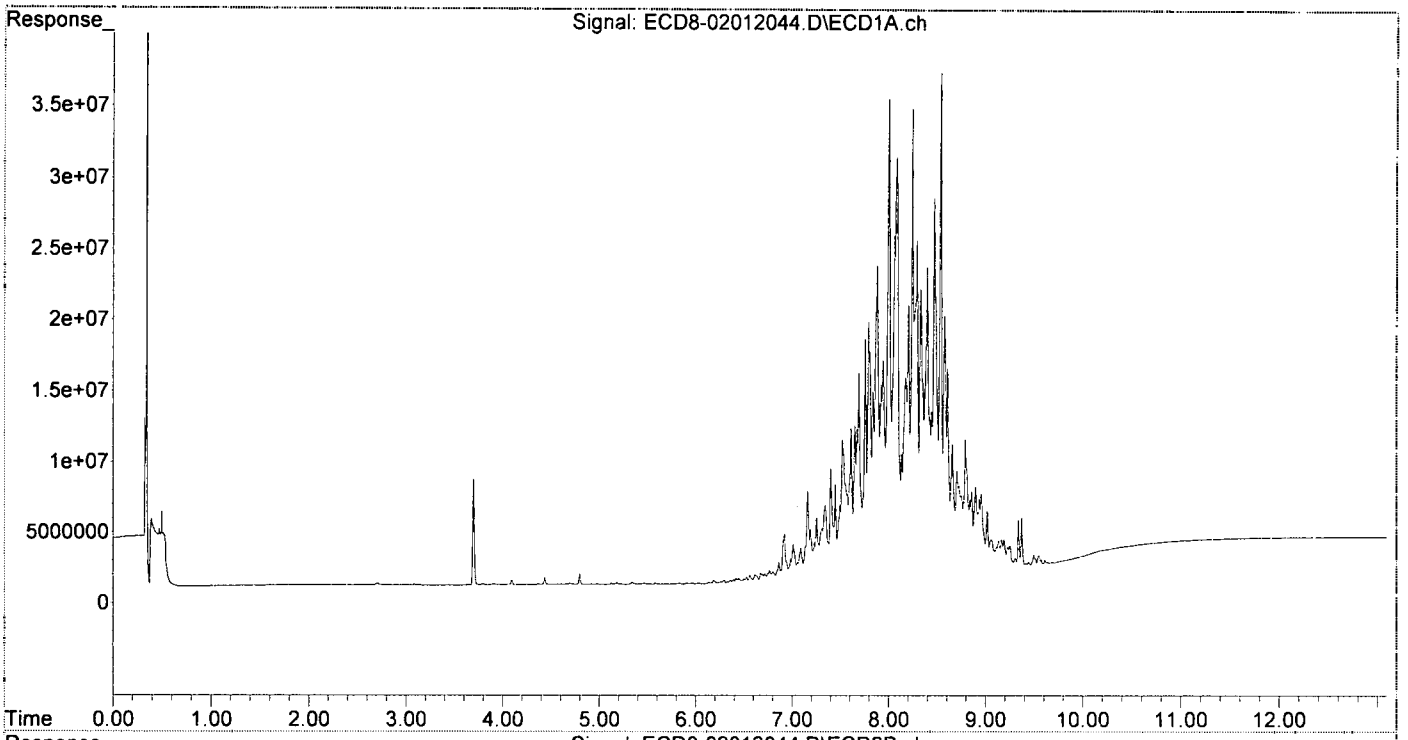
B 477.95

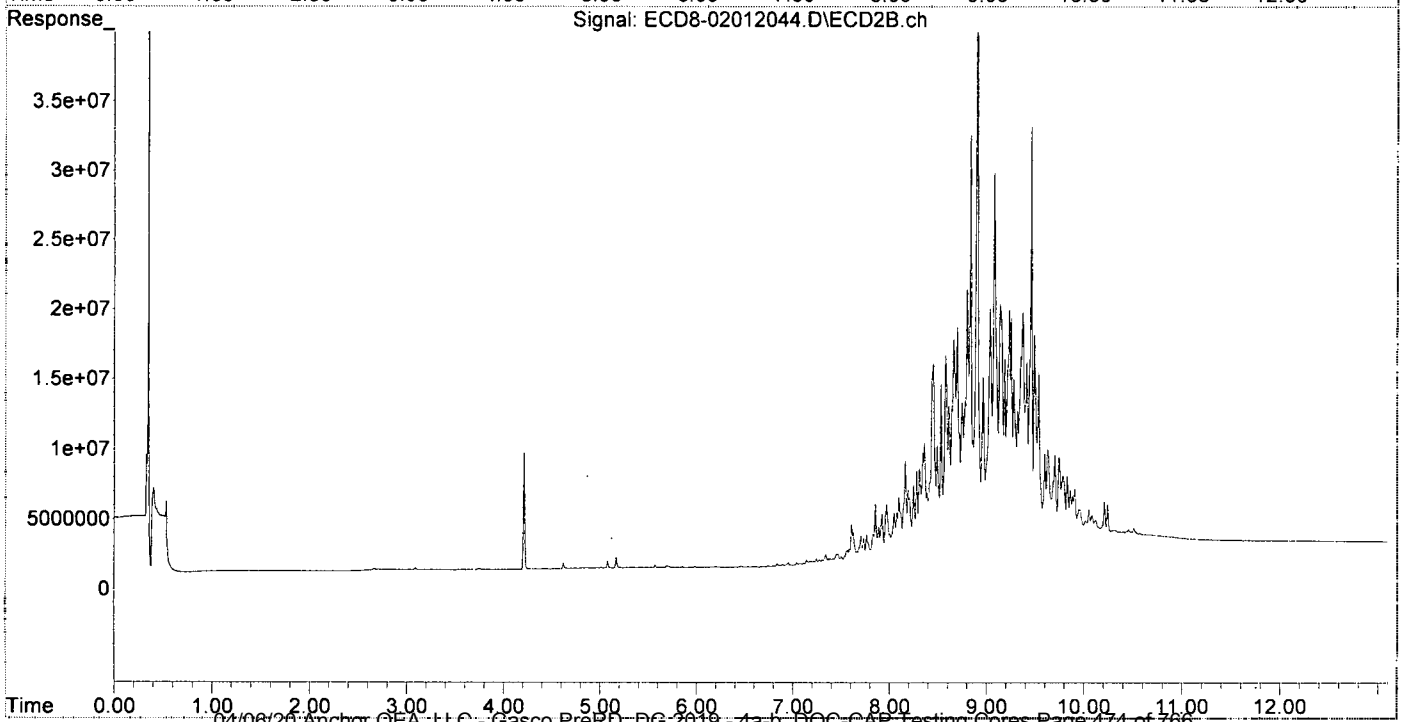
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012044.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 2:22
Operator : MJB
Sample : 0B01012-ICV4
Misc : A19J422, TOX 500 ppb
ALS Vial : 39 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 17:28:40 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 15:26
Operator : MJB
Sample : 0B01012-CAL1
Misc : A20B001, AB 0.5 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:45:47 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

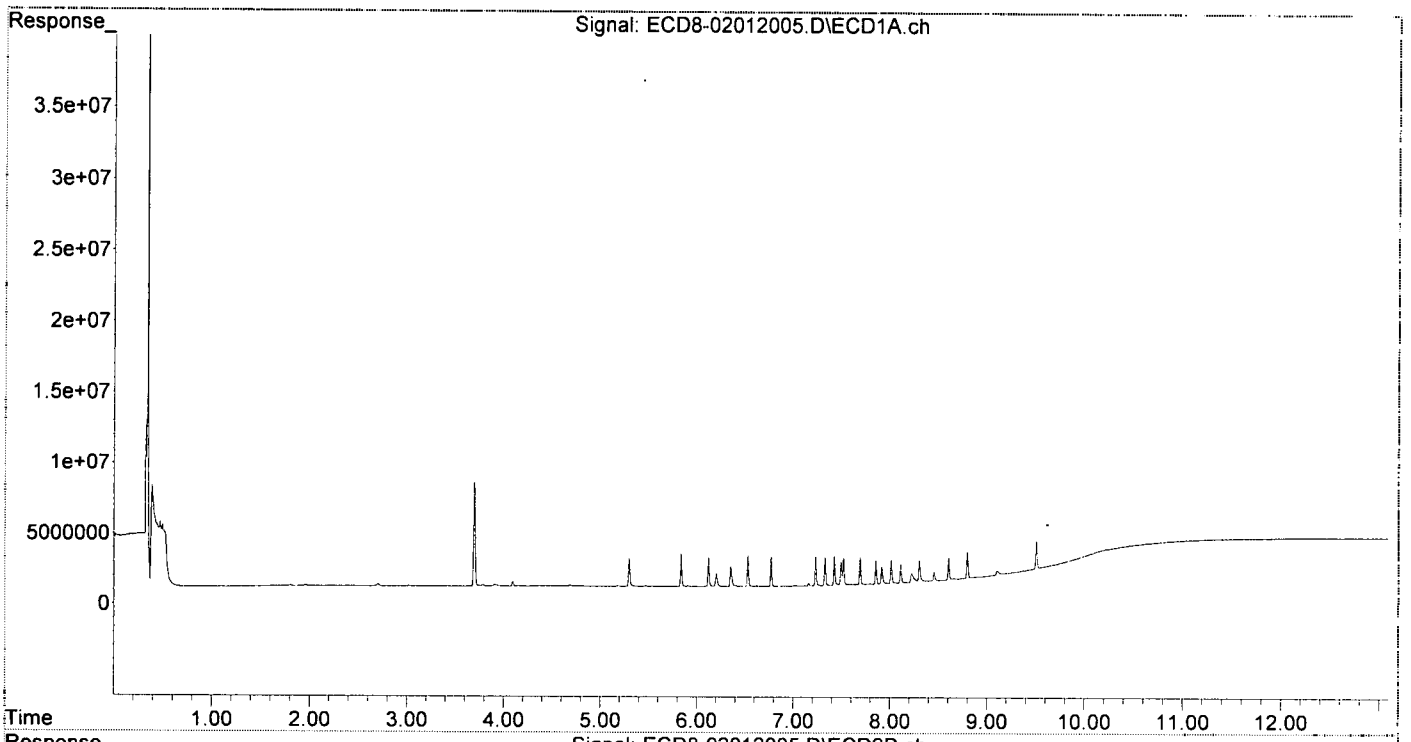
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.297	5.982	2010387	1807457	0.575	0.524	
22)	S DCBP (S)	9.507	10.537	2137981	2121210	0.502	0.543	
	Target Compounds							
2)	a-BHC	5.836	6.585	2323532	1906806	0.492	0.522	
3)	g-BHC	6.120	6.903	2098226	1857818	0.504	0.518	
4)	b-BHC	6.201	6.970	943381	871353	0.542	0.502	
5)	Heptachlor	6.529	7.276	2213636	2166906	0.539	0.515	
6)	d-BHC	6.351	7.224	1446613	1525163	0.525	0.533	
7)	Aldrin	6.769	7.541	2117773	1887335	0.524	0.516	
8)	Heptachlo...	7.230	7.979	2037408	1829309	0.552	0.510	
9)	trans-Chl...	7.327	8.119	2006872	1923989	0.534	0.517	
10)	cis-Chlor...	7.424	8.226	2072536	1851957	0.564	0.526	
11)	Endosulfa...	7.519	8.277	1932337	1589681	0.557	0.481	
12)	4,4'-DDE	7.493	8.333	1628951	1346237	0.491	0.520	
13)	Dieldrin	7.691	8.478	1958633	1711724	0.514	0.521	
14)	Endrin	7.854	8.705	1701747	1499119	0.521	0.514	
15)	4,4'-DDD	7.915	8.751	1218671	1119384	0.479	0.522	
16)	Endosulfa...	8.013	8.854	1650694	1442453	0.552	0.516	
17)	4,4'-DDT	8.110	8.975	1351757	1360505	0.503	0.529	
18)	Endrin Al...	8.303	9.091	1534740	1556354	0.583	0.589	
19)	Endosulfa...	8.604	9.282	1548557	1535031	0.541	0.525	
20)	Methoxychlor	8.454	9.456	650344	981544	0.539	0.552	
21)	Endrin Ke...	8.797	9.683	1865728	2135612	0.540	0.534	
23)	Hexachlor...	3.076	3.696	17677	66321	0.005	0.014	#
24)	Hexachlor...	5.680	6.447	15123	21644	0.004	BelowCal	#
25)	Oxychlordane	7.158	7.908	207459	12353	BelowCal	0.004	
26)	2,4'-DDE	7.230	8.119	2037408	1923989	0.881	0.846	
27)	trans-Non...	7.424	8.158f	2072536	113688	0.565	0.031	#
28)	2,4'-DDD	7.613	8.478	26854	1711724	0.014	0.894	#
29)	2,4'-DDT	7.794	8.705	41169	1499119	0.017	0.654	#
30)	cis-Nonac...	7.915f	8.751	1218671	1119384	0.299	0.281	
31)	Mirex	8.550	9.683	18576	2135612	8199.121	0.780	#
32)	Chlordane...	7.327	8.119	2006872	1923989	5.011	4.428	
33)	Chlordane...	7.424	8.226	2072536	1851957	4.262	5.094	
34)	Chlordane...	7.976	8.906	24188	731865	0.186	6.163	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.424f	8.478f	2072536	1711724	126.610	58.086	#
37)	Toxaphene...	7.691	0.000	1958633	0	62.346	N.D.	#
38)	Toxaphene...	8.013	8.854	1650694	1442453	20.294	22.296	
39)	Toxaphene...	8.224	8.906	649309	731865	3.068	3.425	
40)	Toxaphene...	8.454	9.091	650344	1556354	11.998	27.148	#
41)	Toxaphene...	8.550	9.456	18576	981544	0.244	14.860	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

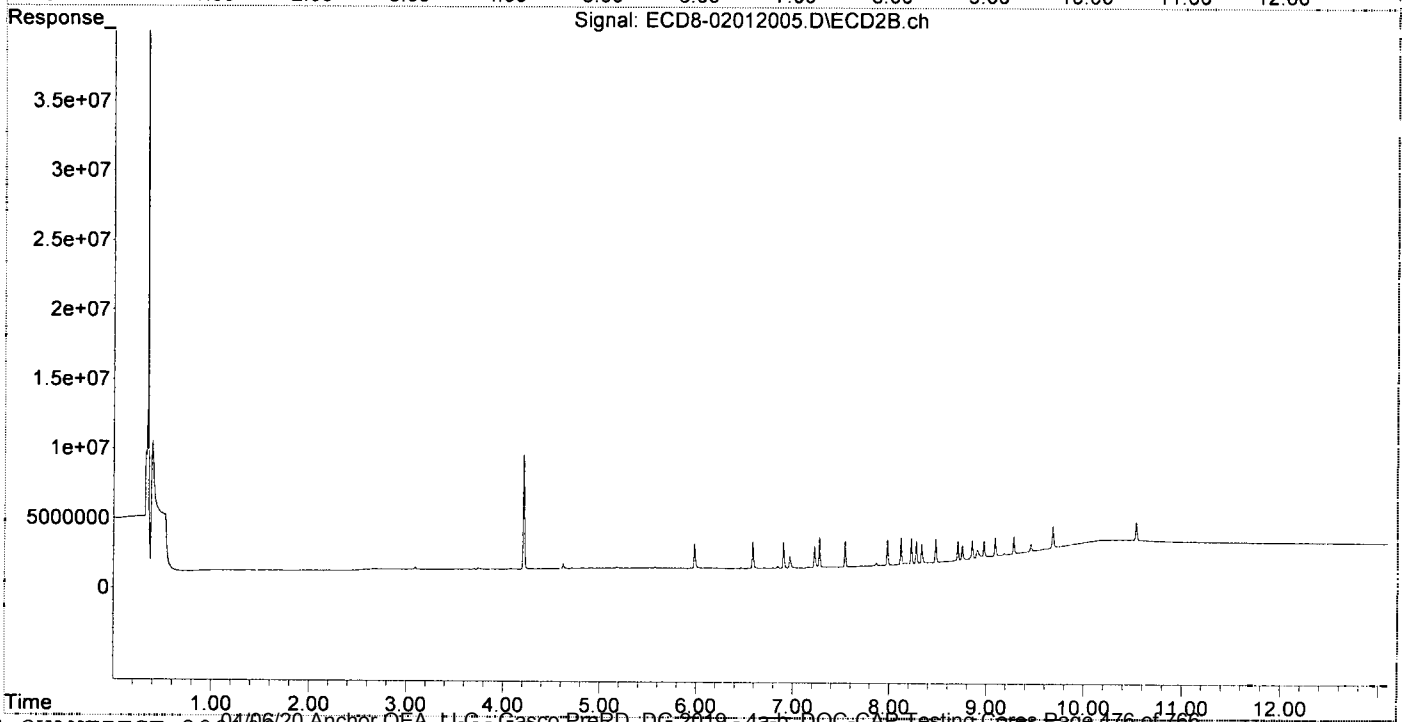
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 15:26
Operator : MJB
Sample : 0B01012-CAL1
Misc : A20B001, AB 0.5 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:45:47 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012006.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 15:43
Operator : MJB
Sample : 0B01012-CAL2
Misc : A20B002, AB 1 ppb
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:46:01 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MB 2/3/20

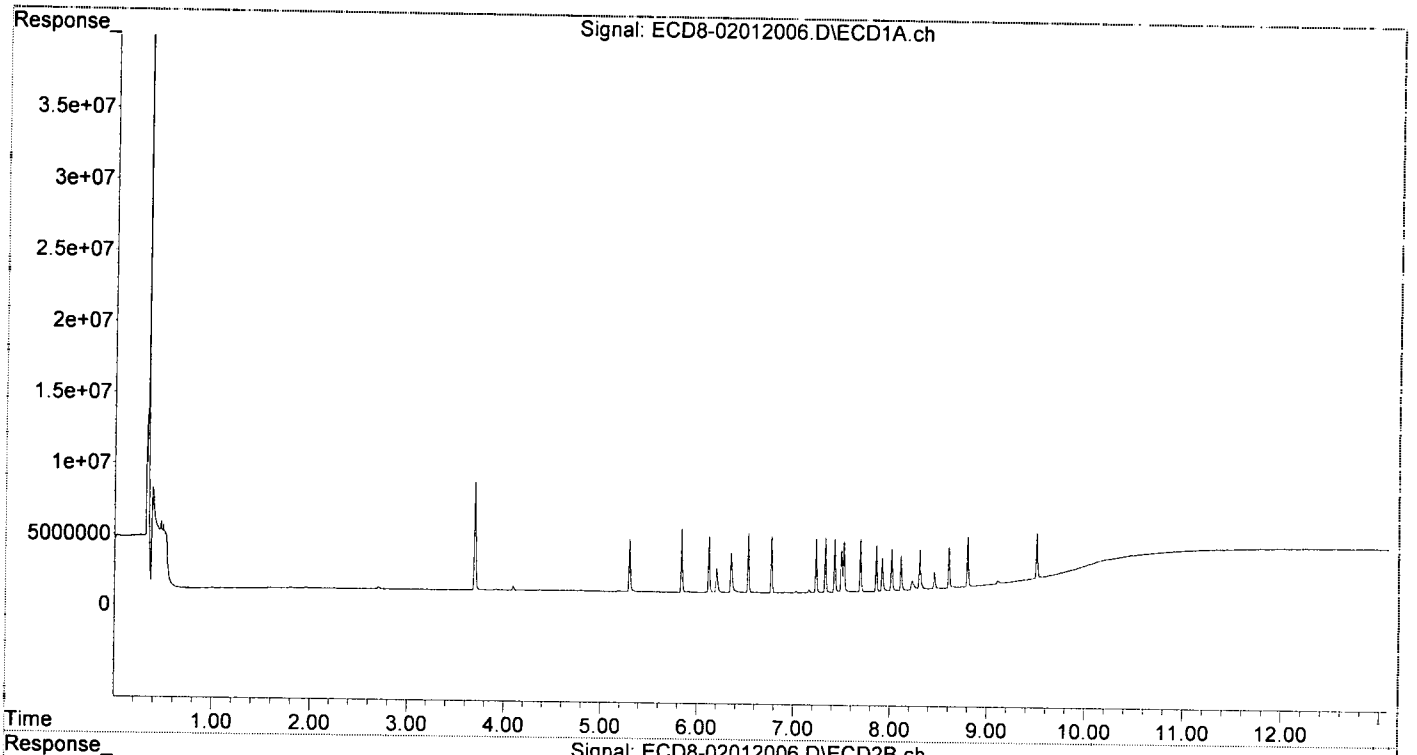
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.298	5.982	3713760	3325610	1.062	0.964	
22)	S DCBP (S)	9.507	10.537	3342363	2619998	0.974	0.789	
	Target Compounds							
2)	a-BHC	5.837	6.585	4491787	3754344	0.951	0.954	
3)	g-BHC	6.120	6.902	3995270	3614287	0.960	0.967	
4)	b-BHC	6.200	6.968	1736591	1672509	0.997	0.963	
5)	Heptachlor	6.529	7.275	4223019	4011938	1.028	0.953	
6)	d-BHC	6.351	7.224	2800163	2821743	0.916	0.902	
7)	Aldrin	6.769	7.542	4023063	3540234	0.996	0.957	
8)	Heptachlo...	7.230	7.979	3849968	3563306	1.043	0.993	
9)	trans-Chl...	7.327	8.119	3865919	3473086	1.028	0.934	
10)	cis-Chlor...	7.423	8.226	3812238	3361292	1.038	0.954	
11)	Endosulfa...	7.519	8.277	3593891	3092501	1.036	0.936	
12)	4,4'-DDE	7.493	8.333	2976091	2684993	0.896	0.950	
13)	Dieldrin	7.691	8.478	3771816	3204188	0.989	0.946	
14)	Endrin	7.854	8.705	3307872	2810308	1.014	0.970	
15)	4,4'-DDD	7.914	8.751	2373048	2115078	0.932	0.947	
16)	Endosulfa...	8.013	8.855	3004856	2617481	1.004	0.961	
17)	4,4'-DDT	8.109	8.975	2497592	2317293	0.929	0.918	
18)	Endrin Al...	8.303	9.091	2830842	2604623	1.075	0.985	
19)	Endosulfa...	8.604	9.281	2921925	2490983	1.021	0.907	
20)	Methoxychlor	8.454	9.454	1197106	1213779	0.992	0.771	
21)	Endrin Ke...	8.797	9.683	3540934	3121972	1.024	0.884	
23)	Hexachlor...	3.090	3.700f	34197	52265	0.009	0.011	
24)	Hexachlor...	5.679	6.468f	17136	67766	0.005	BelowCal	#
25)	Oxychlordane	7.158	7.906	229463	16925	BelowCal	0.005	
26)	2,4'-DDE	7.230	8.119	3849968	3473086	1.665	1.528	
27)	trans-Non...	7.423	8.157f	3812238	110192	1.040	0.031	#
28)	2,4'-DDD	7.611	8.478	37705	3204188	0.019	1.674	#
29)	2,4'-DDT	7.797	8.705	35190	2810308	0.015	1.268	#
30)	cis-Nonac...	7.914f	8.751	2373048	2115078	0.583	0.531	
31)	Mirex	8.548	9.683	21941	3121972	8199.120	1.256	#
32)	Chlordane...	7.327	8.119	3865919	3473086	9.653	7.994	
33)	Chlordane...	7.423	8.226	3812238	3361292	7.839	9.246	
34)	Chlordane...	7.972	8.905	48030	675601	0.369	5.689	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.423f	8.478f	3812238	3204188	232.888	108.731	#
37)	Toxaphene...	7.691	8.832f	3771816	172881	120.063	4.302	#
38)	Toxaphene...	8.013	8.832	3004856	172881	39.542	2.672	#
39)	Toxaphene...	8.223f	8.905	667811	675601	3.353	2.840	
40)	Toxaphene...	8.454	9.091	1197106	2604623	22.086	45.433	#
41)	Toxaphene...	8.548	9.454	21941	1213779	0.288	18.376	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

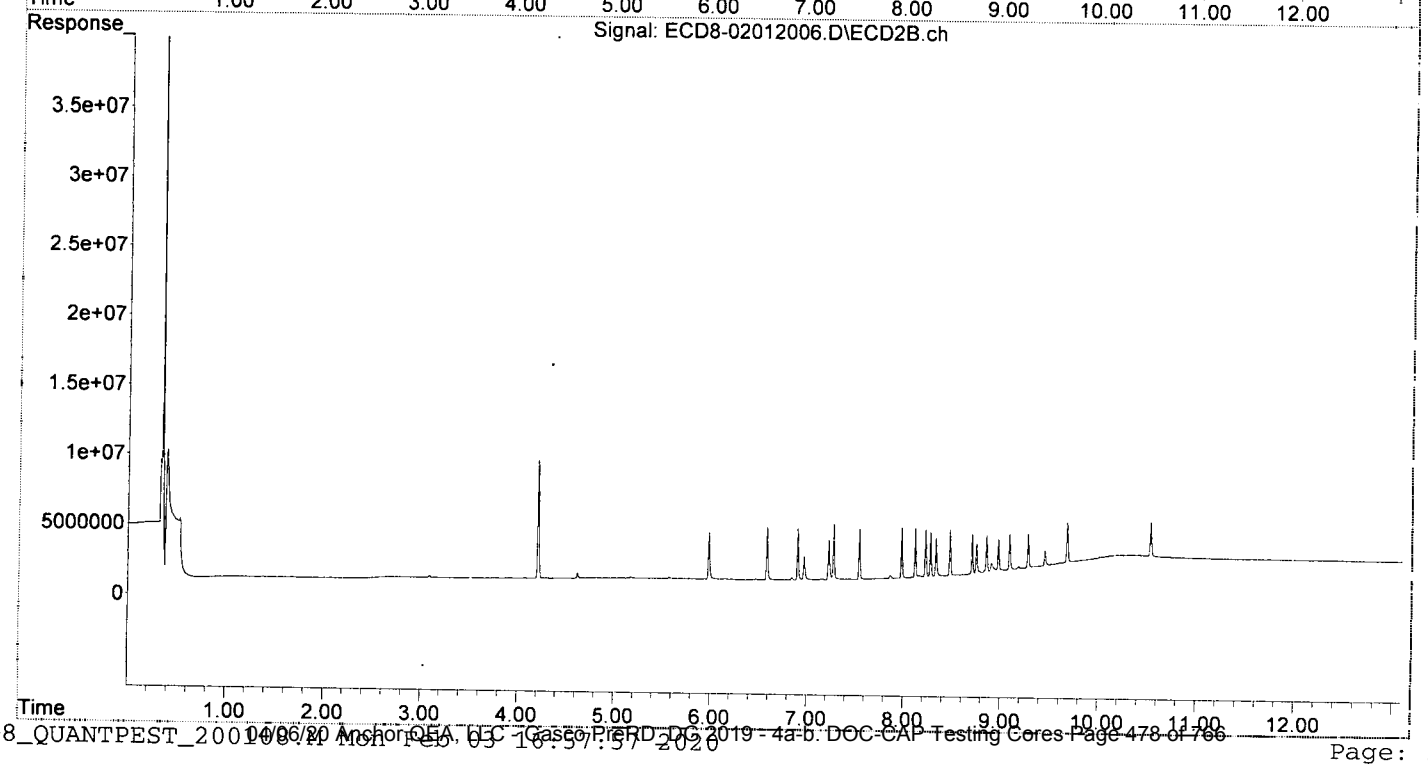
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012006.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 15:43
Operator : MJB
Sample : 0B01012-CAL2
Misc : A20B002, AB 1 ppb
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:46:01 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012007.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 16:00
Operator : MJB
Sample : 0B01012-CAL3
Misc : A19K128, AB 2 ppb
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:47:45 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/4/20

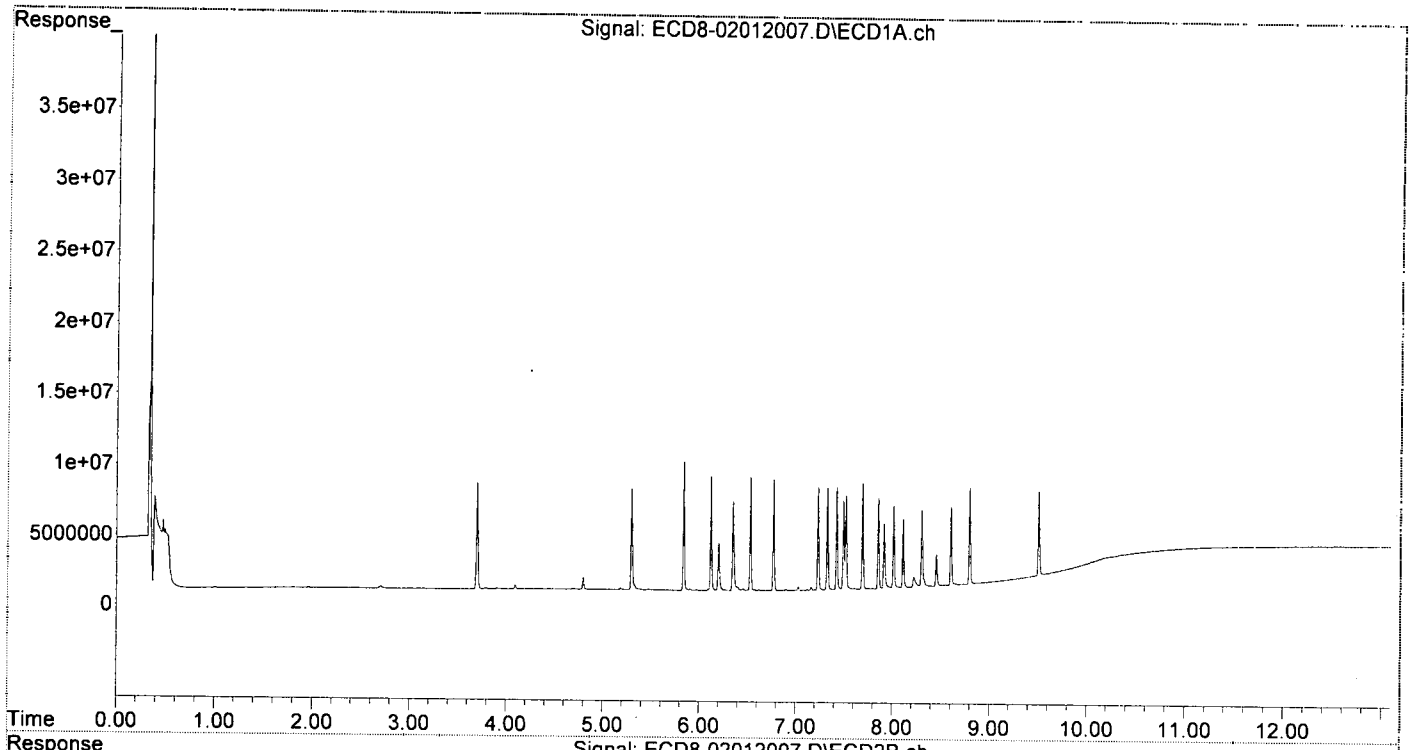
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.297	5.982	7209311	6464924	2.062	1.874	
22)	S DCBP (S)	9.506	10.536	6150705	5371510	2.072	2.149	
	Target Compounds							
2)	a-BHC	5.837	6.585	9150524	7591226	1.937	1.848	
3)	g-BHC	6.119	6.902	8103069	7144289	1.946	1.868	
4)	b-BHC	6.199	6.967	3435299	3394908	1.972	1.956	
5)	Heptachlor	6.529	7.275	8104217	7612959	1.972	1.808	
6)	d-BHC	6.348	7.222	6356662	6360084	1.943	1.907	
7)	Aldrin	6.768	7.541	7878680	7212786	1.950	1.935	
8)	Heptachlo...	7.230	7.979	7310938	6383239	1.980	1.778	
9)	trans-Chl...	7.326	8.118	7233767	6824804	1.924	1.835	
10)	cis-Chlor...	7.423	8.226	7290278	6414031	1.985	1.821	
11)	Endosulfa...	7.518	8.277	6684329	6087483	1.927	1.842	
12)	4,4'-DDE	7.492	8.332	6364080	5670683	1.916	1.904	
13)	Dieldrin	7.691	8.477	7527776	6556953	1.974	1.900	
14)	Endrin	7.854	8.705	6440400	5547721	1.973	1.919	
15)	4,4'-DDD	7.912	8.750	4683505	4350712	1.840	1.898	
16)	Endosulfa...	8.012	8.854	5851117	5197583	1.956	1.935	
17)	4,4'-DDT	8.109	8.975	4907038	4735251	1.825	1.899	
18)	Endrin Al...	8.302	9.091	5465292	5226313	2.076	1.977	
19)	Endosulfa...	8.604	9.281	5585397	5212773	1.951	1.991	
20)	Methoxychlor	8.453	9.455	2268598	2619150	1.880	2.091	
21)	Endrin Ke...	8.797	9.682	6824708	6091766	1.974	1.933	
23)	Hexachlor...	3.089	3.700f	46078	15667	0.012	0.003	#
24)	Hexachlor...	5.679	6.464	28017	76831	0.008	BelowCal	#
25)	Oxychlordane	7.157	7.909	222150	14464	BelowCal	0.005	
26)	2,4'-DDE	7.230	8.118	7310938	6824804	3.162	3.003	
27)	trans-Non...	7.423	8.173	7290278	115022	1.989	0.032	#
28)	2,4'-DDD	7.612	8.477	46139	6556953	0.024	3.425	#
29)	2,4'-DDT	7.796	8.705	45942	5547721	0.019	2.545	#
30)	cis-Nonac...	7.912f	8.750	4683505	4350712	1.151	1.092	
31)	Mirex	8.543	9.682	39979	6091766	8199.112	2.689	#
32)	Chlordane...	7.326	8.118	7233767	6824804	18.063	15.708	
33)	Chlordane...	7.423	8.226	7290278	6414031	14.990	17.643	
34)	Chlordane...	0.000	8.904	0	888424	N.D.	7.481	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.423f	8.477f	7290278	6556953	445.360	222.504	#
37)	Toxaphene...	7.691	0.000	7527776	0	239.620	N.D.	#
38)	Toxaphene...	8.012	8.854	5851117	5197583	80.025	80.338	
39)	Toxaphene...	8.221f	8.904	753222	888424	4.670	5.052	
40)	Toxaphene...	8.453	9.091	2268598	5226313	41.854	91.163	#
41)	Toxaphene...	8.543	9.455	39979	2619150	0.526	39.652	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

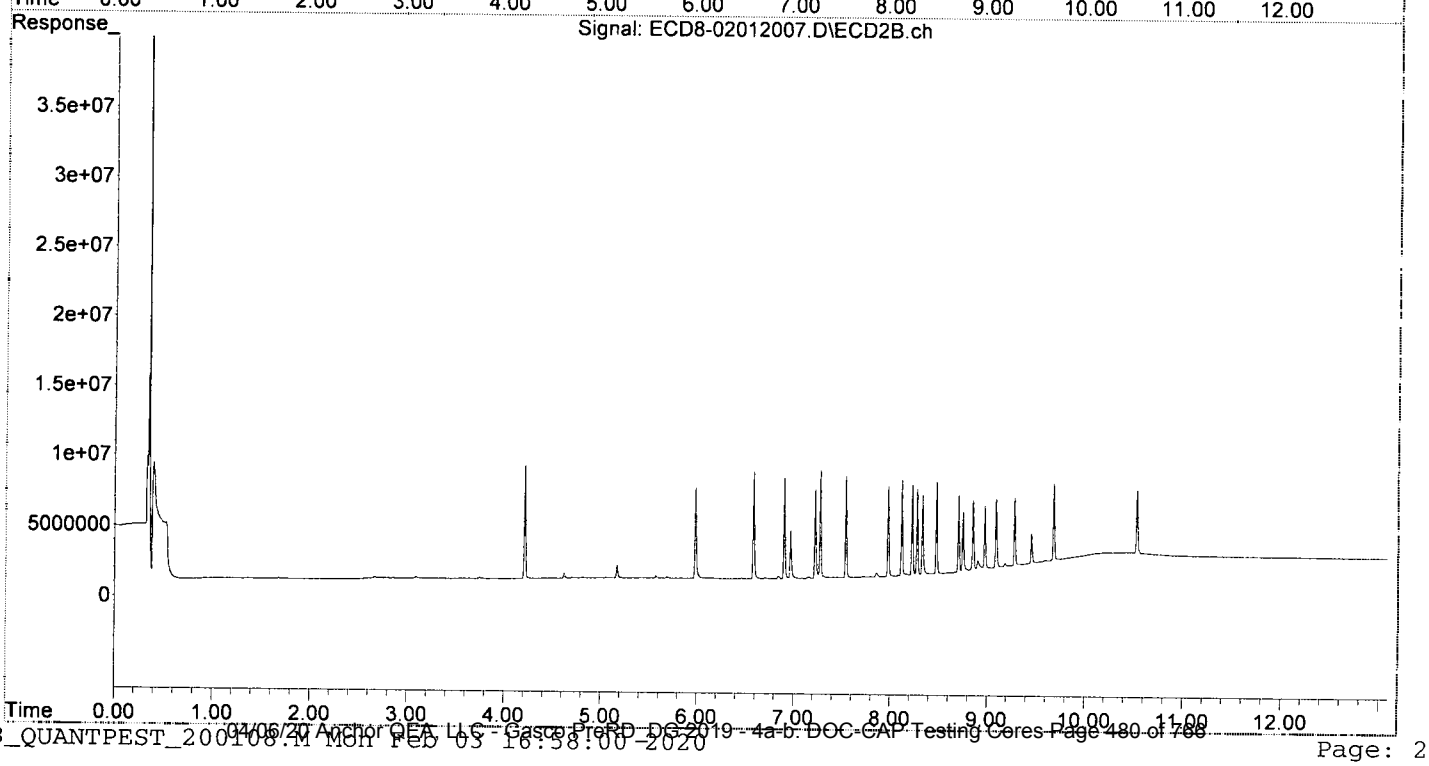
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012007.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 16:00
Operator : MJB
Sample : 0B01012-CAL3
Misc : A19K128, AB 2 ppb
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:47:45 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012008.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 16:16
Operator : MJB
Sample : 0B01012-CAL4
Misc : A19K130, AB 5 ppb
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:48:00 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/6/20

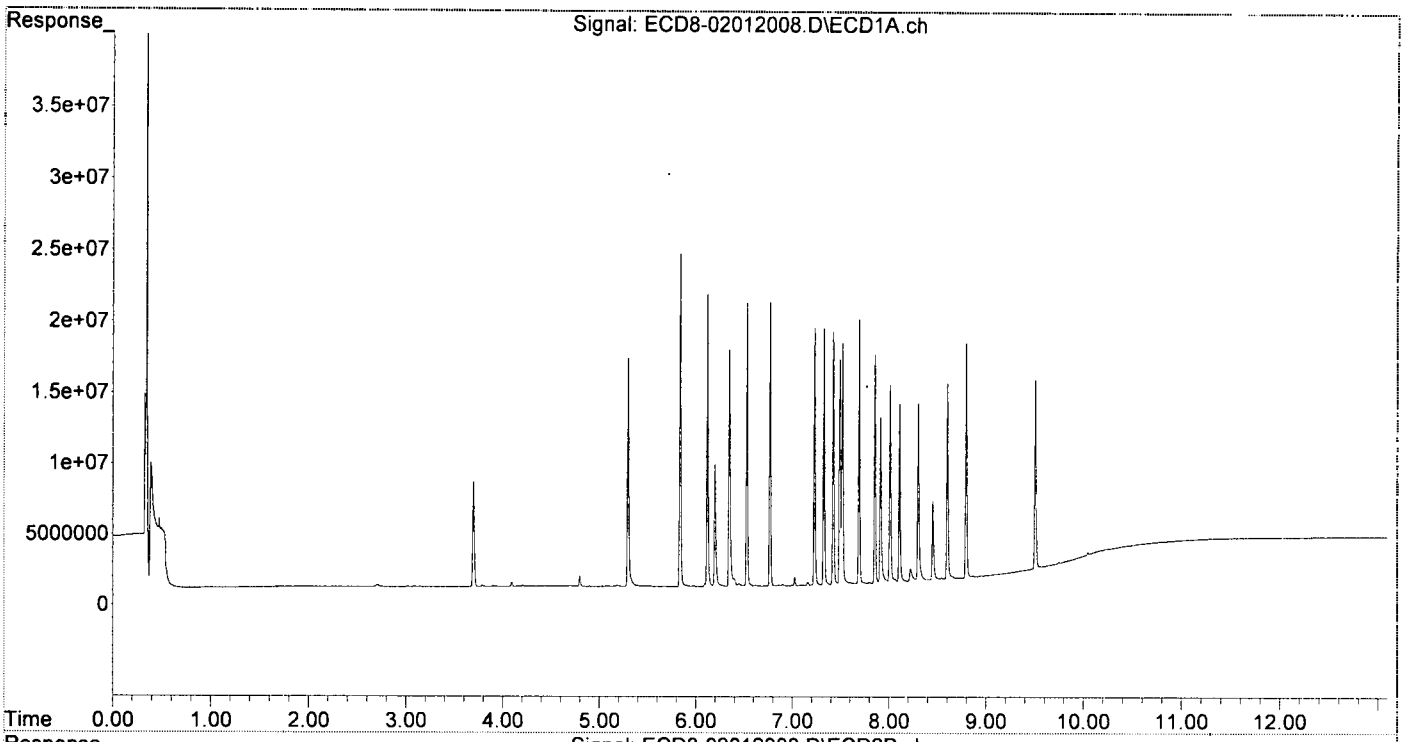
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.298	5.981	16081203	15031272	4.600	4.357	
22)	S DCBP (S)	9.507	10.536	13550213	11242637	4.961	5.037	
	Target Compounds							
2)	a-BHC	5.837	6.585	23466079	20250518	4.967	4.778	
3)	g-BHC	6.119	6.902	20617843	18903687	4.952	4.850	
4)	b-BHC	6.198	6.967	8638547	7798279	4.960	4.492	
5)	Heptachlor	6.529	7.275	20002736	19371564	4.867	4.600	
6)	d-BHC	6.347	7.222	16718254	16286148	4.918	4.704	
7)	Aldrin	6.769	7.542	20021477	18260292	4.955	4.858	
8)	Heptachlo...	7.230	7.979	18211245	16663788	4.932	4.642	
9)	trans-Chl...	7.327	8.118	18164041	17064405	4.830	4.589	
10)	cis-Chlor...	7.423	8.226	17894373	16061241	4.873	4.559	
11)	Endosulfa...	7.519	8.277	17033099	14978724	4.910	4.532	
12)	4,4'-DDE	7.491	8.333	15902445	14859572	4.789	4.819	
13)	Dieldrin	7.691	8.478	18752761	16896160	4.918	4.826	
14)	Endrin	7.854	8.706	16153756	13876087	4.950	4.788	
15)	4,4'-DDD	7.913	8.749	11737231	11254024	4.612	4.804	
16)	Endosulfa...	8.012	8.854	14001650	12686668	4.680	4.743	
17)	4,4'-DDT	8.109	8.975	12632646	11635054	4.699	4.669	
18)	Endrin Al...	8.303	9.090	12590069	11838674	4.782	4.478	
19)	Endosulfa...	8.603	9.281	13843885	12518228	4.837	4.879	
20)	Methoxychlor	8.453	9.454	5565381	5652133	4.612	4.909	
21)	Endrin Ke...	8.797	9.683	16623046	14402455	4.809	4.847	
23)	Hexachlor...	3.087	3.682	36876	15974	0.009	0.003	#
24)	Hexachlor...	5.682	6.466	37875	80608	0.011	BelowCal	#
25)	Oxychlordane	7.158	7.910	243167	27947	BelowCal	0.009	
26)	2,4'-DDE	7.230	8.118	18211245	17064405	7.877	7.507	
27)	trans-Non...	7.423	8.178	17894373	182055	4.881	0.050	#
28)	2,4'-DDD	7.611	8.478	87247	16896160	0.045	8.826	#
29)	2,4'-DDT	7.796	8.706	107331	13876087	0.045	6.393	#
30)	cis-Nonac...	7.913f	8.749	11737231	11254024	2.884	2.824	
31)	Mirex	8.545	9.683	90475	14402455	8199.092	6.686	#
32)	Chlordane...	7.327	8.118	18164041	17064405	45.356	39.276	
33)	Chlordane...	7.423	8.226	17894373	16061241	36.795	44.178	
34)	Chlordane...	0.000	8.904	0	956307	N.D.	8.053	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.394	8.478f	19911	16896160	1.216	573.354	#
37)	Toxaphene...	7.691	0.000	18752761	0	596.928	N.D.	#
38)	Toxaphene...	8.012	8.854	14001650	12686668	196.140	196.095	
39)	Toxaphene...	8.224f	8.904	868825	956307	6.452	5.758	
40)	Toxaphene...	8.453	9.090	5565381	11838674	102.678	206.504	#
41)	Toxaphene...	8.545	9.454	90475	5652133	1.190	85.569	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

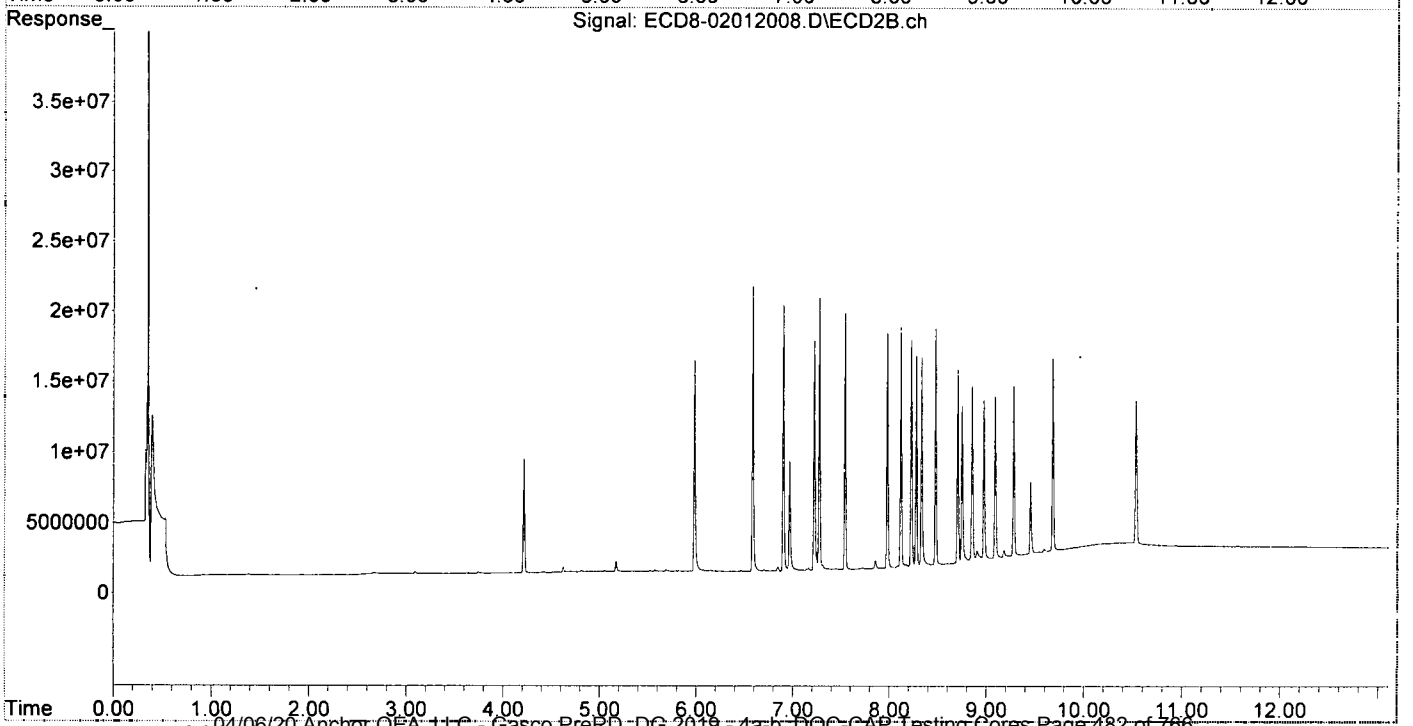
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012008.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 16:16
Operator : MJB
Sample : 0B01012-CAL4
Misc : A19K130, AB 5 ppb
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:48:00 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012009.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 16:33
Operator : MJB
Sample : 0B01012-CAL5
Misc : A19K131, AB 10 ppb
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:48:09 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

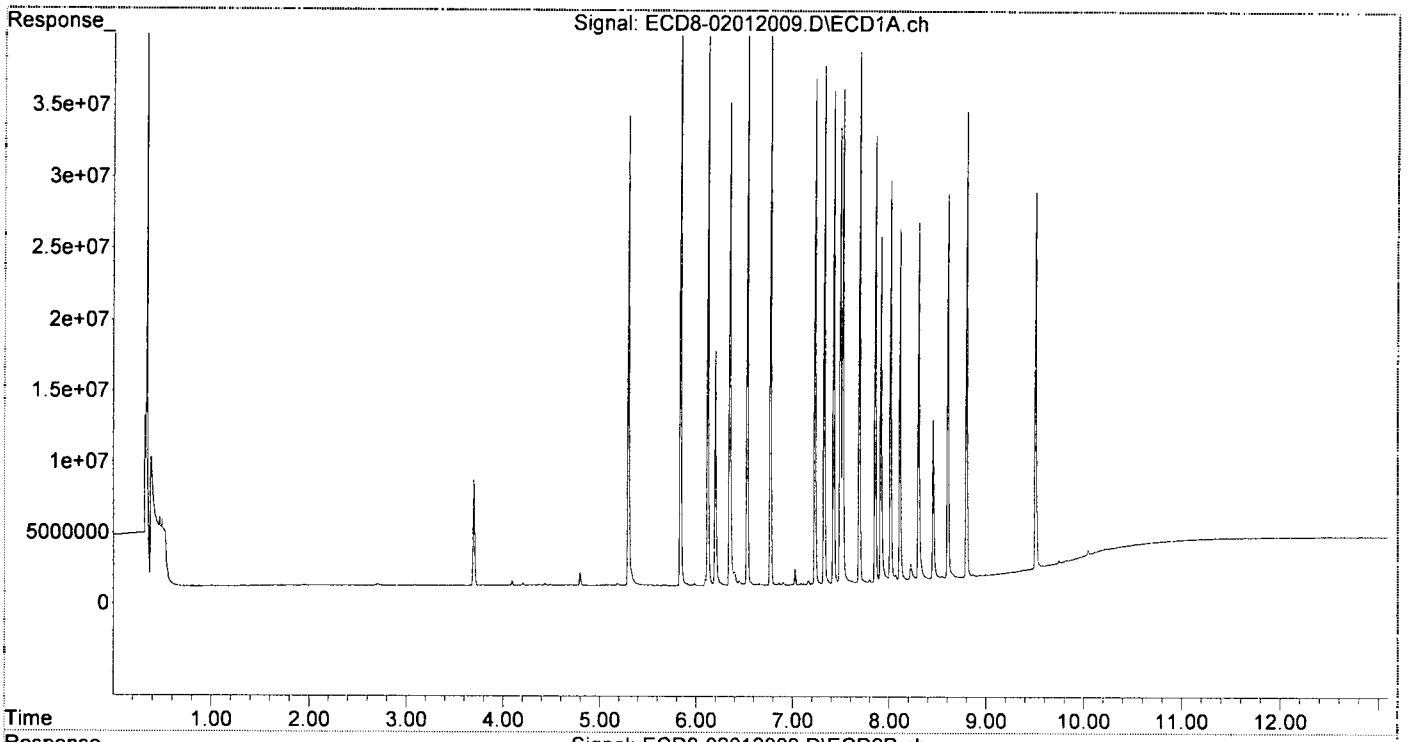
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.297	5.981	33031495	31880995	9.448	9.242	
22)	S DCBP (S)	9.507	10.537	26605868	21641632	10.038	10.109	
	Target Compounds							
2)	a-BHC	5.836	6.585	46556069	43486995	9.854	10.072	
3)	g-BHC	6.119	6.902	40429962	38516992	9.711	9.763	
4)	b-BHC	6.198	6.967	16571546	16056619	9.515	9.249	
5)	Heptachlor	6.529	7.275	39900092	38743493	9.708	9.201	
6)	d-BHC	6.346	7.221	33972136	34556711	9.824	9.770	
7)	Aldrin	6.769	7.542	39553332	36952424	9.789	9.749	
8)	Heptachlo...	7.229	7.979	35561831	33689906	9.630	9.385	
9)	trans-Chl...	7.325	8.119	36451101	34945337	9.693	9.398	
10)	cis-Chlor...	7.423	8.226	34569322	32046693	9.414	9.097	
11)	Endosulfa...	7.518	8.277	34748038	30647883	10.018	9.273	
12)	4,4'-DDE	7.491	8.332	32072763	30195241	9.658	9.610	
13)	Dieldrin	7.691	8.478	37298305	34982484	9.781	9.885	
14)	Endrin	7.854	8.706	31349018	29160503	9.606	9.986	
15)	4,4'-DDD	7.912	8.749	24259195	22757929	9.532	9.551	
16)	Endosulfa...	8.012	8.854	28189352	25937677	9.423	9.643	
17)	4,4'-DDT	8.108	8.975	24692282	25132611	9.185	9.980	
18)	Endrin Al...	8.302	9.090	25111118	23622312	9.538	8.935	
19)	Endosulfa...	8.604	9.282	27042784	25036220	9.448	9.760	
20)	Methoxychlor	8.453	9.455	11230884	10865325	9.308	9.661	
21)	Endrin Ke...	8.797	9.683	32676144	28830661	9.454	9.834	
23)	Hexachlor...	3.088	3.679	39867	14675	0.010	0.003	#
24)	Hexachlor...	5.679	6.464	69319	75162	0.021	BelowCal	#
25)	Oxychlordane	7.163	7.907	264637	34565	BelowCal	0.011	
26)	2,4'-DDE	7.229	8.119	35561831	34945337	15.381	15.374	
27)	trans-Non...	7.423	8.175	34569322	268385	9.429	0.074	#
28)	2,4'-DDD	7.607	8.478	166784	34982484	0.086	18.274	#
29)	2,4'-DDT	7.795	8.706	198510	29160503	0.083	13.315	#
30)	cis-Nonac...	7.912f	8.749	24259195	22757929	5.961	5.711	
31)	Mirex	8.548	9.683	148113	28830661	8199.068	13.586	#
32)	Chlordane...	7.325	8.119	36451101	34945337	91.019	80.431	
33)	Chlordane...	7.423	8.226	34569322	32046693	71.082	88.148	
34)	Chlordane...	0.000	8.904	0	1082594	N.D.	9.116	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.423f	8.478f	34569322	34982484	2111.825	1187.096	#
37)	Toxaphene...	7.691	0.000	37298305	0	1187.261	N.D.	#
38)	Toxaphene...	8.012	8.854	28189352	25937677	398.932	400.914	
39)	Toxaphene...	8.223f	8.904	1161363	1082594	10.961	7.070	#
40)	Toxaphene...	8.453	9.090	11230884	23622312	207.203	412.047	#
41)	Toxaphene...	8.548	9.455	148113	10865325	1.947	164.492	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

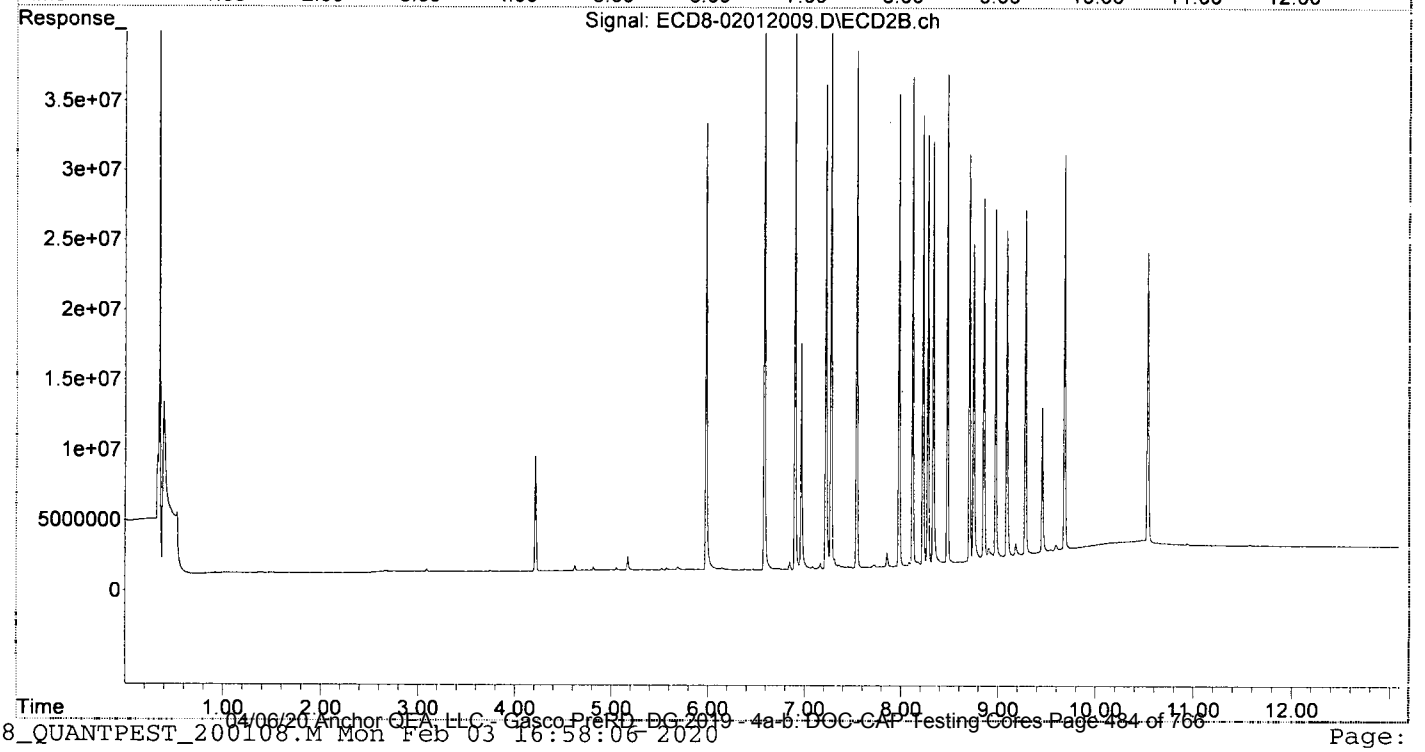
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012009.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 16:33
Operator : MJB
Sample : 0B01012-CAL5
Misc : A19K131, AB 10 ppb
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:48:09 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012010.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 16:50
Operator : MJB
Sample : 0B01012-CAL6
Misc : A19K132, AB 25 ppb
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:48:20 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

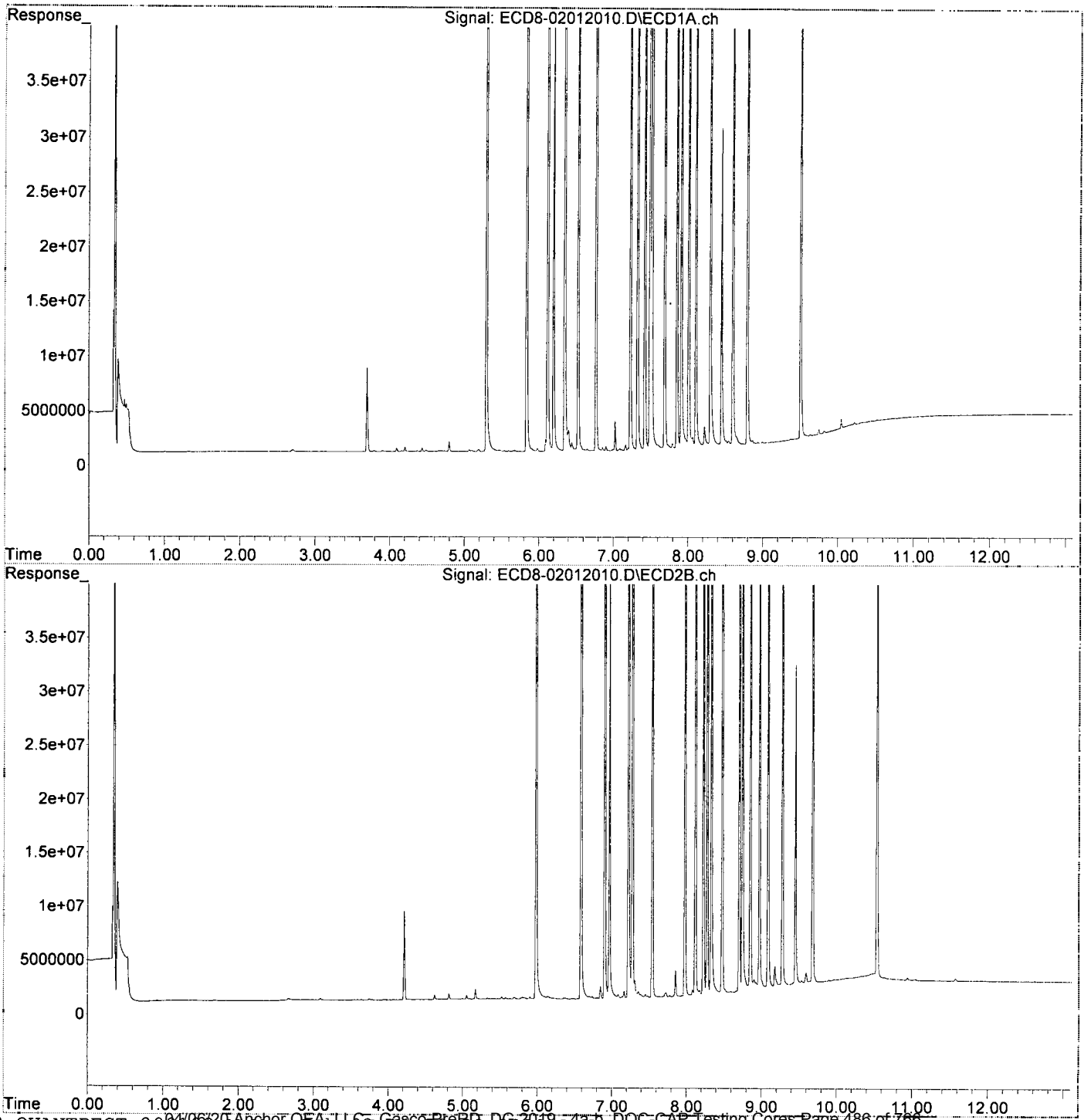
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.297	5.981	85829808	85149324	24.550	24.684	
22)	S DCBP (S)	9.507	10.537	66452642	54017910	25.390	25.564	
	Target Compounds							
2)	a-BHC	5.836	6.583	121.6E6	119.2E6	25.743	26.638	
3)	g-BHC	6.118	6.901	105.7E6	107.9E6	25.393	26.571	
4)	b-BHC	6.197	6.966	43268809	42826341	24.844	24.669	
5)	Heptachlor	6.529	7.274	103.8E6	104.5E6	25.247	24.811	
6)	d-BHC	6.345	7.220	93700875	100.9E6	26.377	27.360	
7)	Aldrin	6.768	7.541	101.9E6	103.3E6	25.224	26.577	
8)	Heptachlo...	7.229	7.978	90603826	90693091	24.535	25.265	
9)	trans-Chl...	7.325	8.118	92344635	94107374	24.556	25.309	
10)	cis-Chlor...	7.422	8.225	91013817	90991019	24.784	25.830	
11)	Endosulfa...	7.518	8.277	85444422	85653357	24.633	25.916	
12)	4,4'-DDE	7.490	8.331	82679641	86764148	24.898	26.554	
13)	Dieldrin	7.690	8.477	95868803	95883928	25.140	26.411	
14)	Endrin	7.854	8.706	82858624	79399830	25.388	26.501	
15)	4,4'-DDD	7.911	8.749	63377806	65177226	24.903	26.133	
16)	Endosulfa...	8.011	8.853	73342261	73030196	24.516	26.411	
17)	4,4'-DDT	8.108	8.975	68097447	70533268	25.332	26.908	
18)	Endrin Al...	8.302	9.089	61776811	60959956	23.466	23.058	
19)	Endosulfa...	8.603	9.281	70013419	70158024	24.462	26.695	
20)	Methoxychlor	8.452	9.454	28980569	30163827	24.018	26.360	
21)	Endrin Ke...	8.797	9.683	85585307	79449385	24.761	26.668	
23)	Hexachlor...	3.076	3.678	12851	13752	0.003	0.003	
24)	Hexachlor...	5.680	6.465	126605	71517	0.038	BelowCal	#
25)	Oxychlordane	7.165	7.903	529717	44577	BelowCal	0.014	
26)	2,4'-DDE	7.229	8.118	90603826	94107374	39.187	41.402	
27)	trans-Non...	7.422	8.176	91013817	455515	24.825	0.126	#
28)	2,4'-DDD	7.607	8.477	330367	95883928	0.171	50.089	#
29)	2,4'-DDT	7.795	8.706	433808	79399830	0.181	34.931	#
30)	cis-Nonac...	7.911f	8.749	63377806	65177226	15.574	16.355	
31)	Mirex	8.546	9.683	370318	79449385	8198.976	37.402	#
32)	Chlordane...	7.325	8.118	92344635	94107374	230.585	216.600	
33)	Chlordane...	7.422	8.225	91013817	90991019	187.145	250.281	#
34)	Chlordane...	7.972	8.903	775608	1271614	5.957	10.708	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.422f	8.477f	91013817	95883928	5559.995	3253.726	#
37)	Toxaphene...	7.690	0.000	95868803	0	3051.647	N.D.	#
38)	Toxaphene...	8.011	8.853	73342261	73030196	1050.109	1128.814	
39)	Toxaphene...	8.223f	8.903	1815696	1271614	21.046	9.033	#
40)	Toxaphene...	8.452	9.089	28980569	60959956	534.674	1063.332	#
41)	Toxaphene...	8.546	9.454	370318	30163827	4.869	456.655	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012010.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 16:50
Operator : MJB
Sample : 0B01012-CAL6
Misc : A19K132, AB 25 ppb
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:48:20 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012011.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 17:07
Operator : MJB
Sample : 0B01012-CAL7
Misc : A19K133, AB 50 ppb
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:48:30 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

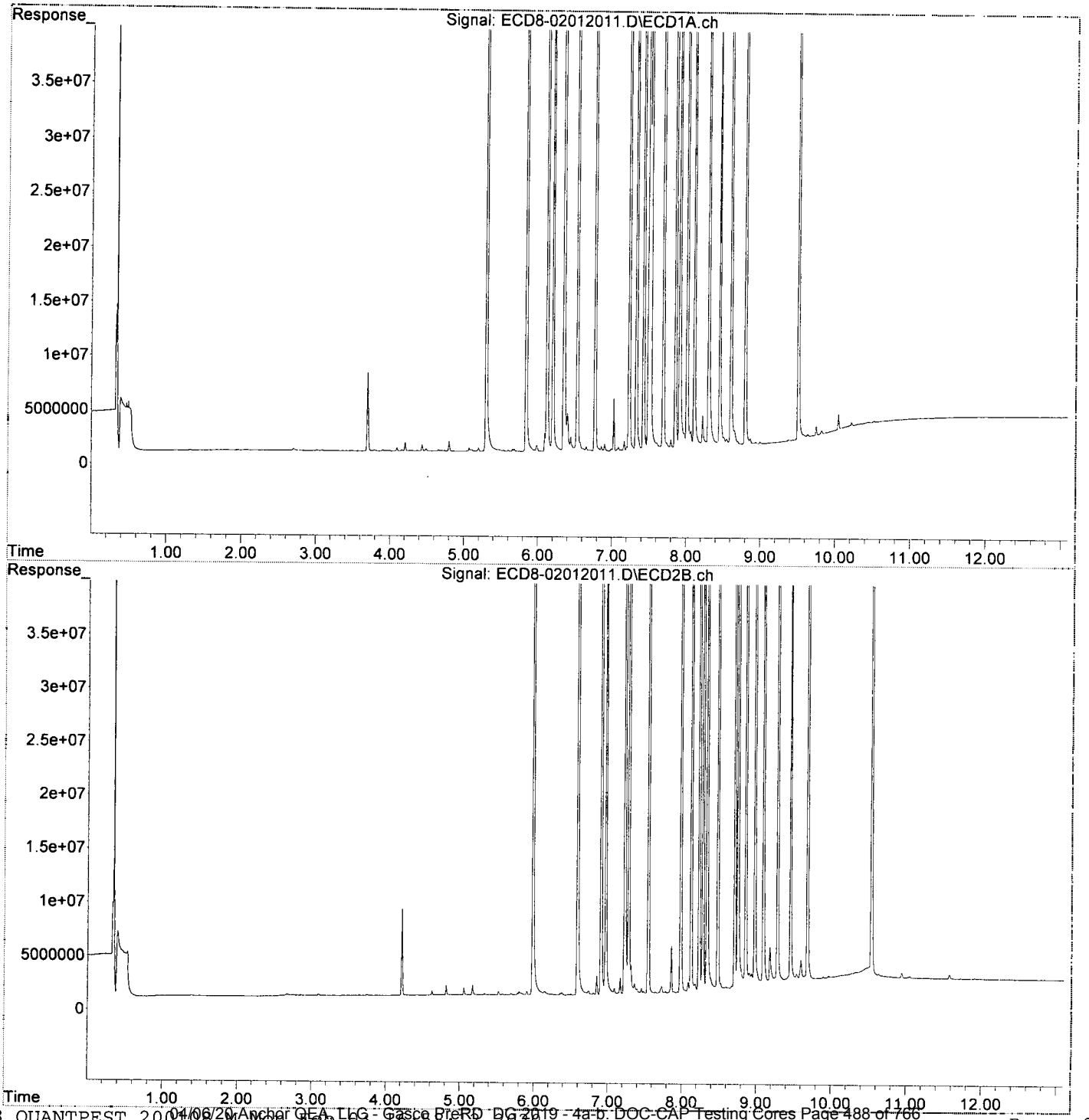
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.297	5.981	160.2E6	168.3E6	45.821	48.785	
22)	S DCBP (S)	9.507	10.537	123.4E6	103.8E6	46.953	48.422	
	Target Compounds							
2)	a-BHC	5.837	6.585	224.9E6	233.3E6	47.596	49.927	
3)	g-BHC	6.119	6.902	203.3E6	211.8E6	48.823	50.337	
4)	b-BHC	6.197	6.966	81866401	85296235	47.005	49.132	
5)	Heptachlor	6.529	7.276	192.3E6	210.9E6	46.784	50.081	
6)	d-BHC	6.346	7.221	182.4E6	192.9E6	49.846	49.955	
7)	Aldrin	6.769	7.542	195.5E6	195.8E6	48.375	48.819	
8)	Heptachlo...	7.230	7.979	168.2E6	178.9E6	45.535	49.840	
9)	trans-Chl...	7.326	8.119	181.3E6	181.2E6	48.222	48.738	
10)	cis-Chlor...	7.423	8.226	167.4E6	173.0E6	45.590	49.120	
11)	Endosulfa...	7.518	8.277	163.9E6	167.4E6	47.263	50.662	
12)	4,4'-DDE	7.490	8.332	168.0E6	175.2E6	50.591	51.112	
13)	Dieldrin	7.691	8.478	179.5E6	192.1E6	47.067	51.122	
14)	Endrin	7.854	8.706	155.0E6	154.0E6	47.508	49.608	
15)	4,4'-DDD	7.910	8.748	125.3E6	136.5E6	49.237	51.398	
16)	Endosulfa...	8.011	8.854	141.9E6	146.2E6	47.418	50.735	
17)	4,4'-DDT	8.109	8.975	134.8E6	138.4E6	50.144	50.032	
18)	Endrin Al...	8.302	9.090	118.6E6	123.5E6	45.036	46.706	
19)	Endosulfa...	8.603	9.281	133.9E6	135.1E6	46.769	49.502	
20)	Methoxychlor	8.452	9.453	56743855	60278479	47.026	50.142	
21)	Endrin Ke...	8.797	9.682	159.8E6	156.7E6	46.229	50.674	
23)	Hexachlor...	3.088	3.679	34907	16213	0.009	0.003	#
24)	Hexachlor...	5.680	6.465	244410	68152	0.073	BelowCal	#
25)	Oxychlordane	7.167	7.887	881658	95004	0.107	0.030	#
26)	2,4'-DDE	7.230	8.119	168.2E6	181.2E6	72.728	79.730	
27)	trans-Non...	7.423	8.176	167.4E6	698128	45.666	0.193	#
28)	2,4'-DDD	7.607	8.478	575225	192.1E6	0.297	100.369	#
29)	2,4'-DDT	7.795	8.706	805485	154.0E6	0.337	64.391	#
30)	cis-Nonac...	7.910f	8.748	125.3E6	136.5E6	30.792	34.245	
31)	Mirex	8.544	9.682	582639	156.7E6	0.034	72.674	#
32)	Chlordane...	7.326	8.119	181.3E6	181.2E6	452.809	417.118	
33)	Chlordane...	7.423	8.226	167.4E6	173.0E6	344.253	475.953	#
34)	Chlordane...	7.973	8.904	1354346	1354651	10.402	11.407	
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.423f	8.478f	167.4E6	192.1E6	10227.614	6519.912	#
37)	Toxaphene...	7.691	0.000	179.5E6	0	5713.243	N.D.	#
38)	Toxaphene...	8.011	8.854	141.9E6	146.2E6	2055.651	2259.027	
39)	Toxaphene...	8.222f	8.904	2868899	1354651	37.273	9.896	#
40)	Toxaphene...	8.452	9.090	56743855	123.5E6	1046.889	2153.826	#
41)	Toxaphene...	8.544	9.453	582639	60278479	7.661	912.566	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012011.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 17:07
Operator : MJB
Sample : 0B01012-CAL7
Misc : A19K133, AB 50 ppb
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:48:30 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012012.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 17:24
Operator : MJB
Sample : 0B01012-CAL8
Misc : A19K134, AB 100 ppb
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:48:39 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

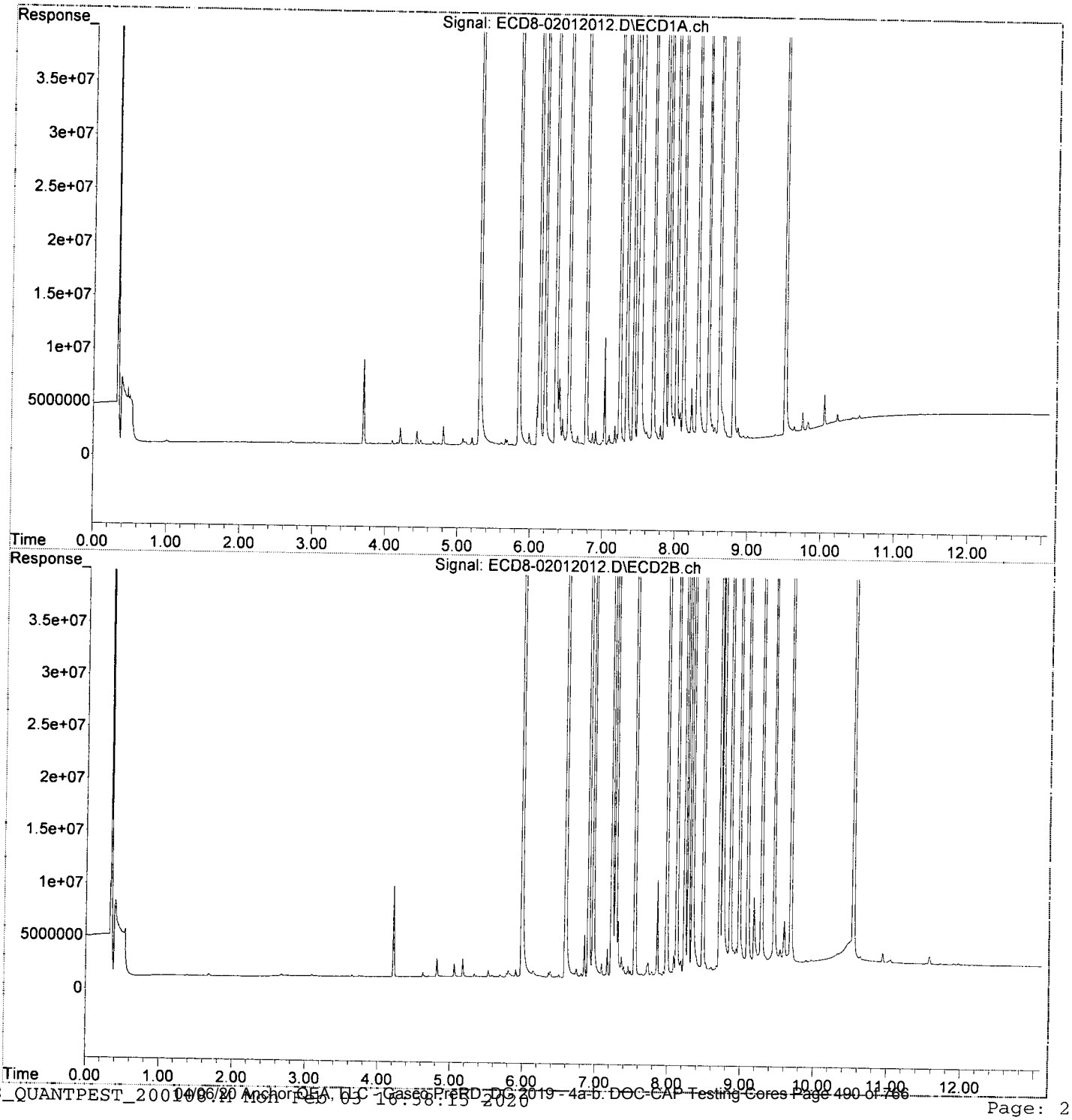
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.298	5.982	355.4E6	386.4E6	101.662	112.028	
22)	S	DCBP (S)	9.507	10.537	280.1E6	240.0E6	104.273	106.329	
		Target Compounds							
2)		a-BHC	5.837	6.585	509.4E6	553.7E6	107.818	107.465	
3)		g-BHC	6.120	6.902	435.9E6	491.3E6	104.706	107.679	
4)		b-BHC	6.197	6.966	185.8E6	196.8E6	106.682	113.366	
5)		Heptachlor	6.529	7.276	416.3E6	477.0E6	101.286	113.274	
6)		d-BHC	6.345	7.221	419.9E6	472.2E6	107.406	109.655	
7)		Aldrin	6.769	7.542	420.9E6	472.0E6	104.171	108.641	
8)		Heptachlo...	7.229	7.979	380.6E6	404.3E6	103.077	112.616	
9)		trans-Chl...	7.325	8.119	392.8E6	432.7E6	104.440	116.358	
10)		cis-Chlor...	7.422	8.226	377.5E6	395.1E6	102.792	112.151	
11)		Endosulfa...	7.517	8.277	349.5E6	392.5E6	100.755	118.767	
12)		4,4'-DDE	7.489	8.331	378.7E6	405.9E6	114.052	107.249	
13)		Dieldrin	7.690	8.478	402.8E6	425.1E6	105.631	105.342	
14)		Endrin	7.854	8.706	338.4E6	354.5E6	103.699	105.353	
15)		4,4'-DDD	7.909	8.747	297.7E6	330.1E6	116.957	109.252	
16)		Endosulfa...	8.010	8.853	331.9E6	341.9E6	110.942	108.308	
17)		4,4'-DDT	8.108	8.975	298.8E6	340.3E6	111.153	108.537	
18)		Endrin Al...	8.301	9.090	258.6E6	290.0E6	98.229	109.684	
19)		Endosulfa...	8.603	9.281	304.5E6	315.4E6	106.371	105.752	
20)		Methoxychlor	8.450	9.453	133.1E6	149.0E6	110.323	109.548	
21)		Endrin Ke...	8.797	9.683	366.8E6	363.7E6	106.117	107.516	
23)		Hexachlor...	3.086	3.680	47052	14977	0.012	0.003	#
24)		Hexachlor...	5.679	6.439	515767	48762	0.153	BelowCal	#
25)		Oxychlordane	7.166	7.903	1730960	151616	0.384	0.047	#
26)		2,4'-DDE	7.229	8.119	380.6E6	432.7E6	164.632	190.349	
27)		trans-Non...	7.422	8.176	377.5E6	1355571	102.963	0.376	#
28)		2,4'-DDD	7.607	8.478	1050133	425.1E6	0.542	222.092	#
29)		2,4'-DDT	7.793	8.706	1558722	354.5E6	0.651	132.841	#
30)		cis-Nonac...	7.909f	8.747	297.7E6	330.1E6	73.144	82.821	
31)		Mirex	8.543	9.683	1156298	363.7E6	0.271	161.513	#
32)		Chlordane...	7.325	8.119	392.8E6	432.7E6	980.700	995.831	
33)		Chlordane...	7.422	8.226	377.5E6	395.1E6	776.186	1086.691	#
34)		Chlordane...	7.972	8.900	2415995	2205038	18.556	18.568	
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.422f	8.478f	377.5E6	425.1E6	23060.121	14426.951	#
37)		Toxaphene...	7.690	0.000	402.8E6	0	12822.085	N.D.	#
38)		Toxaphene...	8.010	8.853	331.9E6	341.9E6	4966.478	5284.613	
39)		Toxaphene...	8.221f	8.900	4920371	2205038	68.867	18.721	#
40)		Toxaphene...	8.450f	9.090	133.1E6	290.0E6	2455.995	5058.068	#
41)		Toxaphene...	8.543	9.453	1156298	149.0E6	15.204	2255.841	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012012.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 17:24
Operator : MJB
Sample : 0B01012-CAL8
Misc : A19K134, AB 100 ppb
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:48:39 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012013.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 17:41
Operator : MJB
Sample : 0B01012-CAL9
Misc : A19K126, AB 200 ppb
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:48:52 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

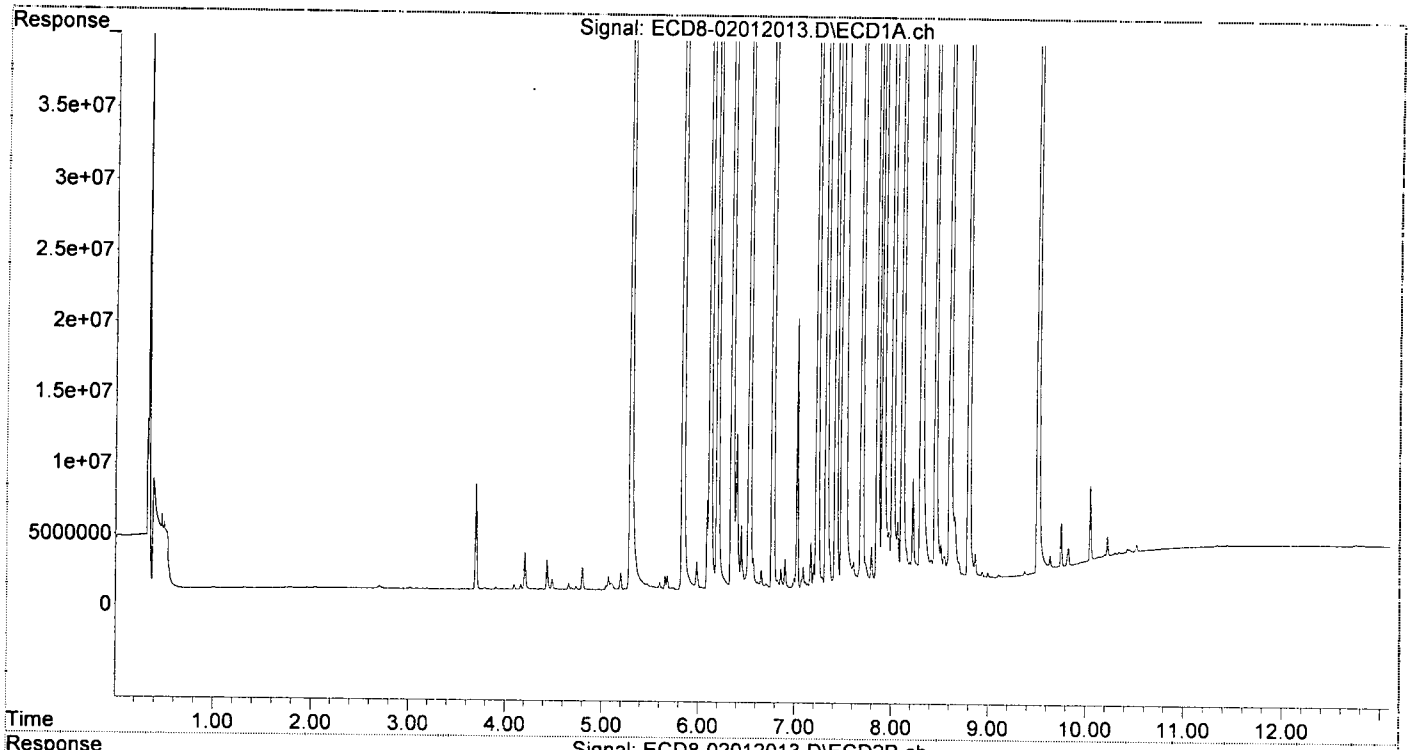
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.297	5.981	683.0E6	808.5E6	195.366	234.378	
22)	S DCBP (S)	9.507	10.537	554.4E6	477.6E6	198.363	195.289	
	Target Compounds							
2)	a-BHC	5.837	6.585	1000.4E6	1133.4E6	211.739	193.275	
3)	g-BHC	6.119	6.902	881.5E6	980.3E6	211.716	192.751	
4)	b-BHC	6.196	6.965	344.6E6	391.9E6	197.840	225.731	
5)	Heptachlor	6.529	7.275	827.5E6	966.0E6	201.350	229.415	
6)	d-BHC	6.344	7.220	826.3E6	939.7E6	193.127	191.350	
7)	Aldrin	6.768	7.542	802.5E6	928.8E6	198.603	192.949	
8)	Heptachlo...	7.229	7.979	732.6E6	788.7E6	198.384	219.719	
9)	trans-Chl...	7.325	8.119	764.5E6	821.8E6	203.287	221.020	
10)	cis-Chlor...	7.422	8.226	729.7E6	792.8E6	198.698	225.050	
11)	Endosulfa...	7.517	8.277	669.0E6	733.7E6	192.854	222.006	
12)	4,4'-DDE	7.488	8.331	725.7E6	835.1E6	218.544	192.970	
13)	Dieldrin	7.690	8.478	786.9E6	871.2E6	206.356	194.082	
14)	Endrin	7.854	8.705	655.2E6	738.6E6	200.748	195.142	
15)	4,4'-DDD	7.909	8.749	592.3E6	679.7E6	232.738	191.866	
16)	Endosulfa...	8.011	8.853	596.6E6	684.8E6	199.444	192.330	
17)	4,4'-DDT	8.108	8.975	627.2E6	706.5E6	233.304	192.640	
18)	Endrin Al...	8.301	9.090	520.7E6	585.1E6	197.778	221.305	
19)	Endosulfa...	8.603	9.281	590.5E6	660.6E6	206.312	194.929	
20)	Methoxychlor	8.450	9.453	273.2E6	304.3E6	226.447	192.101	
21)	Endrin Ke...	8.797	9.683	708.8E6	737.0E6	205.066	192.732	
23)	Hexachlor...	3.085	3.679	47773	26074	0.012	0.005	#
24)	Hexachlor...	5.679	6.457	964328	108256	0.287	BelowCal	#
25)	Oxychlordane	7.165	7.903	3131171	344130	0.840	0.108	#
26)	2,4'-DDE	7.229	8.119	732.6E6	821.8E6	316.854	361.565	
27)	trans-Non...	7.422	8.177	729.7E6	2322130	199.027	0.643	#
28)	2,4'-DDD	7.607	8.478	1629132	871.2E6	0.841	455.089	#
29)	2,4'-DDT	7.792	8.705	2633301	738.6E6	1.100	238.485	#
30)	cis-Nonac...	7.909f	8.749	592.3E6	679.7E6	145.551	170.546	
31)	Mirex	8.547	9.683	1677558	737.0E6	0.486	305.698	#
32)	Chlordane...	7.325	8.119	764.5E6	821.8E6	1908.890	1891.572	
33)	Chlordane...	7.422	8.226	729.7E6	792.8E6	1500.369	2180.621	#
34)	Chlordane...	7.971	8.900	3592037	3270989	27.589	27.544	
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.422f	8.478f	729.7E6	871.2E6	44575.283	29562.245	#
37)	Toxaphene...	7.690	0.000	786.9E6	0	25048.714	N.D.	#
38)	Toxaphene...	8.011	8.853	596.6E6	684.8E6	9382.458	10584.537	
39)	Toxaphene...	8.263	8.900	1249823	3270989	12.325	29.766	#
40)	Toxaphene...	8.450f	9.090	273.2E6	585.1E6	5041.110	10205.432	#
41)	Toxaphene...	8.547	9.453	1677558	304.3E6	22.057	4607.332	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

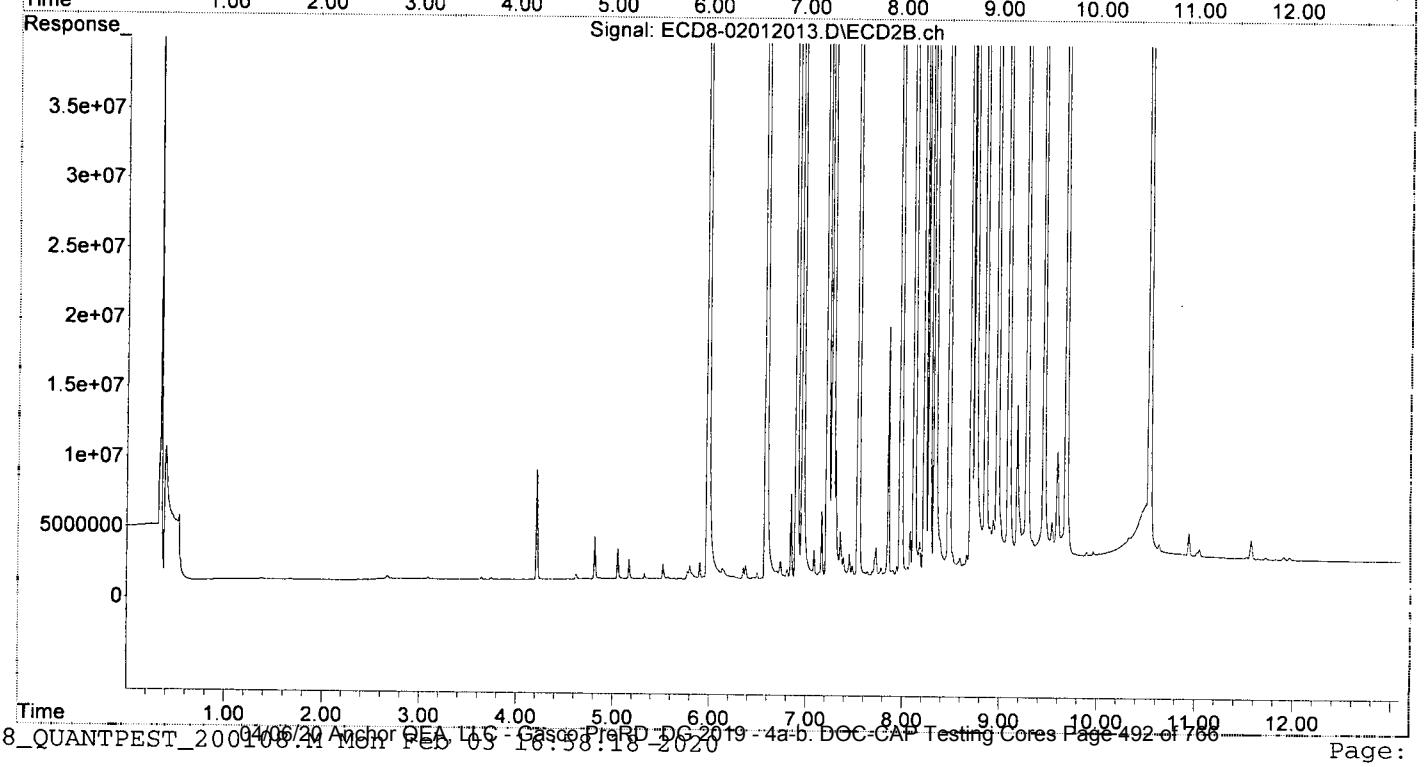
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012013.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 17:41
Operator : MJB
Sample : 0B01012-CAL9
Misc : A19K126, AB 200 ppb
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:48:52 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012016.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 18:31
Operator : MJB
Sample : 0B01012-CALA
Misc : A20B003, 9-42 0.5 ppb
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:49:29 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

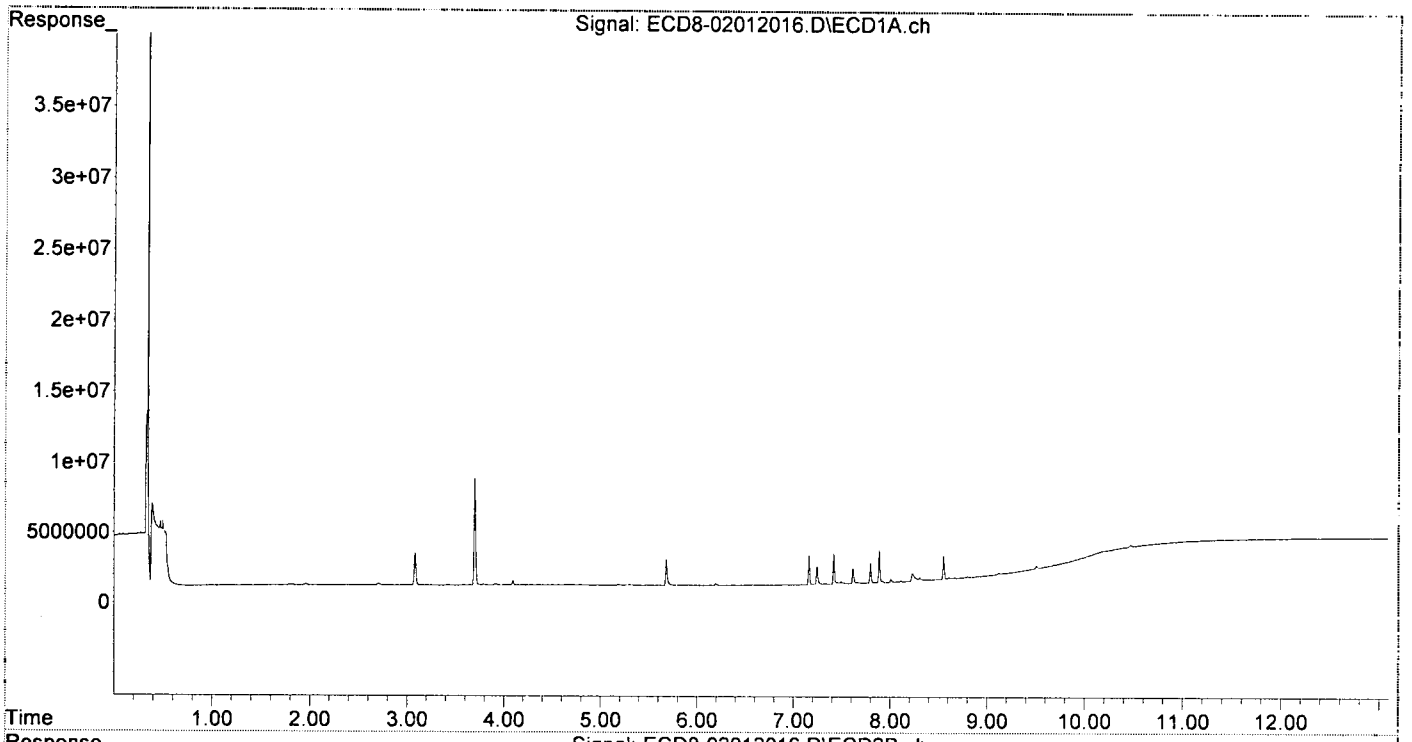
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.299	5.985	68485	103337	0.020	0.030	#
22)	S DCBP (S)	9.508	10.537	377603	163698	BelowCal	BelowCal	
	Target Compounds							
2)	a-BHC	5.846	6.582	35427	35202	0.007	0.084	#
3)	g-BHC	6.146f	6.904	28094	12379	0.007	0.045	#
4)	b-BHC	6.193	6.975	143092	58075	0.082	0.033	#
5)	Heptachlor	6.531	7.280	17250	20742	0.004	0.005	
6)	d-BHC	6.357	7.227	20258	37306	0.112	0.108	
7)	Aldrin	6.775	7.548	10239	18189	0.003	0.017	#
8)	Heptachlo...	7.243	7.979	1290069	40076	0.349	0.011	#
9)	trans-Chl...	7.327	8.113	59794	1200073	0.016	0.323	#
10)	cis-Chlor...	7.417	8.227	2168811	70400	0.591	0.020	#
11)	Endosulfa...	7.495f	8.280	168196	39614	0.048	0.012	#
12)	4,4'-DDE	7.495	8.335	168196	125822	0.051	0.129	#
13)	Dieldrin	7.694	8.487	42766	960869	0.011	0.307	#
14)	Endrin	7.854	8.710	28556	1210132	0.009	0.414	#
15)	4,4'-DDD	7.917	8.749	109926	2084280	0.043	0.934	#
16)	Endosulfa...	8.008	8.854	228510	57189	0.076	BelowCal	#
17)	4,4'-DDT	8.112	8.975	68721	149567	0.026	0.035	#
18)	Endrin Al...	8.305	9.092	231531	174162	0.088	0.066	#
19)	Endosulfa...	8.607	9.283	82250	99005	0.029	BelowCal	#
20)	Methoxychlor	8.460	9.444	20527	73043	0.017	BelowCal	#
21)	Endrin Ke...	8.799	9.675	76798	1475836	0.022	0.300	#
23)	Hexachlor...	3.080	3.680	2278541	2594123	0.585	0.536	
24)	Hexachlor...	5.681	6.450	1894604	1616133	0.564	0.508	
25)	Oxychlordane	7.160	7.908	2078442	1817597	0.497	0.568	
26)	2,4'-DDE	7.243	8.113	1290069	1200073	0.558	0.528	
27)	trans-Non...	7.417	8.182	2168811	2004659	0.592	0.555	
28)	2,4'-DDD	7.615	8.487	1111537	960869	0.574	0.502	
29)	2,4'-DDT	7.797	8.710	1418724	1210132	0.593	0.519	
30)	cis-Nonac...	7.887	8.749	2296885	2084280	0.564	0.523	
31)	Mirex	8.552	9.675	1693083	1475836	0.493	0.461	
32)	Chlordane...	7.327	8.113	59794	1200073	0.149	2.762	#
33)	Chlordane...	7.417	8.227	2168811	70400	4.460	0.194	#
34)	Chlordane...	7.982	8.876	14747	7431	0.113	0.063	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.417	8.487f	2168811	960869	132.492	32.606	#
37)	Toxaphene...	7.694	8.804	42766	22811	1.361	0.568	#
38)	Toxaphene...	8.008	8.834	228510	136988	0.086	2.117	#
39)	Toxaphene...	8.229	8.911	543902	552632	1.443	1.562	
40)	Toxaphene...	8.460	9.092	20527	174162	0.379	3.038	#
41)	Toxaphene...	8.552	9.478	1693083	93249	22.262	1.412	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

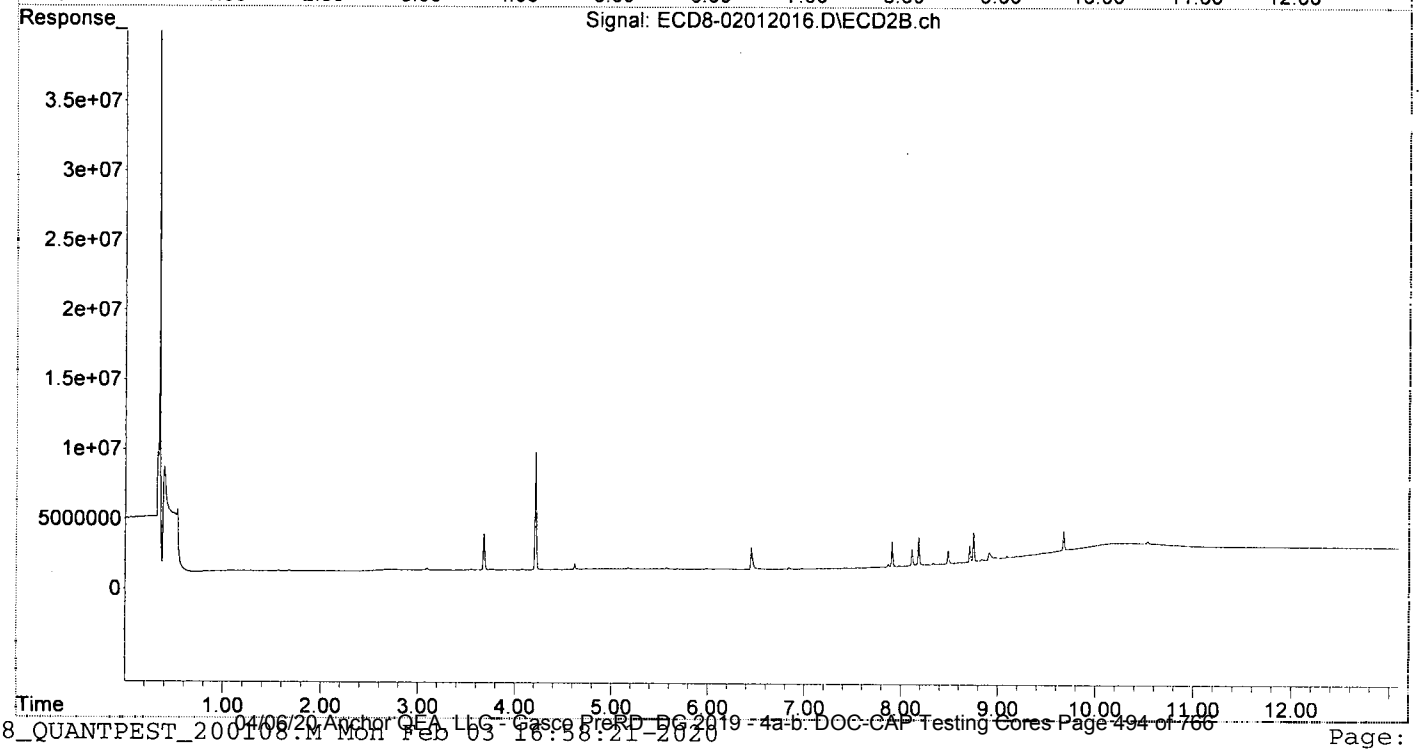
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012016.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 18:31
Operator : MJB
Sample : 0B01012-CALA
Misc : A20B003, 9-42 0.5 ppb
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:49:29 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012017.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 18:48
Operator : MJB
Sample : 0B01012-CALB
Misc : A19K263, 9-42 1 ppb
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:49:45 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MD 2/3/20

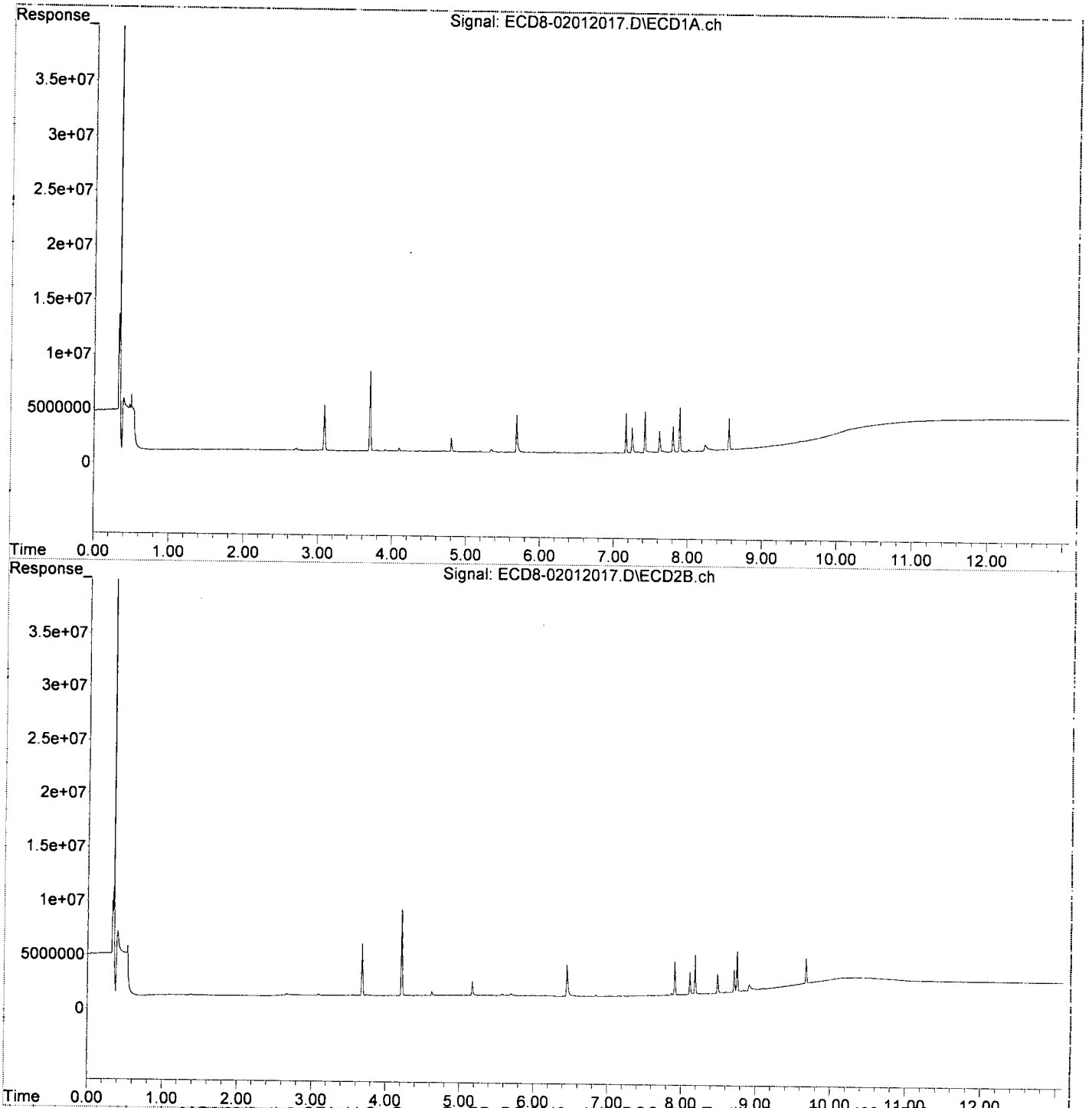
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.337f	5.984	229364	104783	0.066	0.030	#
22)	S DCBP (S)	9.508	10.536	256145	681144	BelowCal	BelowCal	
	Target Compounds							
2)	a-BHC	5.844	6.579	36088	42418	0.008	0.086	#
3)	g-BHC	6.136	6.938f	33688	6890	0.008	0.044	#
4)	b-BHC	6.192	6.967	137751	14912	0.079	0.009	#
5)	Heptachlor	6.526	7.277	7914	16707	0.002	0.004	#
6)	d-BHC	0.000	7.226	0	35191	N.D.	0.108	#
7)	Aldrin	0.000	7.557	0	84669	N.D.	0.035	#
8)	Heptachlo...	7.243	7.981	2295081	34781	0.621	0.010	#
9)	trans-Chl...	7.327	8.112	93035	2104301	0.025	0.566	#
10)	cis-Chlor...	7.417	0.000	3768972	0	1.026	N.D.	#
11)	Endosulfa...	7.490f	8.284	80461	28347	0.023	0.009	#
12)	4,4'-DDE	7.490	8.336	80461	36515	0.024	0.100	#
13)	Dieldrin	7.688	8.486	25217	1795089	0.007	0.545	#
14)	Endrin	7.852	8.709	24371	2100185	0.007	0.723	#
15)	4,4'-DDD	7.886f	8.748	4089263	3801985	1.607	1.665	
16)	Endosulfa...	8.009	8.857	200043	97288	0.067	0.006	#
17)	4,4'-DDT	8.126	0.000	8508	0	0.003	N.D.	#
18)	Endrin Al...	8.304	9.092	165249	236794	0.063	0.090	#
19)	Endosulfa...	8.605	9.283	50108	268280	0.018	0.018	
20)	Methoxychlor	8.444	0.000	9771	0	0.008	N.D.	#
21)	Endrin Ke...	8.801	9.674	31647	2854711	0.009	0.789	#
23)	Hexachlor...	3.080	3.679	4206156	4878910	1.079	1.008	
24)	Hexachlor...	5.680	6.450	3451879	2946247	1.027	0.971	
25)	Oxychlordane	7.159	7.908	3626338	3174792	1.001	0.993	
26)	2,4'-DDE	7.243	8.112	2295081	2104301	0.993	0.926	
27)	trans-Non...	7.417	8.182	3768972	3680280	1.028	1.020	
28)	2,4'-DDD	7.614	8.486	1934222	1795089	0.999	0.938	
29)	2,4'-DDT	7.796	8.709	2374152	2100185	0.992	0.936	
30)	cis-Nonac...	7.886	8.748	4089263	3801985	1.005	0.954	
31)	Mirex	8.552	9.674	2918797	2854711	0.999	1.127	
32)	Chlordane...	7.327	8.112	93035	2104301	0.232	4.843	#
33)	Chlordane...	7.417	0.000	3768972	0	7.750	N.D.	#
34)	Chlordane...	7.969	8.911f	12864	628571	0.099	5.293	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.417	8.486f	3768972	1795089	230.245	60.915	#
37)	Toxaphene...	7.688	8.794	25217	83988	0.803	2.090	#
38)	Toxaphene...	8.009	8.833	200043	184780	96751.095	2.856	#
39)	Toxaphene...	8.231	8.911	549160	628571	1.524	2.352	#
40)	Toxaphene...	8.466	9.092	12477	236794	0.230	4.130	#
41)	Toxaphene...	8.552	0.000	2918797	0	38.378	N.D.	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012017.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 18:48
Operator : MJB
Sample : 0B01012-CALB
Misc : A19K263, 9-42 1 ppb
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:49:45 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012018.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 19:05
Operator : MJB
Sample : 0B01012-CALC
Misc : A19K264, 9-42 2 ppb
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:49:58 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

WR 2/3/20

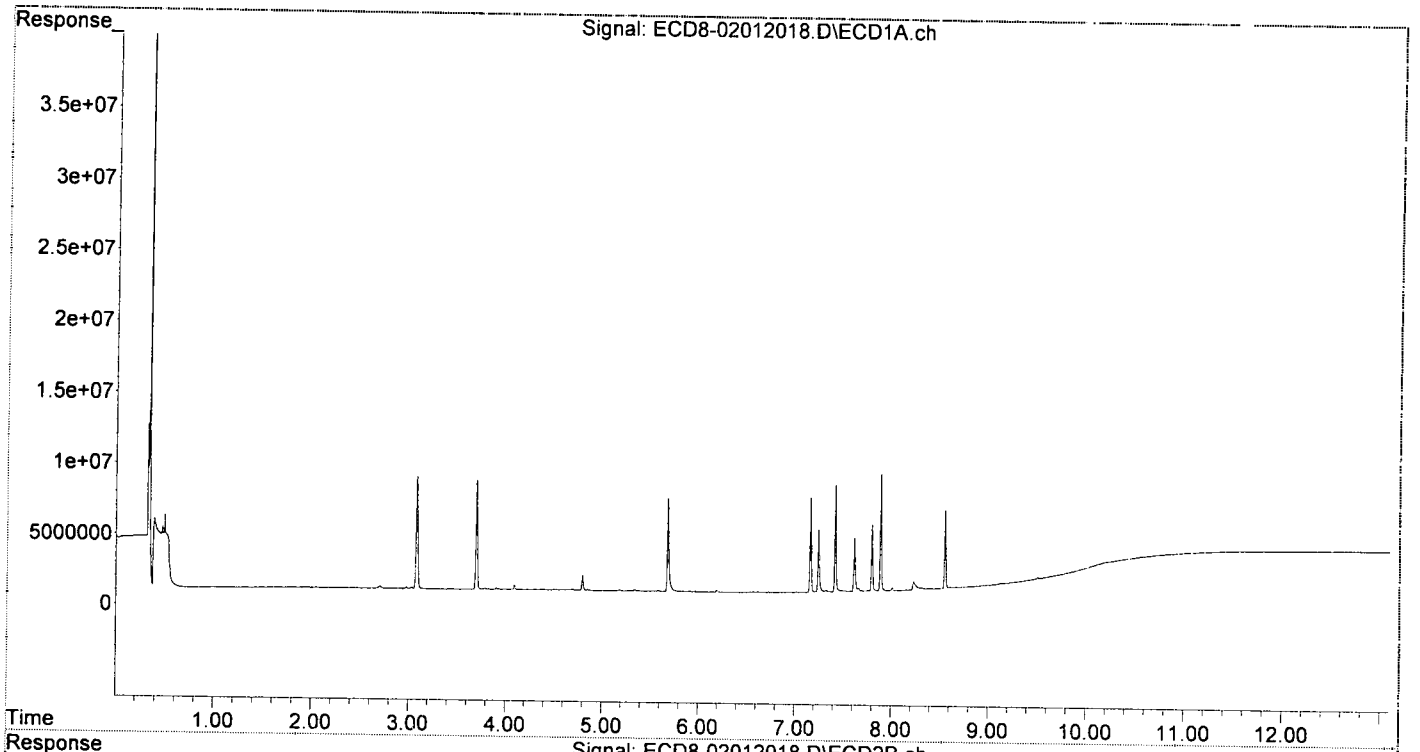
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	5.299	5.983	19602	101756	0.006	0.029 #
22)	S	DCBP (S)	9.506	10.538	109381	596649	BelowCal	BelowCal
		Target Compounds						
2)		a-BHC	5.841	6.584	55246	56316	0.012	0.089 #
3)		g-BHC	6.138	6.904	39150	10198	0.009	0.045 #
4)		b-BHC	6.189	6.970	159134	16074	0.091	0.009 #
5)		Heptachlor	6.529	7.273	21454	20040	0.005	0.005
6)		d-BHC	0.000	7.224	0	30748	N.D.	0.106 #
7)		Aldrin	0.000	7.557	0	61303	N.D.	0.028 #
8)		Heptachlo...	7.241	7.981	4488919	38565	1.216	0.011 #
9)		trans-Chl...	7.326	8.112	113780	4260806	0.030	1.146 #
10)		cis-Chlor...	7.416	0.000	7569675	0	2.061	N.D. #
11)		Endosulfa...	7.492f	8.290	75226	31629	0.022	0.010 #
12)		4,4'-DDE	7.492	8.334	75226	29813	0.023	0.098 #
13)		Dieldrin	7.691	8.485	47941	3680145	0.013	1.082 #
14)		Endrin	7.848	8.709	44345	4187285	0.014	1.447 #
15)		4,4'-DDD	7.886f	8.748	8283514	7352547	3.255	3.167
16)		Endosulfa...	8.007	8.833f	224082	186026	0.075	0.040 #
17)		4,4'-DDT	8.110	8.970	12299	196449	0.005	0.055 #
18)		Endrin Al...	8.306	9.092	138044	196872	0.052	0.074 #
19)		Endosulfa...	8.604	9.284	56452	243989	0.020	0.009 #
20)		Methoxychlor	8.462	0.000	13865	0	0.011	N.D. #
21)		Endrin Ke...	8.800	9.674	36340	4870687	0.011	1.502 #
23)		Hexachlor...	3.080	3.680	7973044	9306742	2.045	1.922
24)		Hexachlor...	5.680	6.449	6640927	5773353	1.976	1.952
25)		Oxychlordane	7.158	7.907	6769962	6050162	2.025	1.892
26)		2,4'-DDE	7.241	8.112	4488919	4260806	1.941	1.875
27)		trans-Non...	7.416	8.182	7569675	6830472	2.065	1.892
28)		2,4'-DDD	7.614	8.485	3838920	3680145	1.982	1.922
29)		2,4'-DDT	7.795	8.709	4727347	4187285	1.975	1.911
30)		cis-Nonac...	7.886	8.748	8283514	7352547	2.036	1.845
31)		Mirex	8.551	9.674	5534484	4870687	2.079	2.100
32)		Chlordane...	7.326	8.112	113780	4260806	0.284	9.807 #
33)		Chlordane...	7.416	0.000	7569675	0	15.565	N.D. #
34)		Chlordane...	7.969	8.910f	15517	609465	0.119	5.132 #
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36)		Toxaphene...	7.382	8.485f	5267	3680145	0.322	124.882 #
37)		Toxaphene...	7.691	8.833f	47941	186026	1.526	4.629 #
38)		Toxaphene...	8.007	8.833	224082	186026	0.023	2.875 #
39)		Toxaphene...	8.229	8.910	567766	609465	1.811	2.153
40)		Toxaphene...	8.474	9.092	10619	196872	0.196	3.434 #
41)		Toxaphene...	8.551	0.000	5534484	0	72.770	N.D. #
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

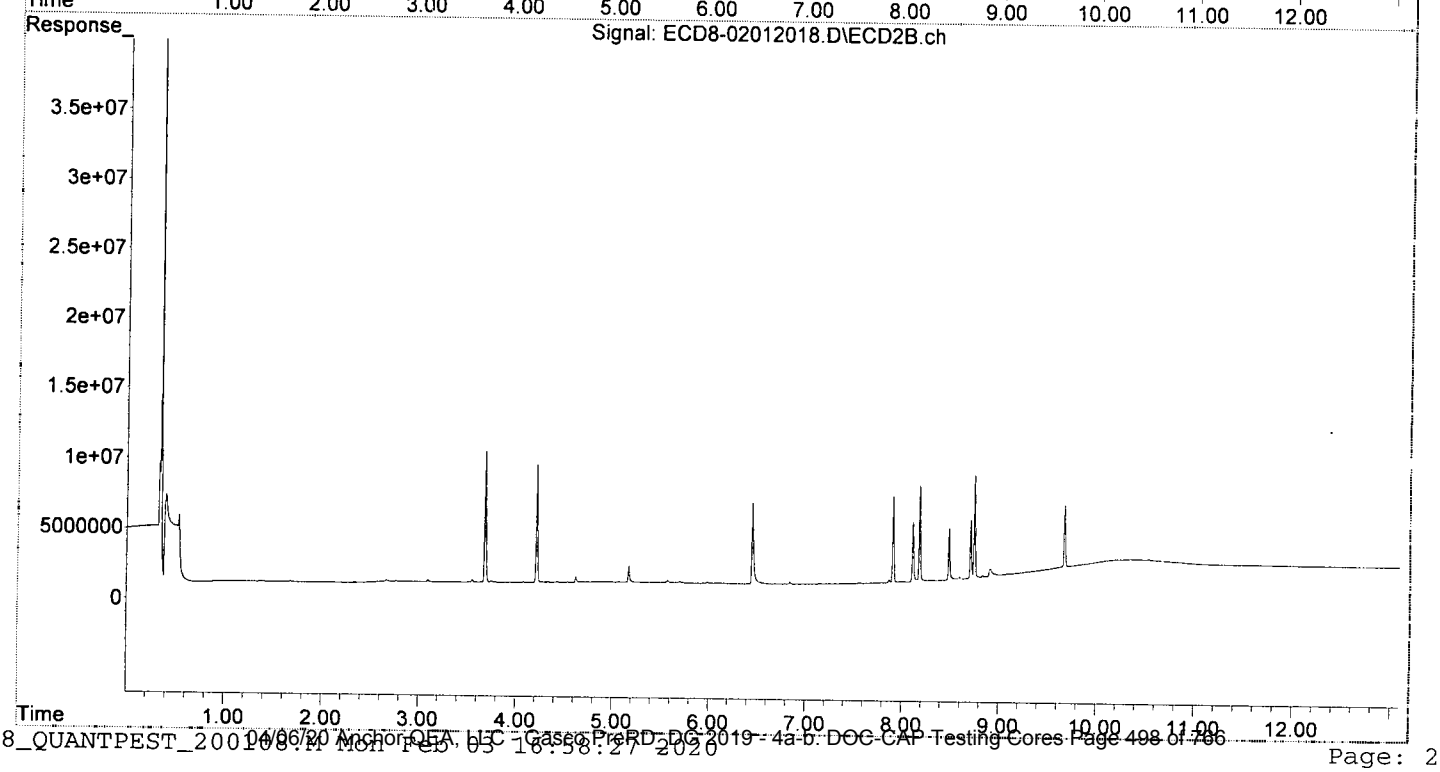
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012018.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 19:05
Operator : MJB
Sample : 0B01012-CALC
Misc : A19K264, 9-42 2 ppb
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:49:58 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012019.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 19:22
Operator : MJB
Sample : 0B01012-CALD
Misc : A19K265, 9-42 5 ppb
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:50:12 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

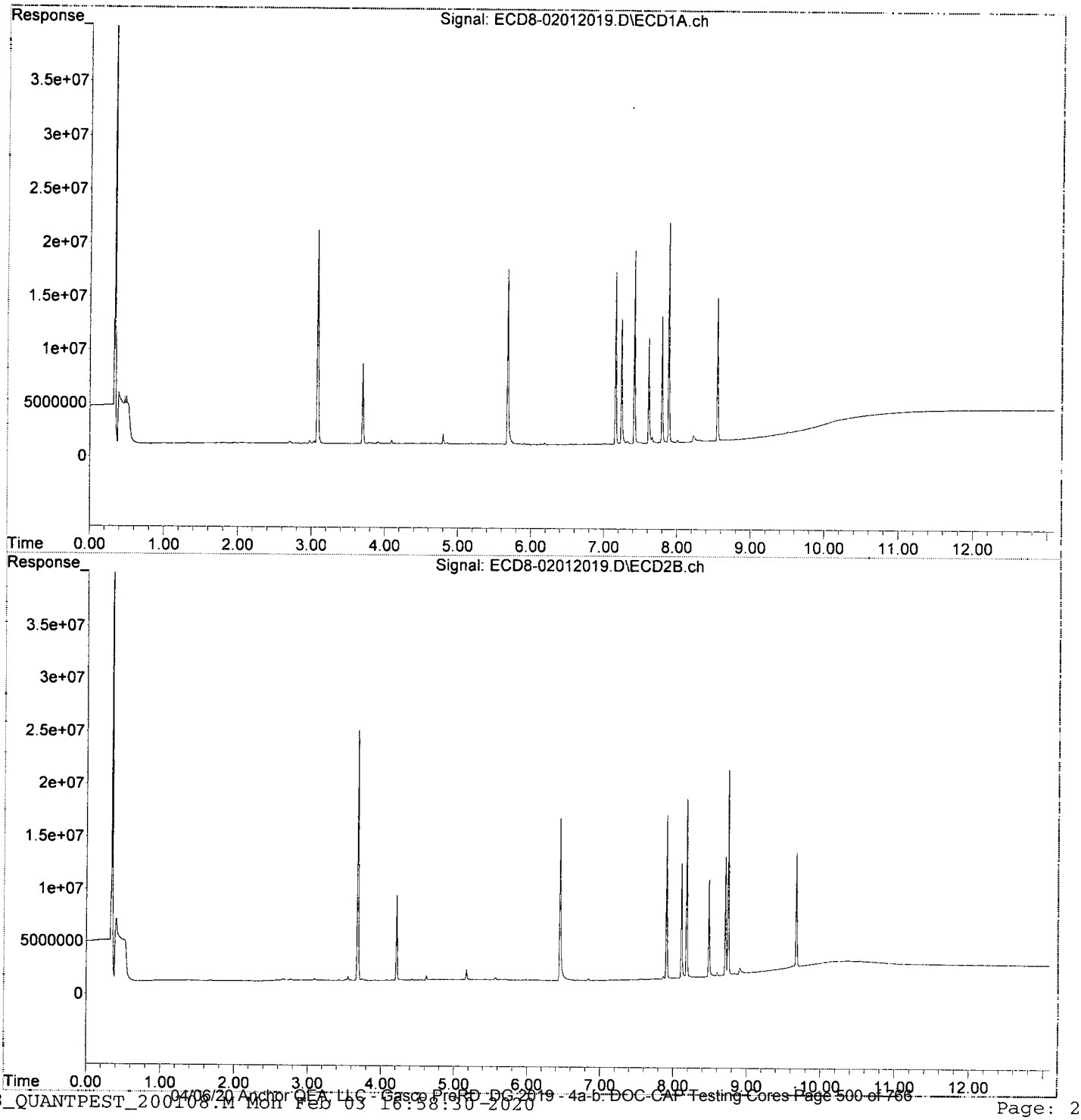
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.274f	5.983	35388	75103	0.010	0.022	#
22)	S	DCBP (S)	9.508	10.536	305584	1041976	BelowCal	0.008	
		Target Compounds							
2)		a-BHC	5.838	6.580	105593	130785	0.022	0.106	#
3)		g-BHC	6.134	6.903	74335	44969	0.018	0.054	#
4)		b-BHC	6.187	6.973	184071	49848	0.106	0.029	#
5)		Heptachlor	6.530	7.277	50239	54821	0.012	0.013	
6)		d-BHC	6.348	7.223	30064	74225	0.115	0.119	
7)		Aldrin	6.770	7.532	15293	16328	0.004	0.016	#
8)		Heptachlo...	7.241	7.979	11743726	97727	3.180	0.027	#
9)		trans-Chl...	7.326	8.111	245682	10906405	0.065	2.933	#
10)		cis-Chlor...	7.416	0.000	18115649	0	4.933	N.D.	#
11)		Endosulfa...	7.496f	8.278	95554	92988	0.028	0.028	
12)		4,4'-DDE	7.496	8.334	95554	71774	0.029	0.111	#
13)		Dieldrin	7.692	8.485	108385	9298557	0.028	2.678	#
14)		Endrin	7.886f	8.709	20605958	11358035	6.314	3.923	#
15)		4,4'-DDD	7.886f	8.748	20605958	19585336	8.097	8.253	
16)		Endosulfa...	8.005	8.857	242760	228631	0.081	0.056	#
17)		4,4'-DDT	8.113	8.961	20866	342806	0.008	0.114	#
18)		Endrin Al...	8.305	9.090	152427	376004	0.058	0.142	#
19)		Endosulfa...	8.605	9.284	78575	449522	0.027	0.091	#
20)		Methoxychlor	0.000	9.449	0	532881	N.D.	0.129	#
21)		Endrin Ke...	8.799	9.674	48323	11467148	0.014	3.821	#
23)		Hexachlor...	3.081	3.680	20008341	23748664	5.133	4.905	
24)		Hexachlor...	5.680	6.449	16447257	15411069	4.893	5.270	
25)		Oxychlordane	7.159	7.908	16184302	15509955	5.088	4.850	
26)		2,4'-DDE	7.241	8.111	11743726	10906405	5.079	4.798	
27)		trans-Non...	7.416	8.182	18115649	16987074	4.941	4.706	
28)		2,4'-DDD	7.613	8.485	9882639	9298557	5.103	4.857	
29)		2,4'-DDT	7.795	8.709	11872885	11358035	4.961	5.235	
30)		cis-Nonac...	7.886	8.748	20605958	19585336	5.064	4.914	
31)		Mirex	8.551	9.674	13322527	11467148	5.298	5.276	
32)		Chlordane...	7.326	8.111	245682	10906405	0.613	25.102	#
33)		Chlordane...	7.416	0.000	18115649	0	37.250	N.D.	#
34)		Chlordane...	8.005f	8.870	242760	201713	1.865	1.699	
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.416	8.436	18115649	51655	1106.677	1.753	#
37)		Toxaphene...	7.692	8.831f	108385	327973	3.450	8.161	#
38)		Toxaphene...	8.005	8.831	242760	327973	0.289	5.069	#
39)		Toxaphene...	8.224	8.908	579745	764477	1.995	3.764	#
40)		Toxaphene...	0.000	9.090	0	376004	N.D.	6.559	#
41)		Toxaphene...	8.551	9.449	13322527	532881	175.172	8.067	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012019.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 19:22
Operator : MJB
Sample : 0B01012-CALD
Misc : A19K265, 9-42 5 ppb
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:50:12 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012020.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 19:38
Operator : MJB
Sample : 0B01012-CALE
Misc : A19K266, 9-42 10 ppb
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:50:25 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

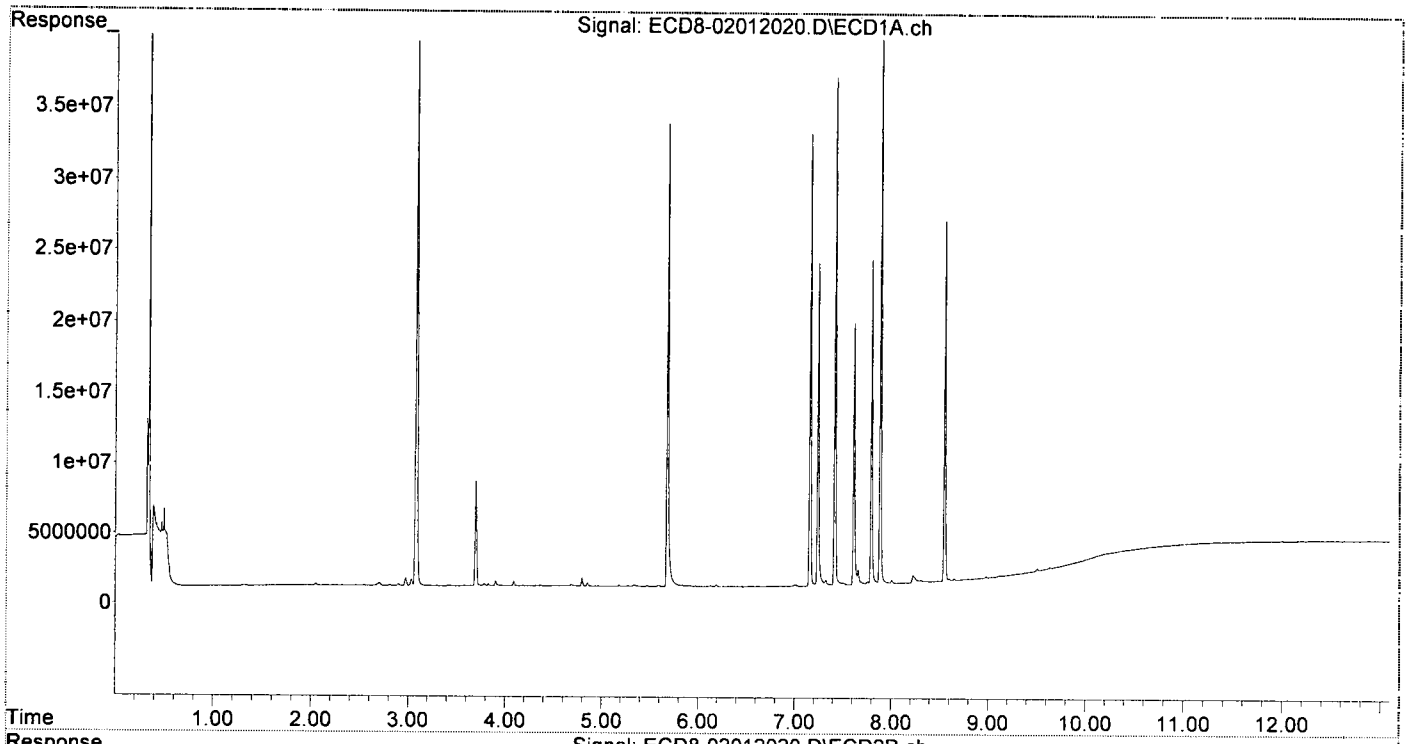
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.274f	5.986	81445	79788	0.023	0.023	
22)	S	DCBP (S)	9.507	10.538	324289	369785	BelowCal	BelowCal	
		Target Compounds							
2)		a-BHC	5.841	0.000	99883	0	0.021	N.D.	#
3)		g-BHC	6.109	6.902	26027	16767	0.006	0.046	#
4)		b-BHC	6.189	6.972	154156	28647	0.089	0.017	#
5)		Heptachlor	6.529	7.275	55254	58281	0.013	0.014	
6)		d-BHC	6.352	7.224	28919	70939	0.115	0.118	
7)		Aldrin	0.000	7.557	0	78398	N.D.	0.033	#
8)		Heptachlo...	7.240	7.979	22804364	134761	6.175	0.038	#
9)		trans-Chl...	7.326	8.112	424054	21958095	0.113	5.905	#
10)		cis-Chlor...	7.416	0.000	35883154	0	9.771	N.D.	#
11)		Endosulfa...	7.502	8.288	143488	113190	0.041	0.034	
12)		4,4'-DDE	7.502	8.332	143488	48480	0.043	0.104	#
13)		Dieldrin	7.695	8.484	189402	18062773	0.050	5.154	#
14)		Endrin	7.886f	8.708	40436692	22137862	12.390	7.608	#
15)		4,4'-DDD	7.886f	8.748	40436692	38325797	15.889	15.796	
16)		Endosulfa...	8.007	8.849	248978	86088	0.083	0.002	#
17)		4,4'-DDT	8.112	8.962	24555	161224	0.009	0.040	#
18)		Endrin Al...	8.306	9.092	135738	111834	0.052	0.042	
19)		Endosulfa...	8.602	9.284	111359	140116	0.039	BelowCal	#
20)		Methoxychlor	8.459	9.469	12577	212566	0.010	BelowCal	#
21)		Endrin Ke...	8.799	9.673	39505	20962075	0.011	7.125	#
23)		Hexachlor...	3.081	3.680	38377580	47088422	9.845	9.725	
24)		Hexachlor...	5.679	6.449	32647902	28525390	9.712	9.723	
25)		Oxychlordane	7.158	7.908	31984005	29890292	10.223	9.346	
26)		2,4'-DDE	7.240	8.112	22804364	21958095	9.863	9.660	
27)		trans-Non...	7.416	8.182	35883154	34402162	9.788	9.531	
28)		2,4'-DDD	7.613	8.484	18534620	18062773	9.570	9.436	
29)		2,4'-DDT	7.795	8.708	22928210	22137862	9.581	10.156	
30)		cis-Nonac...	7.886	8.748	40436692	38325797	9.937	9.617	
31)		Mirex	8.551	9.673	25430296	20962075	10.306	9.829	
32)		Chlordane...	7.326	8.112	424054	21958095	1.059	50.539	#
33)		Chlordane...	7.416	0.000	35883154	0	73.784	N.D.	#
34)		Chlordane...	7.949	8.908	124496	582747	0.956	4.907	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.416	8.449	35883154	6615	2192.086	0.224	#
37)		Toxaphene...	7.695	8.832f	189402	185152	6.029	4.607	
38)		Toxaphene...	8.007	8.832	248978	185152	0.377	2.862	#
39)		Toxaphene...	8.228	8.908	542657	582747	1.424	1.875	#
40)		Toxaphene...	8.475	9.092	7218	111834	0.133	1.951	#
41)		Toxaphene...	8.551	9.469	25430296	212566	334.371	3.218	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

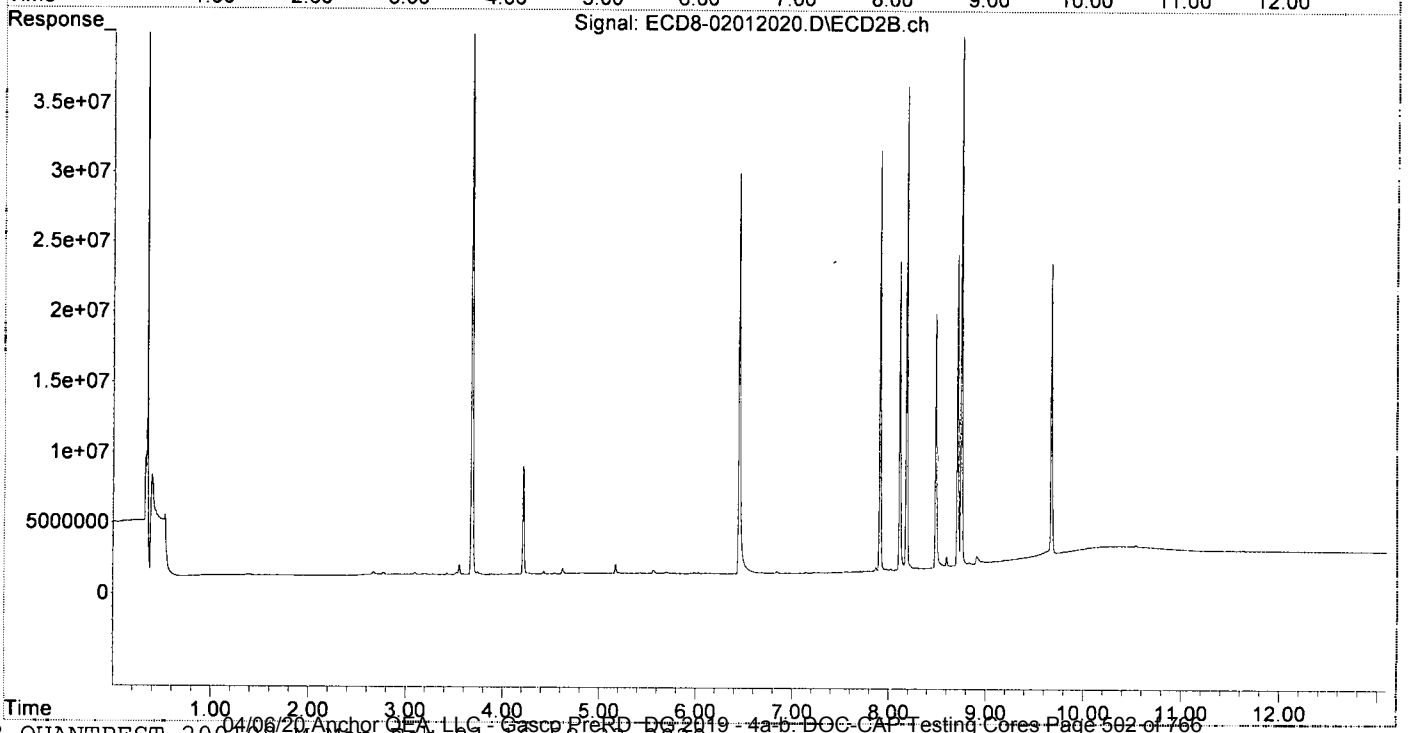
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012020.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 19:38
Operator : MJB
Sample : 0B01012-CALE
Misc : A19K266, 9-42 10 ppb
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:50:25 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012021.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 19:55
Operator : MJB
Sample : 0B01012-CALF
Misc : A19J407, 9-42 25 ppb
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:50:38 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

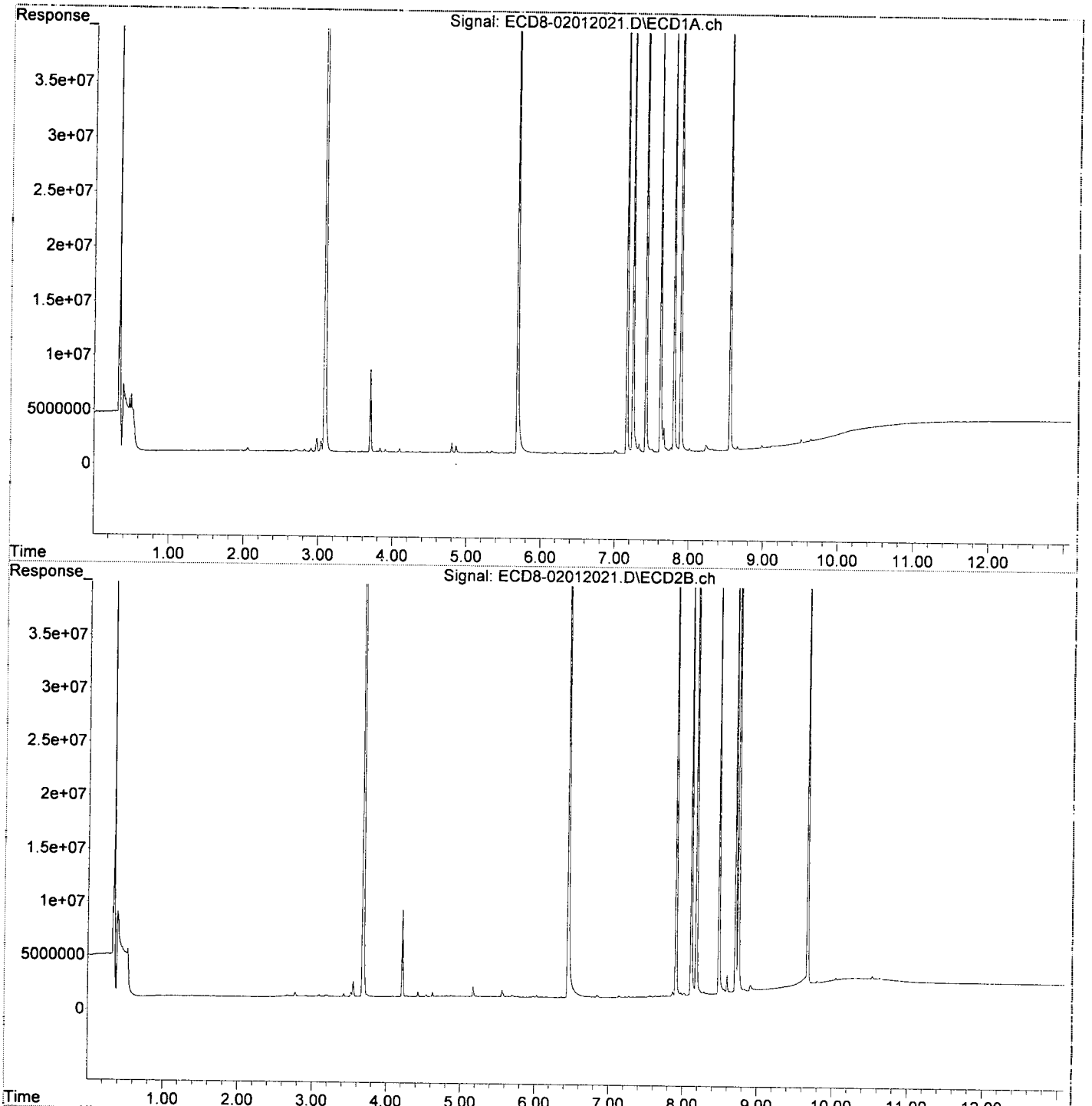
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.273f	5.983	172543	81641	0.049	0.024	#
22)	S DCBP (S)	9.507	10.536	471771	879618	BelowCal	BelowCal	
	Target Compounds							
2)	a-BHC	5.839	0.000	166681	0	0.035	N.D.	#
3)	g-BHC	6.135	6.933f	51177	19174	0.012	0.047	#
4)	b-BHC	6.190	6.974	158842	20783	0.091	0.012	#
5)	Heptachlor	6.530	7.275	101574	94681	0.025	0.022	
6)	d-BHC	6.364	7.227	19134	49353	0.112	0.112	
7)	Aldrin	6.782	7.536	7177	17598	0.002	0.017	#
8)	Heptachlo...	7.240	7.978	52202377	268492	14.136	0.075	#
9)	trans-Chl...	7.326	8.111	841486	51113359	0.224	13.746	#
10)	cis-Chlor...	7.416	0.000	81812536	0	22.279	N.D.	#
11)	Endosulfa...	7.504	8.288	332530	253043	0.096	0.077	
12)	4,4'-DDE	7.504	0.000	332530	0	0.100	N.D.	#
13)	Dieldrin	7.696	8.485	387193	42962025	0.102	12.094	#
14)	Endrin	7.887f	8.708	91550344	53723446	28.052	18.166	#
15)	4,4'-DDD	7.887f	8.748	91550344	90384875	35.973	35.397	
16)	Endosulfa...	8.008	8.833	293687	303094	0.098	0.085	
17)	4,4'-DDT	8.112	8.975	49514	242900	0.018	0.073	#
18)	Endrin Al...	8.315	9.089	178794	212447	0.068	0.080	
19)	Endosulfa...	0.000	9.283	0	293817	N.D.	0.029	#
20)	Methoxychlor	8.454	0.000	8593	0	0.007	N.D.	#
21)	Endrin Ke...	8.800	9.673	37765	47784220	0.011	16.253	#
23)	Hexachlor...	3.081	3.680	87282581	109.6E6	22.391	22.635	
24)	Hexachlor...	5.679	6.449	77942708	72282140	23.186	24.106	
25)	Oxychlordane	7.158	7.908	72990996	71584795	23.514	22.383	
26)	2,4'-DDE	7.240	8.111	52202377	51113359	22.578	22.487	
27)	trans-Non...	7.416	8.181	81812536	80789047	22.315	22.382	
28)	2,4'-DDD	7.612	8.485	42203429	42962025	21.790	22.443	
29)	2,4'-DDT	7.794	8.708	53607879	53723446	22.401	24.087	
30)	cis-Nonac...	7.887	8.748	91550344	90384875	22.497	22.680	
31)	Mirex	8.552	9.673	55829392	47784220	22.909	22.573	
32)	Chlordane...	7.326	8.111	841486	51113359	2.101	117.644	#
33)	Chlordane...	7.416	0.000	81812536	0	168.225	N.D.	#
34)	Chlordane...	0.000	8.911f	0	672731	N.D.	5.665	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.416	8.450	81812536	4689	4997.892	0.159	#
37)	Toxaphene...	7.696	8.833f	387193	303094	12.325	7.542	#
38)	Toxaphene...	8.008	8.833	293687	303094	1.012	4.685	#
39)	Toxaphene...	8.230	8.911	559144	672731	1.678	2.811	#
40)	Toxaphene...	8.460	9.089	8766	212447	0.162	3.706	#
41)	Toxaphene...	8.552	0.000	55829392	0	734.075	N.D.	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012021.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 19:55
Operator : MJB
Sample : 0B01012-CALF
Misc : A19J407, 9-42 25 ppb
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:50:38 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012022.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 20:12
Operator : MJB
Sample : 0B01012-CALG
Misc : A19J408, 9-42 50 ppb
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:50:49 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

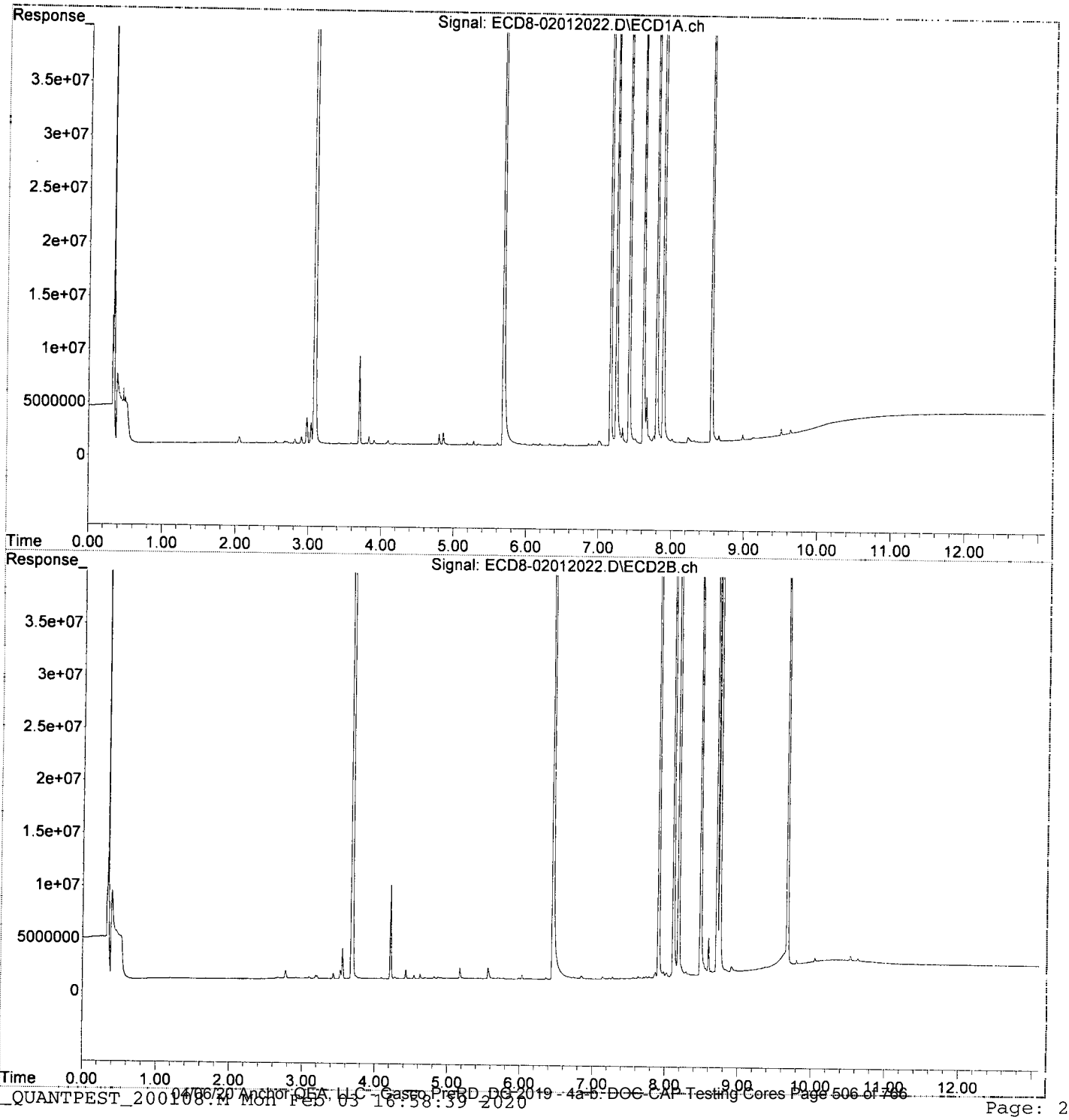
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.273f	5.983	378443	98341	0.108	0.029	#
22)	S	DCBP (S)	9.507	10.537	770659	1505892	BelowCal	0.238	
		Target Compounds							
2)		a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)		g-BHC	6.131	6.921	42529	49908	0.010	0.055	#
4)		b-BHC	6.189	6.974	171138	62085	0.098	0.036	#
5)		Heptachlor	6.529	7.276	180574	174281	0.044	0.041	
6)		d-BHC	6.321f	7.226	158264	70228	0.152	0.118	
7)		Aldrin	6.771	7.557	14501	78174	0.004	0.033	#
8)		Heptachlo...	7.239	7.977	116.4E6	566399	31.510	0.158	#
9)		trans-Chl...	7.325	8.110	1613637	117.1E6	0.429	31.503	#
10)		cis-Chlor...	7.415	0.000	177.0E6	0	48.205	N.D.	#
11)		Endosulfa...	7.503	8.288	545619	524397	0.157	0.159	
12)		4,4'-DDE	7.503	0.000	545619	0	0.164	N.D.	#
13)		Dieldrin	7.693	8.484	740452	99247235	0.194	27.303	#
14)		Endrin	7.885f	8.708	200.1E6	122.8E6	61.309	40.122	#
15)		4,4'-DDD	7.885f	8.748	200.1E6	209.3E6	78.621	74.665	
16)		Endosulfa...	8.009	8.832f	417201	627725	0.139	0.208	#
17)		4,4'-DDT	8.109	8.975	105504	496555	0.039	0.177	#
18)		Endrin Al...	8.314	9.094	228342	448426	0.087	0.170	#
19)		Endosulfa...	0.000	9.285	0	572993	N.D.	0.140	#
20)		Methoxychlor	8.452	0.000	11810	0	0.010	N.D.	#
21)		Endrin Ke...	8.799	9.674	56595	104.8E6	0.016	34.762	#
23)		Hexachlor...	3.080	3.680	186.6E6	249.2E6	47.861	51.461	
24)		Hexachlor...	5.679	6.448	165.7E6	168.5E6	49.297	53.551	
25)		Oxychlordane	7.158	7.907	160.5E6	160.7E6	51.703	50.251	
26)		2,4'-DDE	7.239	8.110	116.4E6	117.1E6	50.326	51.536	
27)		trans-Non...	7.415	8.182	177.0E6	179.2E6	48.284	49.647	
28)		2,4'-DDD	7.611	8.484	93133543	99247235	48.086	51.846	
29)		2,4'-DDT	7.793	8.708	117.1E6	122.8E6	48.936	52.394	
30)		cis-Nonac...	7.885	8.748	200.1E6	209.3E6	49.169	52.507	
31)		Mirex	8.551	9.674	117.1E6	104.8E6	48.444	49.128	
32)		Chlordane...	7.325	8.110	1613637	117.1E6	4.029	269.615	#
33)		Chlordane...	7.415	0.000	177.0E6	0	363.993	N.D.	#
34)		Chlordane...	0.000	8.913f	0	865676	N.D.	7.290	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.415	8.452	177.0E6	154019	10814.060	5.226	#
37)		Toxaphene...	7.693	8.832f	740452	627725	23.570	15.619	#
38)		Toxaphene...	8.009	8.832	417201	627725	2.767	9.703	#
39)		Toxaphene...	8.232	8.913	504733	865676	0.839	4.816	#
40)		Toxaphene...	8.469	9.094	6969	448426	0.129	7.822	#
41)		Toxaphene...	8.551	0.000	117.1E6	0	1540.175	N.D.	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012022.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 20:12
Operator : MJB
Sample : 0B01012-CALG
Misc : A19J408, 9-42 50 ppb
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:50:49 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012023.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 20:29
Operator : MJB
Sample : 0B01012-CALH
Misc : A19J409, 9-42 100 ppb
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:50:59 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

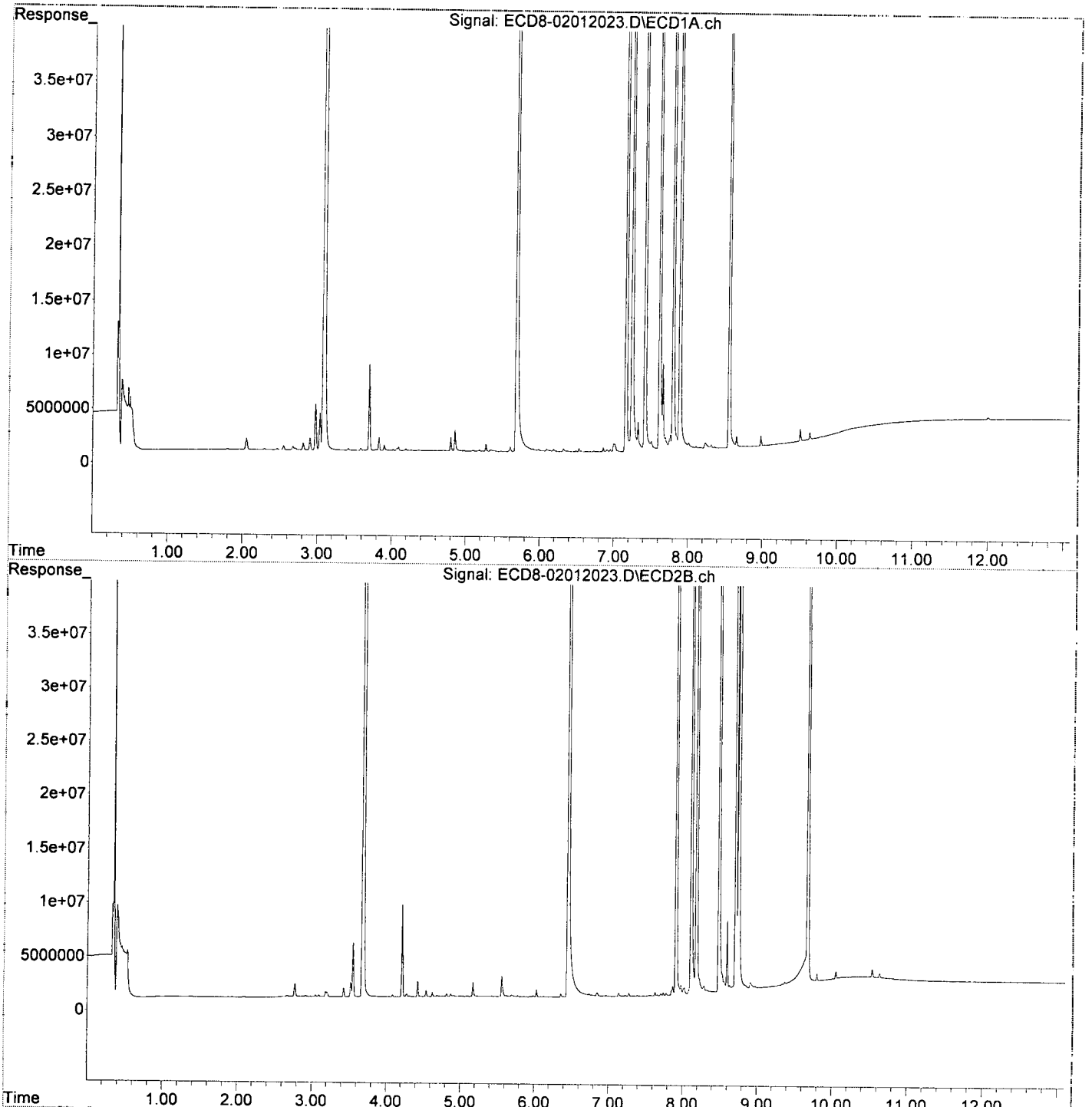
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.273f	5.983	681545	104717	0.195	0.030	#
22)	S	DCBP (S)	9.508	10.537	1256804	1267933	0.157	0.120	
		Target Compounds							
2)		a-BHC	5.837	0.000	374614	0	0.079	N.D.	#
3)		g-BHC	6.138	6.931f	45065	89708	0.011	0.065	#
4)		b-BHC	6.186	6.971	172901	114755	0.099	0.066	#
5)		Heptachlor	6.529	7.275	322869	310060	0.079	0.074	
6)		d-BHC	6.319f	7.227	263775	105240	0.183	0.128	#
7)		Aldrin	6.768	7.558	20849	77251	0.005	0.033	#
8)		Heptachlo...	7.239	7.977	223.0E6	906878	60.400	0.253	#
9)		trans-Chl...	7.325	8.110	2691889	238.4E6	0.716	64.125	#
10)		cis-Chlor...	7.415	0.000	344.0E6	0	93.675	N.D.	#
11)		Endosulfa...	7.504	8.287	863087	682627	0.249	0.207	
12)		4,4'-DDE	7.504	0.000	863087	0	0.260	N.D.	#
13)		Dieldrin	7.694	8.484	1164282	195.5E6	0.305	51.969	#
14)		Endrin	7.885f	8.708	379.3E6	253.6E6	116.233	78.307	#
15)		4,4'-DDD	7.885f	8.748	379.3E6	398.9E6	149.055	127.265	
16)		Endosulfa...	8.009	8.851	576299	460137	0.193	0.144	#
17)		4,4'-DDT	8.110	8.974	227388	354632	0.085	0.119	#
18)		Endrin Al...	8.296	9.091	137967	218650	0.052	0.083	#
19)		Endosulfa...	0.000	9.284	0	311998	N.D.	0.036	#
20)		Methoxychlor	8.466	0.000	13853	0	0.011	N.D.	#
21)		Endrin Ke...	8.798	9.674	67455	204.2E6	0.020	64.560	#
23)		Hexachlor...	3.081	3.681	351.0E6	469.1E6	90.046	96.874	
24)		Hexachlor...	5.679	6.448	320.6E6	327.6E6	95.359	97.177	
25)		Oxychlordane	7.158	7.907	299.8E6	312.8E6	96.097	97.799	
26)		2,4'-DDE	7.239	8.110	223.0E6	238.4E6	96.469	104.901	
27)		trans-Non...	7.415	8.181	344.0E6	367.6E6	93.831	101.831	
28)		2,4'-DDD	7.611	8.484	188.9E6	195.5E6	97.532	102.152	
29)		2,4'-DDT	7.794	8.708	229.9E6	253.6E6	96.052	100.011	
30)		cis-Nonac...	7.885	8.748	379.3E6	398.9E6	93.217	100.107	
31)		Mirex	8.551	9.674	232.7E6	204.2E6	97.034	93.726	
32)		Chlordane...	7.325	8.110	2691889	238.4E6	6.722	548.802	#
33)		Chlordane...	7.415	0.000	344.0E6	0	707.341	N.D.	#
34)		Chlordane...	0.000	8.910f	0	734821	N.D.	6.188	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.415	8.484f	344.0E6	195.5E6	21014.795	6635.699	#
37)		Toxaphene...	7.694	0.000	1164282	0	37.061	N.D.	#
38)		Toxaphene...	8.009	8.851	576299	460137	5.027	7.112	#
39)		Toxaphene...	8.235	8.910	520931	734821	1.089	3.456	#
40)		Toxaphene...	8.466	9.091	13853	218650	0.256	3.814	#
41)		Toxaphene...	8.551	0.000	232.7E6	0	3060.097	N.D.	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012023.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 20:29
Operator : MJB
Sample : 0B01012-CALH
Misc : A19J409, 9-42 100 ppb
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:50:59 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012024.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 20:46
Operator : MJB
Sample : 0B01012-CALI
Misc : A19K262, 9-42 200 ppb
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:51:11 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

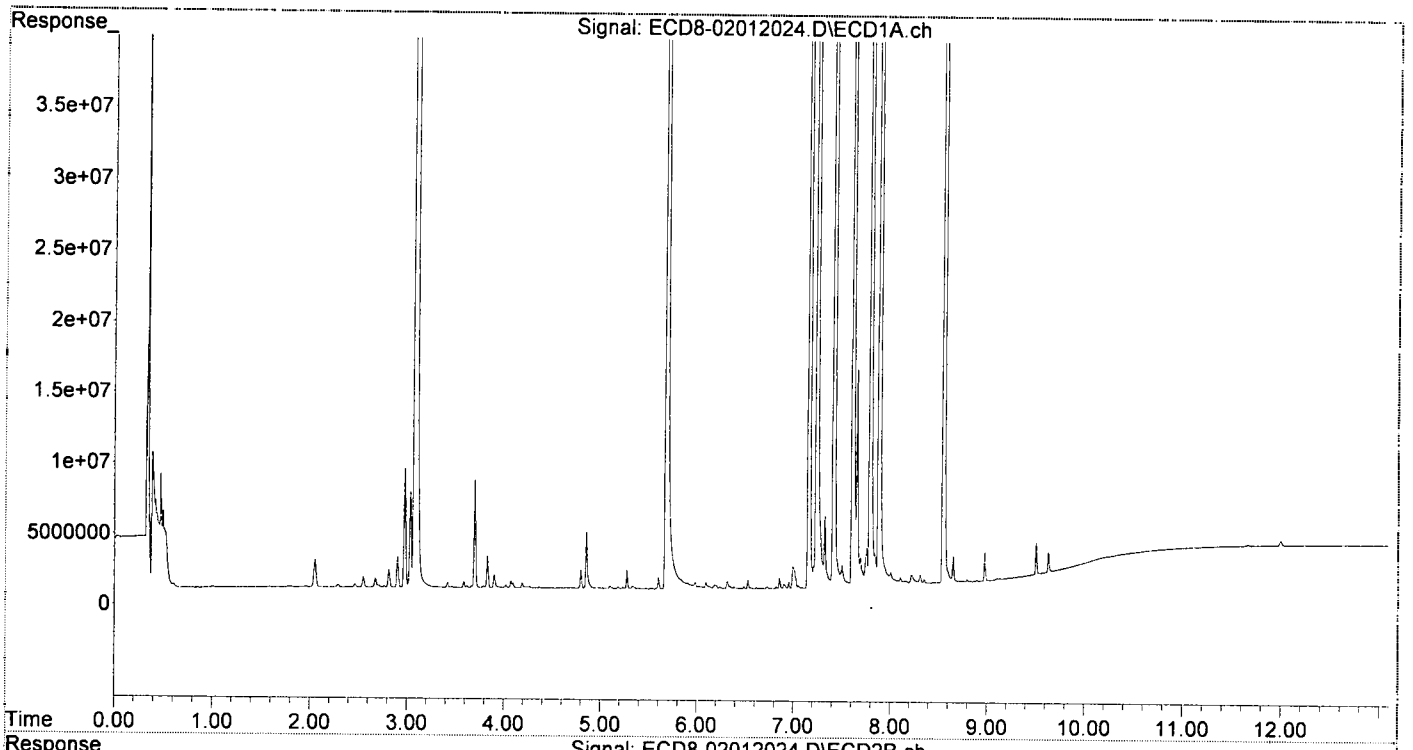
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.273f	5.979	1304536	82402	0.373	0.024	#
22)	S DCBP (S)	9.506	10.535	2233814	2678724	0.540	0.818	#
	Target Compounds							
2)	a-BHC	5.833	0.000	700515	0	0.148	N.D.	#
3)	g-BHC	6.117	6.904	203946	144858	0.049	0.079	#
4)	b-BHC	6.199	6.967	250195	234291	0.144	0.135	
5)	Heptachlor	6.528	7.274	650259	607091	0.158	0.144	
6)	d-BHC	6.347	7.224	167146	248468	0.155	0.168	
7)	Aldrin	6.768	7.551	62352	176516	0.015	0.059	#
8)	Heptachlo...	7.238	7.976	482.9E6	1706342	130.754	0.475	#
9)	trans-Chl...	7.324	8.109	5059668	534.7E6	1.345	143.794	#
10)	cis-Chlor...	7.415	8.223	728.0E6	2252124	198.236	0.639	#
11)	Endosulfa...	7.502	8.286	1539983	1482912	0.444	0.449	
12)	4,4'-DDE	7.502	8.324	1539983	554799	0.464	0.266	#
13)	Dieldrin	7.693	8.483	2009203	469.3E6	0.527	114.904	#
14)	Endrin	7.844	8.707	2157901	583.6E6	0.661	160.991	#
15)	4,4'-DDD	7.884f	8.747	835.6E6	936.1E6	328.347	242.433	#
16)	Endosulfa...	8.008	8.853	873285	1023893	0.292	0.358	
17)	4,4'-DDT	8.108	8.973	498317	837452	0.185	0.316	#
18)	Endrin Al...	8.312	9.091	664130	693413	0.252	0.262	
19)	Endosulfa...	0.000	9.282	0	830775	N.D.	0.243	#
20)	Methoxychlor	8.454	0.000	71534	0	0.059	N.D.	#
21)	Endrin Ke...	8.797	9.673	169181	479.6E6	0.049	135.887	#
23)	Hexachlor...	3.081	3.681	752.3E6	1068.1E6	192.979	220.589	
24)	Hexachlor...	5.679	6.449	700.2E6	782.5E6	208.297	200.388	
25)	Oxychlordane	7.157	7.907	643.7E6	730.3E6	203.252	228.367	
26)	2,4'-DDE	7.238	8.109	482.9E6	534.7E6	208.837	235.231	
27)	trans-Non...	7.415	8.181	728.0E6	810.4E6	198.564	224.514	
28)	2,4'-DDD	7.610	8.483	416.9E6	469.3E6	215.266	245.182	
29)	2,4'-DDT	7.792	8.707	502.1E6	583.6E6	209.798	198.781	
30)	cis-Nonac...	7.884	8.747	835.6E6	936.1E6	205.344	234.897	
31)	Mirex	8.550	9.673	487.2E6	479.6E6	206.142	208.232	
32)	Chlordane...	7.324	8.109	5059668	534.7E6	12.634	1230.638	#
33)	Chlordane...	7.415	8.223	728.0E6	2252124	1496.878	6.195	#
34)	Chlordane...	0.000	8.906	0	1179129	N.D.	9.929	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.415	8.435	728.0E6	319855	44471.567	10.854	#
37)	Toxaphene...	7.693	8.829f	2009203	1065509	63.956	26.512	#
38)	Toxaphene...	8.008	8.829	873285	1065509	9.247	16.469	#
39)	Toxaphene...	8.223f	8.906	651403	1179129	3.100	8.073	#
40)	Toxaphene...	8.454	9.091	71534	693413	1.320	12.095	#
41)	Toxaphene...	8.550	0.000	487.2E6	0	6406.202	N.D.	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

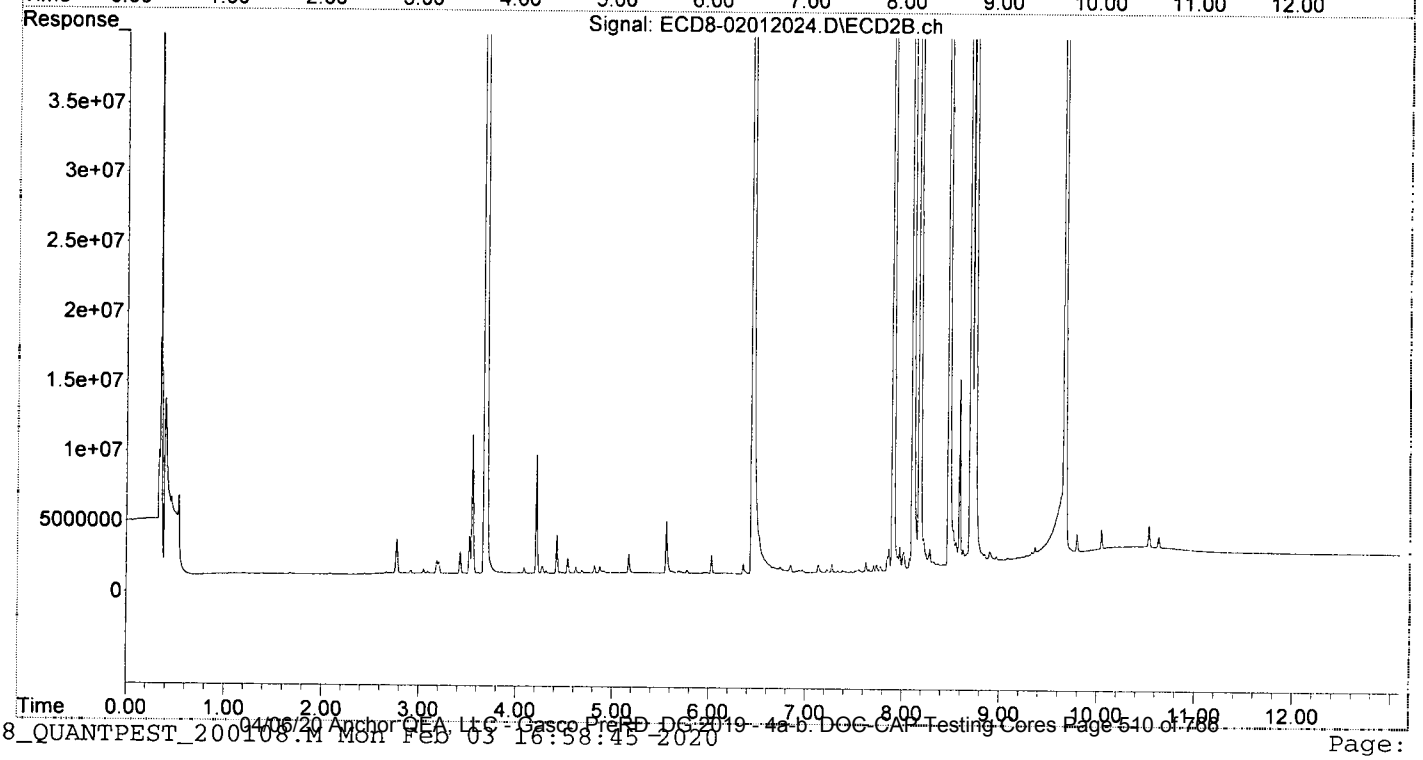
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012024.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 20:46
Operator : MJB
Sample : 0B01012-CALI
Misc : A19K262, 9-42 200 ppb
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:51:11 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012027.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 21:36
Operator : MJB
Sample : 0B01012-CALJ
Misc : A20B004, CHLOR 10 ppb
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:51:48 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

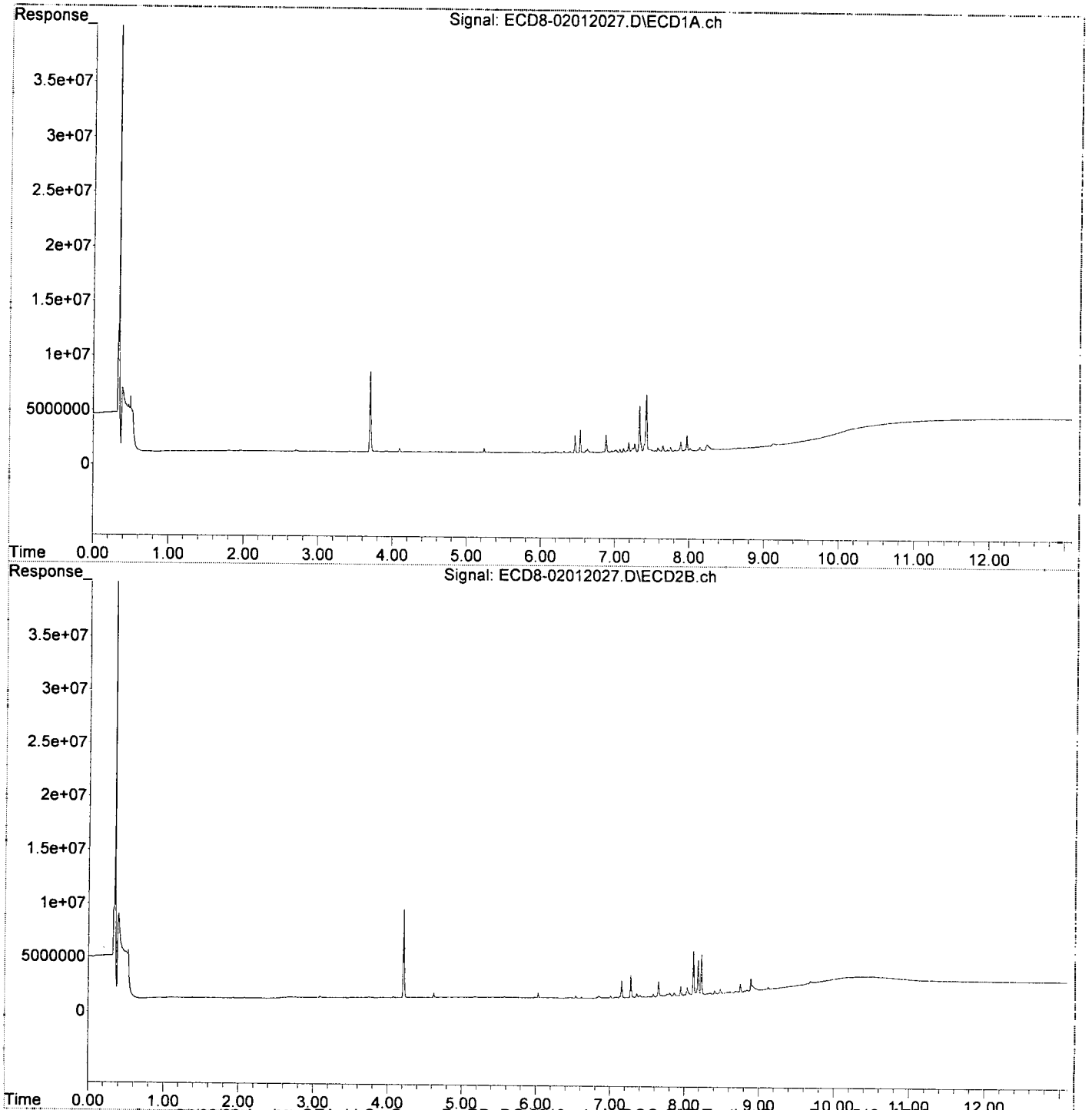
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.298	5.983	37371	62991	0.011	0.018	#
22)	S DCBP (S)	9.509	10.536	201674	561115	BelowCal	BelowCal	
	Target Compounds							
2)	a-BHC	5.846	6.611f	24343	115221	0.005	0.103	#
3)	g-BHC	6.091f	6.912	65256	42857	0.016	0.053	#
4)	b-BHC	6.192	6.975	131243	9022	0.075	0.005	#
5)	Heptachlor	6.530	7.275	2107581	2035440	0.513	0.483	
6)	d-BHC	6.344	7.226	18860	19583	0.112	0.103	
7)	Aldrin	6.771	7.544	16577	11449	0.004	0.015	#
8)	Heptachlo...	7.242	7.998	419725	96230	0.114	0.027	#
9)	trans-Chl...	7.328	8.118	4222162	4084683	1.123	1.099	
10)	cis-Chlor...	7.421	8.226	5231315	3718290	1.425	1.056	#
11)	Endosulfa...	7.496f	8.299f	160618	53549	0.046	0.016	#
12)	4,4'-DDE	7.496	8.324	160618	95889	0.048	0.119	#
13)	Dieldrin	7.706	8.480	150581	430611	0.039	0.155	#
14)	Endrin	7.847	8.703	61204	105733	0.019	0.029	#
15)	4,4'-DDD	7.919	8.749	40077	799079	0.016	0.385	#
16)	Endosulfa...	8.010	8.866	225869	100611	0.076	0.008	#
17)	4,4'-DDT	8.113	9.005f	70129	131307	0.026	0.028	
18)	Endrin Al...	8.302	9.091	112075	133185	0.043	0.050	
19)	Endosulfa...	8.609	9.286	82500	173859	0.029	BelowCal	#
20)	Methoxychlor	8.453	9.468	39001	252366	0.032	BelowCal	#
21)	Endrin Ke...	8.801	9.683	28305	567675	0.008	BelowCal	#
23)	Hexachlor...	3.091	3.698	34892	72700	0.009	0.015	#
24)	Hexachlor...	5.679	6.452	35544	42391	0.011	BelowCal	#
25)	Oxychlordane	7.160	7.922	206052	36715	BelowCal	0.011	
26)	2,4'-DDE	7.242	8.118	419725	4084683	0.182	1.797	#
27)	trans-Non...	7.421	8.182	5231315	3231178	1.427	0.895	#
28)	2,4'-DDD	7.620	8.480	55279	430611	0.029	0.225	#
29)	2,4'-DDT	7.815f	8.703	116578	105733	0.049	0.000	#
30)	cis-Nonac...	7.886	8.749	866535	799079	0.213	0.201	
31)	Mirex	8.553	9.683	31646	567675	8199.116	0.022	#
32)	Chlordane...	7.328	8.118	4222162	4084683	10.543	9.401	
33)	Chlordane...	7.421	8.226	5231315	3718290	10.757	10.228	
34)	Chlordane...	7.968	8.889	1477991	1246903	11.352	10.500	
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.393	8.438	748729	25541	45.740	0.867	#
37)	Toxaphene...	7.706	8.806	150581	119727	4.793	2.979	#
38)	Toxaphene...	8.010	8.836	225869	193404	0.049	2.989	#
39)	Toxaphene...	8.240	8.914	513164	548095	0.969	1.515	#
40)	Toxaphene...	8.475	9.091	17982	133185	0.332	2.323	#
41)	Toxaphene...	8.553	9.468	31646	252366	0.416	3.821	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012027.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 21:36
Operator : MJB
Sample : 0B01012-CALJ
Misc : A20B004, CHLOR 10 ppb
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:51:48 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012028.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 21:53
Operator : MJB
Sample : 0B01012-CALK
Misc : A19K307, CHLOR 50 ppb
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:51:59 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

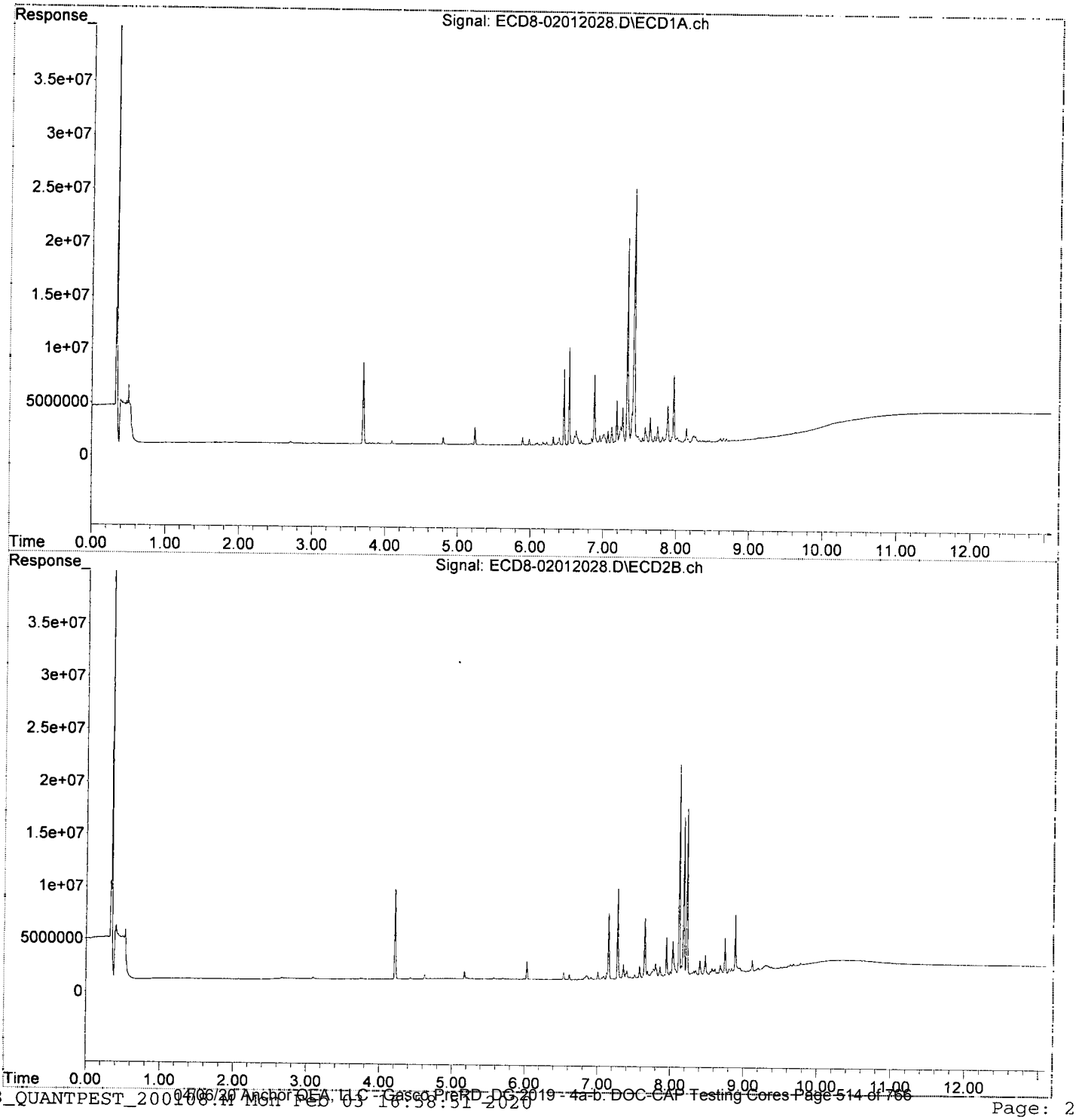
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	0.000	5.987	0	80767	N.D.	0.023	#
22)	S	DCBP (S)	9.510	10.540	186477	988312	BelowCal	BelowCal	
		Target Compounds							
2)		a-BHC	5.843	6.611f	34117	507112	0.007	0.195	#
3)		g-BHC	6.138	6.911	45252	221321	0.011	0.099	#
4)		b-BHC	6.191	7.004f	172351	727005	0.099	0.419	#
5)		Heptachlor	6.530	7.275	9157180	8589063	2.228	2.040	
6)		d-BHC	6.341	7.223	91148	33385	0.133	0.107	
7)		Aldrin	6.773	7.510f	77130	341414	0.019	0.103	#
8)		Heptachlo...	7.241	7.998	1647301	548429	0.446	0.153	#
9)		trans-Chl...	7.327	8.119	19331862	20134199	5.141	5.415	
10)		cis-Chlor...	7.421	8.226	23846059	15910016	6.494	4.516	#
11)		Endosulfa...	7.540f	8.298f	550631	346159	0.159	0.105	#
12)		4,4'-DDE	7.477	8.321	688155	520445	0.207	0.255	
13)		Dieldrin	7.706	8.478	680405	2005172	0.178	0.605	#
14)		Endrin	7.846	8.721	347516	319957	0.106	0.104	
15)		4,4'-DDD	7.885f	8.748	3528543	3553430	1.386	1.559	
16)		Endosulfa...	8.017	8.864	468453	520859	0.157	0.167	
17)		4,4'-DDT	8.142f	8.984	1378170	395270	0.513	0.136	#
18)		Endrin Al...	8.327f	9.061f	156187	346462	0.059	0.131	#
19)		Endosulfa...	8.609	9.310f	322890	828646	0.113	0.243	#
20)		Methoxychlor	8.453	9.417f	125281	534442	0.104	0.130	#
21)		Endrin Ke...	8.796	9.683	51993	887354	0.015	0.092	#
23)		Hexachlor...	3.088	3.701f	40987	32368	0.011	0.007	#
24)		Hexachlor...	5.655f	6.446	32910	29391	0.010	BelowCal	#
25)		Oxychlordane	7.157	7.921	305840	265124	BelowCal	0.083	
26)		2,4'-DDE	7.241	8.119	1647301	20134199	0.712	8.858	#
27)		trans-Non...	7.421	8.181	23846059	15111519	6.504	4.187	#
28)		2,4'-DDD	7.644f	8.478	2451266	2005172	1.266	1.047	
29)		2,4'-DDT	7.815f	8.721	559527	319957	0.234	0.101	#
30)		cis-Nonac...	7.885	8.748	3528543	3553430	0.867	0.892	
31)		Mirex	8.549	9.683	37685	887354	8199.113	0.176	#
32)		Chlordane...	7.327	8.119	19331862	20134199	48.272	46.341	
33)		Chlordane...	7.421	8.226	23846059	15910016	49.033	43.762	
34)		Chlordane...	7.967	8.889	6361865	5712561	48.863	48.104	
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.392	8.438	2982328	236518	182.189	8.026	#
37)		Toxaphene...	7.706	8.805	680405	635837	21.658	15.821	#
38)		Toxaphene...	8.017	8.839	468453	689146	3.495	10.652	#
39)		Toxaphene...	8.243	8.889	609400	5712561	2.453	54.998	#
40)		Toxaphene...	8.453	9.061	125281	346462	2.311	6.043	#
41)		Toxaphene...	8.549	0.000	37685	0	0.496	N.D.	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012028.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 21:53
Operator : MJB
Sample : 0B01012-CALK
Misc : A19K307, CHLOR 50 ppb
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:51:59 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012029.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 22:10
Operator : MJB
Sample : 0B01012-CALL
Misc : A19K308, CHLOR 100 ppb
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:52:07 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

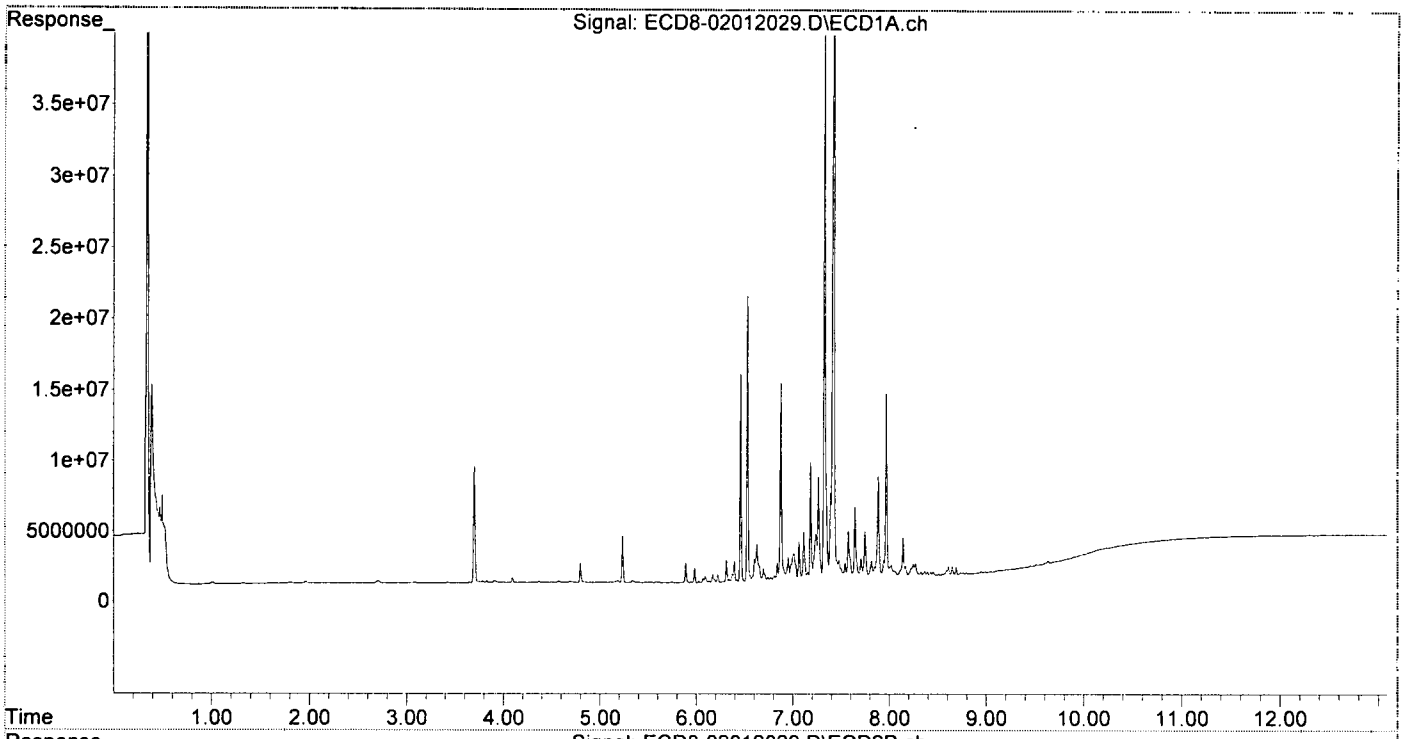
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.296	5.981	18285	139852	0.005	0.041	#
22)	S	DCBP (S)	9.511	10.548	233812	955797	BelowCal	BelowCal	
		Target Compounds							
2)		a-BHC	5.836	6.559f	40233	71861	0.009	0.093	#
3)		g-BHC	6.137	6.910	63520	453479	0.015	0.158	#
4)		b-BHC	6.187	7.003f	199442	1492404	0.115	0.860	#
5)		Heptachlor	6.528	7.274	20207396	18318616	4.917	4.350	
6)		d-BHC	6.339	7.224	174122	50713	0.157	0.112	#
7)		Aldrin	6.772	7.553	226592	217485	0.056	0.070	#
8)		Heptachlo...	7.241	7.998	3250852	1031319	0.880	0.287	#
9)		trans-Chl...	7.326	8.118	40982018	43332192	10.898	11.653	
10)		cis-Chlor...	7.420	8.225	50068645	35221978	13.634	9.999	#
11)		Endosulfa...	7.497f	8.297f	736681	699574	0.212	0.212	
12)		4,4'-DDE	7.497	8.321	736681	1037434	0.222	0.421	#
13)		Dieldrin	7.705	8.478	1396635	4214502	0.366	1.234	#
14)		Endrin	7.845	8.721	786672	558747	0.241	0.187	
15)		4,4'-DDD	7.886f	8.748	7145830	6934194	2.808	2.991	
16)		Endosulfa...	8.018	8.864	864677	919897	0.289	0.318	
17)		4,4'-DDT	8.087f	8.985	168344	497955	0.063	0.178	#
18)		Endrin Al...	8.327f	9.060f	300248	431257	0.114	0.163	#
19)		Endosulfa...	8.610	9.289	620034	357172	0.217	0.054	#
20)		Methoxychlor	8.452	9.458	275018	479698	0.228	0.079	#
21)		Endrin Ke...	8.795	9.683	93003	1040090	0.027	0.146	#
23)		Hexachlor...	3.084	3.681	60843	45754	0.016	0.009	#
24)		Hexachlor...	5.675	6.441	20347	54798	0.006	BelowCal	#
25)		Oxychlordane	7.154	7.920	536974	556603	BelowCal	0.174	
26)		2,4'-DDE	7.241	8.118	3250852	43332192	1.406	19.064	#
27)		trans-Non...	7.420	8.181	50068645	32197131	13.657	8.920	#
28)		2,4'-DDD	7.644f	8.478	5091456	4214502	2.629	2.202	
29)		2,4'-DDT	7.813f	8.721	1174381	558747	0.491	0.213	#
30)		cis-Nonac...	7.886	8.748	7145830	6934194	1.756	1.740	
31)		Mirex	8.547	9.683	65030	1040090	8199.102	0.250	#
32)		Chlordane...	7.326	8.118	40982018	43332192	102.332	99.734	
33)		Chlordane...	7.420	8.225	50068645	35221978	102.952	96.882	
34)		Chlordane...	7.968	8.889	13031823	11647984	100.093	98.084	
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.392	8.478f	6131421	4214502	374.566	143.015	#
37)		Toxaphene...	7.705	8.804	1396635	1182984	44.457	29.436	#
38)		Toxaphene...	8.000	8.840	701406	1251261	6.805	19.341	#
39)		Toxaphene...	8.245	8.889	862024	11647984	6.347	115.948	#
40)		Toxaphene...	8.452	9.060f	275018	431257	5.074	7.522	#
41)		Toxaphene...	8.547	9.458	65030	479698	0.855	7.262	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

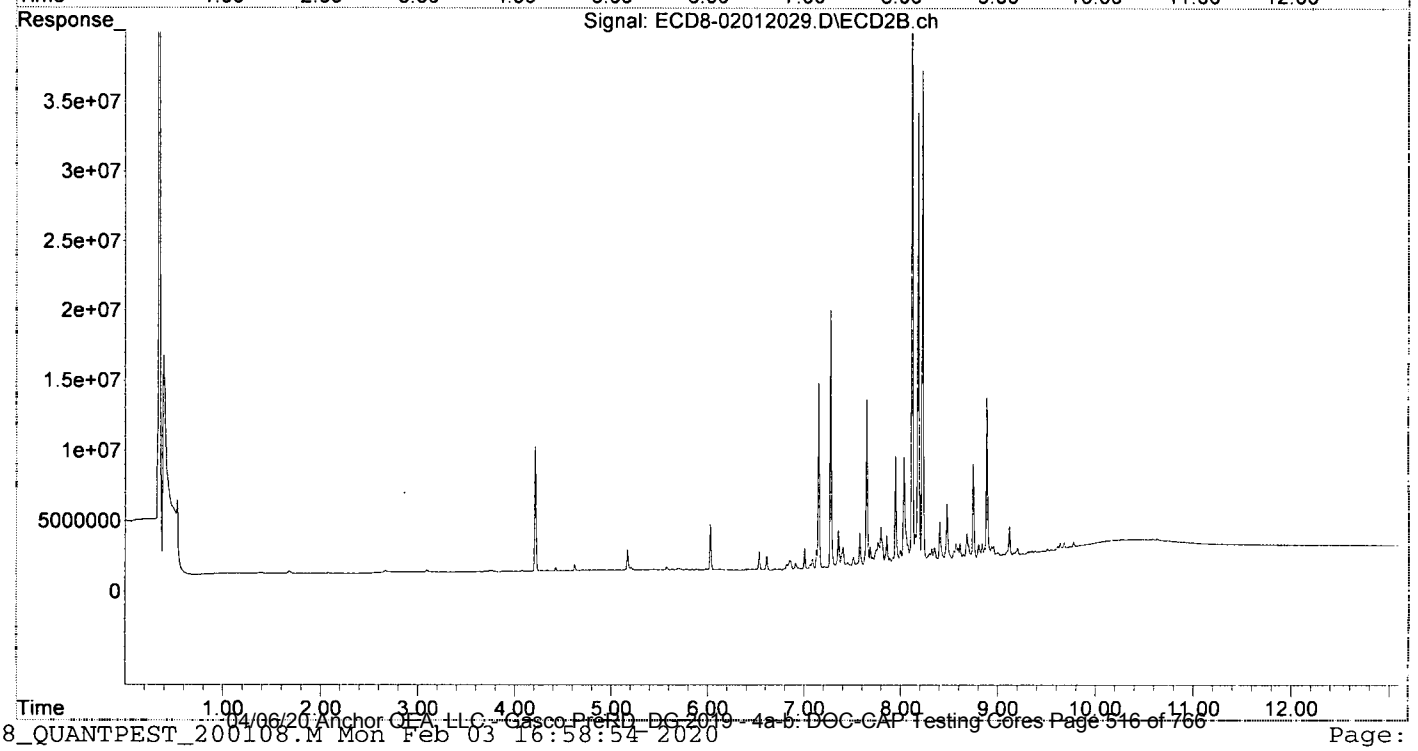
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012029.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 22:10
Operator : MJB
Sample : 0B01012-CALL
Misc : A19K308, CHLOR 100 ppb
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:52:07 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012030.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 22:27
Operator : MJB
Sample : 0B01012-CALM
Misc : A19K309, CHLOR 200 ppb
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:52:17 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

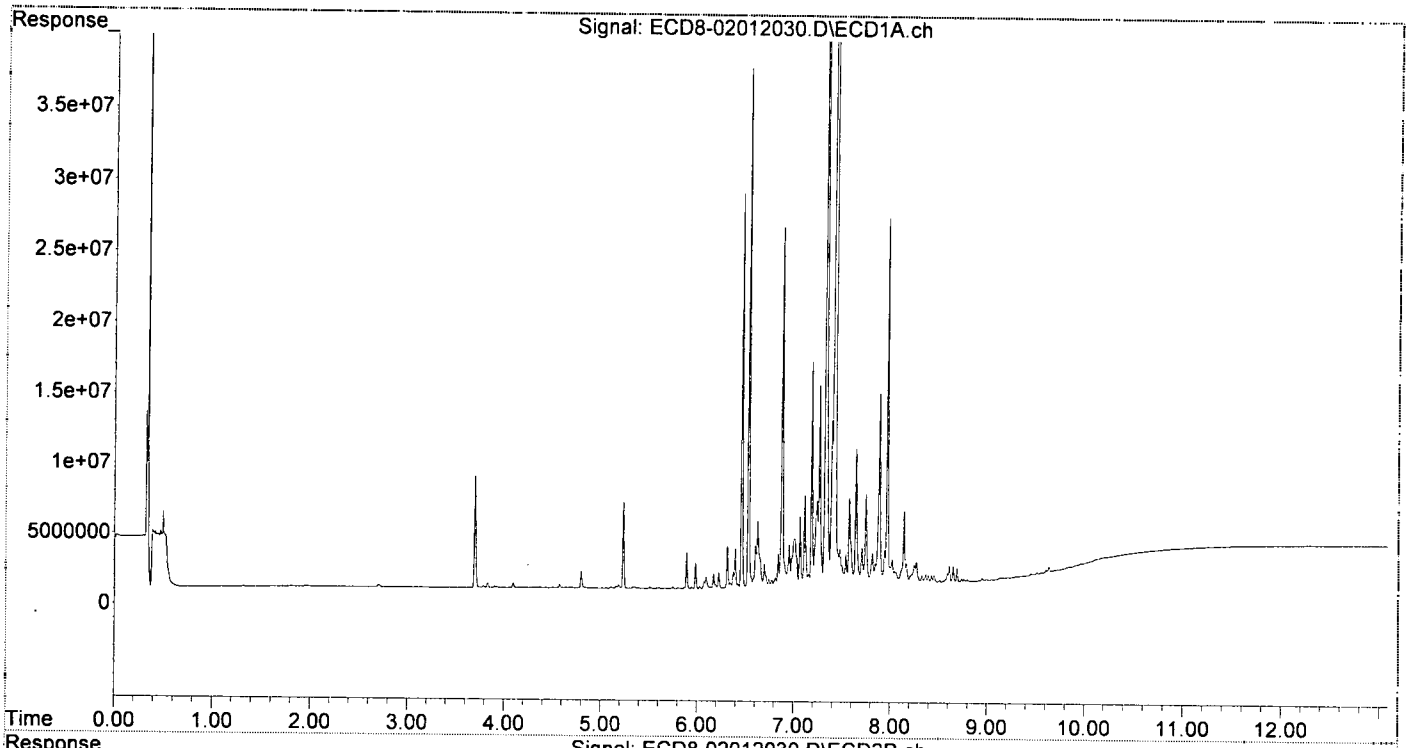
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	5.298	5.985	47307	82645	0.014	0.024 #
22) S	DCBP (S)	9.511	10.540	261414	1006590	BelowCal	BelowCal
	Target Compounds						
2)	a-BHC	5.844	6.612f	28614	1618187	0.006	0.455 #
3)	g-BHC	6.136	6.911	96732	803515	0.023	0.248 #
4)	b-BHC	6.188	7.004f	236177	2646179	0.136	1.524 #
5)	Heptachlor	6.529	7.275	36635645	36599791	8.914	8.692
6)	d-BHC	6.339	7.208	360238	227832	0.211	0.163
7)	Aldrin	6.772	7.551	462178	409648	0.114	0.122
8)	Heptachlo...	7.239	7.997	6047845	2063683	1.638	0.575 #
9)	trans-Chl...	7.326	8.118	79833983	83675101	21.229	22.503
10)	cis-Chlor...	7.420	8.225	97470804	70682705	26.542	20.065
11)	Endosulfa...	7.520	8.298f	852473	1384541	0.246	0.419 #
12)	4,4'-DDE	7.497	8.321	1403732	1966053	0.423	0.719 #
13)	Dieldrin	7.705	8.478	2595526	8029127	0.681	2.318 #
14)	Endrin	7.845	8.722	1495100	1090549	0.458	0.372
15)	4,4'-DDD	7.885f	8.748	13532749	13519868	5.317	5.748
16)	Endosulfa...	8.018	8.865	1716081	1735572	0.574	0.627
17)	4,4'-DDT	8.141f	8.985	5103729	801564	1.899	0.301 #
18)	Endrin Al...	8.327f	9.060f	540492	666830	0.205	0.252
19)	Endosulfa...	8.609	9.262	1134315	470085	0.396	0.099 #
20)	Methoxychlor	8.453	9.460	509291	551943	0.422	0.147 #
21)	Endrin Ke...	8.795	9.682	165163	1404203	0.048	0.275 #
23)	Hexachlor...	3.088	3.680	42365	7312	0.011	0.002 #
24)	Hexachlor...	5.670	6.467f	36523	59797	0.011	BelowCal #
25)	Oxychlordane	7.154	7.921	828720	1106402	0.090	0.346 #
26)	2,4'-DDE	7.239	8.118	6047845	83675101	2.616	36.812 #
27)	trans-Non...	7.420	8.181	97470804	64146004	26.586	17.771 #
28)	2,4'-DDD	7.643f	8.478	9626732	8029127	4.970	4.194
29)	2,4'-DDT	7.813f	8.722	2172447	1090549	0.908	0.463 #
30)	cis-Nonac...	7.885	8.748	13532749	13519868	3.325	3.393
31)	Mirex	8.547	9.682	127683	1404203	8199.076	0.426 #
32)	Chlordane...	7.326	8.118	79833983	83675101	199.346	192.589
33)	Chlordane...	7.420	8.225	97470804	70682705	200.422	194.421
34)	Chlordane...	7.967	8.889	25873455	22148725	198.725	186.507
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36)	Toxaphene...	7.391	8.478f	11738098	8029127	717.075	272.460 #
37)	Toxaphene...	7.705	8.804	2595526	2252914	82.619	56.058 #
38)	Toxaphene...	7.997	8.840	1230596	2268109	14.324	35.058 #
39)	Toxaphene...	8.245	8.889	1314715	22148725	13.325	222.465 #
40)	Toxaphene...	8.453	9.060f	509291	666830	9.396	11.632
41)	Toxaphene...	8.547	9.460	127683	551943	1.679	8.356 #
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

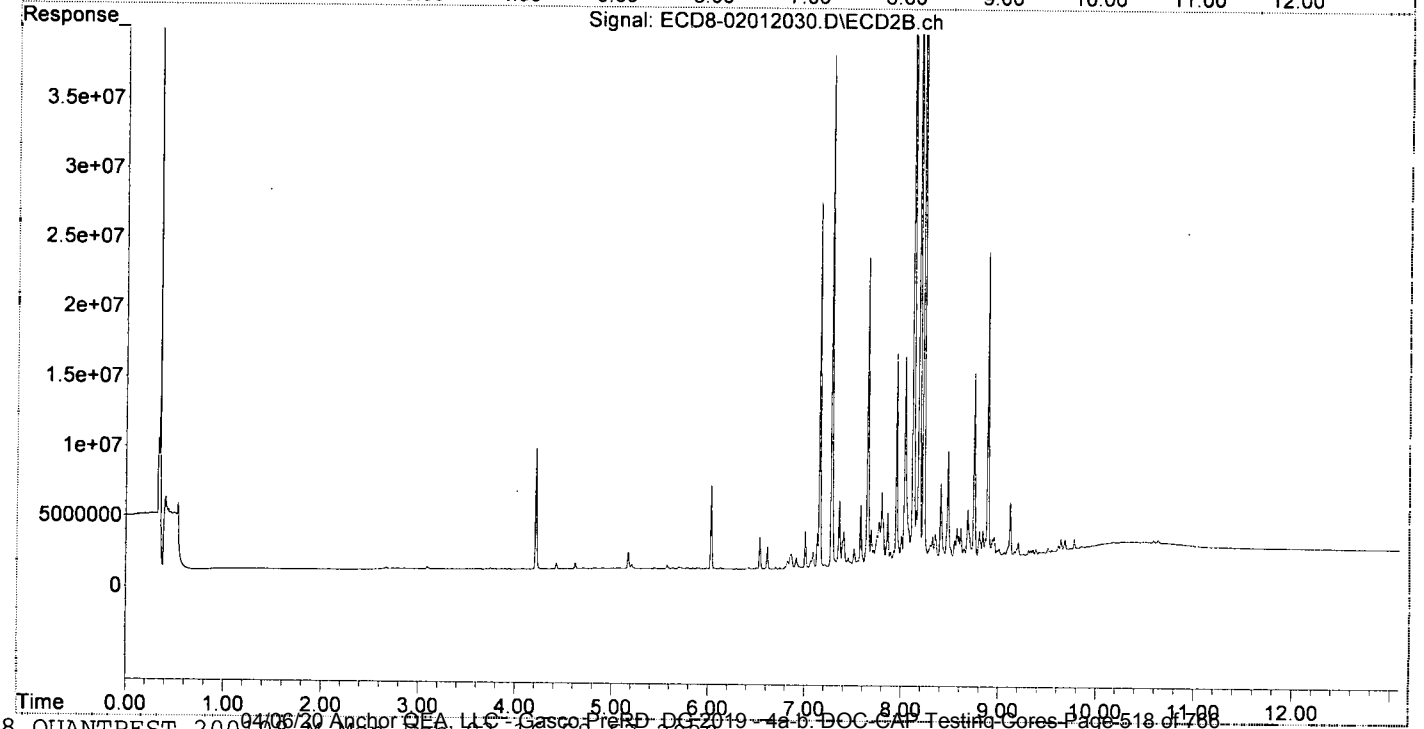
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012030.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 22:27
Operator : MJB
Sample : 0B01012-CALM
Misc : A19K309, CHLOR 200 ppb
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:52:17 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012031.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 22:43
Operator : MJB
Sample : 0B01012-CALN
Misc : A19K310, CHLOR 500 ppb
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:52:26 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

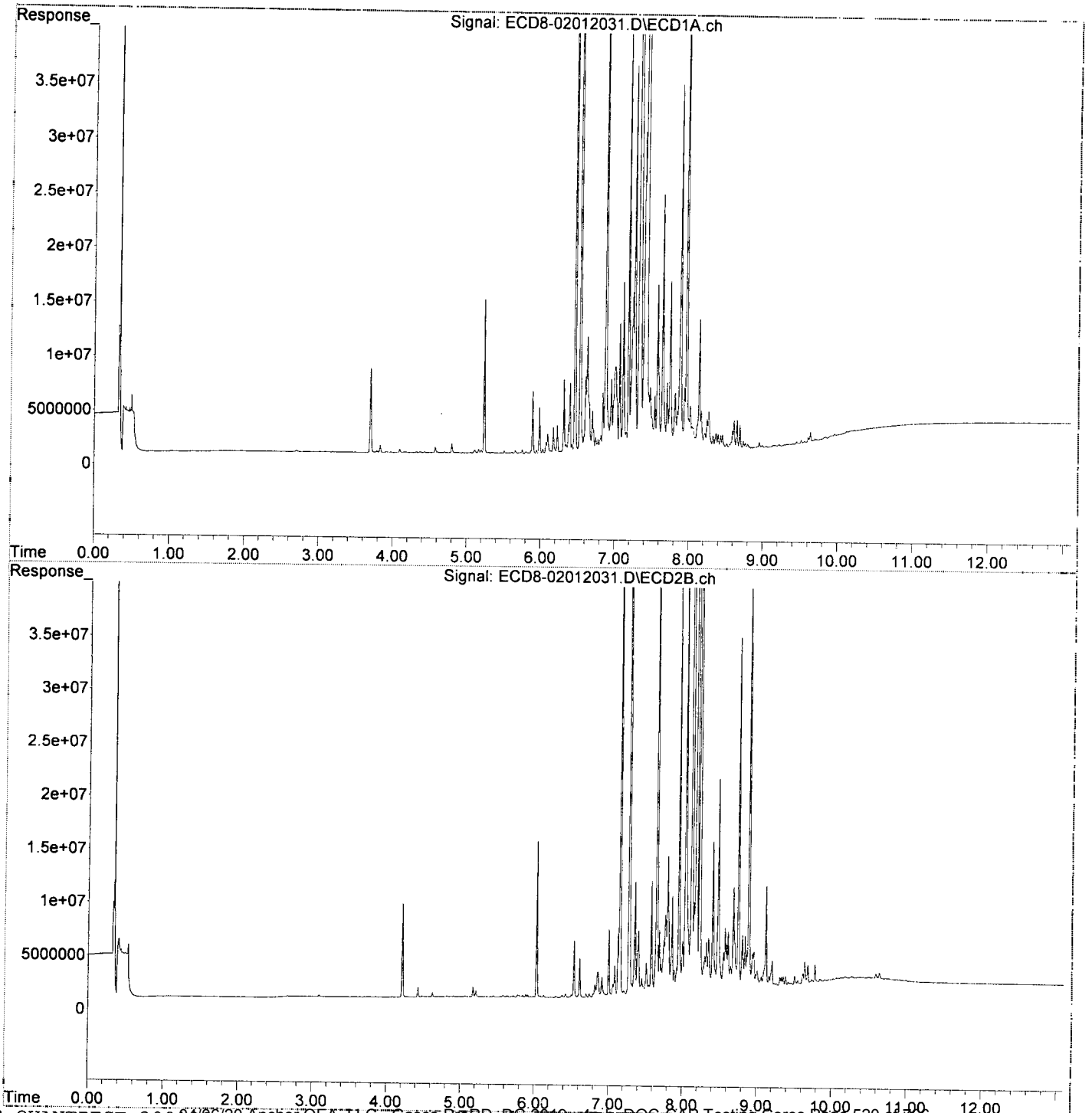
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.298	5.984	109867	106671	0.031	0.031	
22)	S	DCBP (S)	9.512	10.555	403486	1150905	BelowCal	0.062	
		Target Compounds							
2)		a-BHC	5.842	6.611f	42377	3578554	0.009	0.913	#
3)		g-BHC	6.136	6.911	205837	1873297	0.049	0.522	#
4)		b-BHC	6.222f	7.003f	2546716	6255390	1.462	3.603	#
5)		Heptachlor	6.529	7.275	90317006	93074444	21.975	22.104	
6)		d-BHC	6.339	7.208	792770	548028	0.336	0.254	
7)		Aldrin	6.772	7.544	1162442	975925	0.288	0.273	
8)		Heptachlo...	7.240	7.997	14641114	4963440	3.965	1.383	#
9)		trans-Chl...	7.326	8.117	194.2E6	218.0E6	51.650	58.620	
10)		cis-Chlor...	7.419	8.225	234.2E6	182.0E6	63.770	51.657	
11)		Endosulfa...	7.518	8.297	2055816	3534365	0.593	1.069	#
12)		4,4'-DDE	7.497	8.320	3139123	4767148	0.945	1.616	#
13)		Dieldrin	7.705	8.478	6264702	20031674	1.643	5.708	#
14)		Endrin	7.845	8.721	3653470	2598641	1.119	0.896	
15)		4,4'-DDD	7.885f	8.748	33602500	33177553	13.203	13.752	
16)		Endosulfa...	8.018	8.864	4049327	4007404	1.354	1.486	
17)		4,4'-DDT	8.086f	8.985	1101022	1752843	0.410	0.689	#
18)		Endrin Al...	8.326f	9.061f	1266260	1526727	0.481	0.577	
19)		Endosulfa...	8.609	9.286	2599391	679252	0.908	0.183	#
20)		Methoxychlor	8.452	9.460	1320684	852256	1.095	0.430	#
21)		Endrin Ke...	8.795	9.682	396697	2481189	0.115	0.657	#
23)		Hexachlor...	3.091	3.701f	44969	25180	0.012	0.005	#
24)		Hexachlor...	5.656f	6.467f	280051	54827	0.083	BelowCal	#
25)		Oxychlordane	7.151	7.920	1812015	2689234	0.410	0.841	#
26)		2,4'-DDE	7.240	8.117	14641114	218.0E6	6.332	95.897	#
27)		trans-Non...	7.419	8.181	234.2E6	164.1E6	63.876	45.459	#
28)		2,4'-DDD	7.643f	8.478	23582099	20031674	12.176	10.464	
29)		2,4'-DDT	7.813	8.721	5289165	2598641	2.210	1.169	#
30)		cis-Nonac...	7.885	8.748	33602500	33177553	8.257	8.325	
31)		Mirex	8.547	9.682	428754	2481189	8198.952	0.947	#
32)		Chlordane...	7.326	8.117	194.2E6	218.0E6	485.002	501.695	
33)		Chlordane...	7.419	8.225	234.2E6	182.0E6	481.528	500.533	
34)		Chlordane...	7.966	8.889	61785001	58496819	474.548	492.582	
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.391	8.478f	29361049	20031674	1793.654	679.755	#
37)		Toxaphene...	7.705	8.804	6264702	5397700	199.415	134.308	#
38)		Toxaphene...	7.996	8.840	2898693	5313123	38.033	82.124	#
39)		Toxaphene...	8.245	8.889	2776612	58496819	35.852	579.153	#
40)		Toxaphene...	8.452	9.061f	1320684	1526727	24.366	26.631	
41)		Toxaphene...	8.547	9.460	428754	852256	5.637	12.902	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012031.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 22:43
Operator : MJB
Sample : 0B01012-CALN
Misc : A19K310, CHLOR 500 ppb
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:52:26 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012032.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 23:00
Operator : MJB
Sample : 0B01012-CALO
Misc : A19K311, CHLOR 1000 ppb
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:52:34 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

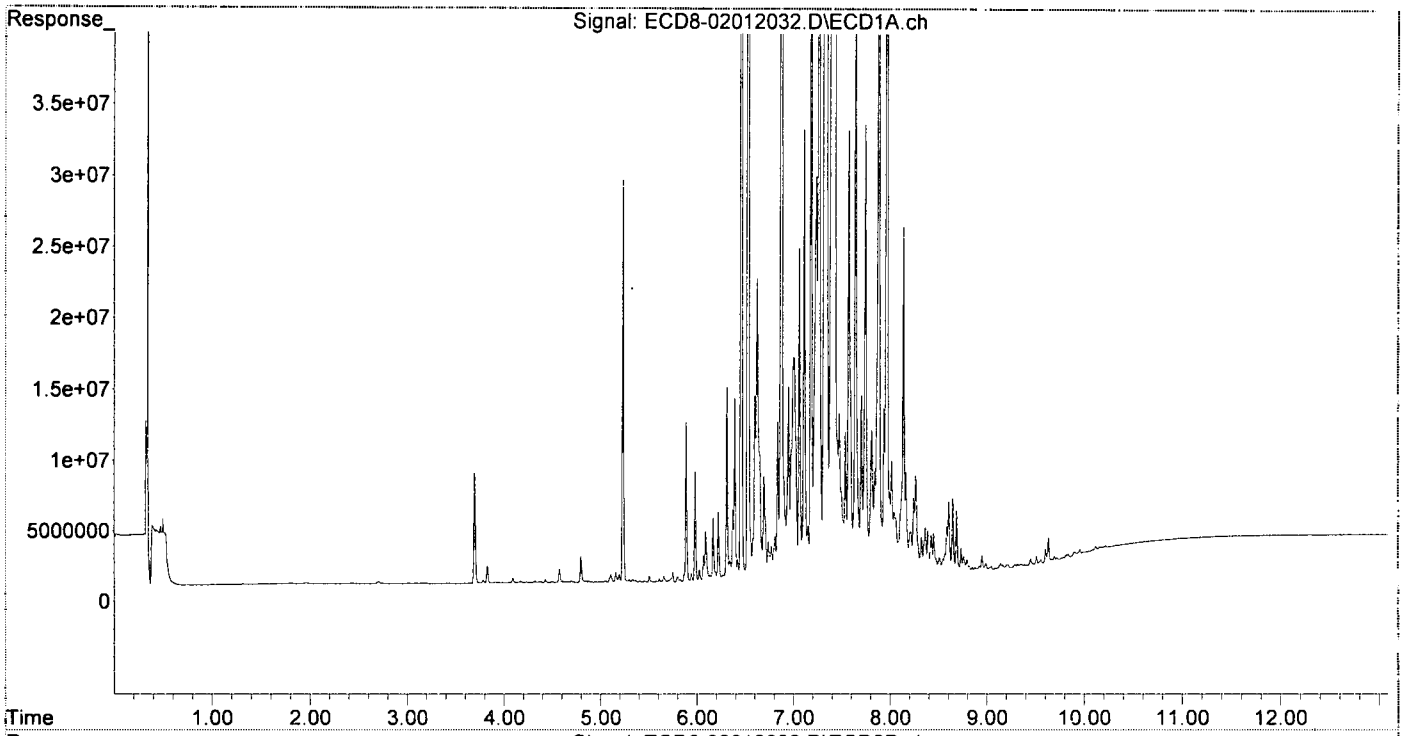
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.297	5.981	206224	122190	0.059	0.035	#
22)	S DCBP (S)	9.510	10.547	660494	961665	BelowCal	BelowCal	
	Target Compounds							
2)	a-BHC	5.824	6.611f	187012	6740232	0.040	1.650	#
3)	g-BHC	6.136	6.910	387178	3574704	0.093	0.957	#
4)	b-BHC	6.221f	6.979	4874664	395853	2.799	0.228	#
5)	Heptachlor	6.529	7.274	183.6E6	195.9E6	44.674	46.522	
6)	d-BHC	6.339	7.226	1376061	611948	0.505	0.272	#
7)	Aldrin	6.770	7.546	2275193	1813532	0.563	0.496	
8)	Heptachlo...	7.238	7.997	28209573	9618764	7.639	2.680	#
9)	trans-Chl...	7.325	8.118	407.1E6	461.1E6	108.247	124.010	
10)	cis-Chlor...	7.419	8.226	468.0E6	384.8E6	127.430	109.237	
11)	Endosulfa...	7.516	8.298f	3909946	6920995	1.127	2.094	#
12)	4,4'-DDE	7.496	8.321	5965358	9206495	1.796	3.030	#
13)	Dieldrin	7.704	8.478	12680776	43861813	3.325	12.342	#
14)	Endrin	7.844	8.722	7267481	5105052	2.227	1.765	
15)	4,4'-DDD	7.885f	8.748	68409568	68082411	26.880	27.221	
16)	Endosulfa...	8.018	8.864	7933861	7721187	2.652	2.884	
17)	4,4'-DDT	8.140f	8.986	24425440	3056450	9.086	1.219	#
18)	Endrin Al...	8.326f	9.060f	2488539	2615287	0.945	0.989	
19)	Endosulfa...	8.609	9.285	4963470	861427	1.734	0.256	#
20)	Methoxychlor	8.452	9.466	2726788	1086967	2.260	0.652	#
21)	Endrin Ke...	8.794	9.682	781850	4108753	0.226	1.233	#
23)	Hexachlor...	3.071	3.699	14573	34979	0.004	0.007	#
24)	Hexachlor...	5.655f	6.464	402456	62089	0.120	BelowCal	#
25)	Oxychlordane	7.151	7.920	3627381	5233846	1.002	1.637	#
26)	2,4'-DDE	7.238	8.118	28209573	461.1E6	12.201	202.866	#
27)	trans-Non...	7.419	8.181	468.0E6	340.8E6	127.641	94.407	#
28)	2,4'-DDD	7.642f	8.478	50345506	43861813	25.994	22.913	
29)	2,4'-DDT	7.812	8.722	10255127	5105052	4.285	2.339	#
30)	cis-Nonac...	7.885	8.748	68409568	68082411	16.811	17.084	
31)	Mirex	8.547	9.682	918194	4108753	0.173	1.732	#
32)	Chlordane...	7.325	8.118	407.1E6	461.1E6	1016.452	1061.320	
33)	Chlordane...	7.419	8.226	468.0E6	384.8E6	962.225	1058.450	
34)	Chlordane...	7.966	8.890	126.5E6	118.8E6	971.773	1000.759	
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.390	8.478f	56502268	43861813	3451.699	1488.407	#
37)	Toxaphene...	7.704	8.805	12680776	10263488	403.648	255.381	#
38)	Toxaphene...	7.995	8.840	5827238	10916602	79.685	168.736	#
39)	Toxaphene...	8.245	8.890	5284639	118.8E6	74.474	1135.609	#
40)	Toxaphene...	8.452	9.060f	2726788	2615287	50.308	45.619	
41)	Toxaphene...	8.547	9.466	918194	1086967	12.073	16.456	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

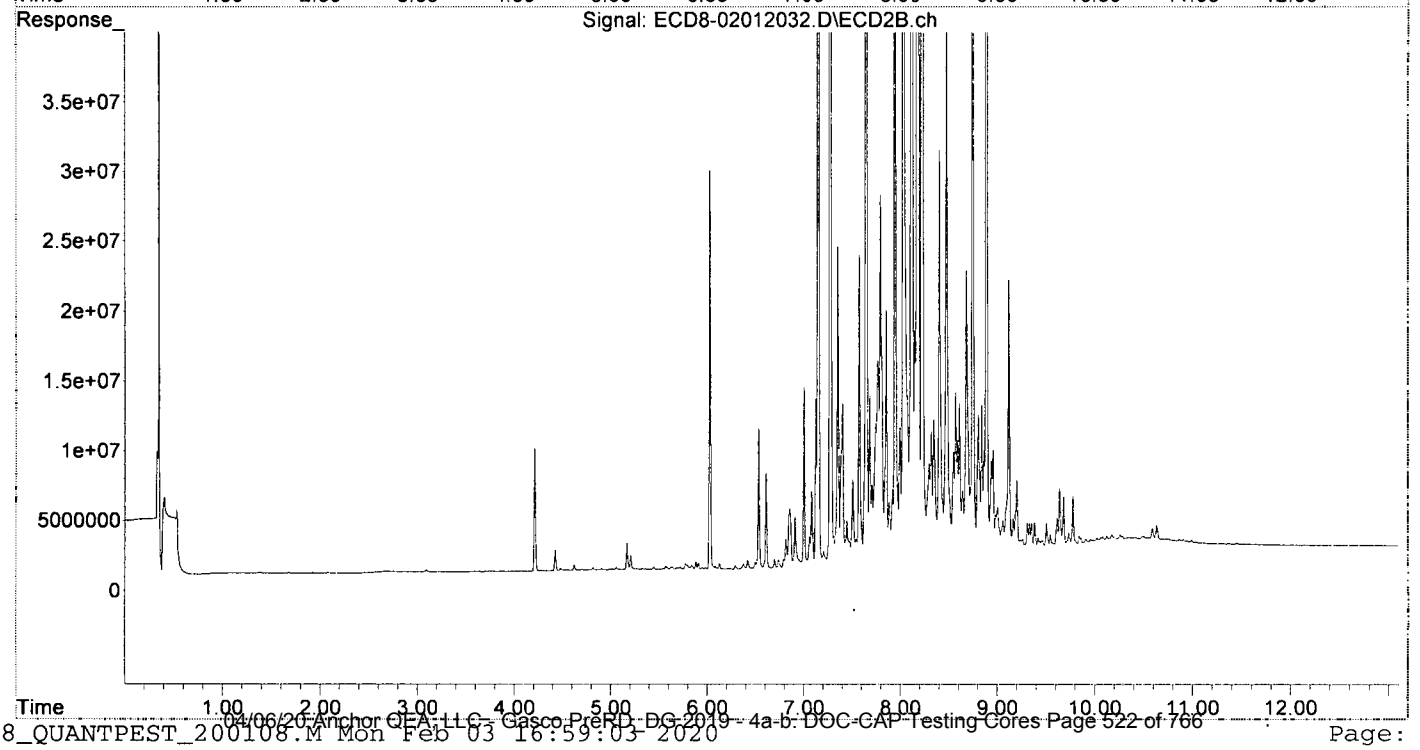
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012032.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 23:00
Operator : MJB
Sample : 0B01012-CALO
Misc : A19K311, CHLOR 1000 ppb
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:52:34 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012033.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 23:17
Operator : MJB
Sample : 0B01012-CALP
Misc : A19K306, CHLOR 2000 ppb
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:52:45 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

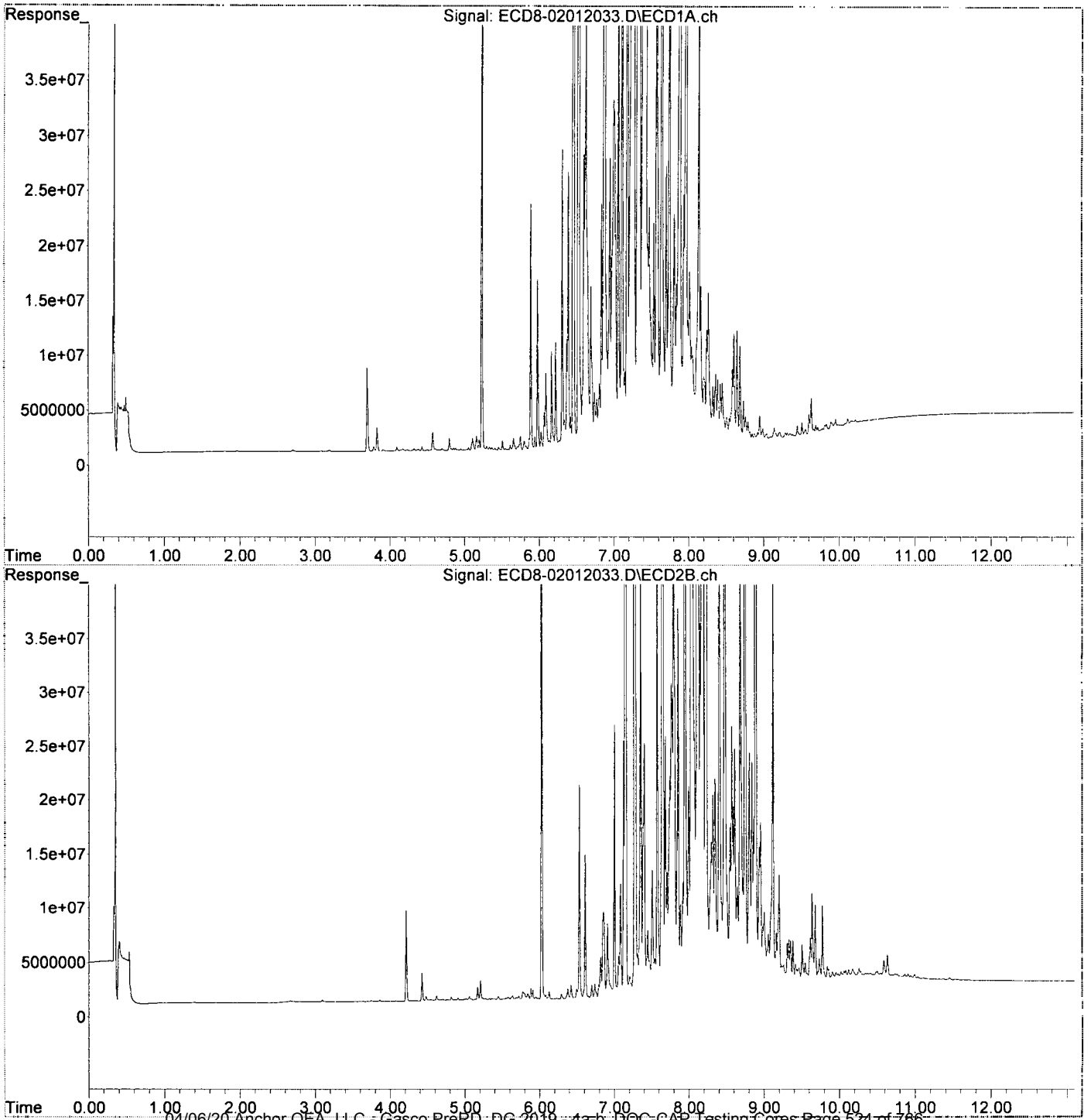
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.298	5.980	386961	124322	0.111	0.036	#
22)	S	DCBP (S)	9.511	10.548	1159083	1147394	0.119	0.060	#
		Target Compounds							
2)		a-BHC	5.824	6.611f	357462	13261627	0.076	3.165	#
3)		g-BHC	6.137	6.910	720392	6754311	0.173	1.768	#
4)		b-BHC	6.222f	6.978	9624376	781936	5.526	0.450	#
5)		Heptachlor	6.529	7.275	360.1E6	396.7E6	87.605	94.215	
6)		d-BHC	6.339	7.226	2521384	1196993	0.836	0.439	#
7)		Aldrin	6.771	7.546	4273588	3424384	1.058	0.926	
8)		Heptachlo...	7.239	7.996	56691957	19134242	15.352	5.330	#
9)		trans-Chl...	7.325	8.118	780.0E6	962.8E6	207.406	258.937	
10)		cis-Chlor...	7.420	8.225	959.8E6	801.0E6	261.356	227.371	
11)		Endosulfa...	7.538	8.299f	20165895	13926309	5.814	4.214	#
12)		4,4'-DDE	7.497	8.321	11803551	18201193	3.554	5.871	#
13)		Dieldrin	7.704	8.478	25213282	89897819	6.612	24.820	#
14)		Endrin	7.844	8.721	14531095	10503711	4.452	3.629	
15)		4,4'-DDD	7.885f	8.748	130.7E6	146.5E6	51.352	54.753	
16)		Endosulfa...	8.018	8.863	15569981	15841682	5.205	5.917	
17)		4,4'-DDT	8.086f	8.984	4459244	5944192	1.659	2.387	#
18)		Endrin Al...	8.327f	9.059f	4980847	5206868	1.892	1.970	
19)		Endosulfa...	8.609	9.284	9654587	1569721	3.373	0.539	#
20)		Methoxychlor	8.452	9.467	5212320	1964697	4.320	1.478	#
21)		Endrin Ke...	8.794	9.682	1616801	7713606	0.468	2.504	#
23)		Hexachlor...	3.087	3.680	42512	11195	0.011	0.002	#
24)		Hexachlor...	5.656f	6.462	1057378	74636	0.315	BelowCal	#
25)		Oxychlordane	7.151	7.920	6735744	10344973	2.014	3.235	#
26)		2,4'-DDE	7.239	8.118	56691957	962.8E6	24.520	423.592	#
27)		trans-Non...	7.420	8.181	959.8E6	730.0E6	261.789	202.243	
28)		2,4'-DDD	7.643f	8.478	99644686	89897819	51.448	46.962	
29)		2,4'-DDT	7.812	8.721	20874974	10503711	8.723	4.842	#
30)		cis-Nonac...	7.885	8.748	130.7E6	146.5E6	32.115	36.772	
31)		Mirex	8.547	9.682	1984719	7713606	0.613	3.470	#
32)		Chlordane...	7.325	8.118	780.0E6	962.8E6	1947.564	2216.071	
33)		Chlordane...	7.420	8.225	959.8E6	801.0E6	1973.498	2203.116	
34)		Chlordane...	7.966	8.889	253.1E6	258.6E6	1944.246	2177.312	
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.390	8.478f	111.9E6	89897819	6838.359	3050.593	#
37)		Toxaphene...	7.704	8.804	25213282	21968333	802.576	546.626	#
38)		Toxaphene...	7.996	8.840	11180820	21091744	155.922	326.011	#
39)		Toxaphene...	8.245	8.889	10122748	258.6E6	148.891	2292.826	#
40)		Toxaphene...	8.452	9.059f	5212320	5206868	96.164	90.824	
41)		Toxaphene...	8.547	9.467	1984719	1964697	26.096	29.744	
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012033.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 23:17
Operator : MJB
Sample : 0B01012-CALP
Misc : A19K306, CHLOR 2000 ppb
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:52:45 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012036.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 00:08
Operator : MJB
Sample : 0B01012-CALQ
Misc : A20B005, TOX 10 ppb
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:53:18 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

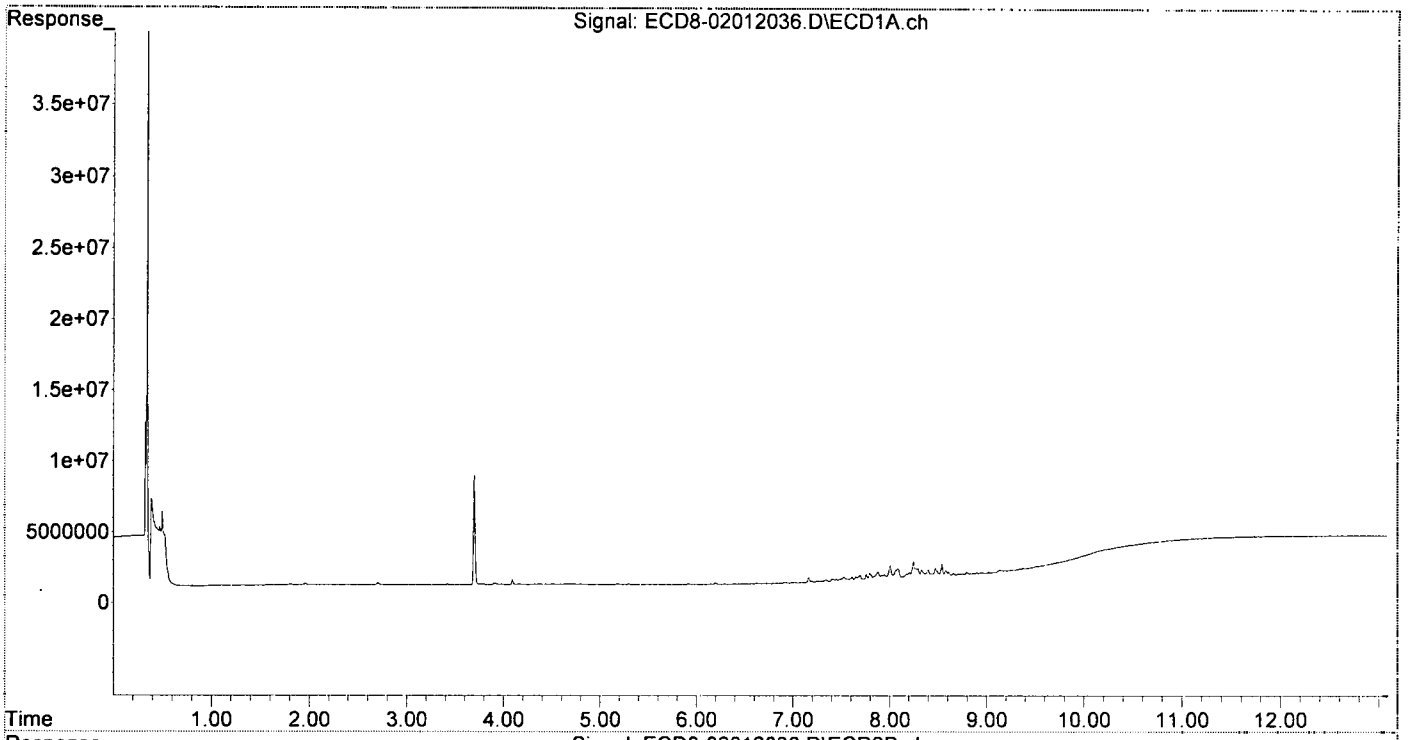
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.298	5.983	28712	46121	0.008	0.013	#
22)	S	DCBP (S)	9.508	10.533	128410	317278	BelowCal	BelowCal	
		Target Compounds							
2)		a-BHC	5.850	6.577	30270	18605	0.006	0.080	#
3)		g-BHC	6.149f	6.894	24417	14094	0.006	0.046	#
4)		b-BHC	6.193	6.958	125309	12830	0.072	0.007	#
5)		Heptachlor	6.529	7.275	12310	10539	0.003	0.003	
6)		d-BHC	0.000	7.223	0	22208	N.D.	0.104	#
7)		Aldrin	6.769	7.541	9112	11869	0.002	0.015	#
8)		Heptachlo...	7.256f	7.973	95672	80946	0.026	0.023	
9)		trans-Chl...	7.335	8.118	100371	99692	0.027	0.027	
10)		cis-Chlor...	7.412	8.206	163780	94248	0.045	0.027	#
11)		Endosulfa...	7.524	8.283	260752	107672	0.075	0.033	#
12)		4,4'-DDE	7.498	8.347	146908	129158	0.044	0.130	#
13)		Dieldrin	7.694	8.495	357259	113639	0.094	0.065	#
14)		Endrin	7.840	8.702	216021	291525	0.066	0.094	#
15)		4,4'-DDD	7.923	8.751	275869	173974	0.108	0.117	
16)		Endosulfa...	8.006	8.838	923034	694351	0.309	0.233	
17)		4,4'-DDT	8.085f	8.967	684810	319385	0.255	0.105	#
18)		Endrin Al...	8.294	9.081	605182	574323	0.230	0.217	
19)		Endosulfa...	8.609	9.283	273945	270709	0.096	0.019	#
20)		Methoxychlor	8.444	9.463	193265	749407	0.160	0.333	#
21)		Endrin Ke...	8.792	9.688	172825	386660	0.050	BelowCal	#
23)		Hexachlor...	3.074	3.699	21692	65726	0.006	0.014	#
24)		Hexachlor...	5.682	6.448	19881	34257	0.006	BelowCal	#
25)		Oxychlordane	7.161	7.924	362444	73186	BelowCal	0.023	
26)		2,4'-DDE	7.256	8.118	95672	99692	0.041	0.044	
27)		trans-Non...	7.412	8.192	163780	133847	0.045	0.037	
28)		2,4'-DDD	7.611	8.495	233550	113639	0.121	0.059	#
29)		2,4'-DDT	7.793	8.702	443186	291525	0.185	0.088	#
30)		cis-Nonac...	7.882	8.751	503875	173974	0.124	0.044	#
31)		Mirex	8.541	9.688	844549	386660	0.142	BelowCal	#
32)		Chlordane...	7.335	8.118	100371	99692	0.251	0.229	
33)		Chlordane...	7.412	8.206	163780	94248	0.337	0.259	
34)		Chlordane...	7.943f	8.907	287963	1372328	2.212	11.556	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.402	8.455	169507	273928	10.355	9.295	
37)		Toxaphene...	7.694	8.803	357259	364064	11.372	9.059	
38)		Toxaphene...	8.006	8.838	923034	694351	9.953	10.732	
39)		Toxaphene...	8.246	8.907	1100625	1372328	10.025	10.079	
40)		Toxaphene...	8.472	9.081	585949	574323	10.810	10.018	
41)		Toxaphene...	8.541	9.463	844549	749407	11.105	11.345	
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

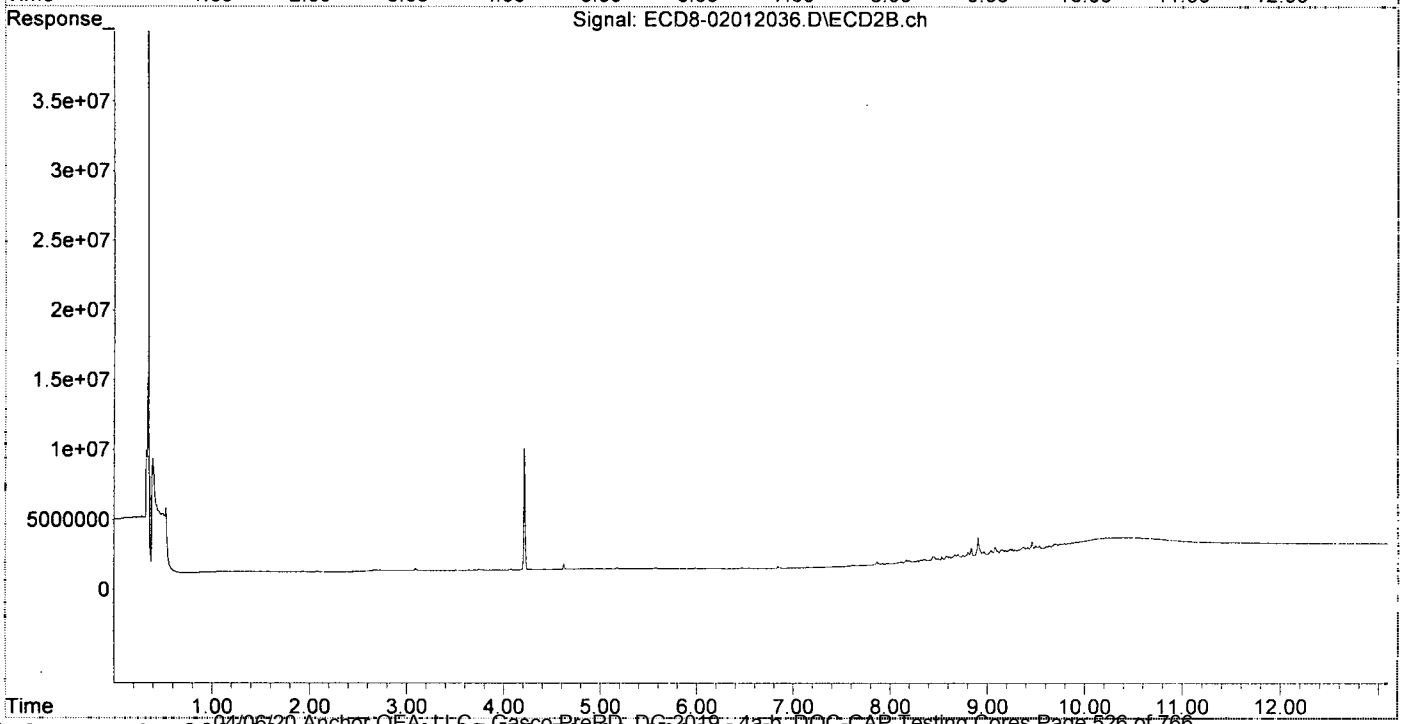
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012036.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 00:08
Operator : MJB
Sample : 0B01012-CALQ
Misc : A20B005, TOX 10 ppb
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:53:18 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012037.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 00:24
Operator : MJB
Sample : 0B01012-CALR
Misc : A19J417, TOX 50 ppb
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:53:30 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

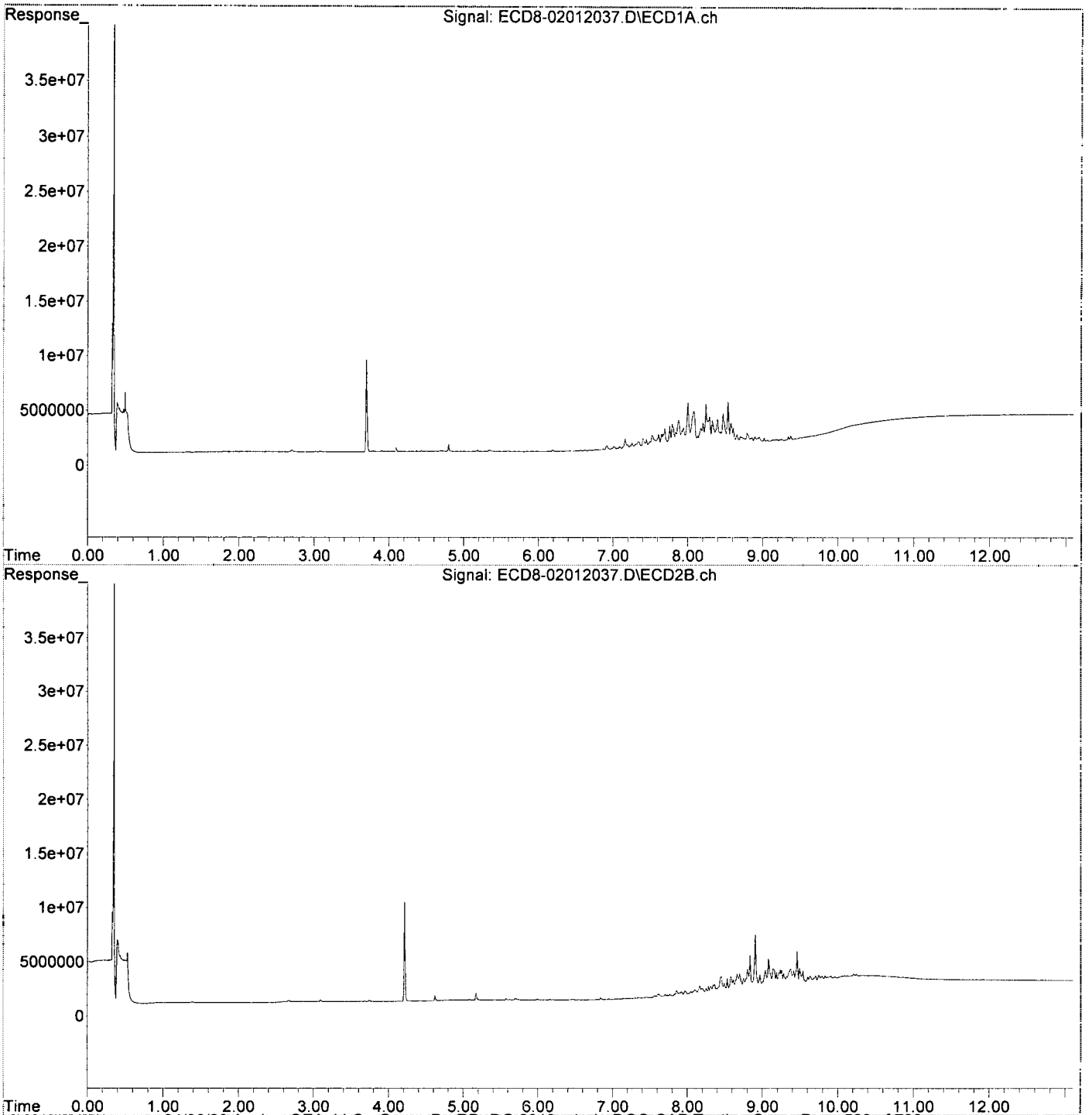
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	0.000	5.986	0	80701	N.D.	0.023	#
22)	S DCBP (S)	9.501	10.538	123893	268561	BelowCal	BelowCal	
	Target Compounds							
2)	a-BHC	5.850	6.585	34223	12874	0.007	0.079	#
3)	g-BHC	6.144f	6.891	32070	17922	0.008	0.047	#
4)	b-BHC	6.191	6.955	153691	30896	0.088	0.018	#
5)	Heptachlor	6.528	7.280	30551	22684	0.007	0.005	#
6)	d-BHC	6.368f	7.224	15502	35717	0.111	0.108	
7)	Aldrin	6.768	7.566f	57242	145324	0.014	0.051	#
8)	Heptachlo...	7.233	7.973	272107	386153	0.074	0.108	#
9)	trans-Chl...	7.312	8.100	380254	414869	0.101	0.112	
10)	cis-Chlor...	7.400f	8.206	862137	427444	0.235	0.121	#
11)	Endosulfa...	7.524	8.283	1126334	609838	0.325	0.185	#
12)	4,4'-DDE	7.482	8.347	442853	712924	0.133	0.317	#
13)	Dieldrin	7.693	8.494	1682151	768101	0.441	0.252	#
14)	Endrin	7.840	8.701	1294727	1523241	0.397	0.523	#
15)	4,4'-DDD	7.922	8.750	1429529	1057977	0.562	0.496	
16)	Endosulfa...	8.004	8.839	3882297	3122967	1.298	1.152	
17)	4,4'-DDT	8.087f	8.968	3122037	1285216	1.161	0.498	#
18)	Endrin Al...	8.293	9.083	2551552	2697421	0.969	1.020	
19)	Endosulfa...	8.609	9.283	1408400	1217934	0.492	0.398	
20)	Methoxychlor	8.444	9.464	1103179	3159313	0.914	2.596	#
21)	Endrin Ke...	8.793	9.707f	873614	745112	0.253	0.041	#
23)	Hexachlor...	3.084	3.679	67660	55651	0.017	0.011	#
24)	Hexachlor...	5.682	6.450	56647	61848	0.017	BelowCal	#
25)	Oxychlordane	7.160	7.922	925553	316825	0.122	0.099	
26)	2,4'-DDE	7.233	8.100	272107	414869	0.118	0.183	#
27)	trans-Non...	7.400	8.192	862137	491663	0.235	0.136	#
28)	2,4'-DDD	7.610	8.494	1169752	768101	0.604	0.401	#
29)	2,4'-DDT	7.793	8.701	2020564	1523241	0.844	0.666	
30)	cis-Nonac...	7.882	8.750	2370728	1057977	0.583	0.265	#
31)	Mirex	8.539	9.707f	3790810	745112	1.359	0.108	#
32)	Chlordane...	7.312	8.100	380254	414869	0.949	0.955	
33)	Chlordane...	7.400	8.206	862137	427444	1.773	1.176	#
34)	Chlordane...	7.943f	8.907	1620848	5032751	12.449	42.379	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.400	8.455	862137	1457893	52.668	49.472	
37)	Toxaphene...	7.693	8.804	1682151	1899624	53.545	47.267	
38)	Toxaphene...	8.004	8.839	3882297	3122967	52.019	48.271	
39)	Toxaphene...	8.246	8.907	3672237	5032751	49.647	47.982	
40)	Toxaphene...	8.473	9.083	2698036	2697421	49.777	47.051	
41)	Toxaphene...	8.539	9.464	3790810	3159313	49.844	47.829	
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012037.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 00:24
Operator : MJB
Sample : 0B01012-CALR
Misc : A19J417, TOX 50 ppb
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:53:30 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012038.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 00:41
Operator : MJB
Sample : 0B01012-CALS
Misc : A19J418, TOX 100 ppb
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:53:42 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

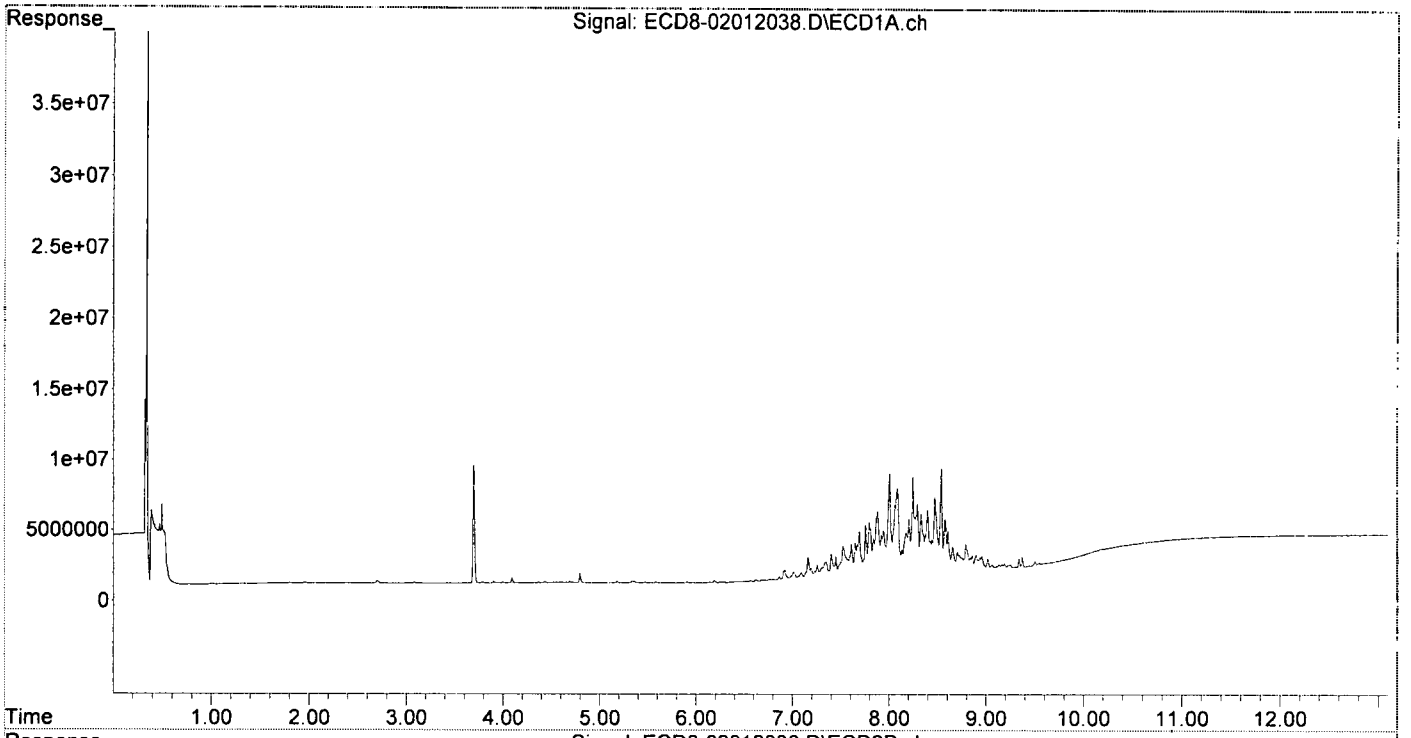
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.337f	5.984	125814	111210	0.036	0.032	
22)	S DCBP (S)	9.506	10.535	295577	948995	BelowCal	BelowCal	
	Target Compounds							
2)	a-BHC	5.838	6.581	57804	42176	0.012	0.086	#
3)	g-BHC	6.137	6.907	65176	16875	0.016	0.046	#
4)	b-BHC	6.188	6.975	184796	21326	0.106	0.012	#
5)	Heptachlor	6.527	7.279	61015	47680	0.015	0.011	
6)	d-BHC	6.353	7.221	41432	60629	0.119	0.115	
7)	Aldrin	6.766	7.567f	128145	224119	0.032	0.072	#
8)	Heptachlo...	7.232	7.973	547277	868398	0.148	0.242	#
9)	trans-Chl...	7.313	8.117	760167	729820	0.202	0.196	
10)	cis-Chlor...	7.428	8.207	808635	1016295	0.220	0.289	#
11)	Endosulfa...	7.523	8.282	2141456	1440157	0.617	0.436	#
12)	4,4'-DDE	7.498	8.347	1076140	1632568	0.324	0.612	#
13)	Dieldrin	7.693	8.495	3171817	1816907	0.832	0.551	#
14)	Endrin	7.837	8.701	2591666	3356589	0.794	1.159	#
15)	4,4'-DDD	7.921	8.750	2761819	2311026	1.085	1.031	
16)	Endosulfa...	8.004	8.838	7108085	6231660	2.376	2.325	
17)	4,4'-DDT	8.086f	8.967	6054794	2779527	2.252	1.106	#
18)	Endrin Al...	8.293	9.083	4910937	5637073	1.865	2.132	
19)	Endosulfa...	8.608	9.283	2795889	2773397	0.977	1.019	
20)	Methoxychlor	8.443	9.463	2273398	6347466	1.884	5.549	#
21)	Endrin Ke...	8.792	9.705f	1806739	1761161	0.523	0.402	
23)	Hexachlor...	3.084	3.679	76523	68887	0.020	0.014	#
24)	Hexachlor...	5.681	6.445	14947	39804	0.004	BelowCal	#
25)	Oxychlordane	7.160	7.923	1515082	758340	0.314	0.237	
26)	2,4'-DDE	7.232	8.117	547277	729820	0.237	0.321	#
27)	trans-Non...	7.400	8.193	1687426	1125647	0.460	0.312	#
28)	2,4'-DDD	7.610	8.495	2248412	1816907	1.161	0.949	
29)	2,4'-DDT	7.793	8.701	3773923	3356589	1.577	1.524	
30)	cis-Nonac...	7.880	8.750	4501580	2311026	1.106	0.580	#
31)	Mirex	8.539	9.705f	7293127	1761161	2.806	0.599	#
32)	Chlordane...	7.313	8.117	760167	729820	1.898	1.680	
33)	Chlordane...	7.428	8.207	808635	1016295	1.663	2.795	#
34)	Chlordane...	7.943f	8.906	3109836	10075815	23.886	84.845	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.400	8.455	1687426	3039636	103.084	103.147	
37)	Toxaphene...	7.693	8.803	3171817	4024499	100.964	100.139	
38)	Toxaphene...	8.004	8.838	7108085	6231660	97.914	96.322	
39)	Toxaphene...	8.245	8.906	6856793	10075815	98.669	99.857	
40)	Toxaphene...	8.472	9.083	5268375	5637073	97.198	98.328	
41)	Toxaphene...	8.539	9.463	7293127	6347466	95.894	96.095	
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

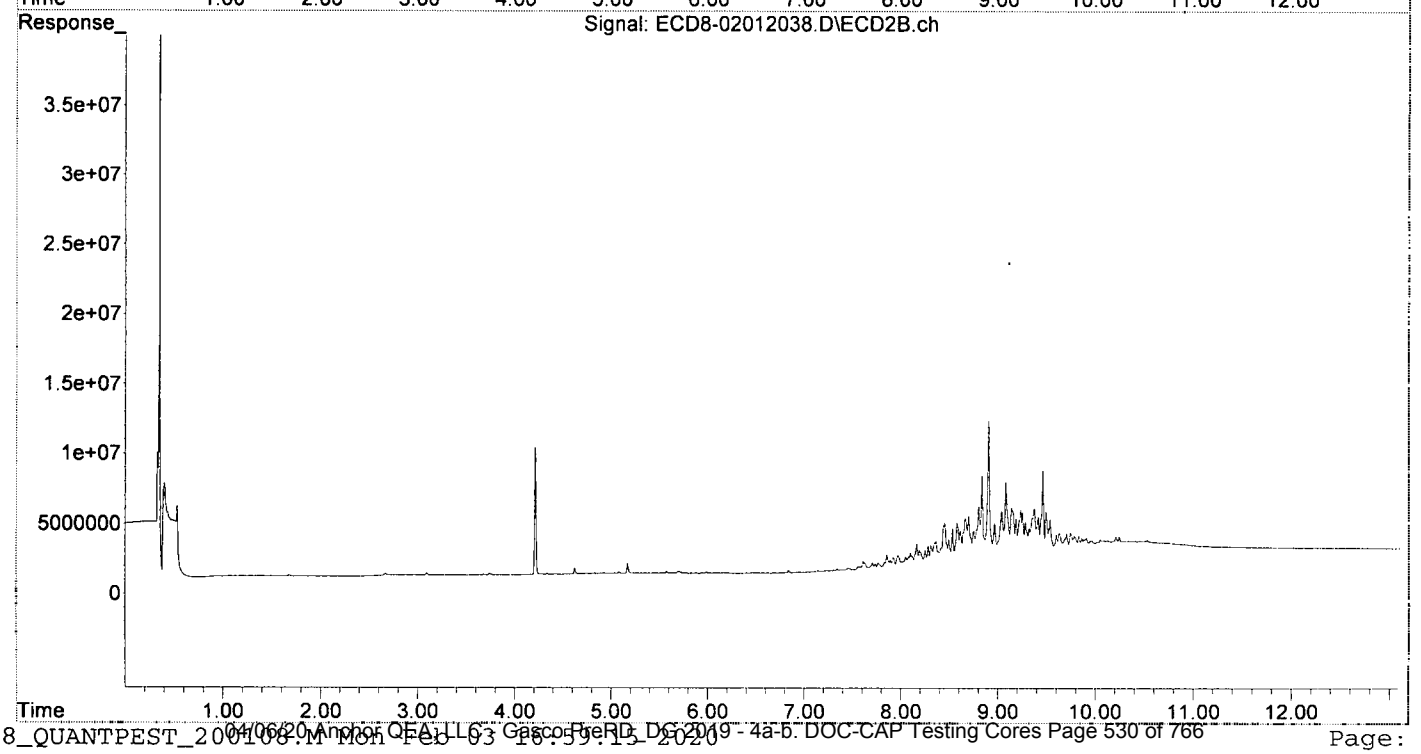
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012038.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 00:41
Operator : MJB
Sample : 0B01012-CALS
Misc : A19J418, TOX 100 ppb
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:53:42 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012039.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 00:58
Operator : MJB
Sample : 0B01012-CALT
Misc : A19J419, TOX 200 ppb
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:53:52 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

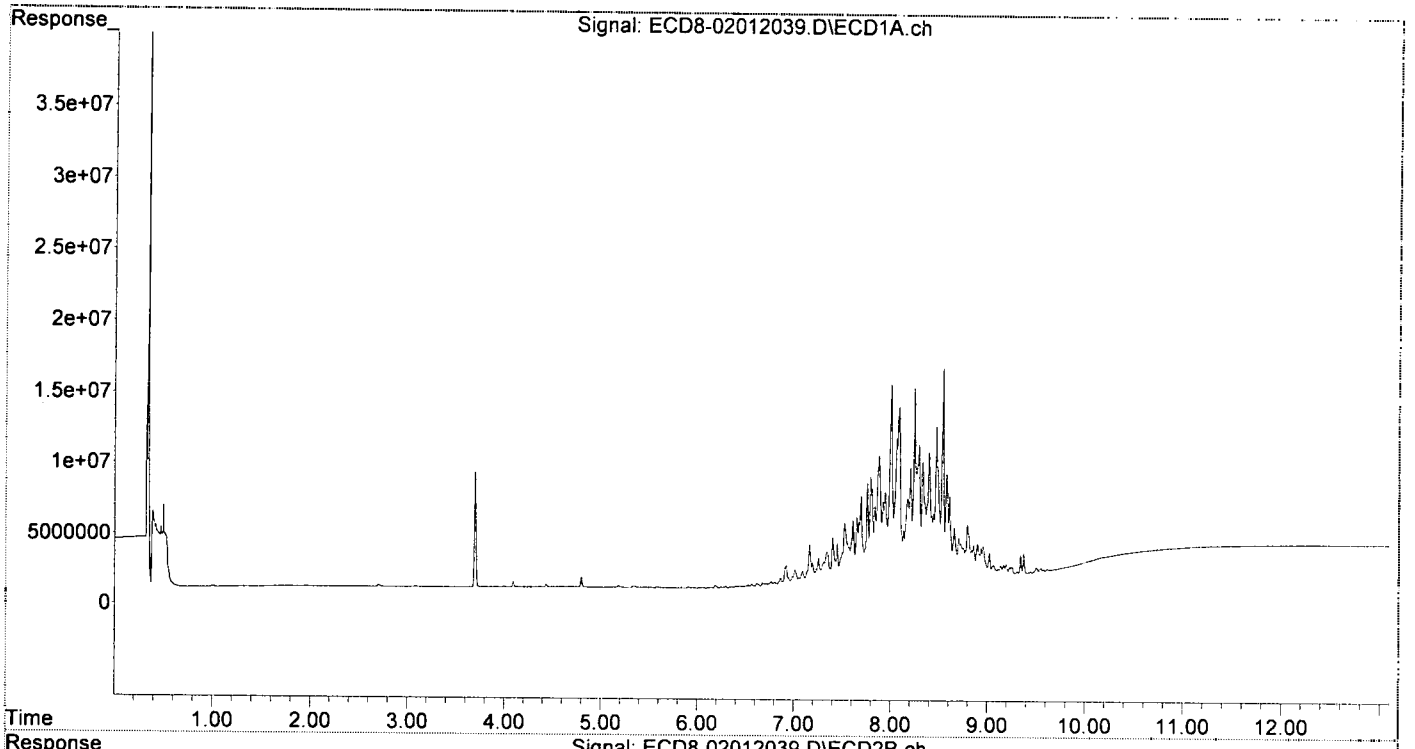
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.335f	5.983	123217	122865	0.035	0.036	
22)	S	DCBP (S)	9.501	10.534	298320	1363903	BelowCal	0.167	
		Target Compounds							
2)		a-BHC	5.835	6.585	73051	60242	0.015	0.090	#
3)		g-BHC	6.109	6.906	43247	28398	0.010	0.049	#
4)		b-BHC	6.187	6.974	212263	37354	0.122	0.022	#
5)		Heptachlor	6.527	7.277	132508	157291	0.032	0.037	
6)		d-BHC	6.328	7.220	43616	120052	0.119	0.132	
7)		Aldrin	6.767	7.566f	295018	508920	0.073	0.148	#
8)		Heptachlo...	7.231	7.972	1115354	1855621	0.302	0.517	#
9)		trans-Chl...	7.310	8.100	1526316	2157258	0.406	0.580	#
10)		cis-Chlor...	7.398f	8.206f	3210991	2125651	0.874	0.603	#
11)		Endosulfa...	7.522	8.282	4257071	2971466	1.227	0.899	#
12)		4,4'-DDE	7.495	8.345	2150202	3467118	0.647	1.200	#
13)		Dieldrin	7.692	8.493	6077785	3606437	1.594	1.061	#
14)		Endrin	7.837	8.700	5309717	6956419	1.627	2.406	#
15)		4,4'-DDD	7.920	8.750	5639872	4908688	2.216	2.135	
16)		Endosulfa...	8.003	8.860	13955658	3801613	4.665	1.409	#
17)		4,4'-DDT	8.086f	8.966	12260352	5462595	4.561	2.193	#
18)		Endrin Al...	8.291	9.082	9528641	11485592	3.619	4.344	
19)		Endosulfa...	8.608	9.282	5751213	5577948	2.009	2.136	
20)		Methoxychlor	8.443	9.464	4632463	12675921	3.839	11.286	#
21)		Endrin Ke...	8.792	9.705f	3675410	3363935	1.063	0.969	
23)		Hexachlor...	3.082	3.679	83118	81321	0.021	0.017	
24)		Hexachlor...	5.683	6.464	15191	103458	0.005	BelowCal	#
25)		Oxychlordane	7.160	7.923	2838980	1590223	0.745	0.497	#
26)		2,4'-DDE	7.231	8.100	1115354	2157258	0.482	0.949	#
27)		trans-Non...	7.398	8.192	3210991	2311635	0.876	0.640	#
28)		2,4'-DDD	7.609	8.493	4374168	3606437	2.258	1.884	
29)		2,4'-DDT	7.792	8.700	7396159	6956419	3.091	3.200	
30)		cis-Nonac...	7.880	8.750	8829364	4908688	2.170	1.232	#
31)		Mirex	8.539	9.705f	14823031	3363935	5.918	1.373	#
32)		Chlordane...	7.310	8.100	1526316	2157258	3.811	4.965	#
33)		Chlordane...	7.398f	8.206	3210991	2125651	6.603	5.847	
34)		Chlordane...	7.943f	8.905	6267582	19955192	48.139	168.036	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.398	8.454	3210991	5983532	196.158	203.045	
37)		Toxaphene...	7.692	8.803	6077785	8295354	193.465	206.409	
38)		Toxaphene...	8.003	8.838	13955658	12406840	195.484	191.770	
39)		Toxaphene...	8.245	8.905	13559149	19955192	201.678	200.350	
40)		Toxaphene...	8.471	9.082	10723722	11485592	197.846	200.345	
41)		Toxaphene...	8.539	9.464	14823031	12675921	194.901	191.903	
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

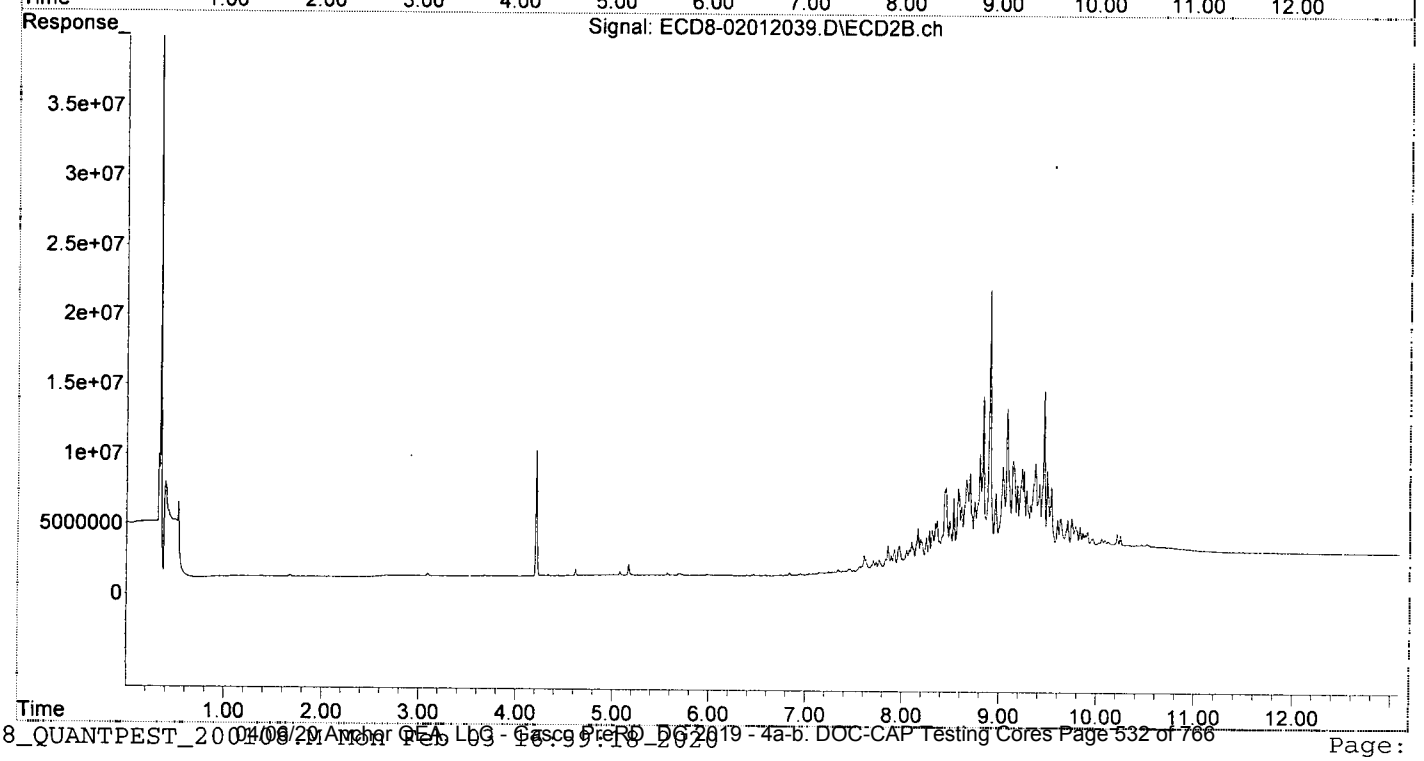
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012039.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 00:58
Operator : MJB
Sample : 0B01012-CALT
Misc : A19J419, TOX 200 ppb
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:53:52 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012040.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 1:15
Operator : MJB
Sample : 0B01012-CALU
Misc : A19J420, TOX 500 ppb
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:54:01 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

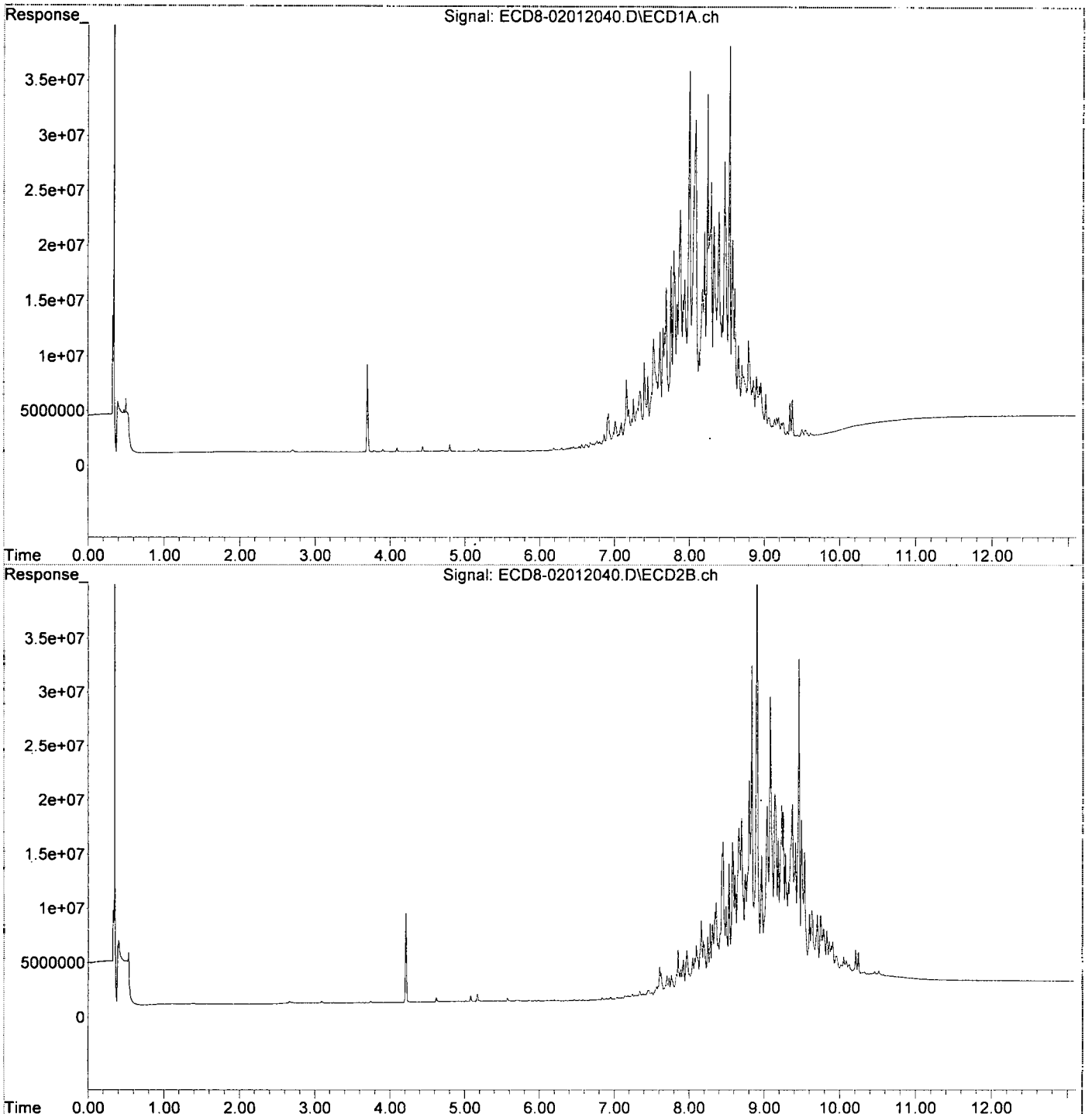
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	0.000	5.984	0	67232	N.D.	0.019	#
22)	S	DCBP (S)	9.498	10.516f	663992	1308073	BelowCal	0.140	
		Target Compounds							
2)		a-BHC	5.836	6.585	76051	56797	0.016	0.089	#
3)		g-BHC	6.107	6.892	24897	108271	0.006	0.070	#
4)		b-BHC	6.189	6.973	212064	50794	0.122	0.029	#
5)		Heptachlor	6.529	7.277	270194	277882	0.066	0.066	
6)		d-BHC	6.328	7.221	54685	203406	0.122	0.156	#
7)		Aldrin	6.767	7.567f	664250	928101	0.164	0.260	#
8)		Heptachlo...	7.231	7.971	2526905	4130605	0.684	1.151	#
9)		trans-Chl...	7.311	8.114	3466352	3397407	0.922	0.914	
10)		cis-Chlor...	7.430	8.206f	3487116	4551586	0.950	1.292	#
11)		Endosulfa...	7.522	8.282	9694049	6473882	2.795	1.959	#
12)		4,4'-DDE	7.496	8.346	4872356	7560471	1.467	2.506	#
13)		Dieldrin	7.692	8.493	14283516	8007139	3.746	2.312	#
14)		Endrin	7.837	8.701	12730407	15998632	3.901	5.515	#
15)		4,4'-DDD	7.921	8.750	13086619	10853860	5.142	4.637	
16)		Endosulfa...	8.002	8.860	33827874	8270665	11.308	3.091	#
17)		4,4'-DDT	8.086f	8.967	29386681	12522091	10.932	5.023	#
18)		Endrin Al...	8.292	9.082	23653936	27050867	8.985	10.232	
19)		Endosulfa...	8.608	9.282	13882162	12650660	4.850	4.931	
20)		Methoxychlor	8.442	9.463	11479871	30451142	9.514	26.599	#
21)		Endrin Ke...	8.791	9.704f	9014181	6779793	2.608	2.175	
23)		Hexachlor...	3.083	3.678	53097	37879	0.014	0.008	#
24)		Hexachlor...	5.717f	6.467f	25603	83921	0.008	BelowCal	#
25)		Oxychlordane	7.160	7.922	6059995	3262469	1.794	1.020	#
26)		2,4'-DDE	7.231	8.114	2526905	3397407	1.093	1.495	#
27)		trans-Non...	7.399	8.191	7624274	4942774	2.080	1.369	#
28)		2,4'-DDD	7.609	8.493	10357973	8007139	5.348	4.183	
29)		2,4'-DDT	7.792	8.701	17601445	15998632	7.355	7.365	
30)		cis-Nonac...	7.879	8.750	21268594	10853860	5.226	2.724	#
31)		Mirex	8.538	9.704f	35990464	6779793	14.680	3.020	#
32)		Chlordane...	7.311	8.114	3466352	3397407	8.655	7.820	
33)		Chlordane...	7.430	8.206	3487116	4551586	7.170	12.520	#
34)		Chlordane...	7.941f	8.905	14882734	48832915	114.309	411.206	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.399	8.454	7624274	13991055	465.764	474.773	
37)		Toxaphene...	7.692	8.802	14283516	19375133	454.666	482.101	
38)		Toxaphene...	8.002	8.837	33827874	30083885	479.765	465.001	
39)		Toxaphene...	8.245	8.905	31701311	48832915	479.409	486.047	
40)		Toxaphene...	8.471	9.082	25454970	27050867	469.629	471.852	
41)		Toxaphene...	8.538	9.463	35990464	30451142	473.222	461.005	
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012040.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 1:15
Operator : MJB
Sample : 0B01012-CALU
Misc : A19J420, TOX 500 ppb
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:54:01 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012041.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 1:32
Operator : MJB
Sample : 0B01012-CALV
Misc : A19J421, TOX 1000 ppb
ALS Vial : 37 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:54:11 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

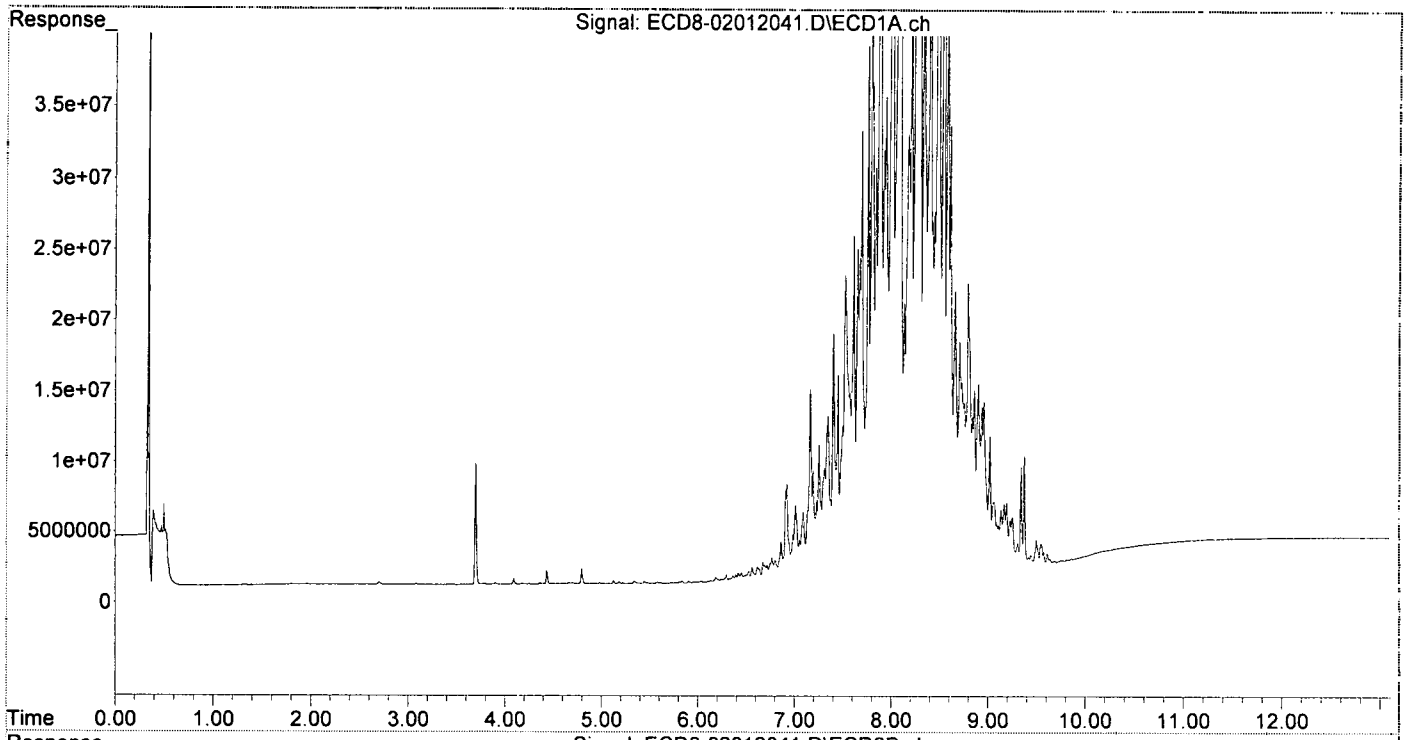
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.302	5.986	16607	100445	0.005	0.029	#
22)	S	DCBP (S)	9.499	10.516f	1649629	2332562	0.311	0.647	#
		Target Compounds							
2)		a-BHC	5.836	6.585	166844	115621	0.035	0.103	#
3)		g-BHC	6.106	6.894	61658	294713	0.015	0.118	#
4)		b-BHC	6.188	6.975	309269	181982	0.178	0.105	#
5)		Heptachlor	6.528	7.276	627923	724657	0.153	0.172	
6)		d-BHC	6.350	7.217	185088	504638	0.160	0.242	#
7)		Aldrin	6.767	7.567f	1497579	2036963	0.371	0.556	#
8)		Heptachlo...	7.231	7.971	5365604	8737584	1.453	2.434	#
9)		trans-Chl...	7.311	8.099f	7651919	10181490	2.035	2.738	#
10)		cis-Chlor...	7.427	8.205f	7608852	9894908	2.072	2.809	#
11)		Endosulfa...	7.522	8.281	21178196	14026371	6.105	4.244	#
12)		4,4'-DDE	7.496	8.345	10579053	17160701	3.186	5.544	#
13)		Dieldrin	7.691	8.492	31290692	17845581	8.205	5.093	#
14)		Endrin	7.836	8.700	28664598	38302390	8.783	13.055	#
15)		4,4'-DDD	7.921	8.750	29841618	25476144	11.726	10.655	
16)		Endosulfa...	8.002	8.860	74869389	18631269	25.027	6.952	#
17)		4,4'-DDT	8.086f	8.967	65351702	29100556	24.310	11.515	#
18)		Endrin Al...	8.290	9.081	52158812	63084241	19.812	23.862	
19)		Endosulfa...	8.607	9.281	31270534	28984869	10.925	11.282	
20)		Methoxychlor	8.443	9.463	25312073	70673400	20.977	57.829	#
21)		Endrin Ke...	8.791	9.705f	20114389	15575717	5.819	5.255	
23)		Hexachlor...	3.082	3.678	64091	55233	0.016	0.011	#
24)		Hexachlor...	5.679	6.436	24017	45780	0.007	BelowCal	#
25)		Oxychlordane	7.160	7.922	13266192	7080465	4.139	2.214	#
26)		2,4'-DDE	7.231	8.099	5365604	10181490	2.321	4.479	#
27)		trans-Non...	7.427	8.191	7608852	10587314	2.075	2.933	#
28)		2,4'-DDD	7.609	8.492	23887614	17845581	12.334	9.322	
29)		2,4'-DDT	7.792	8.700	39311588	38302390	16.427	17.373	
30)		cis-Nonac...	7.880	8.750	47923221	25476144	11.776	6.393	#
31)		Mirex	8.538	9.705f	80425541	15575717	33.134	7.249	#
32)		Chlordane...	7.311	8.099	7651919	10181490	19.107	23.434	
33)		Chlordane...	7.427	8.205	7608852	9894908	15.646	27.217	#
34)		Chlordane...	7.941f	8.905	33595938	114.1E6	258.038	960.856	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.399	8.453	17126108	32020907	1046.226	1086.598	
37)		Toxaphene...	7.691	8.802	31290692	44952411	996.029	1118.527	
38)		Toxaphene...	8.002	8.837	74869389	70006747	1072.289	1082.081	
39)		Toxaphene...	8.245	8.905	71267141	114.1E6	1079.654	1093.352	
40)		Toxaphene...	8.471	9.081	57604978	63084241	1062.776	1100.387	
41)		Toxaphene...	8.538	9.463	80425541	70673400	1057.478	1069.936	
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

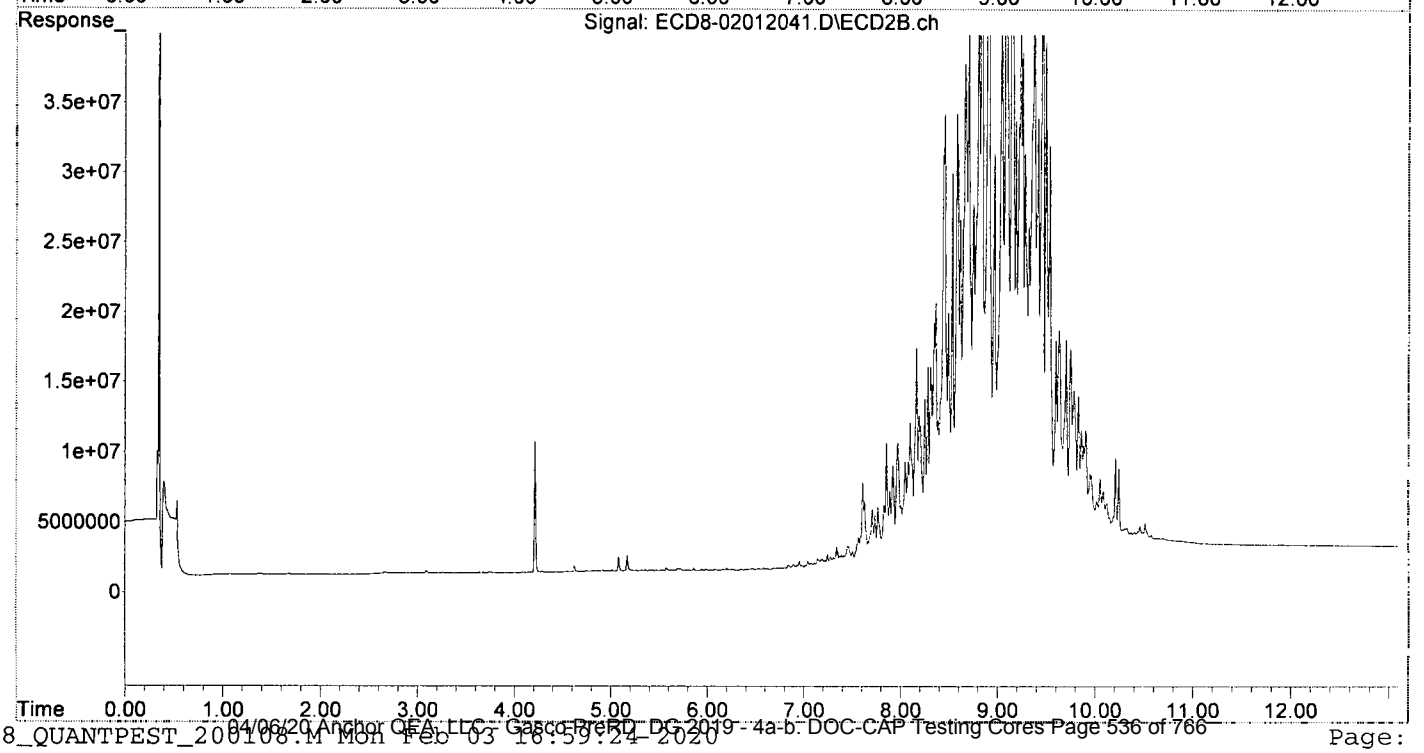
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012041.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 1:32
Operator : MJB
Sample : 0B01012-CALV
Misc : A19J421, TOX 1000 ppb
ALS Vial : 37 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:54:11 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012042.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 1:48
Operator : MJB
Sample : 0B01012-CALW
Misc : A19J416, TOX 200 ppb
ALS Vial : 38 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:54:20 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

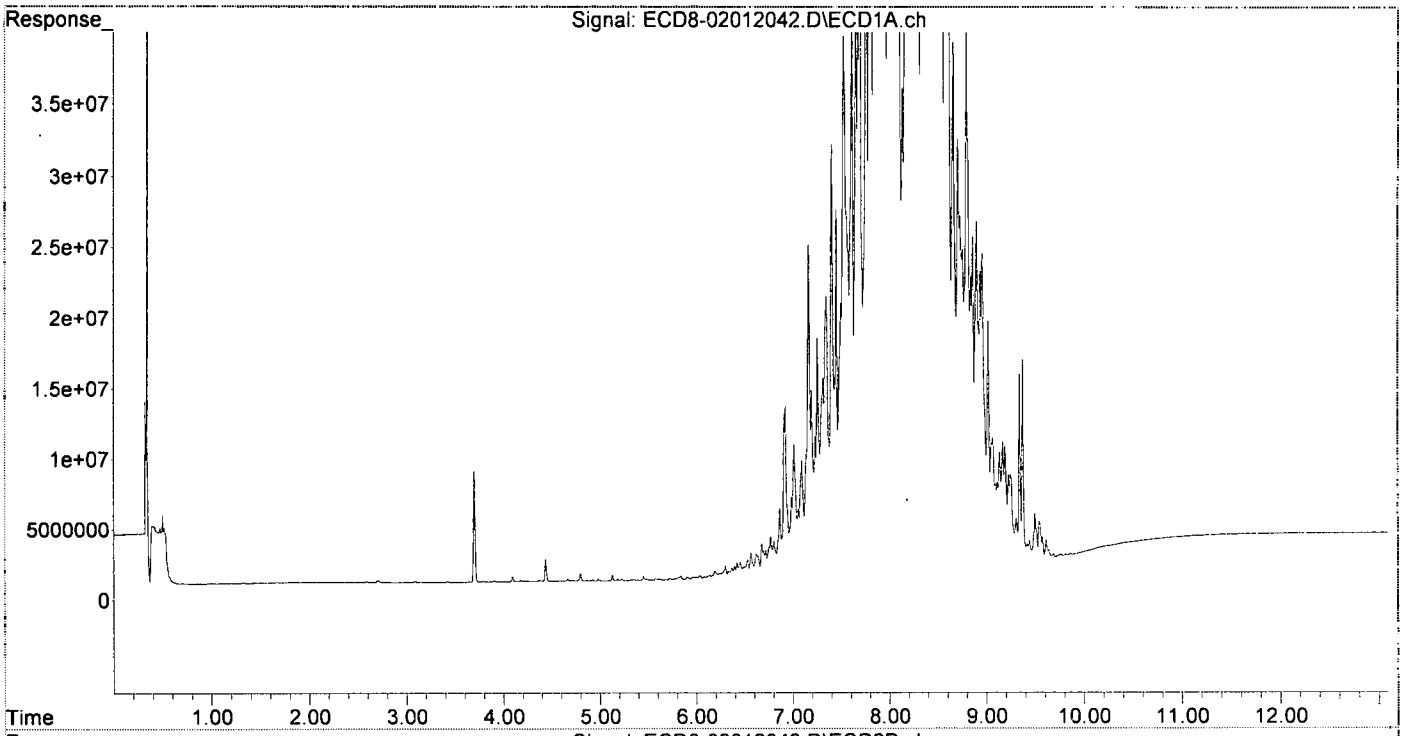
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.279	5.985	23392	70189	0.007	0.020	#
22)	S DCBP (S)	9.497	10.515f	3160340	2729530	0.903	0.844	
	Target Compounds							
2)	a-BHC	5.835	6.585	278100	197970	0.059	0.122	#
3)	g-BHC	6.133	6.893	210680	476559	0.051	0.164	#
4)	b-BHC	6.188	6.975	460960	290996	0.265	0.168	#
5)	Heptachlor	6.528	7.276	1139038	1138068	0.277	0.270	
6)	d-BHC	6.328	7.218	411368	746437	0.226	0.311	#
7)	Aldrin	6.767	7.535	2652776	1663406	0.657	0.456	#
8)	Heptachlo...	7.231	7.970	9598272	14788527	2.599	4.120	#
9)	trans-Chl...	7.311	8.098f	13687265	18209884	3.640	4.897	#
10)	cis-Chlor...	7.427	8.205f	12990010	17418779	3.537	4.945	#
11)	Endosulfa...	7.520	8.282	37628400	25656494	10.848	7.763	#
12)	4,4'-DDE	7.495	8.345	18930646	31159611	5.701	9.908	#
13)	Dieldrin	7.691	8.493	57148633	32537162	14.986	9.205	#
14)	Endrin	7.836	8.700	52527984	72409723	16.095	24.253	#
15)	4,4'-DDD	7.920	8.750	53971774	47193248	21.207	19.267	
16)	Endosulfa...	8.003	8.859	134.9E6	34109250	45.079	12.623	#
17)	4,4'-DDT	8.131f	8.966	33820069	53128545	12.581	20.577	#
18)	Endrin Al...	8.290	9.082	94278993	117.9E6	35.811	44.588	
19)	Endosulfa...	8.607	9.282	56874670	53457856	19.871	20.540	
20)	Methoxychlor	8.442	9.462	46714915	131.6E6	38.715	98.872	#
21)	Endrin Ke...	8.790	9.704f	37377099	28668518	10.814	9.778	
23)	Hexachlor...	3.081	3.679	62396	46375	0.016	0.010	#
24)	Hexachlor...	5.677	6.433	36317	78535	0.011	BelowCal	#
25)	Oxychlordane	7.160	7.922	23154517	12678184	7.355	3.964	#
26)	2,4'-DDE	7.231	8.098	9598272	18209884	4.151	8.011	#
27)	trans-Non...	7.427	8.191	12990010	18718915	3.543	5.186	#
28)	2,4'-DDD	7.608	8.493	41463942	32537162	21.409	16.997	
29)	2,4'-DDT	7.791	8.700	71100081	72409723	29.710	32.019	
30)	cis-Nonac...	7.879	8.750	87530613	47193248	21.509	11.842	#
31)	Mirex	8.537	9.704f	145.3E6	28668518	60.232	13.508	#
32)	Chlordane...	7.311	8.098	13687265	18209884	34.177	41.912	
33)	Chlordane...	7.427	8.205f	12990010	17418779	26.710	47.912	#
34)	Chlordane...	7.941f	8.905	61742354	212.6E6	474.221	1790.459	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.398	8.453	30177110	58830123	1843.507	1996.342	
37)	Toxaphene...	7.691	8.802	57148633	82998661	1819.126	2065.211	
38)	Toxaphene...	8.003	8.837	134.9E6	132.9E6	1951.936	2054.370	
39)	Toxaphene...	8.243	8.905	128.9E6	212.6E6	1941.789	1929.462	✓
40)	Toxaphene...	8.471	9.082	104.1E6	117.9E6	1920.344	2056.150	
41)	Toxaphene...	8.537	9.462	145.3E6	131.6E6	1910.606	1992.916	
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

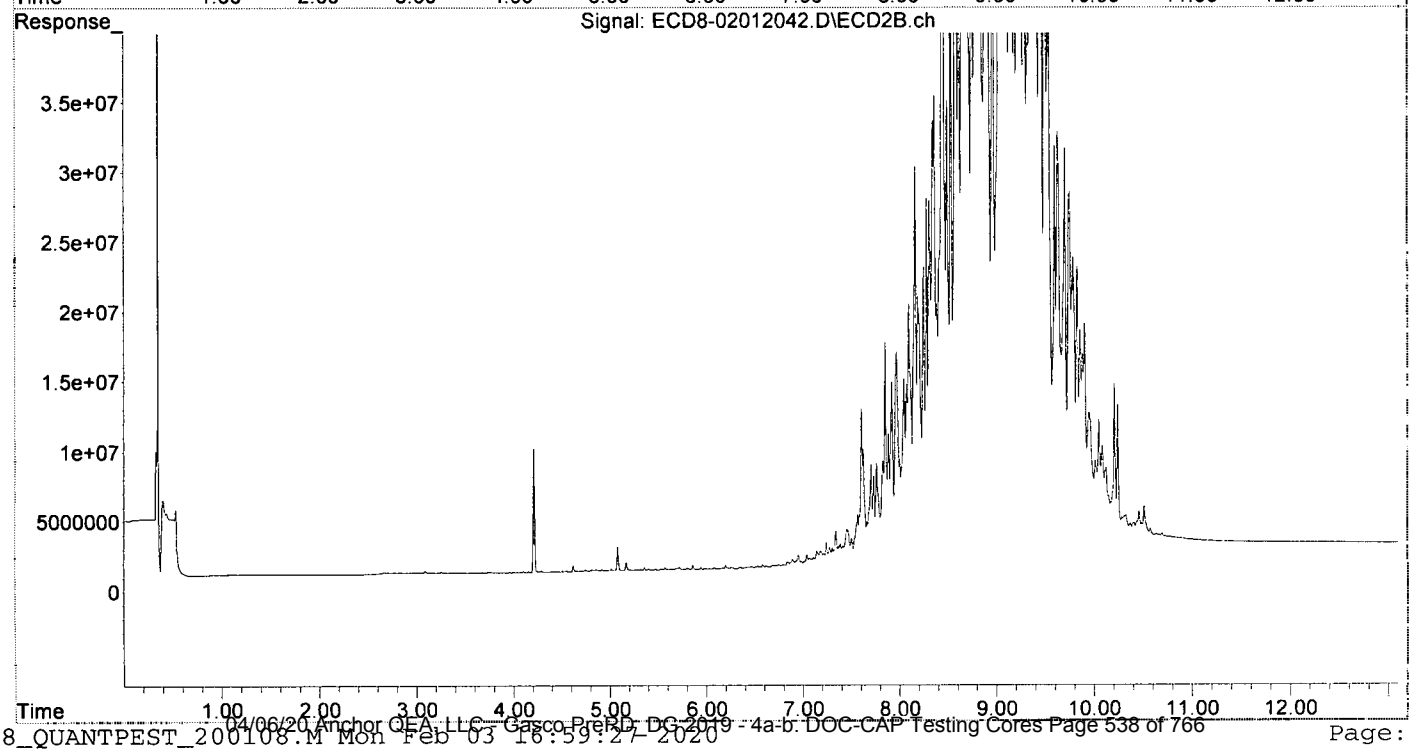
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012042.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 1:48
Operator : MJB
Sample : 0B01012-CALW
Misc : A19J416, TOX 200 ppb
ALS Vial : 38 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:54:20 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Sequence Name: C:\msdchem\1\sequence\0B01012.s
Comment: Pesticides
Operator: MJB
Data Path: C:\MSDCHEM\1\DATA\2020-02\0B01012\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

Sequence Barcode Options
(X) On Mismatch, Inject Anyway
( ) On Mismatch, Don't Inject
( ) Barcode Disabled

Line		Sample Name/Misc Info
1)	Sample 1	Hexane
	Datafile	ECD8-02012001
	Method	ECD8_AQUPEST_190925
2)	Sample 1	Hexane
	Datafile	ECD8-02012002
	Method	ECD8_AQUPEST_190925
3)	Sample 2	0B01012-BKD1
	Datafile	ECD8-02012003
	Method	ECD8_AQUPEST_190925
4)	Sample 3	0B01012-ICB1
	Datafile	ECD8-02012004
	Method	ECD8_AQUPEST_190925
5)	Sample 4	0B01012-CAL1
	Datafile	ECD8-02012005
	Method	ECD8_AQUPEST_190925
6)	Sample 5	0B01012-CAL2
	Datafile	ECD8-02012006
	Method	ECD8_AQUPEST_190925
7)	Sample 6	0B01012-CAL3
	Datafile	ECD8-02012007
	Method	ECD8_AQUPEST_190925
8)	Sample 7	0B01012-CAL4
	Datafile	ECD8-02012008
	Method	ECD8_AQUPEST_190925
9)	Sample 8	0B01012-CAL5
	Datafile	ECD8-02012009
	Method	ECD8_AQUPEST_190925
10)	Sample 9	0B01012-CAL6
	Datafile	ECD8-02012010
	Method	ECD8_AQUPEST_190925
11)	Sample 10	0B01012-CAL7
	Datafile	ECD8-02012011
	Method	ECD8_AQUPEST_190925
12)	Sample 11	0B01012-CAL8
	Datafile	ECD8-02012012
	Method	ECD8_AQUPEST_190925
13)	Sample 12	0B01012-CAL9
	Datafile	ECD8-02012013
	Method	ECD8_AQUPEST_190925
14)	Sample 1	0B01012-IBL1
	Datafile	ECD8-02012014
	Method	ECD8_AQUPEST_190925
15)	Sample 13	0B01012-ICV1
	Datafile	ECD8-02012015
	Method	ECD8_AQUPEST_190925
16)	Sample 14	0B01012-CALA
	Datafile	ECD8-02012016
	Method	ECD8_AQUPEST_190925
17)	Sample 15	0B01012-CALB
	Datafile	ECD8-02012017
	Method	ECD8_AQUPEST_190925
18)	Sample 16	0B01012-CALC
	Datafile	ECD8-02012018
	Method	ECD8_AQUPEST_190925
19)	Sample 17	0B01012-CALD
	Datafile	ECD8-02012019
	Method	ECD8_AQUPEST_190925
20)	Sample 18	0B01012-CALE

MJP 2/3/20

Datafile		ECD8-02012020
Method		ECD8_AQUPEST_190925
21) Sample	19	0B01012-CALF
Datafile		ECD8-02012021
Method		ECD8_AQUPEST_190925
22) Sample	20	0B01012-CALG
Datafile		ECD8-02012022
Method		ECD8_AQUPEST_190925
23) Sample	21	0B01012-CALH
Datafile		ECD8-02012023
Method		ECD8_AQUPEST_190925
24) Sample	22	0B01012-CALI
Datafile		ECD8-02012024
Method		ECD8_AQUPEST_190925
25) Sample	1	0B01012-IBL2
Datafile		ECD8-02012025
Method		ECD8_AQUPEST_190925
26) Sample	23	0B01012-ICV2
Datafile		ECD8-02012026
Method		ECD8_AQUPEST_190925
27) Sample	24	0B01012-CALJ
Datafile		ECD8-02012027
Method		ECD8_AQUPEST_190925
28) Sample	25	0B01012-CALK
Datafile		ECD8-02012028
Method		ECD8_AQUPEST_190925
29) Sample	26	0B01012-CALL
Datafile		ECD8-02012029
Method		ECD8_AQUPEST_190925
30) Sample	27	0B01012-CALM
Datafile		ECD8-02012030
Method		ECD8_AQUPEST_190925
31) Sample	28	0B01012-CALN
Datafile		ECD8-02012031
Method		ECD8_AQUPEST_190925
32) Sample	29	0B01012-CALO
Datafile		ECD8-02012032
Method		ECD8_AQUPEST_190925
33) Sample	30	0B01012-CALP
Datafile		ECD8-02012033
Method		ECD8_AQUPEST_190925
34) Sample	1	0B01012-IBL3
Datafile		ECD8-02012034
Method		ECD8_AQUPEST_190925
35) Sample	31	0B01012-ICV3
Datafile		ECD8-02012035
Method		ECD8_AQUPEST_190925
36) Sample	32	0B01012-CALQ
Datafile		ECD8-02012036
Method		ECD8_AQUPEST_190925
37) Sample	33	0B01012-CALR
Datafile		ECD8-02012037
Method		ECD8_AQUPEST_190925
38) Sample	34	0B01012-CALS
Datafile		ECD8-02012038
Method		ECD8_AQUPEST_190925
39) Sample	35	0B01012-CALT
Datafile		ECD8-02012039
Method		ECD8_AQUPEST_190925
40) Sample	36	0B01012-CALU
Datafile		ECD8-02012040
Method		ECD8_AQUPEST_190925
41) Sample	37	0B01012-CALV
Datafile		ECD8-02012041
Method		ECD8_AQUPEST_190925
42) Sample	38	0B01012-CALW
Datafile		ECD8-02012042
Method		ECD8_AQUPEST_190925
43) Sample	1	0B01012-IBL4
Datafile		ECD8-02012043
Method		ECD8_AQUPEST_190925

Sequence Name: C:\msdchem\1\sequence\0B01012.s

	Line Type	Vial	DataFile	Method	Sample Name
44)	Sample	39	0B01012-ICV4		
	Datafile		ECD8-02012044		
	Method			ECD8_AQUPEST_190925	

Pesticide Breakdown Check (Validated 8/8/2013)

Sequence: 0B01012 BKD1
Data File: ECD8-02012003.D

First Column Area Counts		Percent Breakdown	
DDE	14726696		
DDD	41771993		
DDT	2413043961	**2.29**	**PASS**
Endrin	1457300057	**7.93**	**PASS**
Endrin Aldehyde	61356077		
Endrin Ketone	64185001		

Second Column Area Counts		Percent Breakdown	
DDE	16962656		
DDD	42718820		
DDT	2637052504	**2.21**	**PASS**
Endrin	1408511020	**7.21**	**PASS**
Endrin Aldehyde	40978971		
Endrin Ketone	68527902		

Breakdown must be less than 15% to accept sample data.

MJB 4/3/20

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012003.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 14:52
Operator : MJB
Sample : 0B01012-BKD1
Misc : A20A019
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 14:38:46 2020
Quant Method : C:\msdchem\1\methods\PestBreakdownCHK_200201.M
Quant Title : Pesticides
QLast Update : Fri Nov 09 13:28:51 2018
Response via : Initial Calibration
Integrator: ChemStation

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	4,4'-DDE	7.491	14726696	NoCal	ng/mL
2)	Endrin	7.854	1457300057	NoCal	ng/mL
3)	4,4'-DDD	7.912	41771993	NoCal	ng/mL
4)	4,4'-DDT	8.108	2413043961	NoCal	ng/mL
5)	Endrin Aldehyde	8.302	61356077	NoCal	ng/mL
6)	Endrin Ketone	8.798	64185001	NoCal	ng/mL
8)	4,4'-DDE [2C]	8.333	16962656	NoCal	ng/mL
9)	Endrin [2C]	8.706	1408511020	NoCal	ng/mL
10)	4,4'-DDD [2C]	8.749	42718820	NoCal	ng/mL
11)	Endrin Aldehyde [2C]	9.090	40978971	NoCal	ng/mL
12)	4,4'-DDT [2C]	8.975	2637052504	NoCal	ng/mL
13)	Endrin Ketone [2C]	9.683	68527902	NoCal	ng/mL

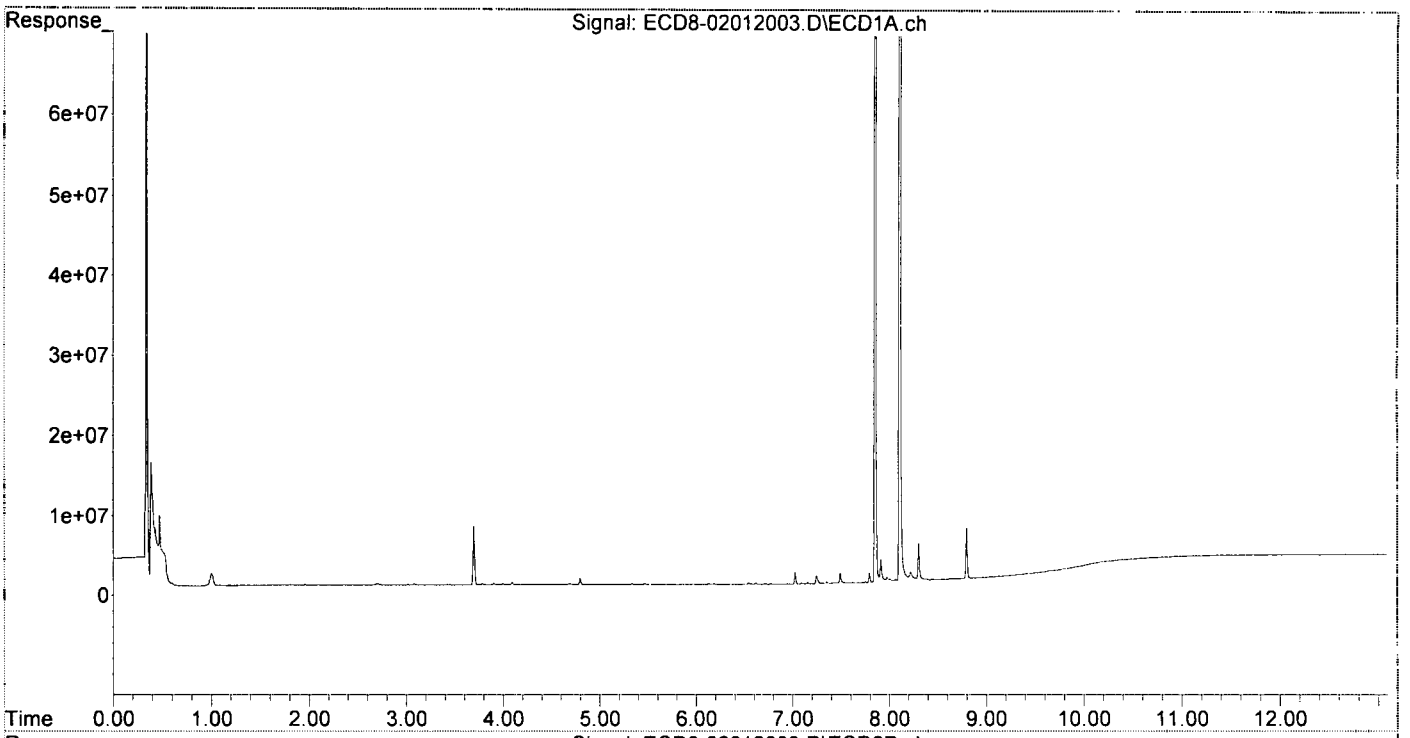
(f)=RT Delta > 1/2 Window (m)=manual int.

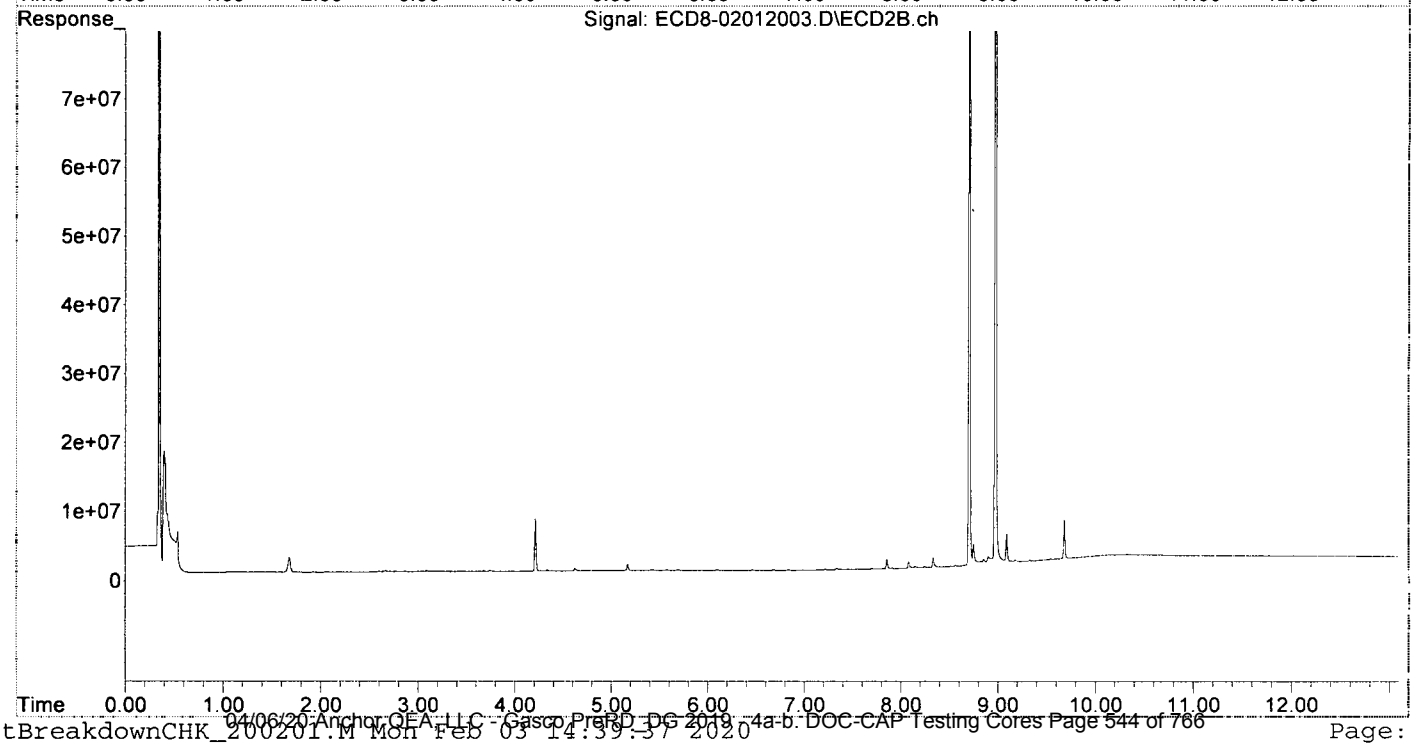
MJB 2/3/20

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012003.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 14:52
Operator : MJB
Sample : 0B01012-BKD1
Misc : A20A019
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 14:38:46 2020
Quant Method : C:\msdchem\1\methods\PestBreakdownCHK_200201.M
Quant Title : Pesticides
QLast Update : Fri Nov 09 13:28:51 2018
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 15:26
Operator : MJB
Sample : 0B01012-CAL1
Misc : A20B001, AB 0.5 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 14:44:02 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:43:43 2020
Response via : Initial Calibration
Integrator: ChemStation

MJF 2/3/20

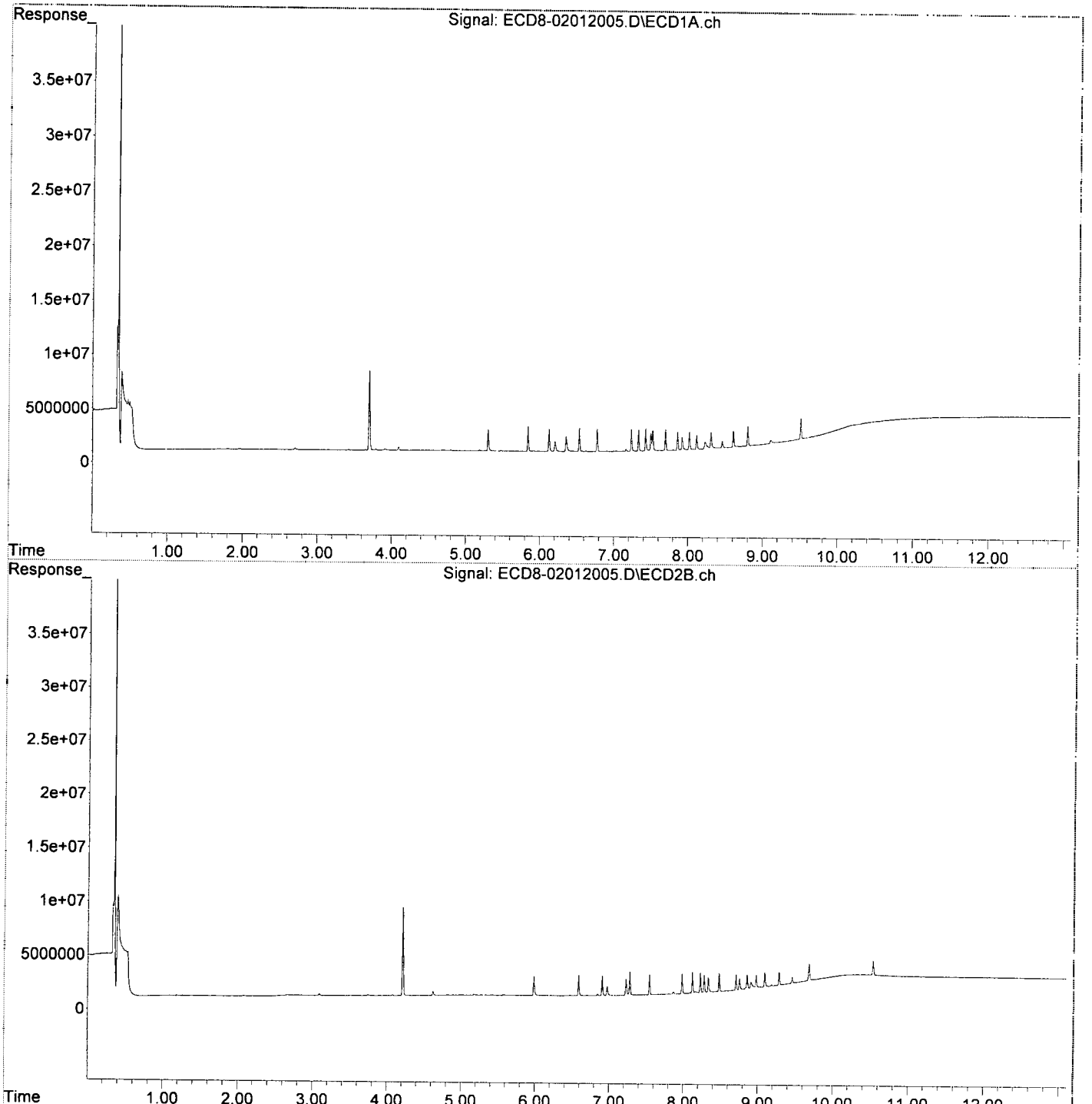
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S TCMX (S)	5.297	5.982	2010387	1807457	0.600	0.498
22)	S DCBP (S)	9.507	10.537	2137981	2121210	0.670	0.752
	Target Compounds						
2)	a-BHC	5.836	6.585	2323532	1906806	0.622	0.645
3)	g-BHC	6.120	6.903	2098226	1857818	0.657	0.659
4)	b-BHC	6.201	6.970	943381	871353	0.671	0.593
5)	Heptachlor	6.529	7.276	2213636	2166906	0.742	0.715
6)	d-BHC	6.351	7.224	1446613	1525163	0.641	0.667
7)	Aldrin	6.769	7.541	2117773	1887335	0.632	0.601
8)	Heptachlo...	7.230	7.979	2037408	1829309	0.666	0.579
9)	trans-Chl...	7.327	8.119	2006872	1923989	0.634	0.589
10)	cis-Chlor...	7.424	8.226	2072536	1851957	0.661	0.563
11)	Endosulfa...	7.519	8.277	1932337	1589681	0.656	0.531
12)	4,4'-DDE	7.493	8.333	1628951	1346237	0.619	0.542
13)	Dieldrin	7.691	8.478	1958633	1711724	0.613	0.608
14)	Endrin	7.854	8.705	1701747	1499119	0.689	0.755
15)	4,4'-DDD	7.915	8.751	1218671	1119384	0.587	0.615
16)	Endosulfa...	8.013	8.854	1650694	1442453	0.661	0.599
17)	4,4'-DDT	8.110	8.975	1351757	1360505	0.609	0.679
18)	Endrin Al...	8.303	9.091	1534740	1556354	0.673	0.643
19)	Endosulfa...	8.604	9.282	1548557	1535031	0.630	0.627
20)	Methoxychlor	8.454	9.456	650344	981544	0.576	0.860 #
21)	Endrin Ke...	8.797	9.683	1865728	2135612	0.639	0.729
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 > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 15:26
Operator : MJB
Sample : 0B01012-CAL1
Misc : A20B001, AB 0.5 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 14:44:02 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:43:43 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012006.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 15:43
Operator : MJB
Sample : 0B01012-CAL2
Misc : A20B002, AB 1 ppb
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 14:45:57 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:43:43 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

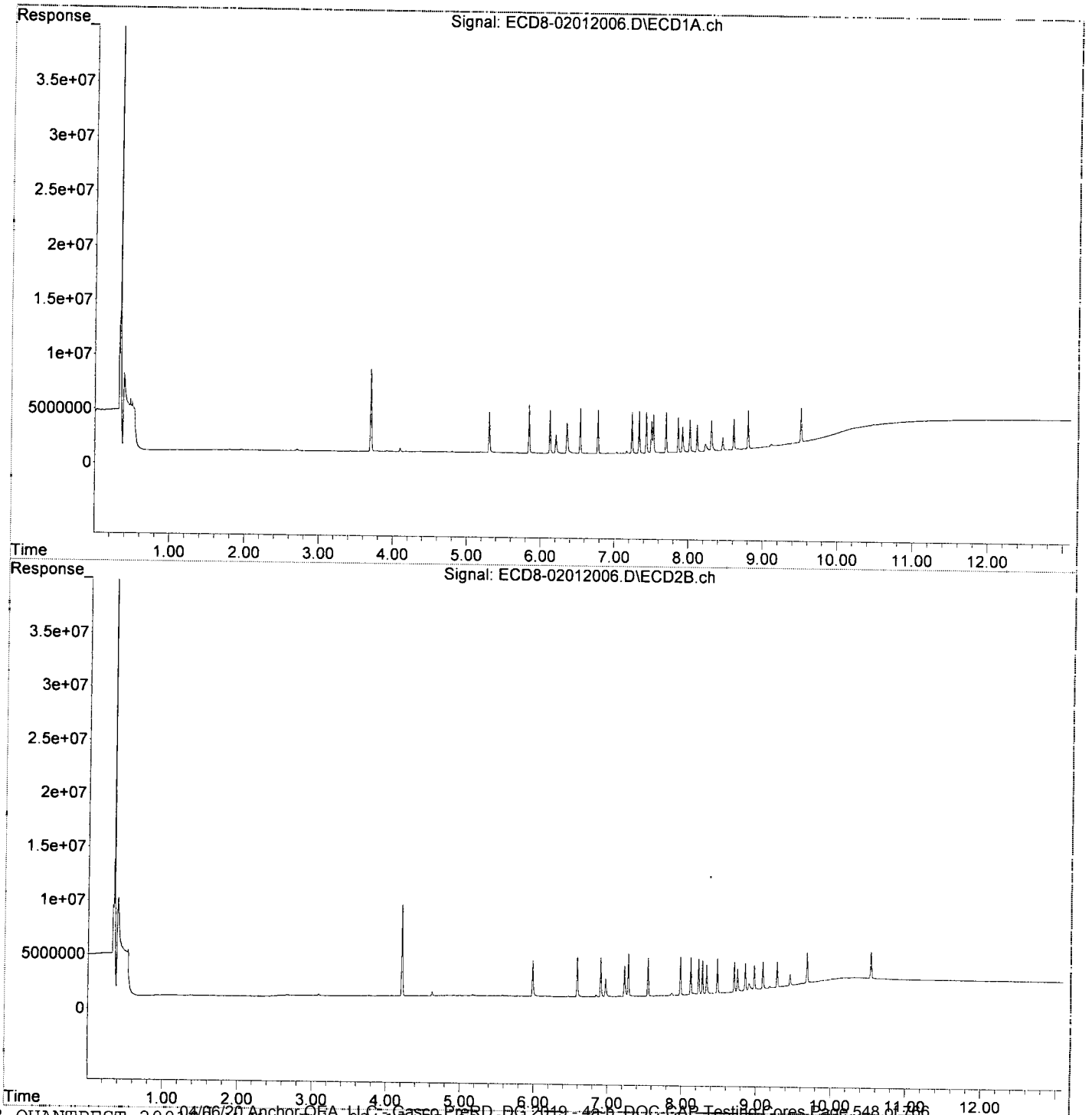
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	5.298	5.982	3713760	3325610	1.108	0.916
22) S	DCBP (S)	9.507	10.537	3342363	2619998	1.179	0.998
	Target Compounds						
2)	a-BHC	5.837	6.585	4491787	3754344	1.203	1.159
3)	g-BHC	6.120	6.902	3995270	3614287	1.251	1.216
4)	b-BHC	6.200	6.968	1736591	1672509	1.235	1.138
5)	Heptachlor	6.529	7.275	4223019	4011938	1.415	1.324
6)	d-BHC	6.351	7.224	2800163	2821743	1.098	1.098
7)	Aldrin	6.769	7.542	4023063	3540234	1.201	1.096
8)	Heptachlo...	7.230	7.979	3849968	3563306	1.258	1.129
9)	trans-Chl...	7.327	8.119	3865919	3473086	1.220	1.064
10)	cis-Chlor...	7.423	8.226	3812238	3361292	1.217	1.021
11)	Endosulfa...	7.519	8.277	3593891	3092501	1.220	1.034
12)	4,4'-DDE	7.493	8.333	2976091	2684993	1.066	0.983
13)	Dieldrin	7.691	8.478	3771816	3204188	1.180	1.084
14)	Endrin	7.854	8.705	3307872	2810308	1.389	1.364
15)	4,4'-DDD	7.914	8.751	2373048	2115078	1.142	1.128
16)	Endosulfa...	8.013	8.855	3004856	2617481	1.203	1.110
17)	4,4'-DDT	8.109	8.975	2497592	2317293	1.126	1.148
18)	Endrin Al...	8.303	9.091	2830842	2604623	1.241	1.076
19)	Endosulfa...	8.604	9.281	2921925	2490983	1.188	1.052
20)	Methoxychlor	8.454	9.454	1197106	1213779	1.060	1.103
21)	Endrin Ke...	8.797	9.683	3540934	3121972	1.213	1.128
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 > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012006.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 15:43
Operator : MJB
Sample : 0B01012-CAL2
Misc : A20B002, AB 1 ppb
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 14:45:57 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:43:43 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012007.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 16:00
Operator : MJB
Sample : 0B01012-CAL3
Misc : A19K128, AB 2 ppb
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 14:46:32 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:43:43 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/4/20

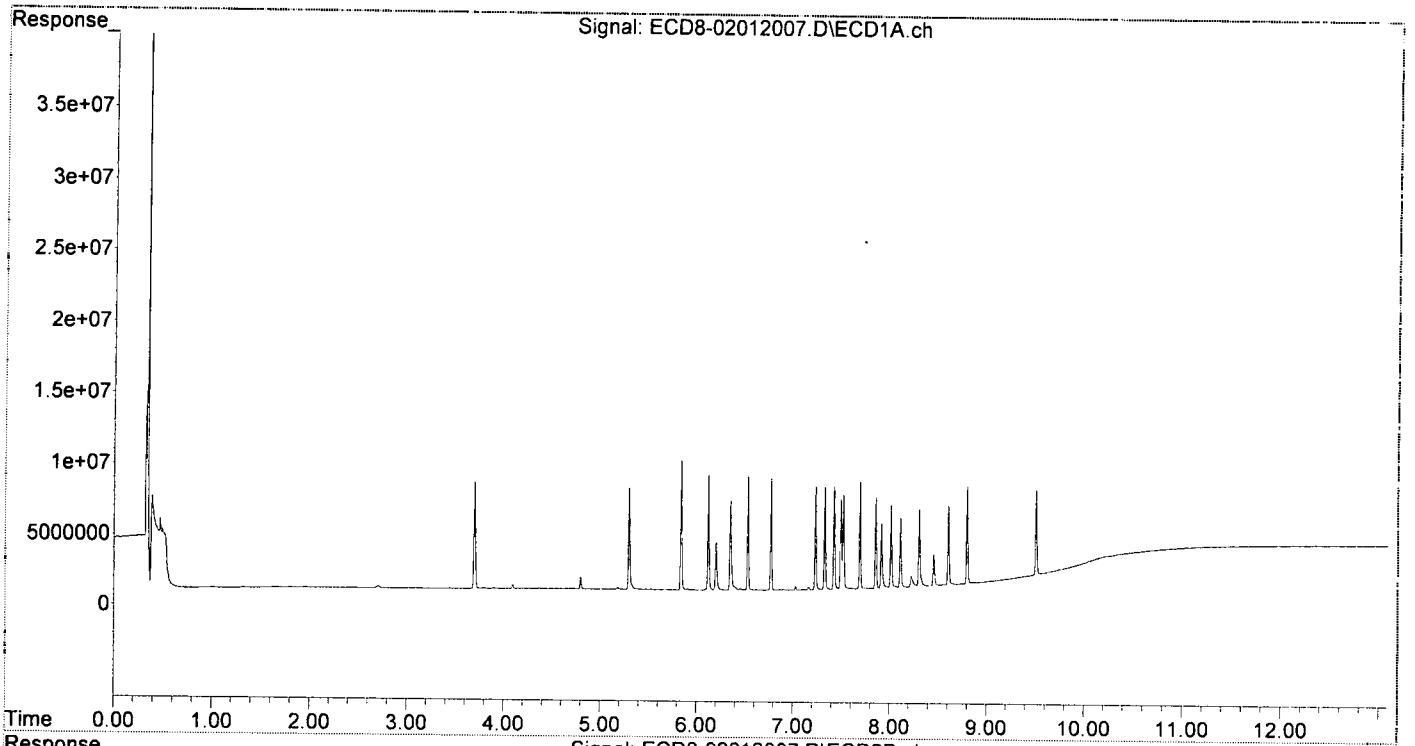
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S TCMX (S)	5.297	5.982	7209311	6464924	2.152	1.780
22)	S DCBP (S)	9.506	10.536	6150705	5371510	2.366	2.349
	Target Compounds						
2)	a-BHC	5.837	6.585	9150524	7591226	2.450	2.224
3)	g-BHC	6.119	6.902	8103069	7144289	2.537	2.332
4)	b-BHC	6.199	6.967	3435299	3394908	2.443	2.310
5)	Heptachlor	6.529	7.275	8104217	7612959	2.716	2.512
6)	d-BHC	6.348	7.222	6356662	6360084	2.296	2.270
7)	Aldrin	6.768	7.541	7878680	7212786	2.351	2.192
8)	Heptachlo...	7.230	7.979	7310938	6383239	2.389	2.022
9)	trans-Chl...	7.326	8.118	7233767	6824804	2.284	2.091
10)	cis-Chlor...	7.423	8.226	7290278	6414031	2.327	1.949
11)	Endosulfa...	7.518	8.277	6684329	6087483	2.269	2.035
12)	4,4'-DDE	7.492	8.332	6364080	5670683	2.190	1.962
13)	Dieldrin	7.691	8.477	7527776	6556953	2.355	2.151
14)	Endrin	7.854	8.705	6440400	5547721	2.607	2.630
15)	4,4'-DDD	7.912	8.750	4683505	4350712	2.255	2.275
16)	Endosulfa...	8.012	8.854	5851117	5197583	2.343	2.230
17)	4,4'-DDT	8.109	8.975	4907038	4735251	2.212	2.330
18)	Endrin Al...	8.302	9.091	5465292	5226313	2.397	2.160
19)	Endosulfa...	8.604	9.281	5585397	5212773	2.271	2.259
20)	Methoxychlor	8.453	9.455	2268598	2619150	2.009	2.567 #
21)	Endrin Ke...	8.797	9.682	6824708	6091766	2.338	2.327
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

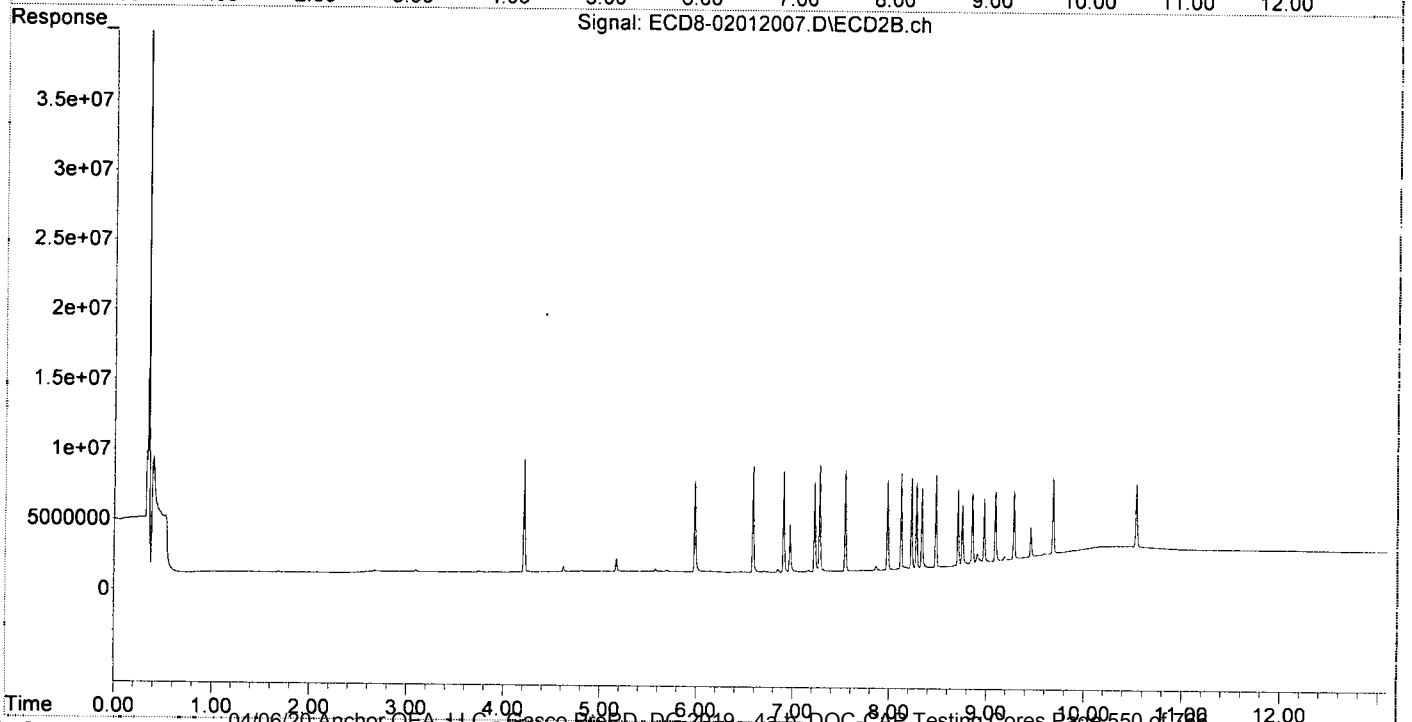
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012007.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 16:00
Operator : MJB
Sample : 0B01012-CAL3
Misc : A19K128, AB 2 ppb
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 14:46:32 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:43:43 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012008.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 16:16
Operator : MJB
Sample : 0B01012-CAL4
Misc : A19K130, AB 5 ppb
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 14:47:43 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:43:43 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/5/20

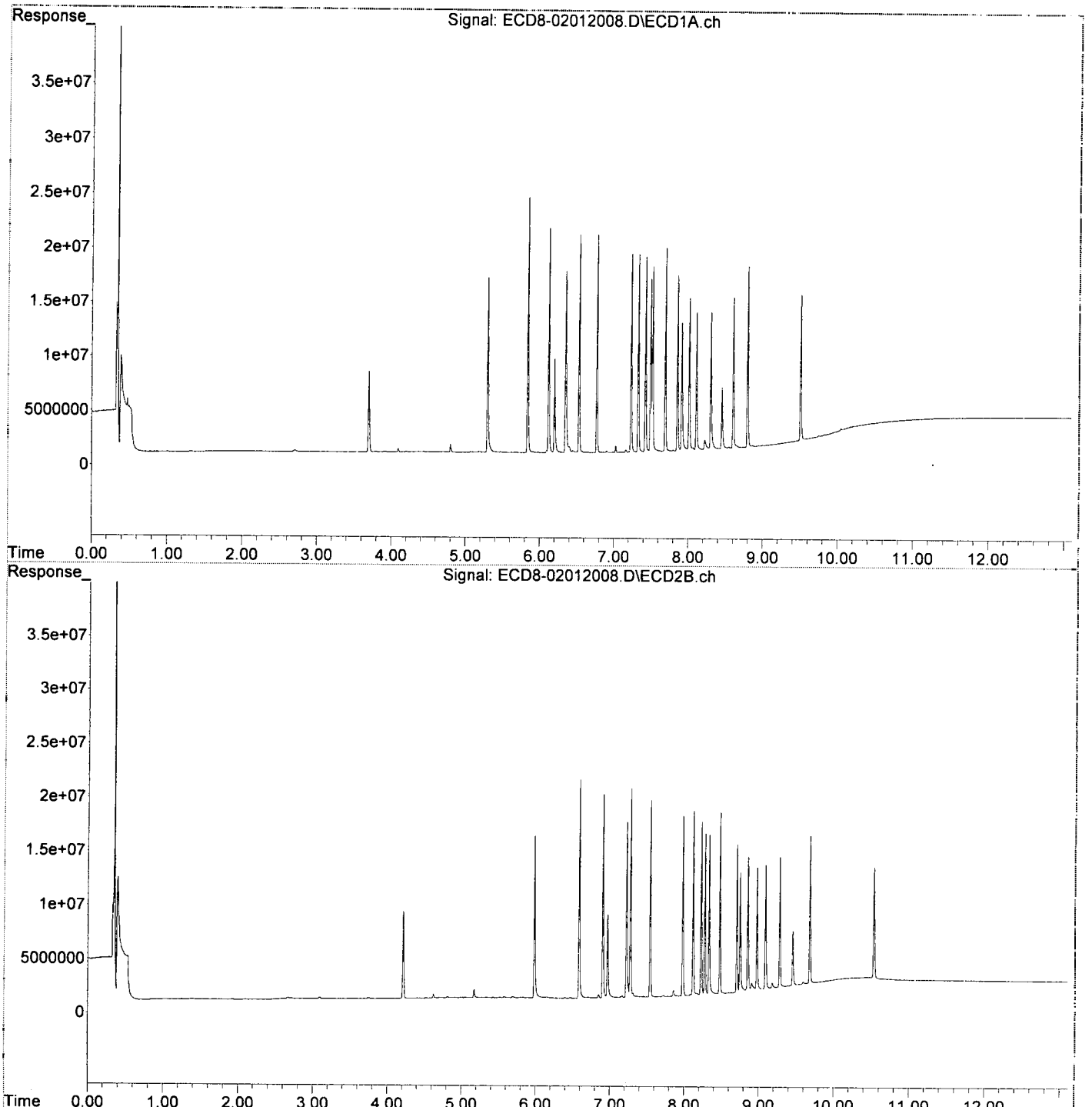
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S TCMX (S)	5.298	5.981	16081203	15031272	4.800	4.139
22)	S DCBP (S)	9.507	10.536	13550213	11242637	5.488	5.219
	Target Compounds						
2)	a-BHC	5.837	6.585	23466079	20250518	6.283	5.703
3)	g-BHC	6.119	6.902	20617843	18903687	6.456	6.022
4)	b-BHC	6.198	6.967	8638547	7798279	6.142	5.306
5)	Heptachlor	6.529	7.275	20002736	19371564	6.704	6.391
6)	d-BHC	6.347	7.222	16718254	16286148	5.770	5.526
7)	Aldrin	6.769	7.542	20021477	18260292	5.976	5.470
8)	Heptachlo...	7.230	7.979	18211245	16663788	5.950	5.279
9)	trans-Chl...	7.327	8.118	18164041	17064405	5.734	5.227
10)	cis-Chlor...	7.423	8.226	17894373	16061241	5.711	4.881
11)	Endosulfa...	7.519	8.277	17033099	14978724	5.782	5.008
12)	4,4'-DDE	7.491	8.333	15902445	14859572	5.344	4.949
13)	Dieldrin	7.691	8.478	18752761	16896160	5.867	5.420
14)	Endrin	7.854	8.706	16153756	13876087	6.539	6.445
15)	4,4'-DDD	7.913	8.749	11737231	11254024	5.650	5.777
16)	Endosulfa...	8.012	8.854	14001650	12686668	5.607	5.453
17)	4,4'-DDT	8.109	8.975	12632646	11635054	5.694	5.665
18)	Endrin Al...	8.303	9.090	12590069	11838674	5.521	4.893
19)	Endosulfa...	8.603	9.281	13843885	12518228	5.628	5.469
20)	Methoxychlor	8.453	9.454	5565381	5652133	4.929	5.697
21)	Endrin Ke...	8.797	9.683	16623046	14402455	5.695	5.653
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 > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012008.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 16:16
Operator : MJB
Sample : 0B01012-CAL4
Misc : A19K130, AB 5 ppb
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 14:47:43 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:43:43 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012009.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 16:33
Operator : MJB
Sample : 0B01012-CAL5
Misc : A19K131, AB 10 ppb
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 14:48:28 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:43:43 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

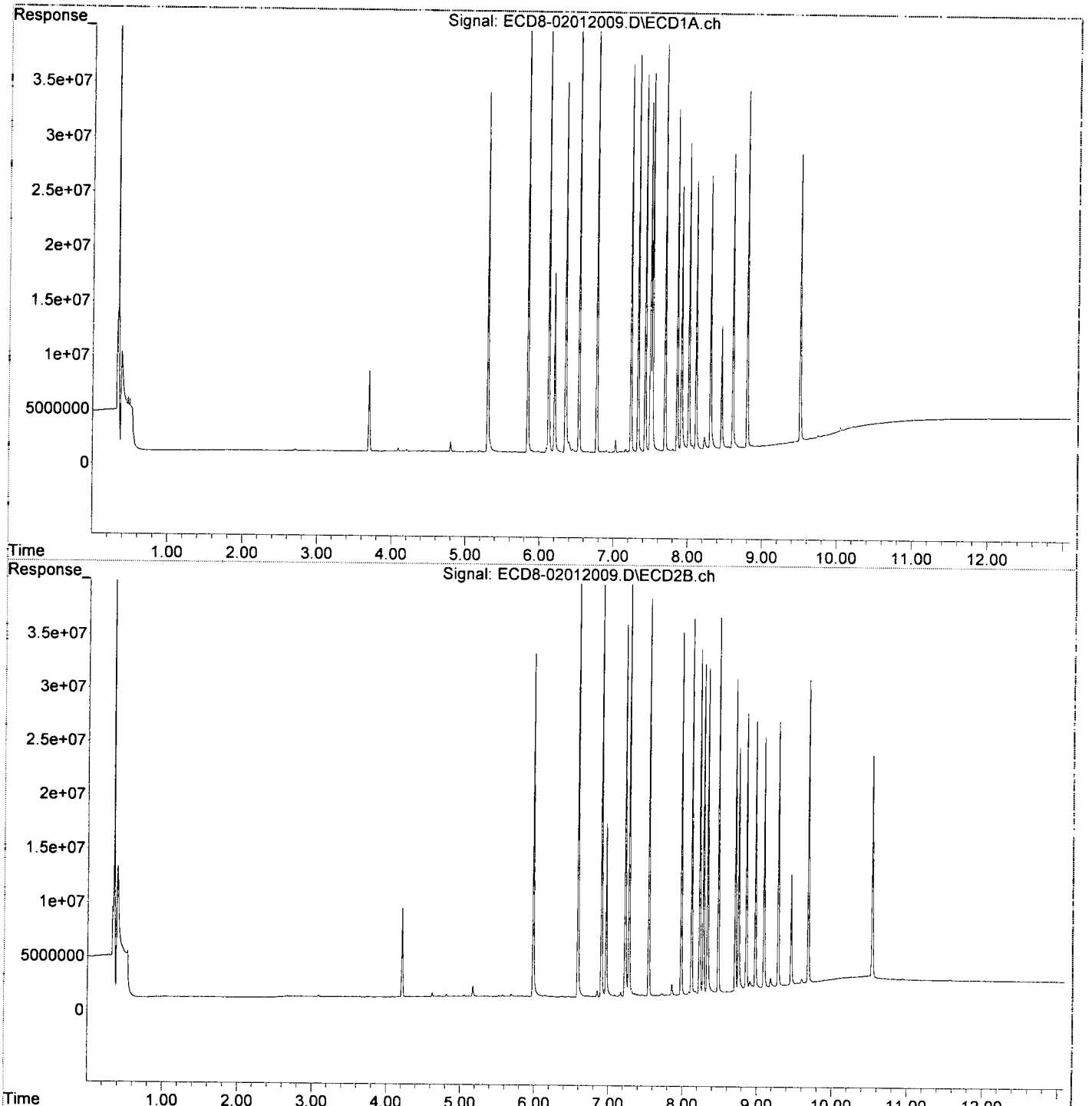
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	5.297	5.981	33031495	31880995	9.859	8.779
22) S	DCBP (S)	9.507	10.537	26605868	21641632	10.977	10.254
	Target Compounds						
2)	a-BHC	5.836	6.585	46556069	43486995	12.465	11.969
3)	g-BHC	6.119	6.902	40429962	38516992	12.660	12.087
4)	b-BHC	6.198	6.967	16571546	16056619	11.782	10.924
5)	Heptachlor	6.529	7.275	39900092	38743493	13.373	12.783
6)	d-BHC	6.346	7.221	33972136	34556711	11.498	11.406
7)	Aldrin	6.769	7.542	39553332	36952424	11.805	10.947
8)	Heptachlo...	7.229	7.979	35561831	33689906	11.619	10.672
9)	trans-Chl...	7.325	8.119	36451101	34945337	11.507	10.705
10)	cis-Chlor...	7.423	8.226	34569322	32046693	11.084	9.739
11)	Endosulfa...	7.518	8.277	34748038	30647883	11.795	10.246
12)	4,4'-DDE	7.491	8.332	32072763	30195241	10.656	9.852
13)	Dieldrin	7.691	8.478	37298305	34982484	11.669	11.066
14)	Endrin	7.854	8.706	31349018	29160503	12.690	13.309
15)	4,4'-DDD	7.912	8.749	24259195	22757929	11.678	11.485
16)	Endosulfa...	8.012	8.854	28189352	25937677	11.288	11.067
17)	4,4'-DDT	8.108	8.975	24692282	25132611	11.129	12.043
18)	Endrin Al...	8.302	9.090	25111118	23622312	11.012	9.763
19)	Endosulfa...	8.604	9.282	27042784	25036220	10.994	10.878
20)	Methoxychlor	8.453	9.455	11230884	10865325	9.947	10.983
21)	Endrin Ke...	8.797	9.683	32676144	28830661	11.195	11.338
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 > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012009.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 16:33
Operator : MJB
Sample : 0B01012-CAL5
Misc : A19K131, AB 10 ppb
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 14:48:28 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:43:43 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012010.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 16:50
Operator : MJB
Sample : 0B01012-CAL6
Misc : A19K132, AB 25 ppb
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 14:49:00 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:43:43 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

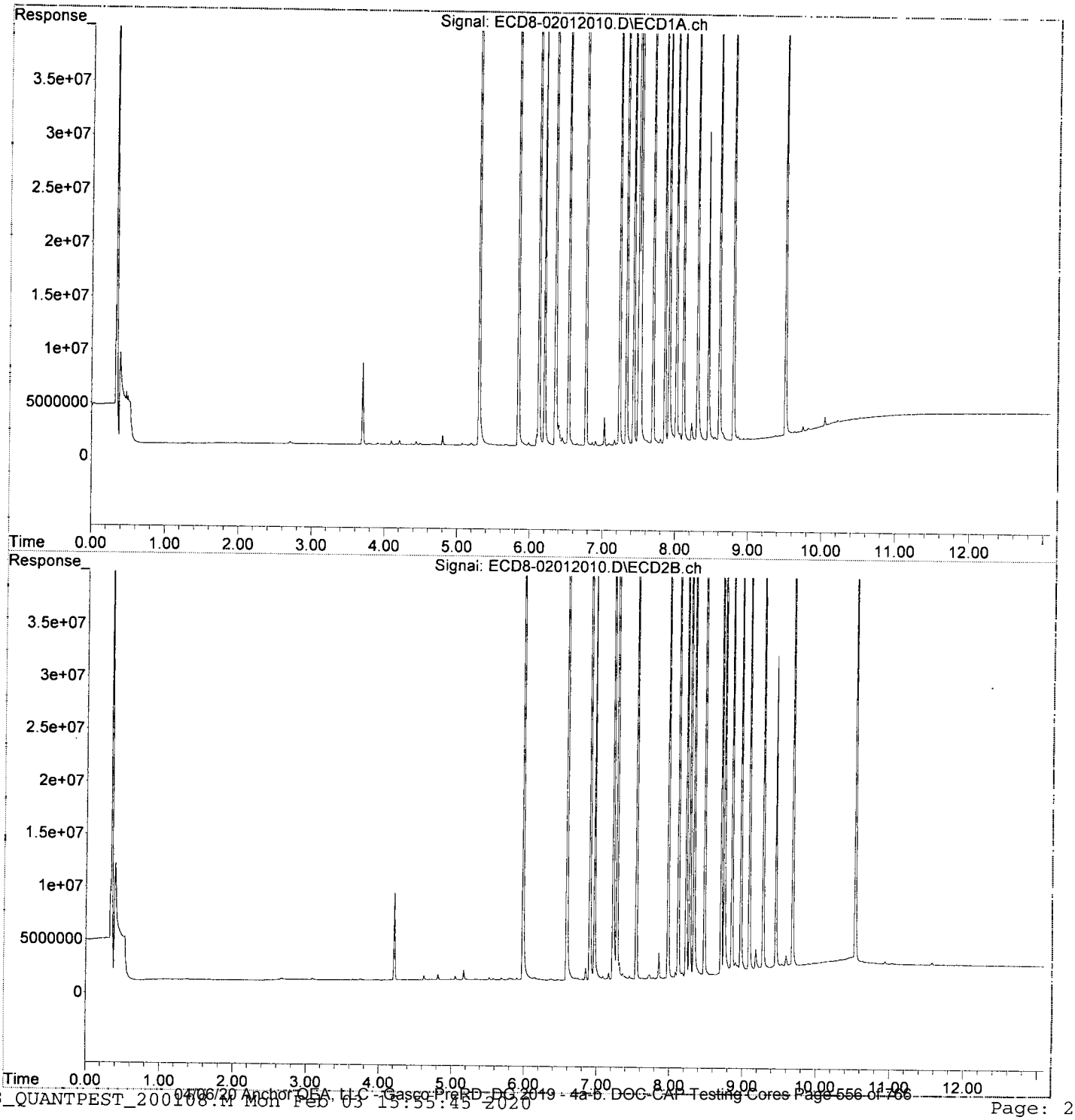
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S TCMX (S)	5.297	5.981	85829808	85149324	25.617	23.448
22)	S DCBP (S)	9.507	10.537	66452642	54017910	27.578	25.565
	Target Compounds						
2)	a-BHC	5.836	6.583	121.6E6	119.2E6	32.565	31.414
3)	g-BHC	6.118	6.901	105.7E6	107.9E6	33.104	32.700
4)	b-BHC	6.197	6.966	43268809	42826341	30.764	29.138
5)	Heptachlor	6.529	7.274	103.8E6	104.5E6	34.777	34.470
6)	d-BHC	6.345	7.220	93700875	100.9E6	30.815	31.663
7)	Aldrin	6.768	7.541	101.9E6	103.3E6	30.419	29.748
8)	Heptachlo...	7.229	7.978	90603826	90693091	29.603	28.728
9)	trans-Chl...	7.325	8.118	92344635	94107374	29.151	28.828
10)	cis-Chlor...	7.422	8.225	91013817	90991019	29.049	27.652
11)	Endosulfa...	7.518	8.277	85444422	85653357	29.003	28.636
12)	4,4'-DDE	7.490	8.331	82679641	86764148	27.009	27.132
13)	Dieldrin	7.690	8.477	95868803	95883928	29.993	29.444
14)	Endrin	7.854	8.706	82858624	79399830	33.541	34.752
15)	4,4'-DDD	7.911	8.749	63377806	65177226	30.509	31.320
16)	Endosulfa...	8.011	8.853	73342261	73030196	29.368	30.180
17)	4,4'-DDT	8.108	8.975	68097447	70533268	30.692	32.246
18)	Endrin Al...	8.302	9.089	61776811	60959956	27.091	25.194
19)	Endosulfa...	8.603	9.281	70013419	70158024	28.463	29.519
20)	Methoxychlor	8.452	9.454	28980569	30163827	25.668	29.626
21)	Endrin Ke...	8.797	9.683	85585307	79449385	29.321	30.468
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 > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012010.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 16:50
Operator : MJB
Sample : 0B01012-CAL6
Misc : A19K132, AB 25 ppb
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 14:49:00 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:43:43 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012011.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 17:07
Operator : MJB
Sample : 0B01012-CAL7
Misc : A19K133, AB 50 ppb
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 14:42:57 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Thu Jan 09 17:17:47 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

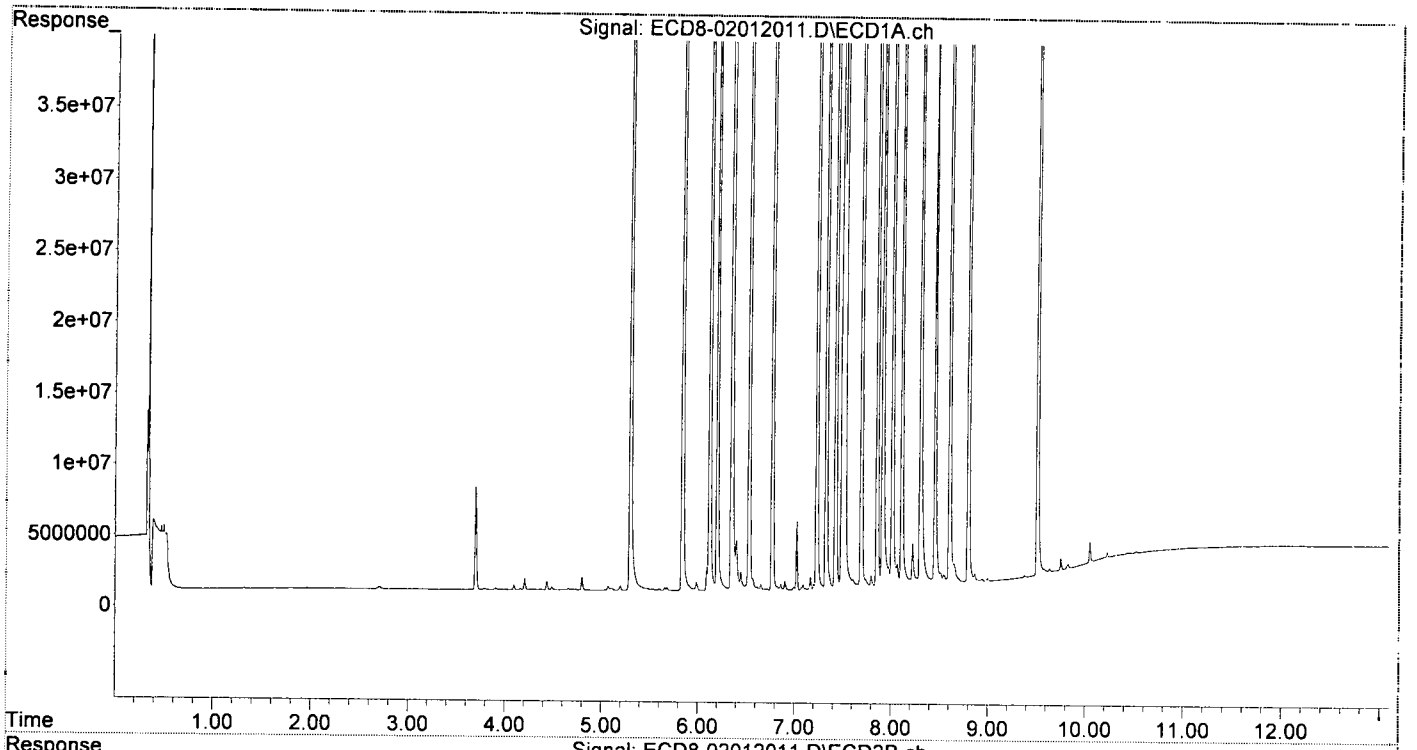
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	5.297	5.981	160.2E6	168.3E6	47.813	46.342
22) S	DCBP (S)	9.507	10.537	123.4E6	103.8E6	50.912	48.124
	Target Compounds						
2)	a-BHC	5.837	6.585	224.9E6	233.3E6	60.209	58.407
3)	g-BHC	6.119	6.902	203.3E6	211.8E6	63.651	61.548
4)	b-BHC	6.197	6.966	81866401	85296235	58.207	58.033
5)	Heptachlor	6.529	7.276	192.3E6	210.9E6	64.444	69.577
6)	d-BHC	6.346	7.221	182.4E6	192.9E6	58.189	57.382
7)	Aldrin	6.769	7.542	195.5E6	195.8E6	58.338	54.502
8)	Heptachlo...	7.230	7.979	168.2E6	178.9E6	54.941	56.674
9)	trans-Chl...	7.326	8.119	181.3E6	181.2E6	57.246	55.515
10)	cis-Chlor...	7.423	8.226	167.4E6	173.0E6	53.436	52.585
11)	Endosulfa...	7.518	8.277	163.9E6	167.4E6	55.647	55.978
12)	4,4'-DDE	7.490	8.332	168.0E6	175.2E6	53.709	52.032
13)	Dieldrin	7.691	8.478	179.5E6	192.1E6	56.152	56.758
14)	Endrin	7.854	8.706	155.0E6	154.0E6	62.763	63.992
15)	4,4'-DDD	7.910	8.748	125.3E6	136.5E6	60.321	61.291
16)	Endosulfa...	8.011	8.854	141.9E6	146.2E6	56.802	57.675
17)	4,4'-DDT	8.109	8.975	134.8E6	138.4E6	60.756	59.598
18)	Endrin Al...	8.302	9.090	118.6E6	123.5E6	51.995	51.032
19)	Endosulfa...	8.603	9.281	133.9E6	135.1E6	54.419	54.356
20)	Methoxychlor	8.452	9.453	56743855	60278479	50.258	56.326
21)	Endrin Ke...	8.797	9.682	159.8E6	156.7E6	54.742	57.609
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

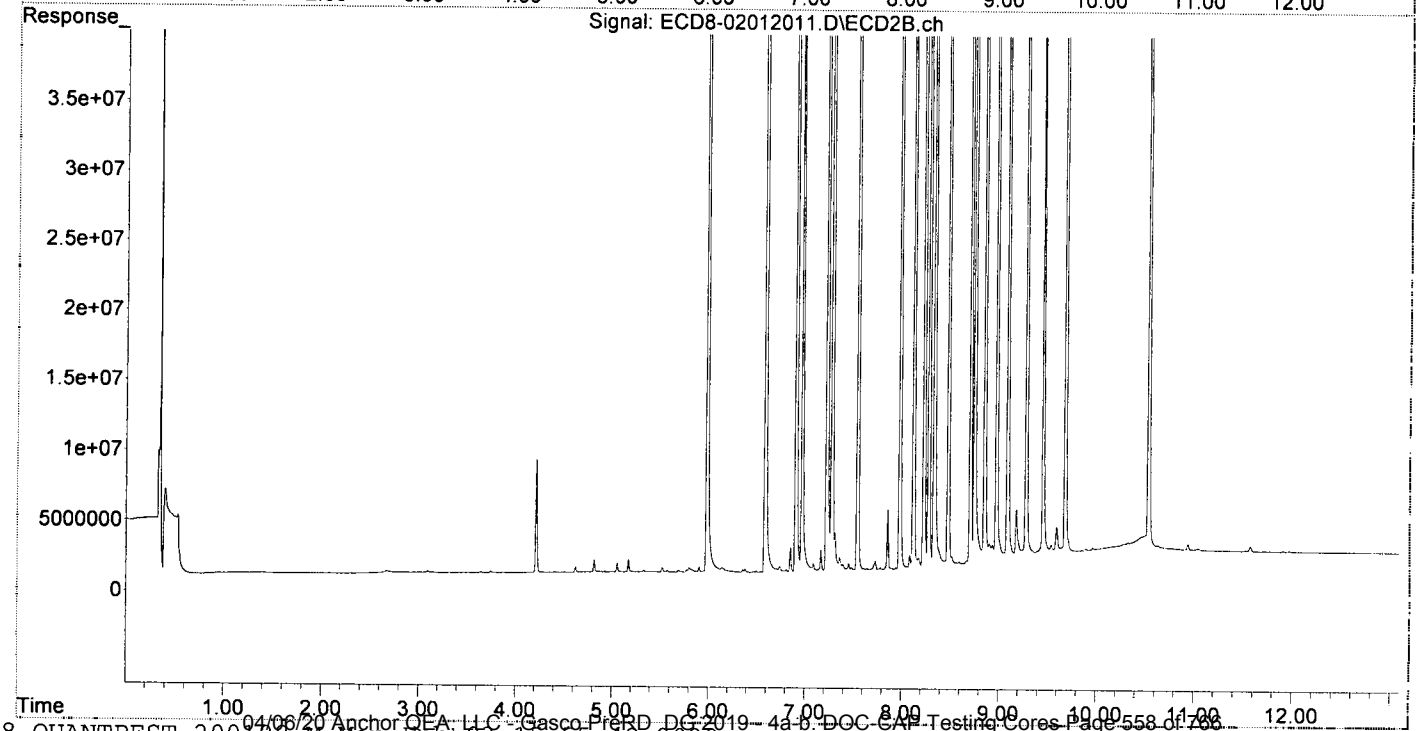
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012011.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 17:07
Operator : MJB
Sample : 0B01012-CAL7
Misc : A19K133, AB 50 ppb
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 14:42:57 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Thu Jan 09 17:17:47 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012012.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 17:24
Operator : MJB
Sample : 0B01012-CAL8
Misc : A19K134, AB 100 ppb
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 14:49:32 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:43:43 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/5/20

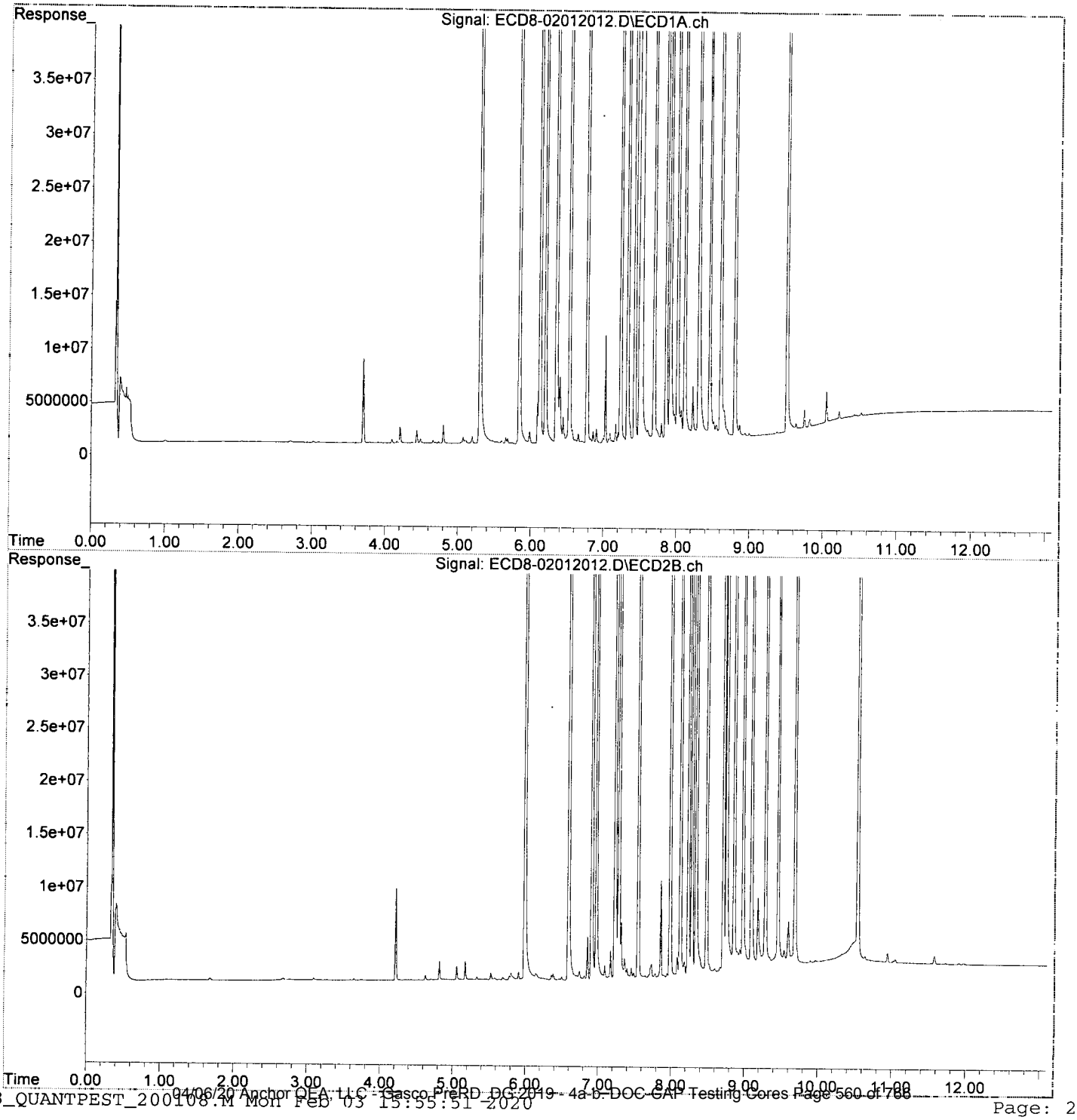
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S TCMX (S)	5.298	5.982	355.4E6	386.4E6	106.080	106.420
22)	S DCBP (S)	9.507	10.537	280.1E6	240.0E6	113.028	104.904
	Target Compounds						
2)	a-BHC	5.837	6.585	509.4E6	553.7E6	136.390	123.895
3)	g-BHC	6.120	6.902	435.9E6	491.3E6	136.505	130.080
4)	b-BHC	6.197	6.966	185.8E6	196.8E6	132.106	133.903
5)	Heptachlor	6.529	7.276	416.3E6	477.0E6	139.520	157.372
6)	d-BHC	6.345	7.221	419.9E6	472.2E6	125.268	124.232
7)	Aldrin	6.769	7.542	420.9E6	472.0E6	125.625	120.670
8)	Heptachlo...	7.229	7.979	380.6E6	404.3E6	124.368	128.057
9)	trans-Chl...	7.325	8.119	392.8E6	432.7E6	123.984	132.537
10)	cis-Chlor...	7.422	8.226	377.5E6	395.1E6	120.481	120.061
11)	Endosulfa...	7.517	8.277	349.5E6	392.5E6	118.629	131.230
12)	4,4'-DDE	7.489	8.331	378.7E6	405.9E6	115.636	108.497
13)	Dieldrin	7.690	8.478	402.8E6	425.1E6	126.020	116.163
14)	Endrin	7.854	8.706	338.4E6	354.5E6	136.997	131.983
15)	4,4'-DDD	7.909	8.747	297.7E6	330.1E6	143.286	129.196
16)	Endosulfa...	8.010	8.853	331.9E6	341.9E6	132.896	121.974
17)	4,4'-DDT	8.108	8.975	298.8E6	340.3E6	134.676	127.973
18)	Endrin Al...	8.301	9.090	258.6E6	290.0E6	113.407	119.845
19)	Endosulfa...	8.603	9.281	304.5E6	315.4E6	123.771	114.670
20)	Methoxychlor	8.450	9.453	133.1E6	149.0E6	117.904	123.547
21)	Endrin Ke...	8.797	9.683	366.8E6	363.7E6	125.660	121.406
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 > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012012.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 17:24
Operator : MJB
Sample : 0B01012-CAL8
Misc : A19K134, AB 100 ppb
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 14:49:32 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:43:43 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012013.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 17:41
Operator : MJB
Sample : 0B01012-CAL9
Misc : A19K126, AB 200 ppb
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 14:50:01 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:43:43 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/5/20

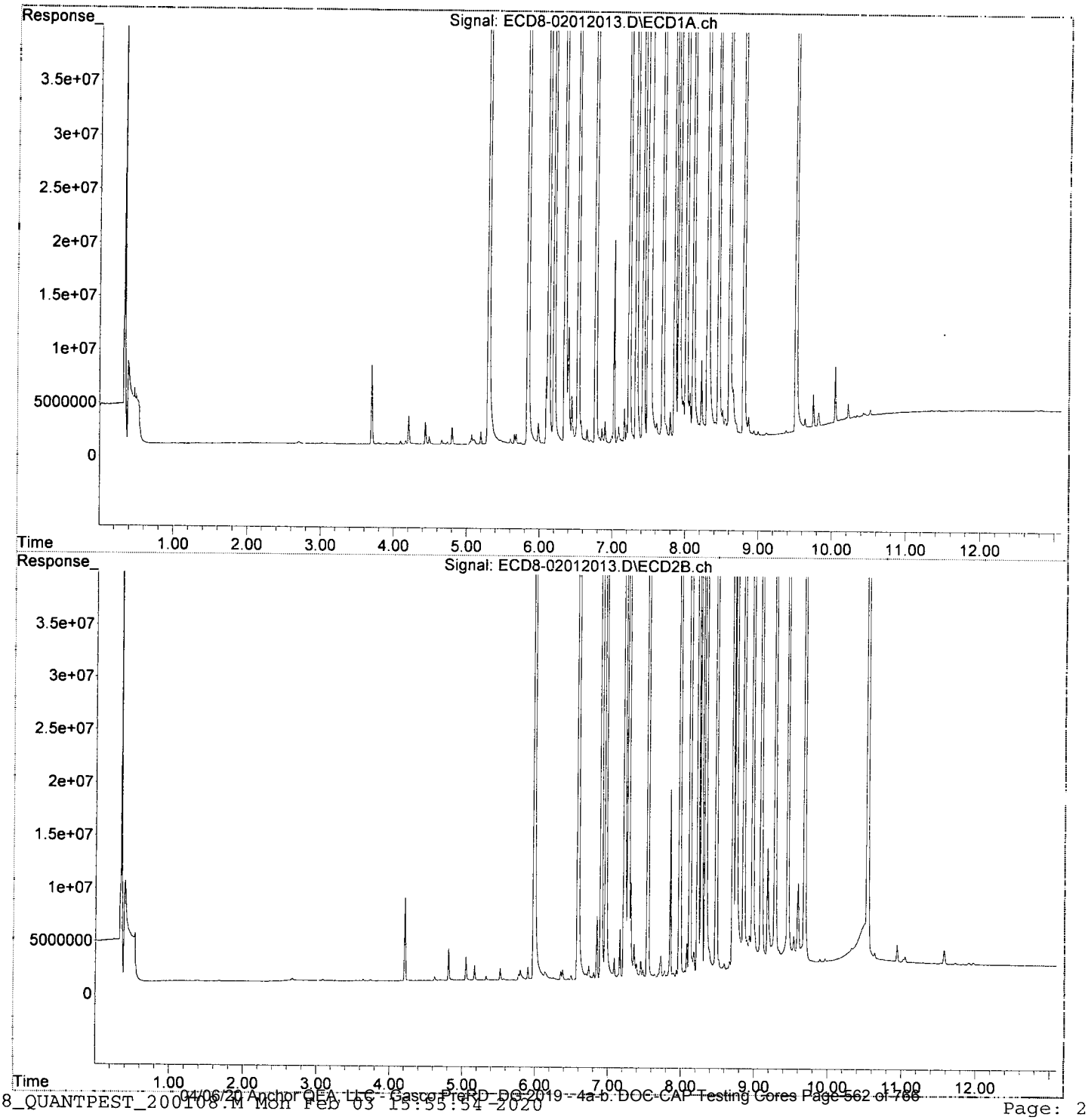
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	5.297	5.981	683.0E6	808.5E6	203.858	222.644
22) S	DCBP (S)	9.507	10.537	554.4E6	477.6E6	215.222	191.382
	Target Compounds						
2)	a-BHC	5.837	6.585	1000.4E6	1133.4E6	267.852	219.660
3)	g-BHC	6.119	6.902	881.5E6	980.3E6	276.016	229.963
4)	b-BHC	6.196	6.965	344.6E6	391.9E6	244.988	266.622
5)	Heptachlor	6.529	7.275	827.5E6	966.0E6	277.356	318.726
6)	d-BHC	6.344	7.220	826.3E6	939.7E6	225.053	214.181
7)	Aldrin	6.768	7.542	802.5E6	928.8E6	239.505	213.235
8)	Heptachlo...	7.229	7.979	732.6E6	788.7E6	239.361	249.844
9)	trans-Chl...	7.325	8.119	764.5E6	821.8E6	241.328	251.753
10)	cis-Chlor...	7.422	8.226	729.7E6	792.8E6	232.891	240.922
11)	Endosulfa...	7.517	8.277	669.0E6	733.7E6	227.067	245.303
12)	4,4'-DDE	7.488	8.331	725.7E6	835.1E6	207.825	193.980
13)	Dieldrin	7.690	8.478	786.9E6	871.2E6	246.188	212.340
14)	Endrin	7.854	8.705	655.2E6	738.6E6	265.209	237.000
15)	4,4'-DDD	7.909	8.749	592.3E6	679.7E6	285.131	225.207
16)	Endosulfa...	8.011	8.853	596.6E6	684.8E6	238.912	214.590
17)	4,4'-DDT	8.108	8.975	627.2E6	706.5E6	282.677	225.118
18)	Endrin Al...	8.301	9.090	520.7E6	585.1E6	228.338	241.805
19)	Endosulfa...	8.603	9.281	590.5E6	660.6E6	240.060	208.614
20)	Methoxychlor	8.450	9.453	273.2E6	304.3E6	242.007	217.690
21)	Endrin Ke...	8.797	9.683	708.8E6	737.0E6	242.831	216.273
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 > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012013.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 17:41
Operator : MJB
Sample : 0B01012-CAL9
Misc : A19K126, AB 200 ppb
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 14:50:01 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:43:43 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012016.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 18:31
Operator : MJB
Sample : 0B01012-CALA
Misc : A20B003, 9-42 0.5 ppb
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 14:52:38 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:52:24 2020
Response via : Initial Calibration
Integrator: ChemStation

MB 2/5/20

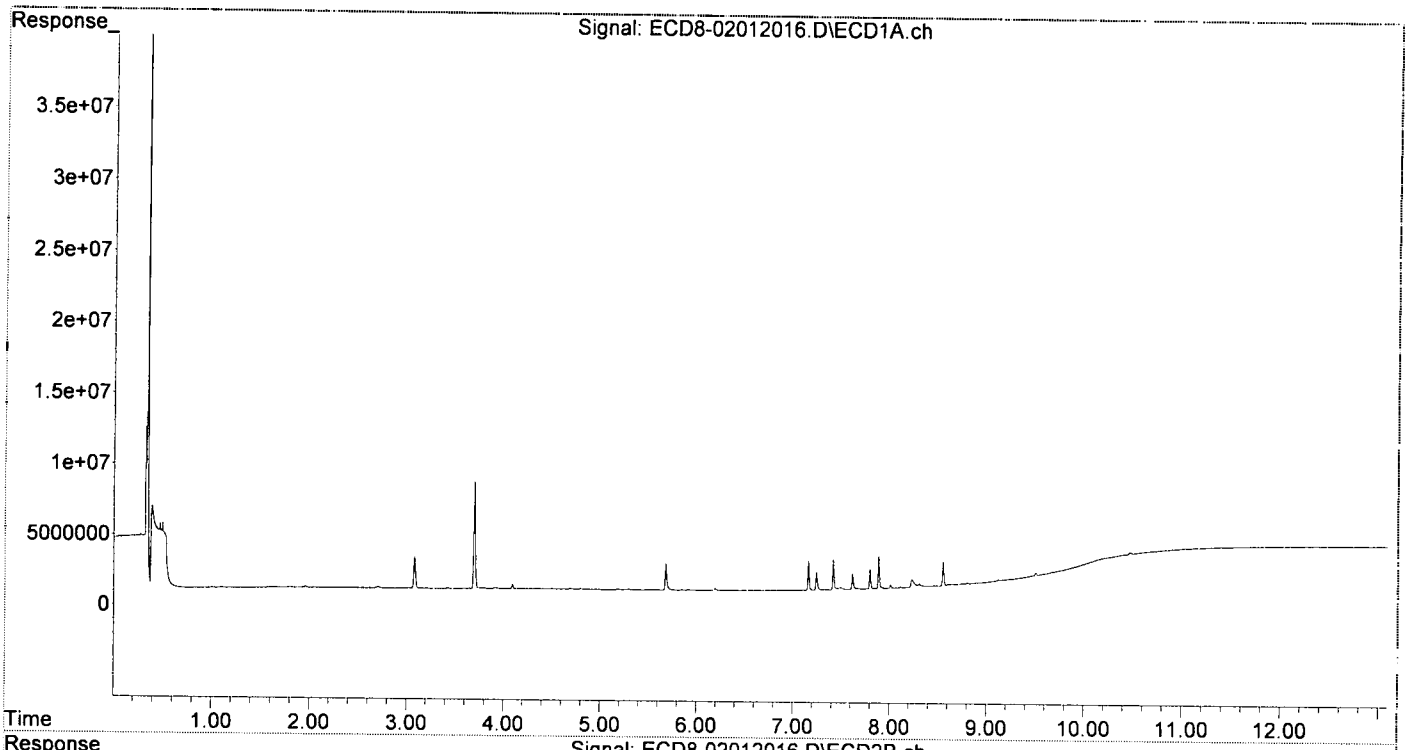
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22)	S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)		a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)		g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)		b-BHC	0.000	0.000	0	0	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...	3.080	3.680	2278541	2594123	0.590	0.586
24)		Hexachlor...	5.681	6.450	1894604	1616133	0.448	0.363
25)		Oxychlordane	7.160	7.908	2078442	1817597	0.589	0.503
26)		2,4'-DDE	7.243	8.113	1290069	1200073	0.472	0.516
27)		trans-Non...	7.417	8.182	2168811	2004659	0.563	0.512
28)		2,4'-DDD	7.615	8.487	1111537	960869	0.540	0.423
29)		2,4'-DDT	7.797	8.710	1418724	1210132	0.588	0.501
30)		cis-Nonac...	7.887	8.749	2296885	2084280	0.629	0.570
31)		Mirex	8.552	9.675	1693083	1475836	0.543	0.334 #
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

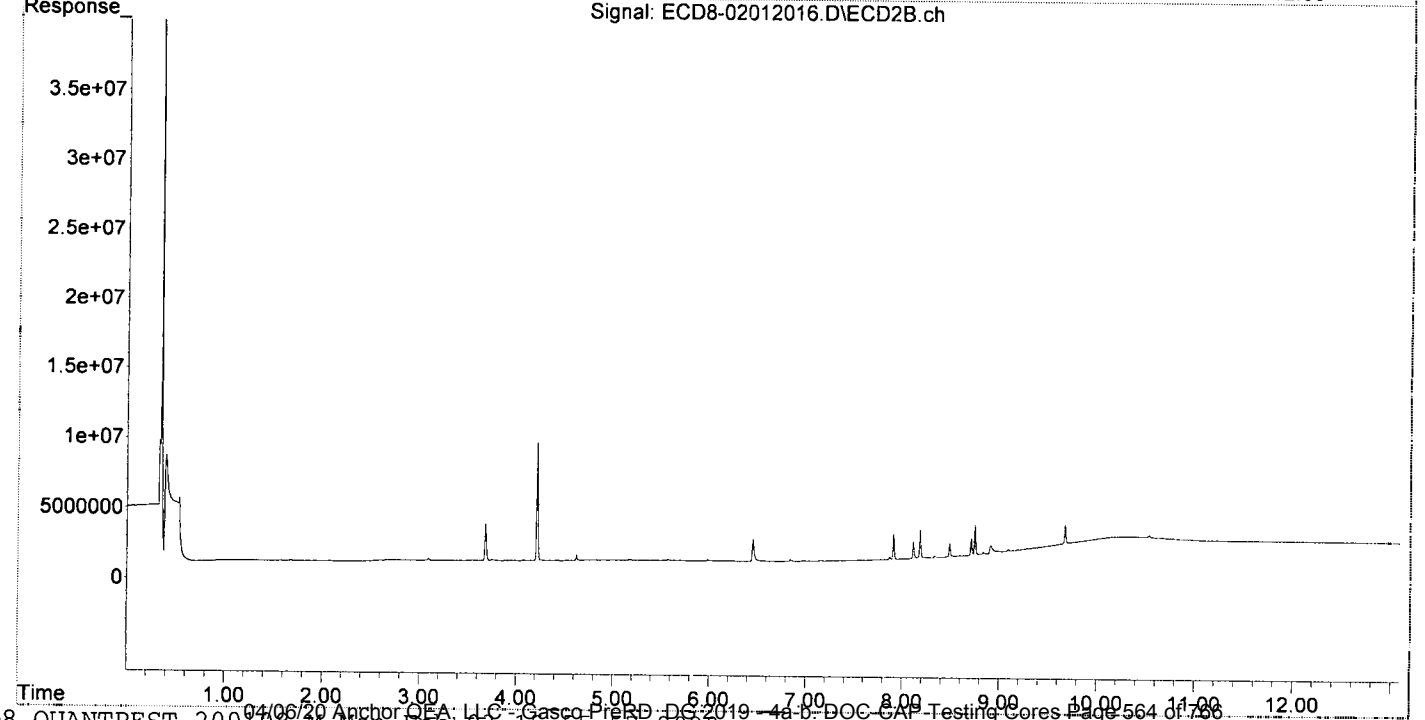
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012016.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 18:31
Operator : MJB
Sample : 0B01012-CALA
Misc : A20B003, 9-42 0.5 ppb
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 14:52:38 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:52:24 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012017.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 18:48
Operator : MJB
Sample : 0B01012-CALB
Misc : A19K263, 9-42 1 ppb
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 14:53:21 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:52:24 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/5/20

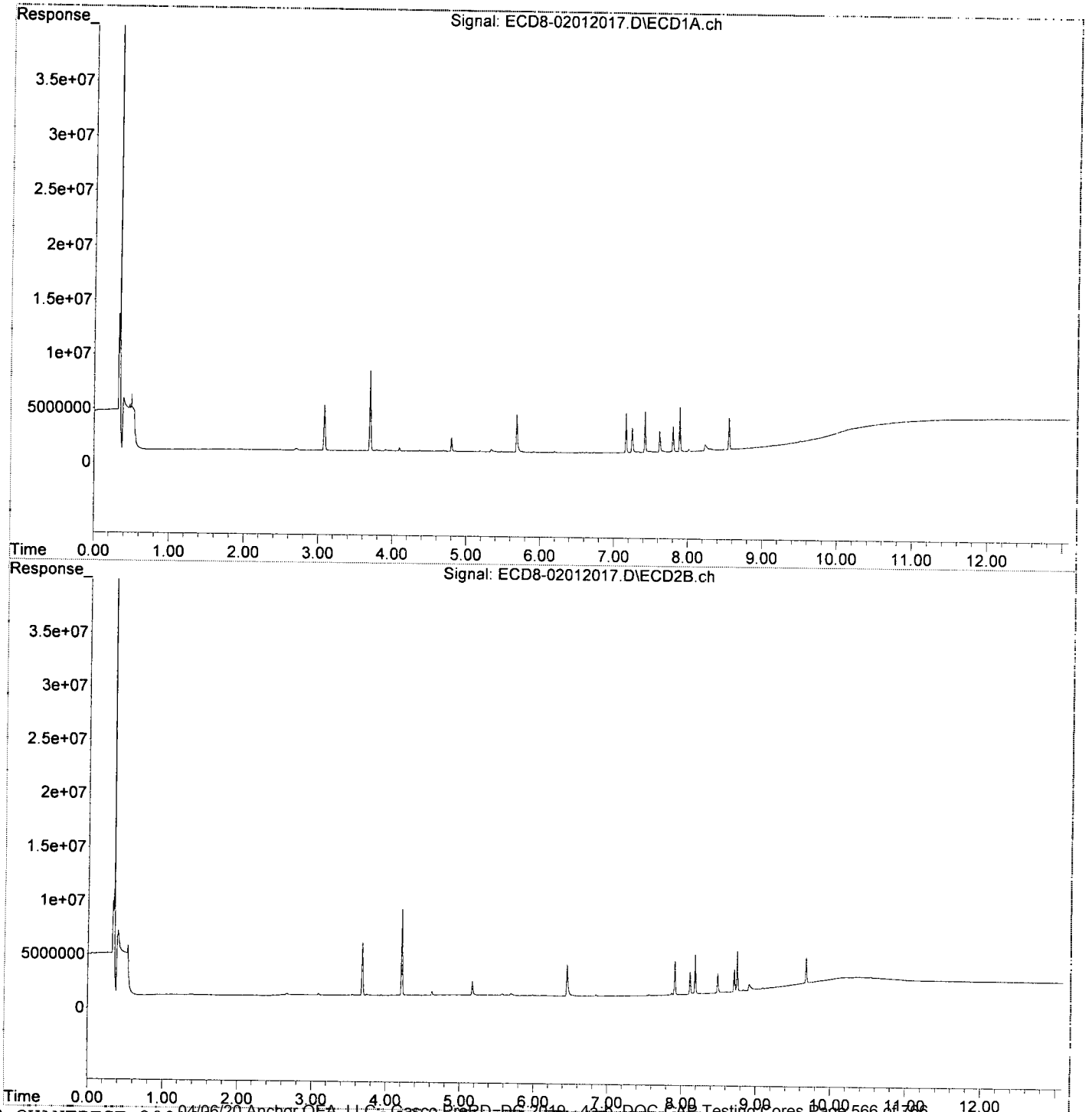
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. 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...	3.080	3.679	4206156	4878910	1.189	1.102
24)	Hexachlor...	5.680	6.450	3451879	2946247	0.938	0.794
25)	Oxychlordane	7.159	7.908	3626338	3174792	1.171	1.036
26)	2,4'-DDE	7.243	8.112	2295081	2104301	0.943	0.904
27)	trans-Non...	7.417	8.182	3768972	3680280	1.101	1.087
28)	2,4'-DDD	7.614	8.486	1934222	1795089	1.062	0.972
29)	2,4'-DDT	7.796	8.709	2374152	2100185	1.103	1.012
30)	cis-Nonac...	7.886	8.748	4089263	3801985	1.137	1.039
31)	Mirex	8.552	9.674	2918797	2854711	1.138	1.077
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 > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012017.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 18:48
Operator : MJB
Sample : 0B01012-CALB
Misc : A19K263, 9-42 1 ppb
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 14:53:21 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:52:24 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012018.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 19:05
Operator : MJB
Sample : 0B01012-CALC
Misc : A19K264, 9-42 2 ppb
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:17:29 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:52:24 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

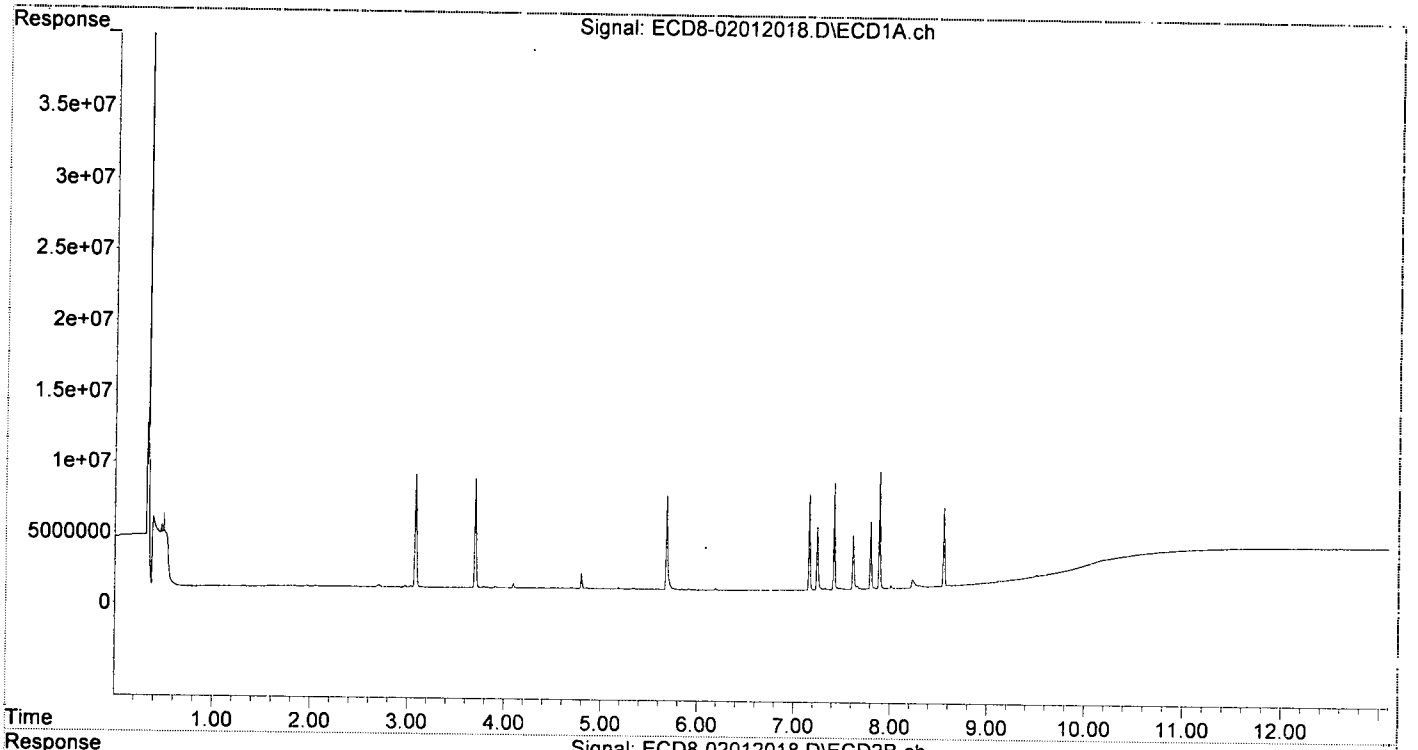
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. 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...	3.080	3.680	7973044	9306742	2.362	2.102
24)	Hexachlor...	5.680	6.449	6640927	5773353	1.943	1.709
25)	Oxychlordane	7.158	7.907	6769962	6050162	2.356	2.165
26)	2,4'-DDE	7.241	8.112	4488919	4260806	1.970	1.831
27)	trans-Non...	7.416	8.182	7569675	6830472	2.379	2.166
28)	2,4'-DDD	7.614	8.485	3838920	3680145	2.272	2.211
29)	2,4'-DDT	7.795	8.709	4727347	4187285	2.371	2.209
30)	cis-Nonac...	7.886	8.748	8283514	7352547	2.303	2.009
31)	Mirex	8.551	9.674	5534484	4870687	2.406	2.161
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

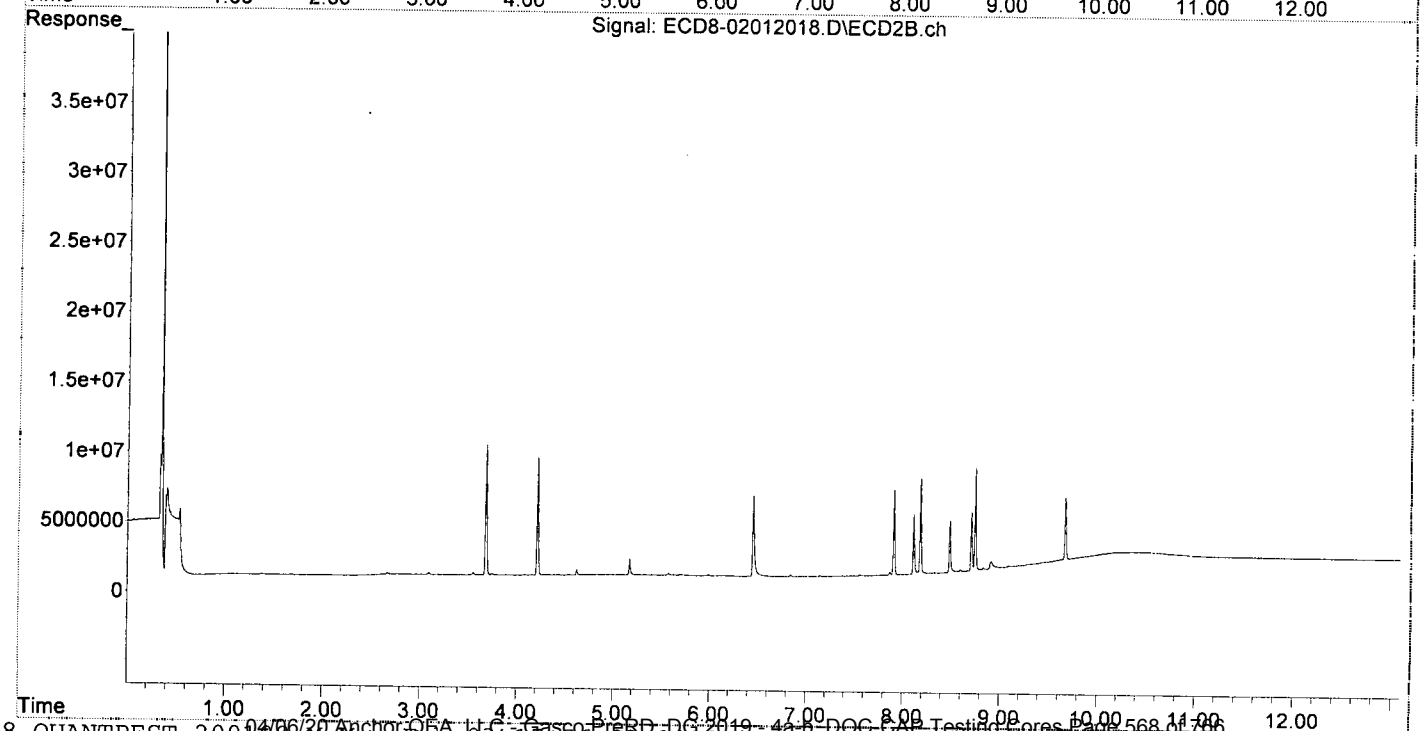
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012018.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 19:05
Operator : MJB
Sample : 0B01012-CALC
Misc : A19K264, 9-42 2 ppb
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:17:29 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:52:24 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012019.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 19:22
Operator : MJB
Sample : 0B01012-CALD
Misc : A19K265, 9-42 5 ppb
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:18:09 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:52:24 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

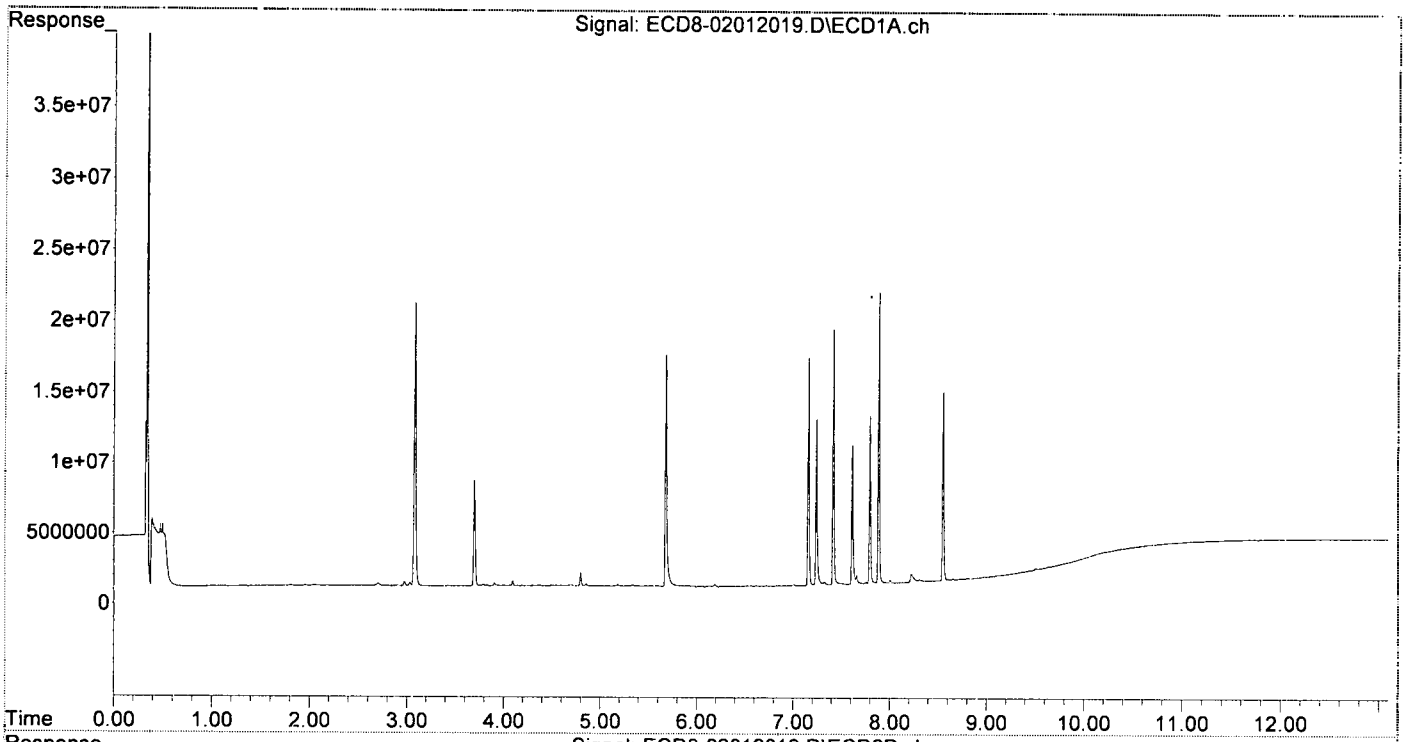
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. 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...	3.081	3.680	20008341	23748664	6.117	5.363
24)	Hexachlor...	5.680	6.449	16447257	15411069	5.038	4.817
25)	Oxychlordane	7.159	7.908	16184302	15509955	5.911	5.869
26)	2,4'-DDE	7.241	8.111	11743726	10906405	5.373	4.686
27)	trans-Non...	7.416	8.182	18115649	16987074	5.929	5.638
28)	2,4'-DDD	7.613	8.485	9882639	9298557	6.114	5.886
29)	2,4'-DDT	7.795	8.709	11872885	11358035	6.227	6.298
30)	cis-Nonac...	7.886	8.748	20605958	19585336	5.730	5.353
31)	Mirex	8.551	9.674	13322527	11467148	6.181	5.694
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

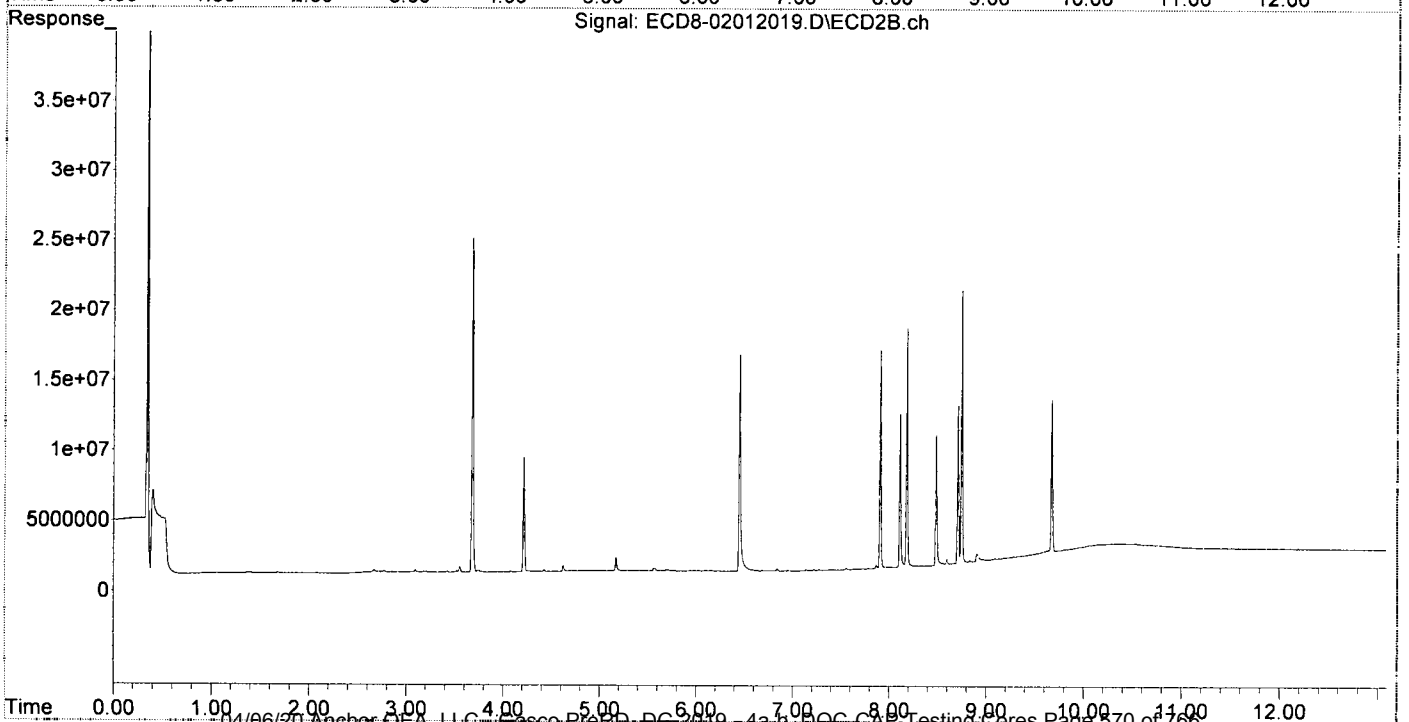
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012019.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 19:22
Operator : MJB
Sample : 0B01012-CALD
Misc : A19K265, 9-42 5 ppb
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:18:09 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:52:24 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012020.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 19:38
Operator : MJB
Sample : 0B01012-CALE
Misc : A19K266, 9-42 10 ppb
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:18:44 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:52:24 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20.

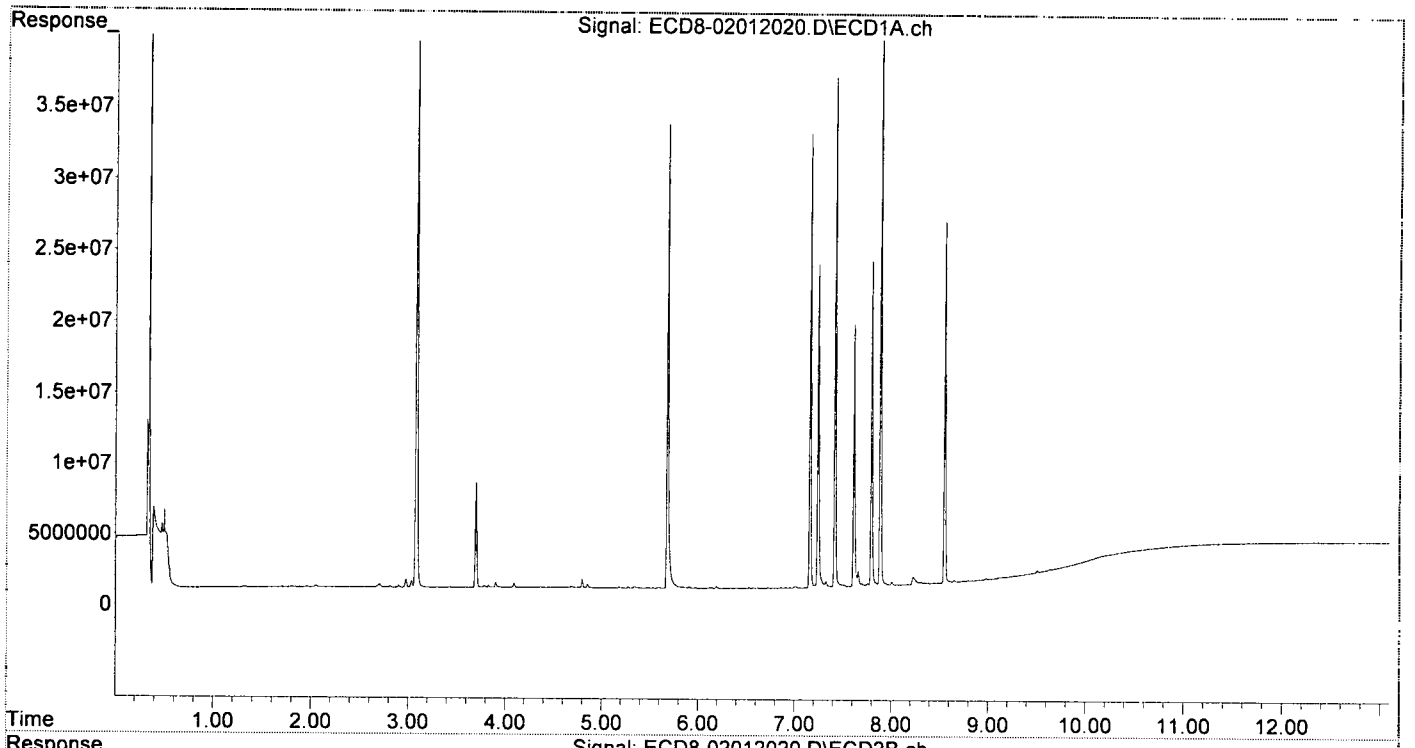
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. 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...	3.081	3.680	38377580	47088422	11.877	10.633
24)	Hexachlor...	5.679	6.449	32647902	28525390	10.167	9.020
25)	Oxychlordane	7.158	7.908	31984005	29890292	11.910	11.474
26)	2,4'-DDE	7.240	8.112	22804364	21958095	10.576	9.435
27)	trans-Non...	7.416	8.182	35883154	34402162	11.922	11.557
28)	2,4'-DDD	7.613	8.484	18534620	18062773	11.622	11.566
29)	2,4'-DDT	7.795	8.708	22928210	22137862	12.206	12.378
30)	cis-Nonac...	7.886	8.748	40436692	38325797	11.245	10.474
31)	Mirex	8.551	9.673	25430296	20962075	11.052	10.743
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

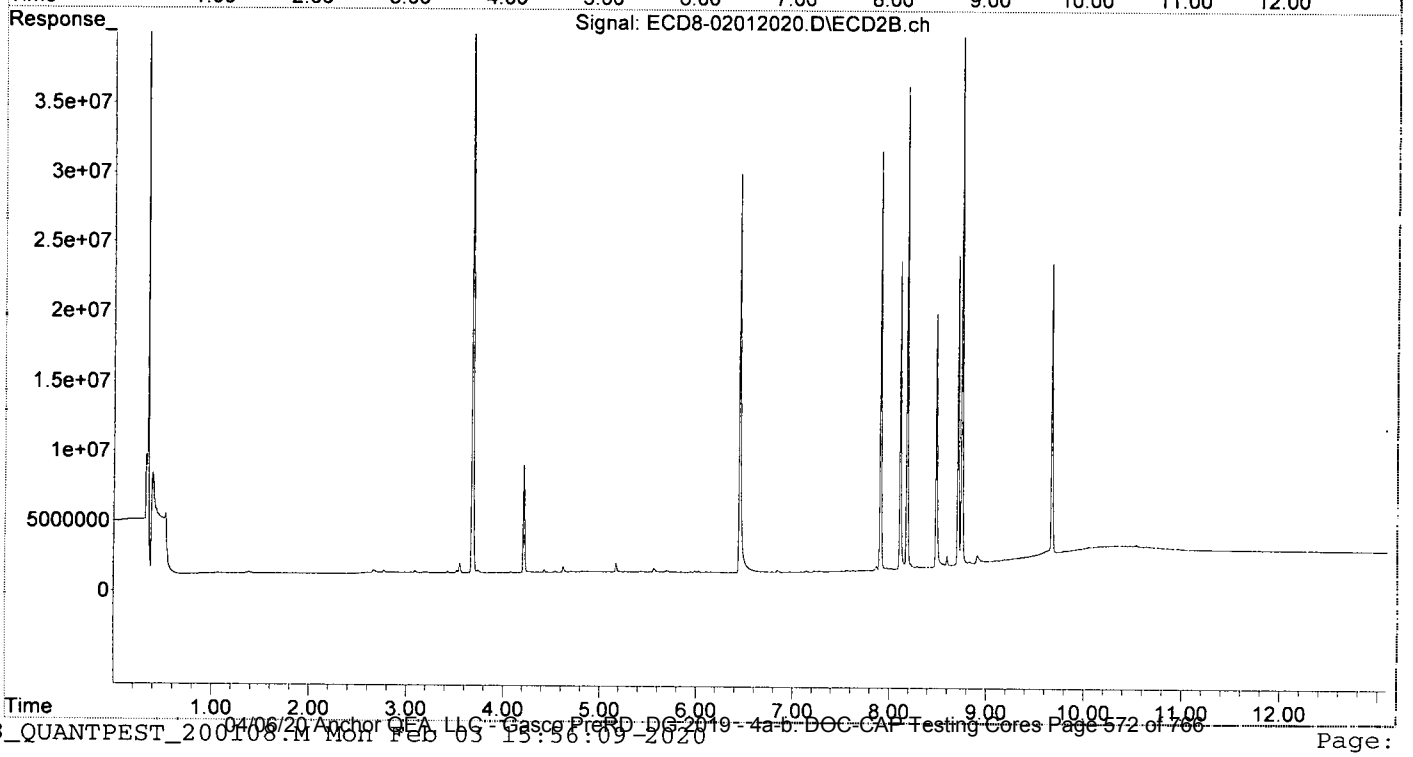
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012020.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 19:38
Operator : MJB
Sample : 0B01012-CALE
Misc : A19K266, 9-42 10 ppb
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:18:44 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:52:24 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012021.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 19:55
Operator : MJB
Sample : 0B01012-CALF
Misc : A19J407, 9-42 25 ppb
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:19:17 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:52:24 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/4/20

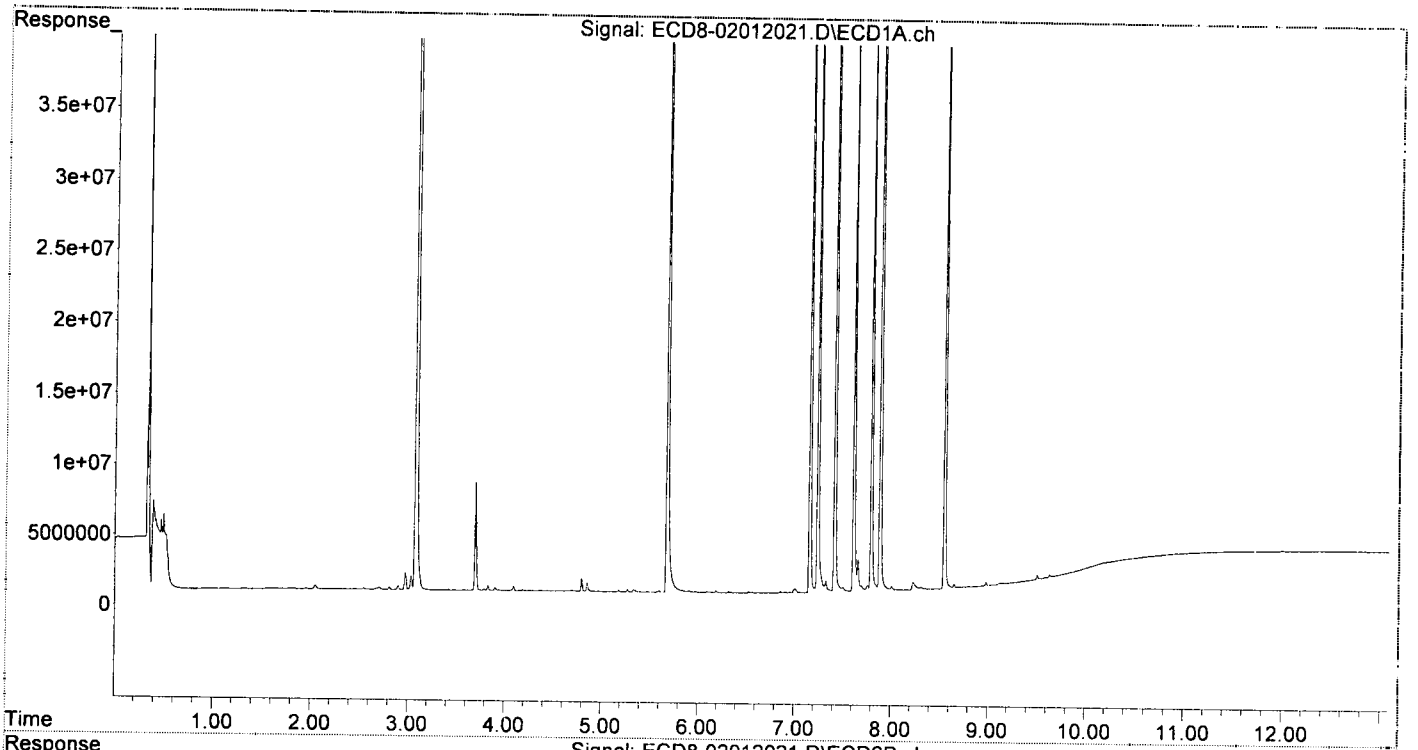
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. 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...	3.081	3.680	87282581	109.6E6	27.383	24.749
24)	Hexachlor...	5.679	6.449	77942708	72282140	24.622	22.836
25)	Oxychlordane	7.158	7.908	72990996	71584795	27.667	27.556
26)	2,4'-DDE	7.240	8.111	52202377	51113359	24.496	21.963
27)	trans-Non...	7.416	8.181	81812536	80789047	27.484	27.123
28)	2,4'-DDD	7.612	8.485	42203429	42962025	26.742	27.382
29)	2,4'-DDT	7.794	8.708	53607879	53723446	28.869	29.763
30)	cis-Nonac...	7.887	8.748	91550344	90384875	25.458	24.702
31)	Mirex	8.552	9.673	55829392	47784220	26.793	24.787
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

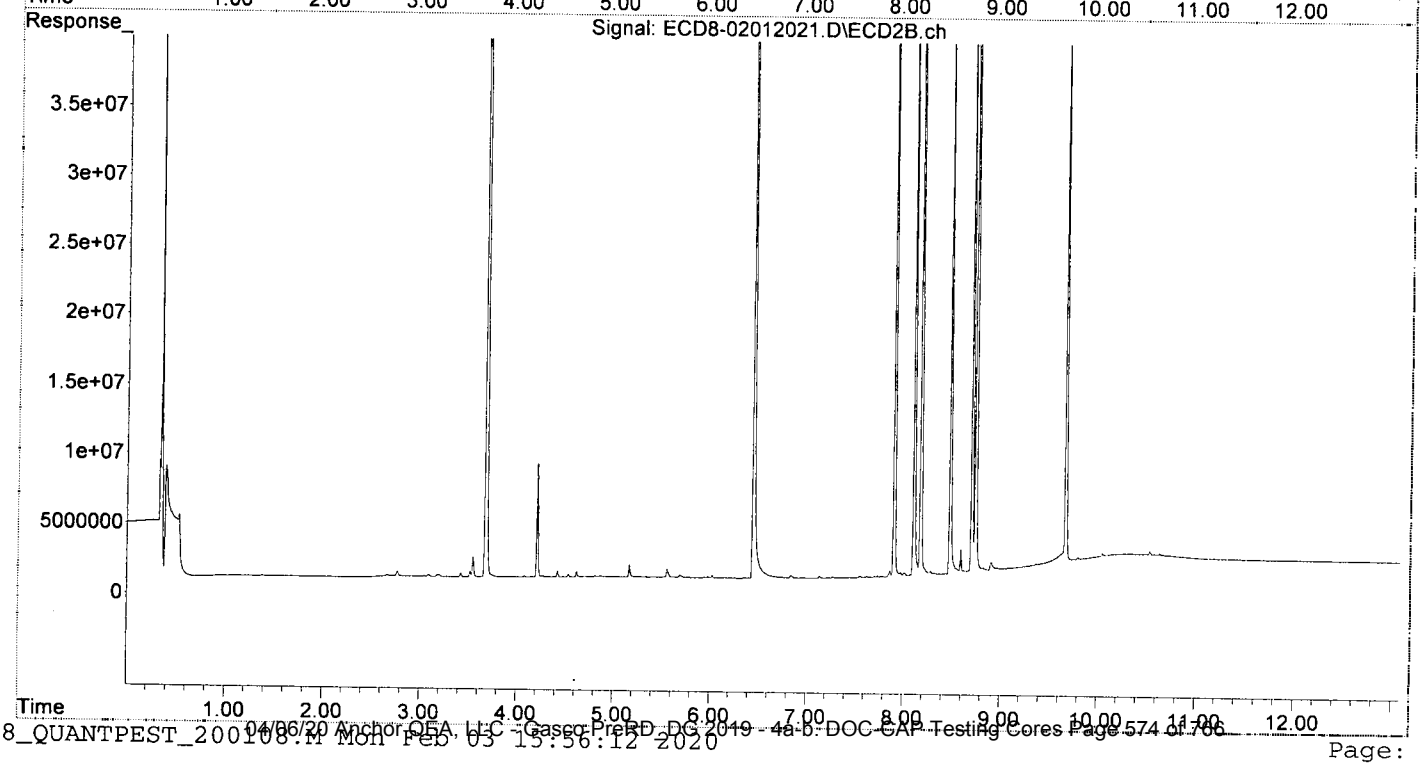
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012021.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 19:55
Operator : MJB
Sample : 0B01012-CALF
Misc : A19J407, 9-42 25 ppb
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:19:17 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:52:24 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012022.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 20:12
Operator : MJB
Sample : 0B01012-CALG
Misc : A19J408, 9-42 50 ppb
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 14:51:48 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:43:43 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/5/20

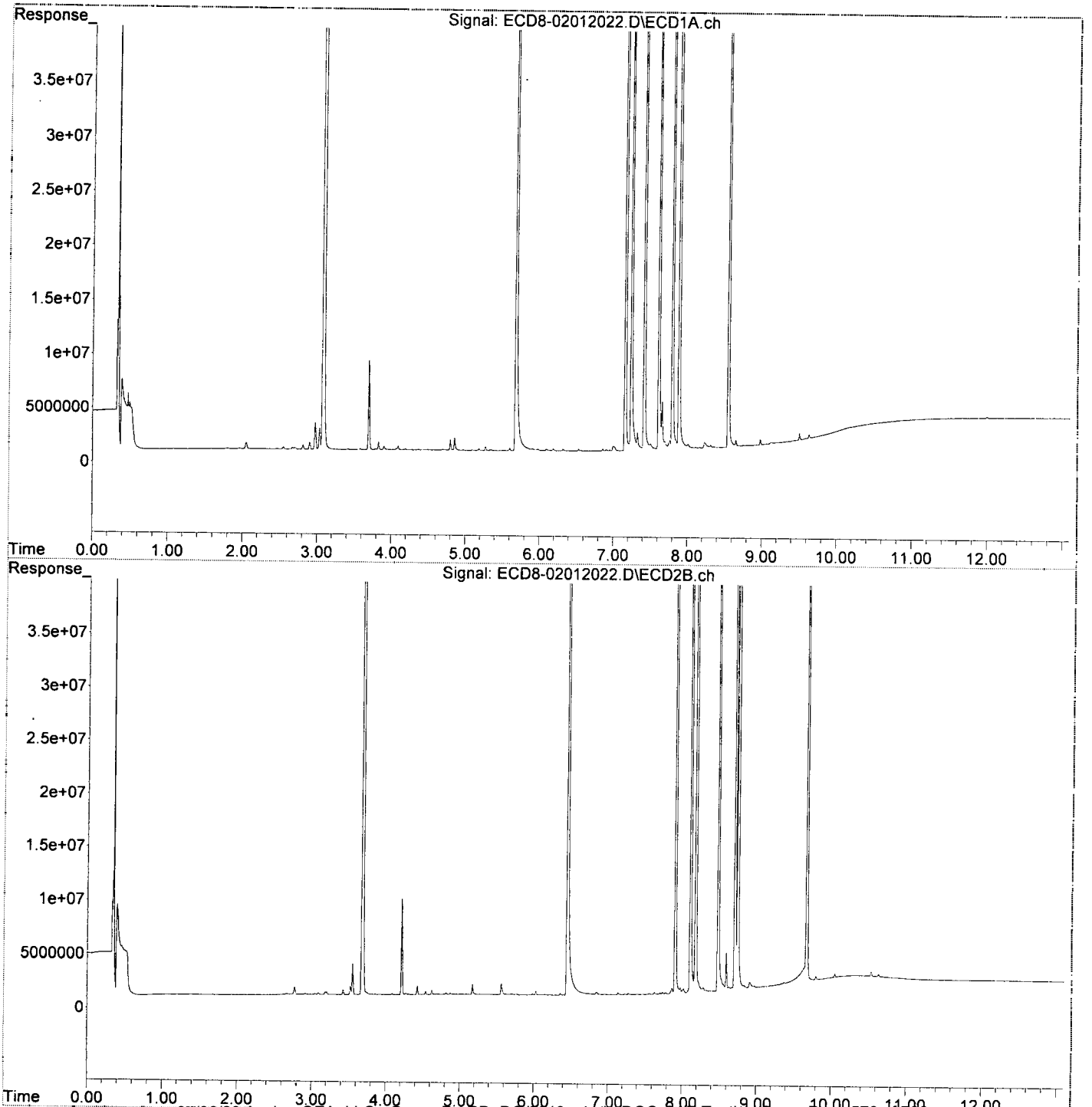
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. 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...	3.080	3.680	186.6E6	249.2E6	59.677	56.267
24)	Hexachlor...	5.679	6.448	165.7E6	168.5E6	53.128	52.182
25)	Oxychlordane	7.158	7.907	160.5E6	160.7E6	62.259	61.123
26)	2,4'-DDE	7.239	8.110	116.4E6	117.1E6	55.345	50.334
27)	trans-Non...	7.415	8.182	177.0E6	179.2E6	60.066	59.244
28)	2,4'-DDD	7.611	8.484	93133543	99247235	59.533	61.540
29)	2,4'-DDT	7.793	8.708	117.1E6	122.8E6	63.857	65.773
30)	cis-Nonac...	7.885	8.748	200.1E6	209.3E6	55.640	57.189
31)	Mirex	8.551	9.674	117.1E6	104.8E6	56.532	53.655
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 > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012022.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 20:12
Operator : MJB
Sample : 0B01012-CALG
Misc : A19J408, 9-42 50 ppb
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 14:51:48 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:43:43 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012023.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 20:29
Operator : MJB
Sample : 0B01012-CALH
Misc : A19J409, 9-42 100 ppb
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:19:50 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:52:24 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

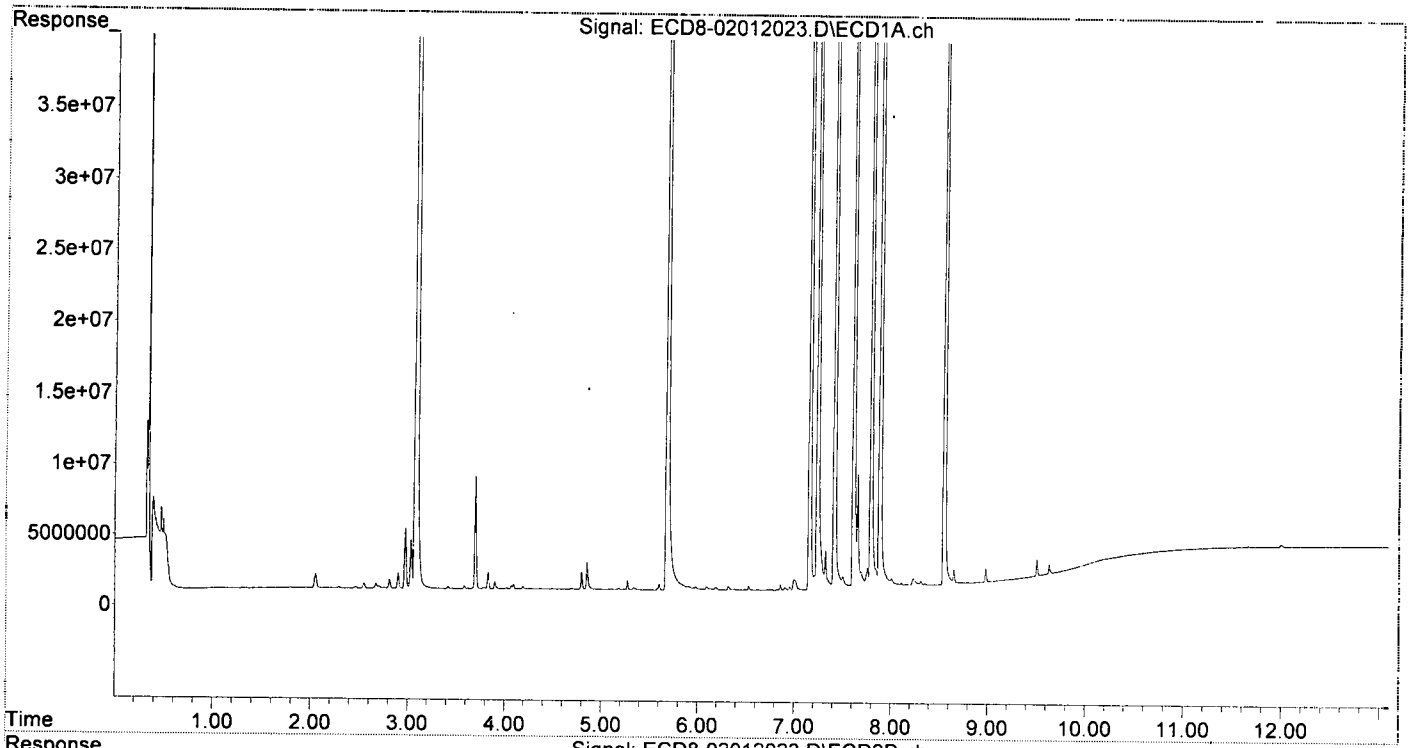
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. 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...	3.081	3.681	351.0E6	469.1E6	115.847	105.921
24)	Hexachlor...	5.679	6.448	320.6E6	327.6E6	105.137	97.947
25)	Oxychlordane	7.158	7.907	299.8E6	312.8E6	120.398	116.095
26)	2,4'-DDE	7.239	8.110	223.0E6	238.4E6	108.176	102.455
27)	trans-Non...	7.415	8.181	344.0E6	367.6E6	118.318	117.687
28)	2,4'-DDD	7.611	8.484	188.9E6	195.5E6	122.173	115.717
29)	2,4'-DDT	7.794	8.708	229.9E6	253.6E6	127.470	128.024
30)	cis-Nonac...	7.885	8.748	379.3E6	398.9E6	105.487	109.031
31)	Mirex	8.551	9.674	232.7E6	204.2E6	112.646	101.092
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

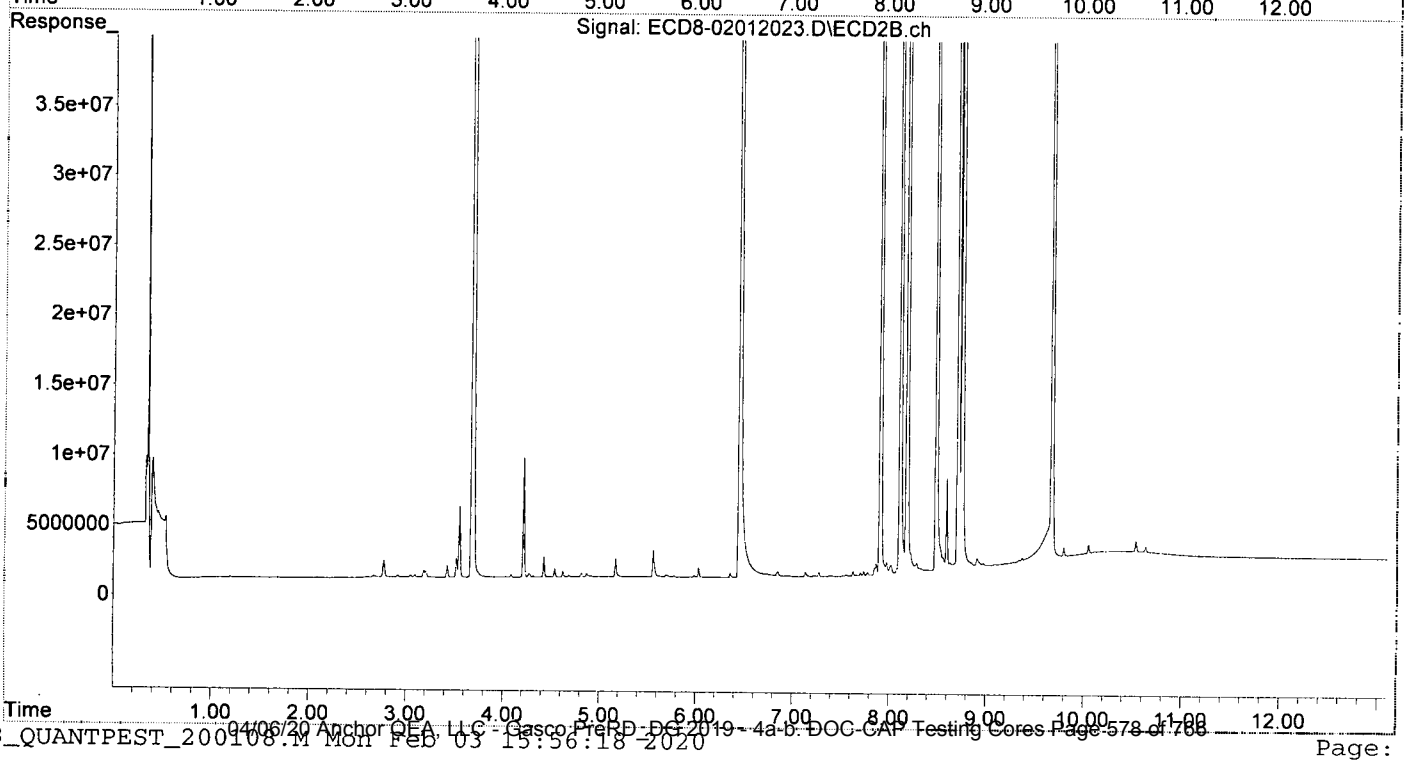
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012023.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 20:29
Operator : MJB
Sample : 0B01012-CALH
Misc : A19J409, 9-42 100 ppb
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:19:50 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:52:24 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012024.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 20:46
Operator : MJB
Sample : 0B01012-CALI
Misc : A19K262, 9-42 200 ppb
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:20:23 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:52:24 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

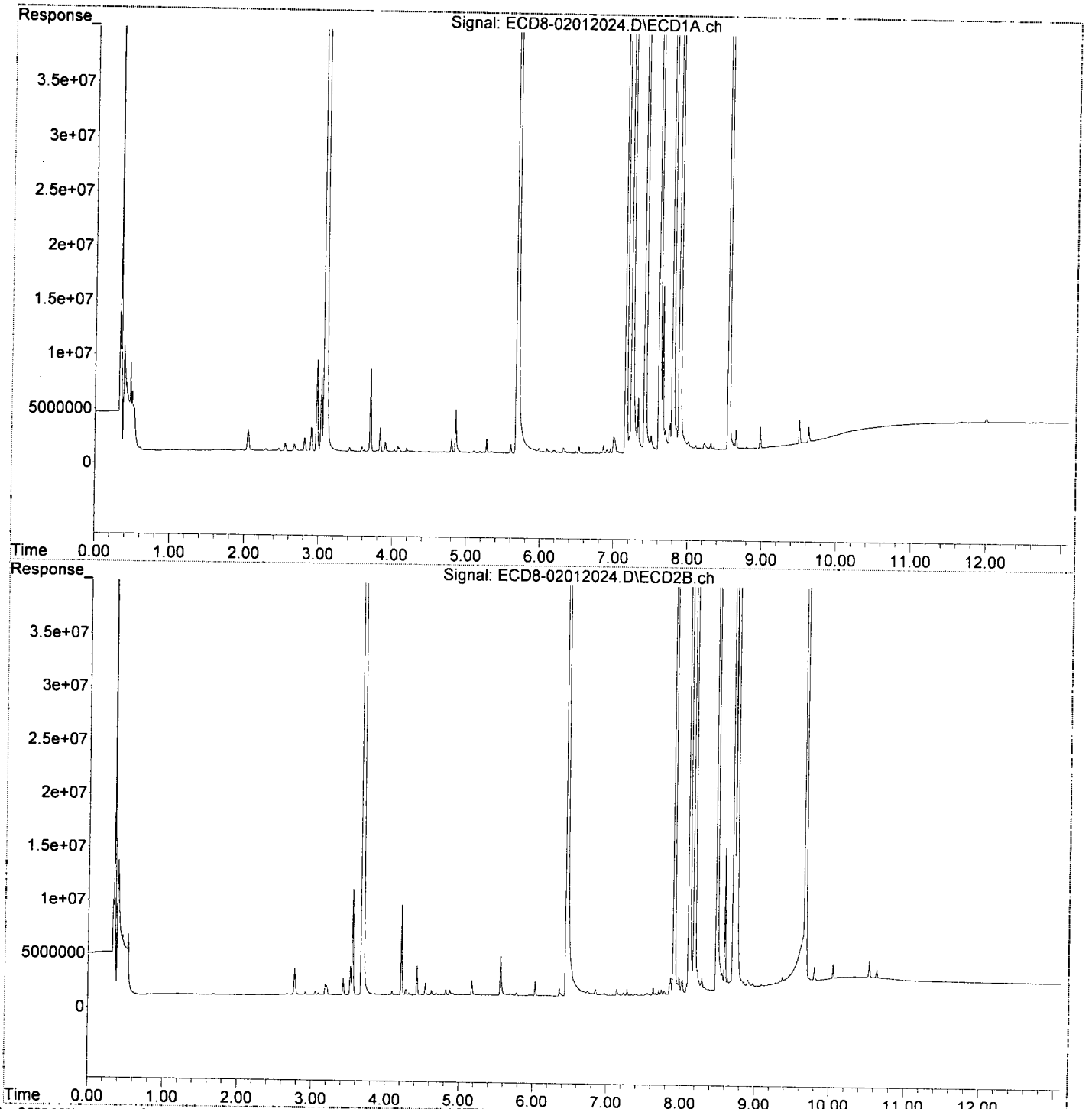
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22)	S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)		a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)		g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)		b-BHC	0.000	0.000	0	0	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...	3.081	3.681	752.3E6	1068.1E6	271.631	241.188
24)		Hexachlor...	5.679	6.449	700.2E6	782.5E6	243.921	214.523
25)		Oxychlordane	7.157	7.907	643.7E6	730.3E6	286.187	254.848
26)		2,4'-DDE	7.238	8.109	482.9E6	534.7E6	246.236	229.746
27)		trans-Non...	7.415	8.181	728.0E6	810.4E6	258.179	242.594
28)		2,4'-DDD	7.610	8.483	416.9E6	469.3E6	276.948	249.082
29)		2,4'-DDT	7.792	8.707	502.1E6	583.6E6	290.241	261.709
30)		cis-Nonac...	7.884	8.747	835.6E6	936.1E6	232.372	255.838
31)		Mirex	8.550	9.673	487.2E6	479.6E6	236.360	218.311
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 > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012024.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 20:46
Operator : MJB
Sample : 0B01012-CALI
Misc : A19K262, 9-42 200 ppb
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:20:23 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:52:24 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012027.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 21:36
Operator : MJB
Sample : 0B01012-CALJ
Misc : A20B004, CHLOR 10 ppb
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:22:42 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:22:32 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

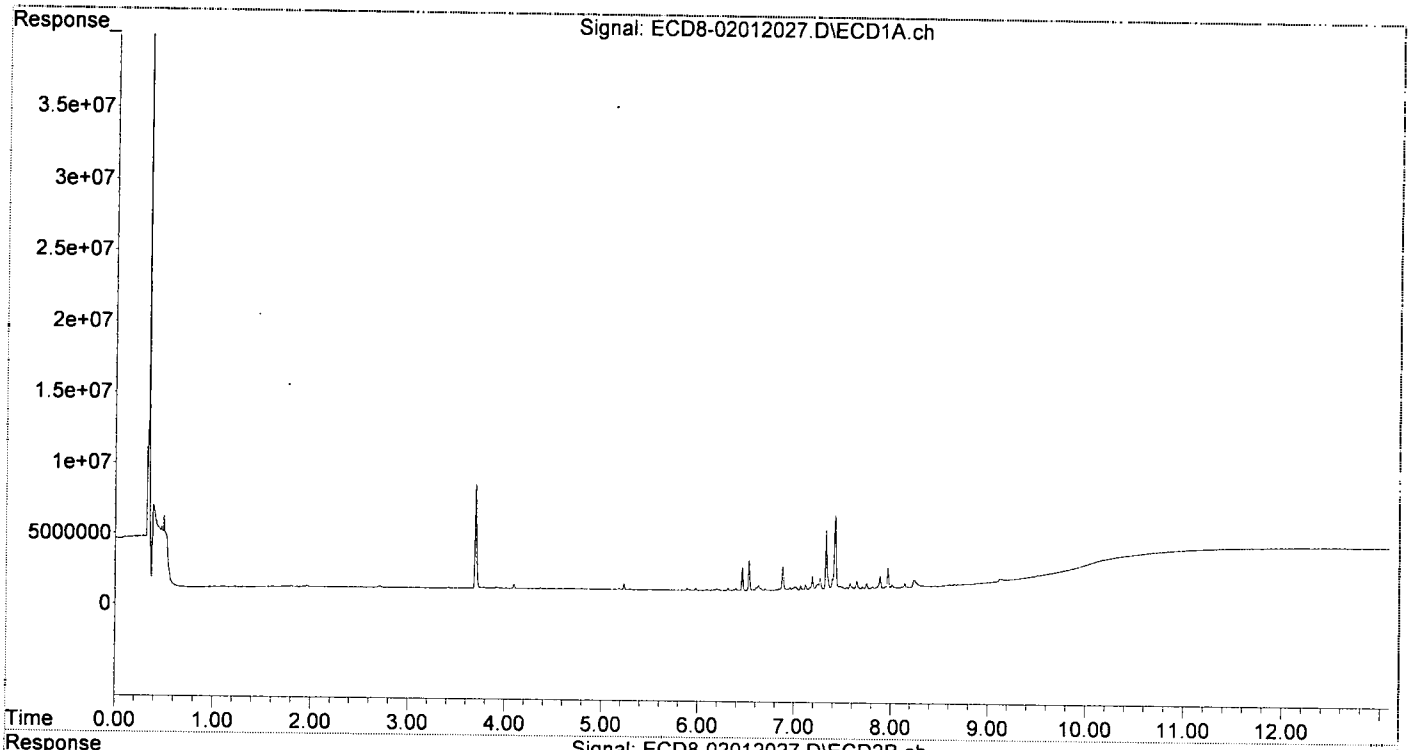
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22)	S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)		a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)		g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)		b-BHC	0.000	0.000	0	0	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...	7.328	8.118	4222162	4084683	11.307	9.494
33)		Chlordane...	7.421	8.226	5231315	3718290	11.424	10.313
34)		Chlordane...	7.968	8.889	1477991	1246903	12.619	11.399
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

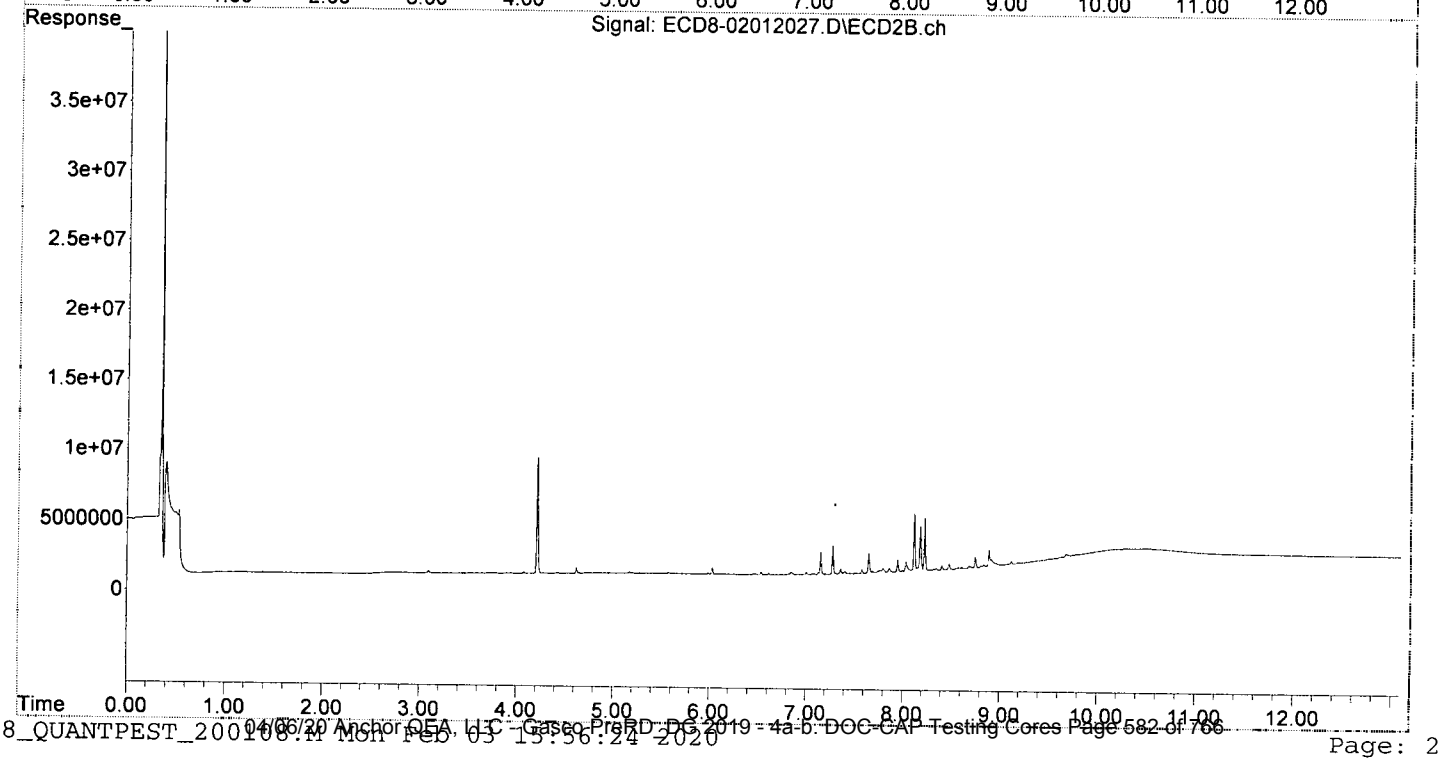
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012027.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 21:36
Operator : MJB
Sample : 0B01012-CALJ
Misc : A20B004, CHLOR 10 ppb
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:22:42 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:22:32 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012028.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 21:53
Operator : MJB
Sample : 0B01012-CALK
Misc : A19K307, CHLOR 50 ppb
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:23:18 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:22:31 2020
Response via : Initial Calibration
Integrator: ChemStation

MB 2/3/20

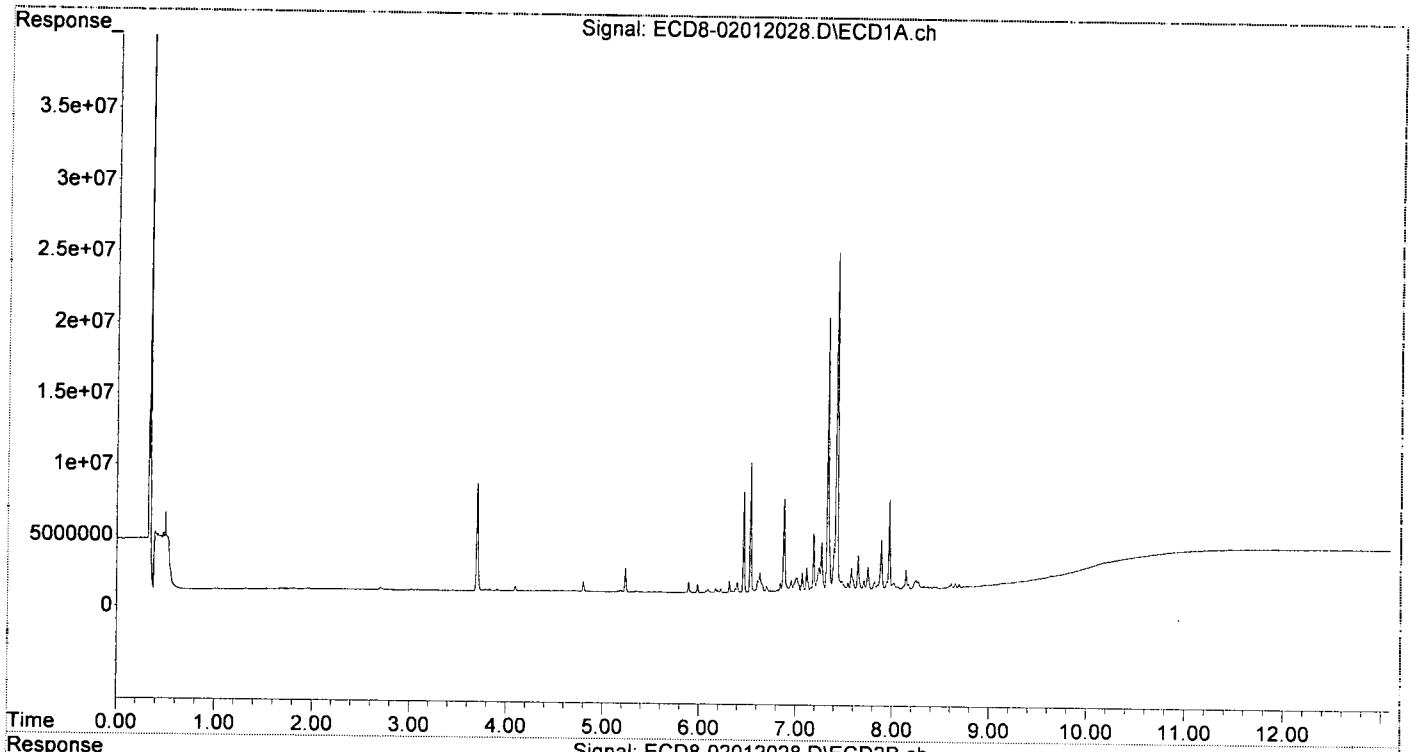
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. 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...	7.327	8.119	19331862	20134199	51.772	46.798
33)	Chlordane...	7.421	8.226	23846059	15910016	52.075	44.127
34)	Chlordane...	7.967	8.889	6361865	5712561	54.318	52.226
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

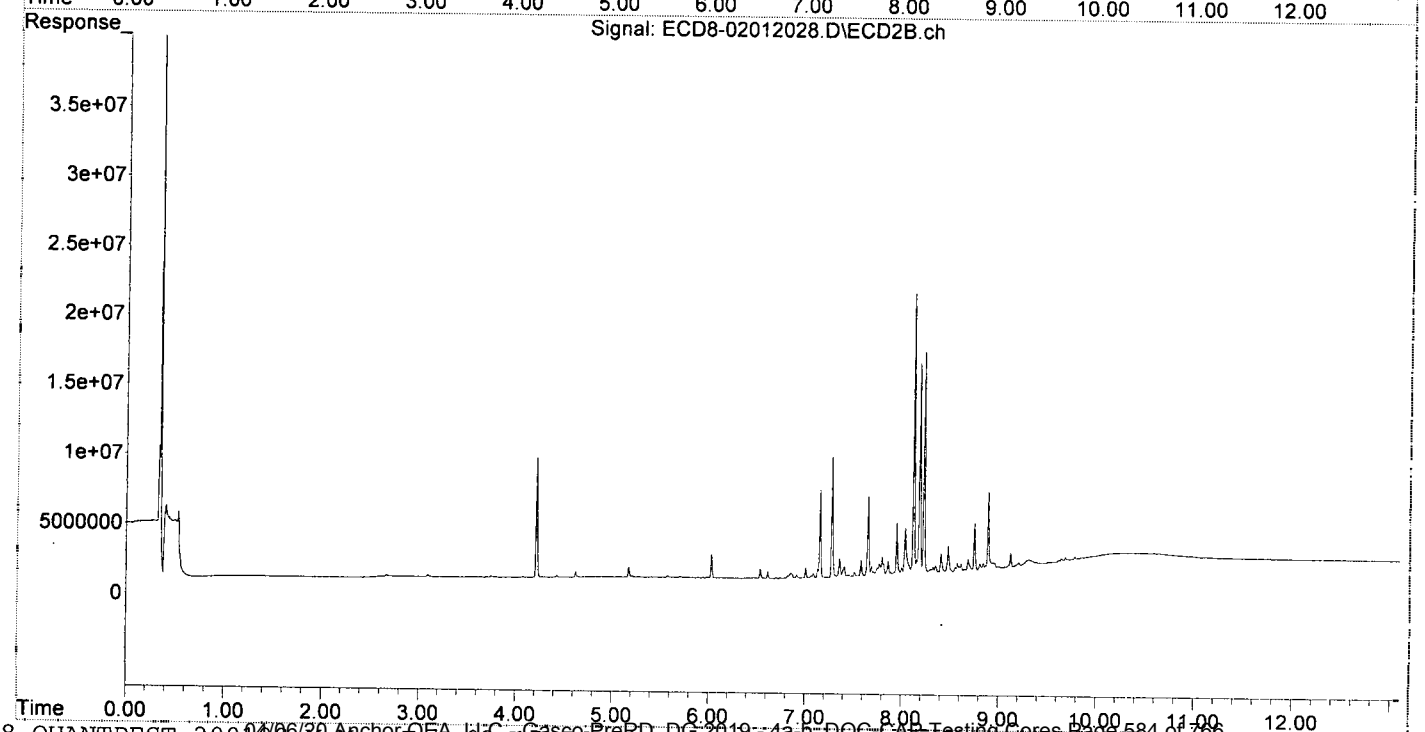
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012028.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 21:53
Operator : MJB
Sample : 0B01012-CALK
Misc : A19K307, CHLOR 50 ppb
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:23:18 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:22:31 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012029.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 22:10
Operator : MJB
Sample : 0B01012-CALL
Misc : A19K308, CHLOR 100 ppb
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:23:48 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:22:31 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

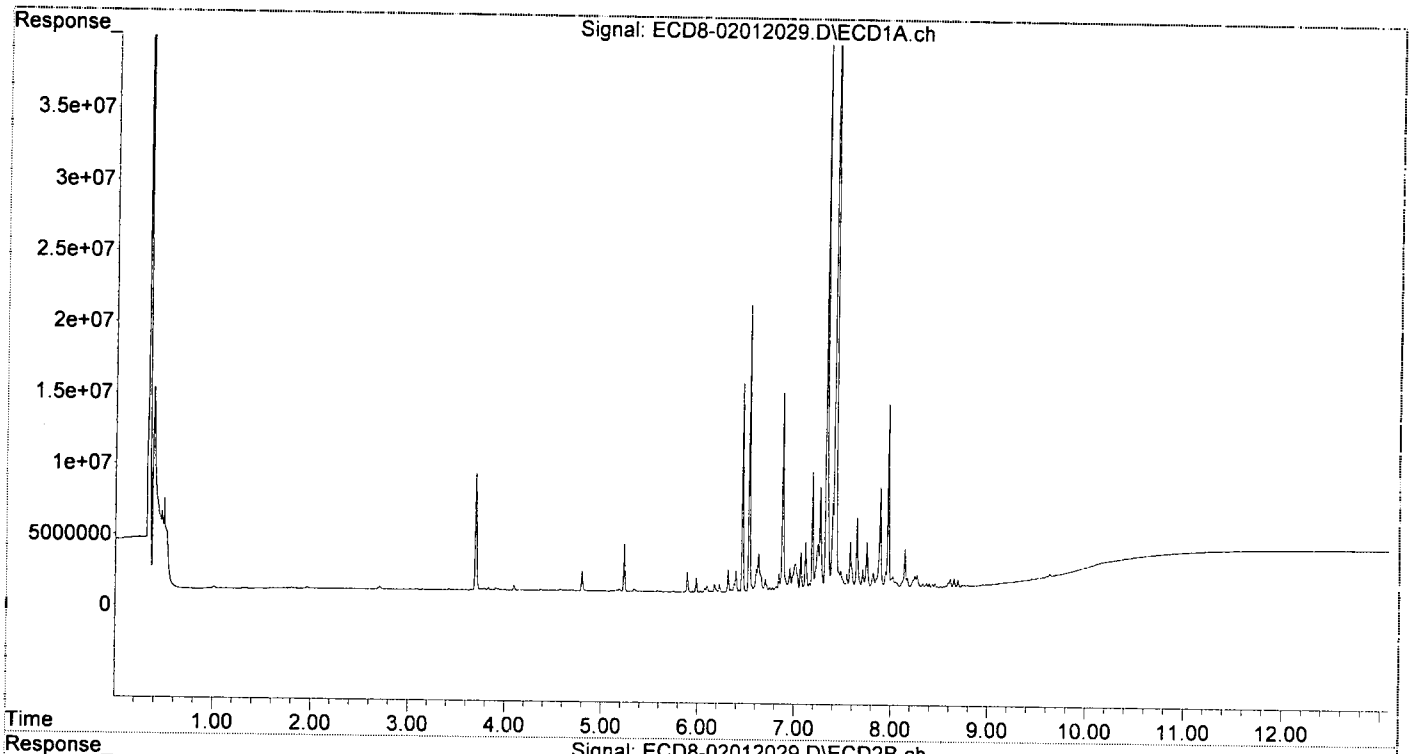
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. 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...	7.326	8.118	40982018	43332192	109.752	100.718
33)	Chlordane...	7.420	8.225	50068645	35221978	109.340	97.689
34)	Chlordane...	7.968	8.889	13031823	11647984	111.267	106.489
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

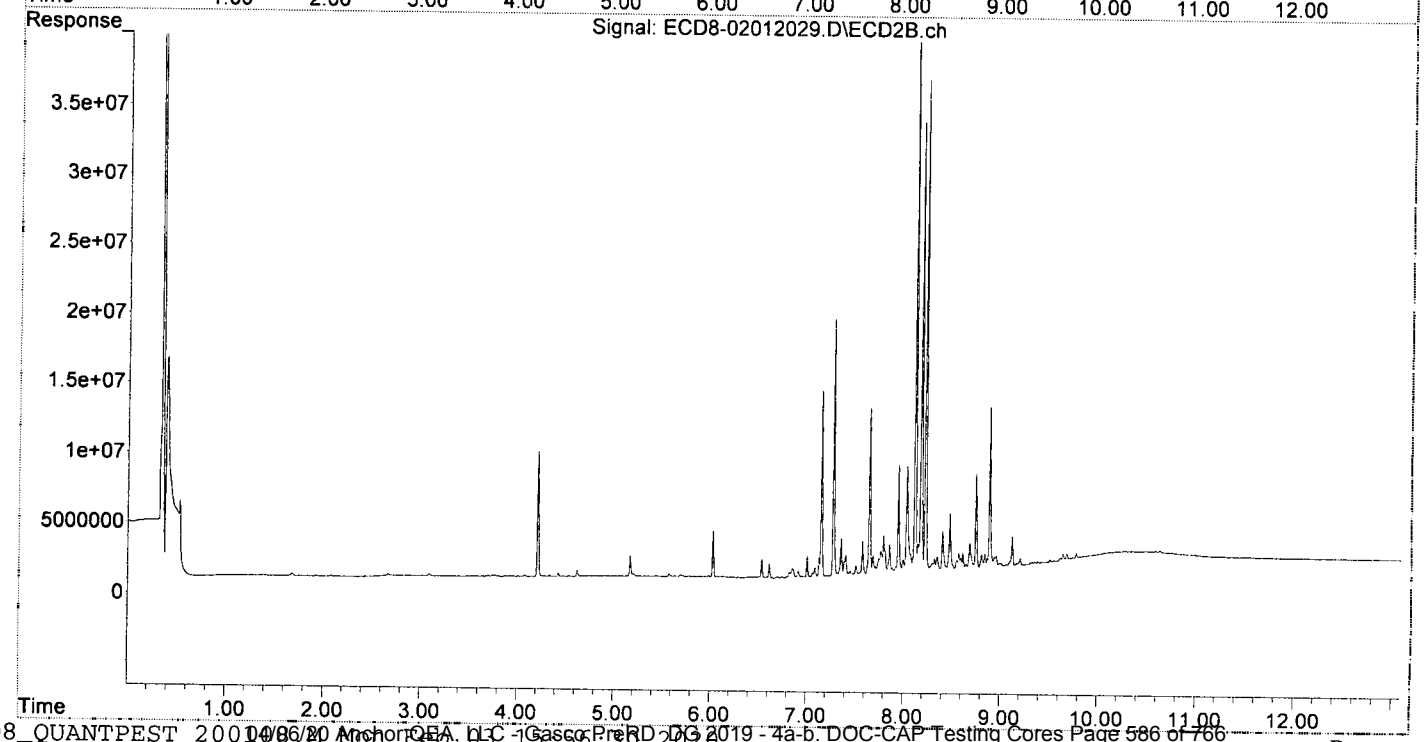
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012029.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 22:10
Operator : MJB
Sample : 0B01012-CALL
Misc : A19K308, CHLOR 100 ppb
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:23:48 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:22:31 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012030.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 22:27
Operator : MJB
Sample : 0B01012-CALM
Misc : A19K309, CHLOR 200 ppb
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:24:19 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:22:31 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

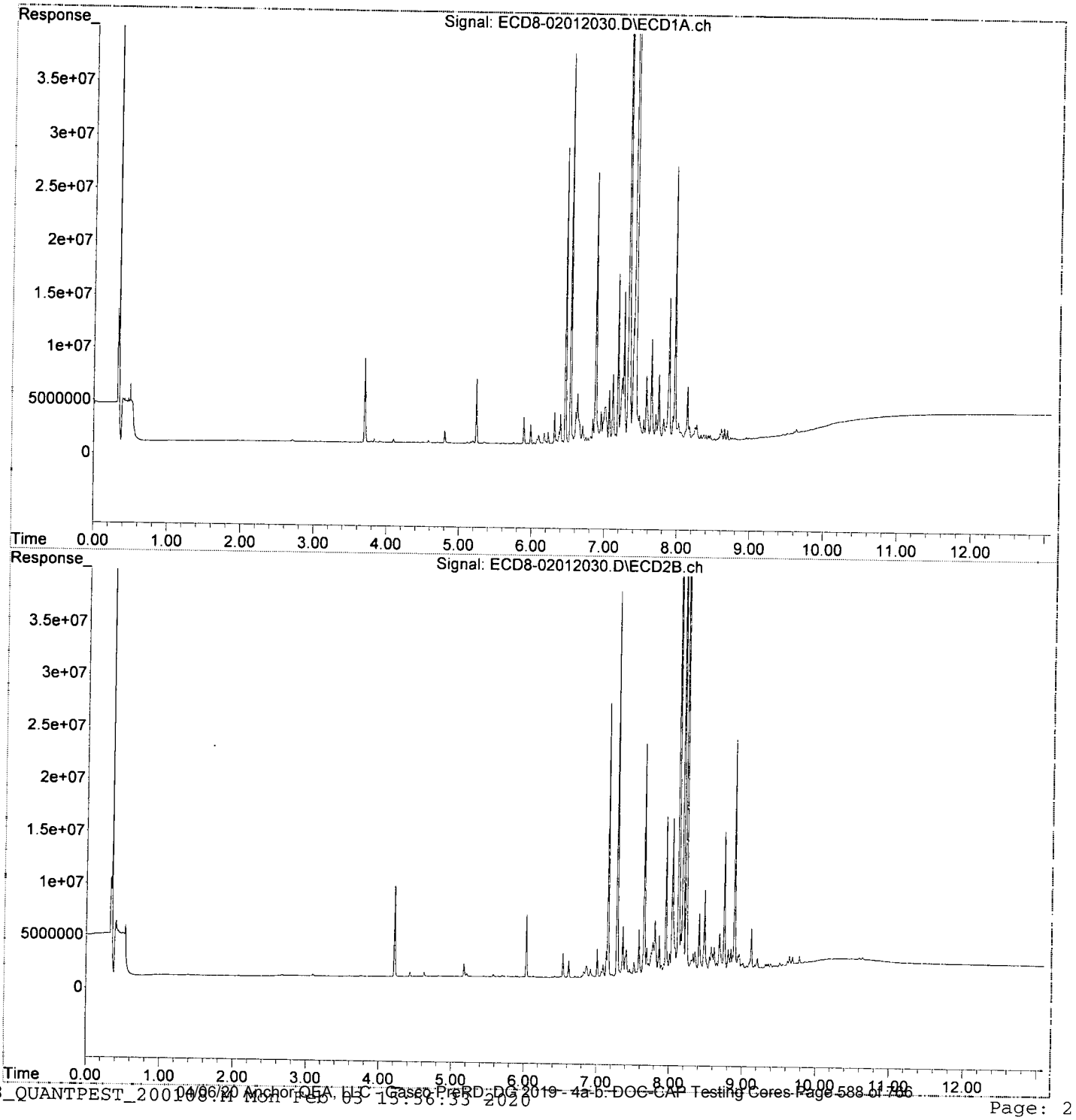
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. 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...	7.326	8.118	79833983	83675101	213.799	194.488
33)	Chlordane...	7.420	8.225	97470804	70682705	212.857	196.040
34)	Chlordane...	7.967	8.889	25873455	22148725	220.911	202.489
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 > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012030.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 22:27
Operator : MJB
Sample : 0B01012-CALM
Misc : A19K309, CHLOR 200 ppb
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:24:19 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:22:31 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012031.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 22:43
Operator : MJB
Sample : 0B01012-CALN
Misc : A19K310, CHLOR 500 ppb
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:21:54 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:52:24 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/5/20

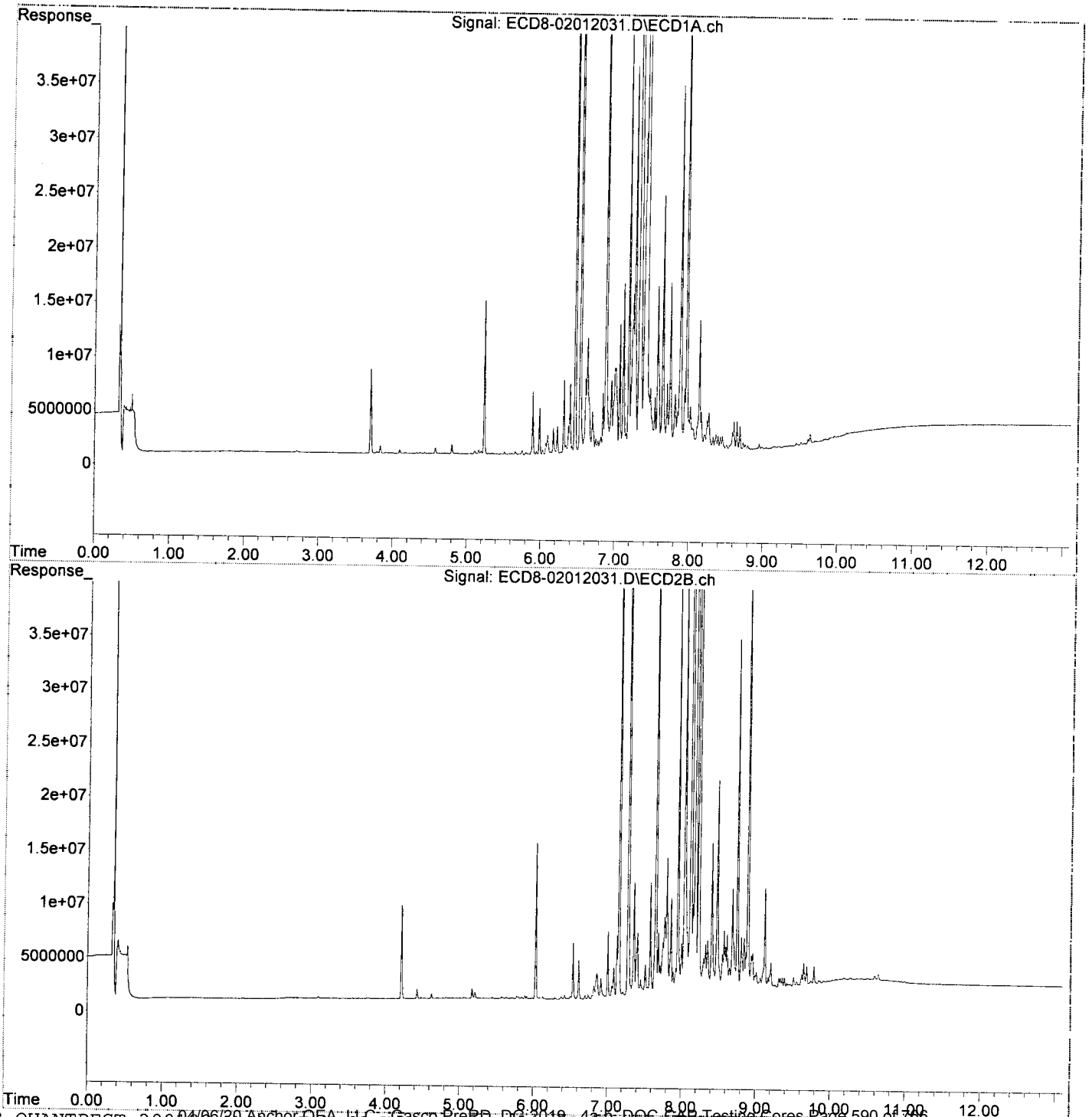
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22)	S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)		a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)		g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)		b-BHC	0.000	0.000	0	0	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...	7.326	8.117	194.2E6	218.0E6	520.166	506.642
33)		Chlordane...	7.419	8.225	234.2E6	182.0E6	511.405	504.702
34)		Chlordane...	7.966	8.889	61785001	58496819	527.529	534.792
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 > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012031.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 22:43
Operator : MJB
Sample : 0B01012-CALN
Misc : A19K310, CHLOR 500 ppb
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:21:54 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:52:24 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012032.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 23:00
Operator : MJB
Sample : 0B01012-CALO
Misc : A19K311, CHLOR 1000 ppb
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:24:53 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:22:31 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

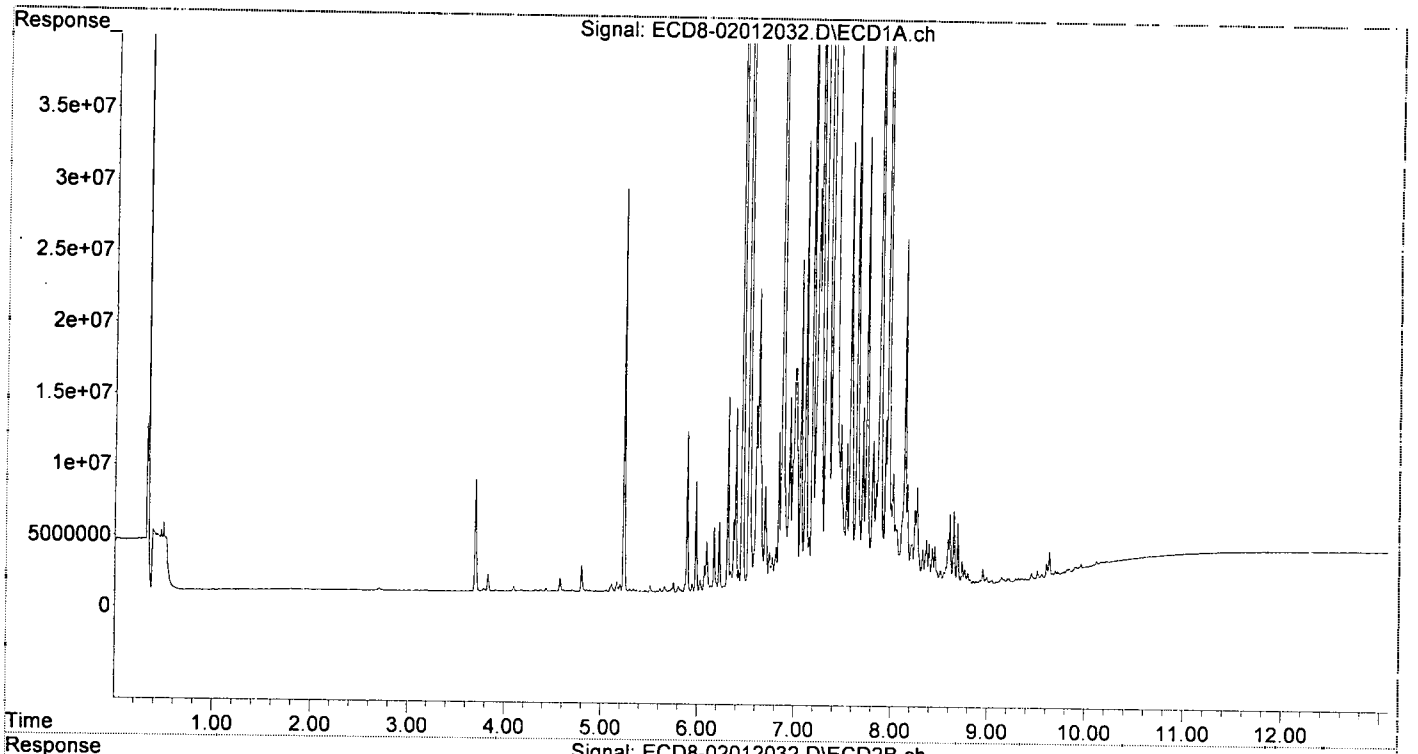
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22)	S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)		a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)		g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)		b-BHC	0.000	0.000	0	0	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...	7.325	8.118	407.1E6	461.1E6	1090.148	1071.785
33)		Chlordane...	7.419	8.226	468.0E6	384.8E6	1021.927	1067.266
34)		Chlordane...	7.966	8.890	126.5E6	118.8E6	1080.265	1086.515
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

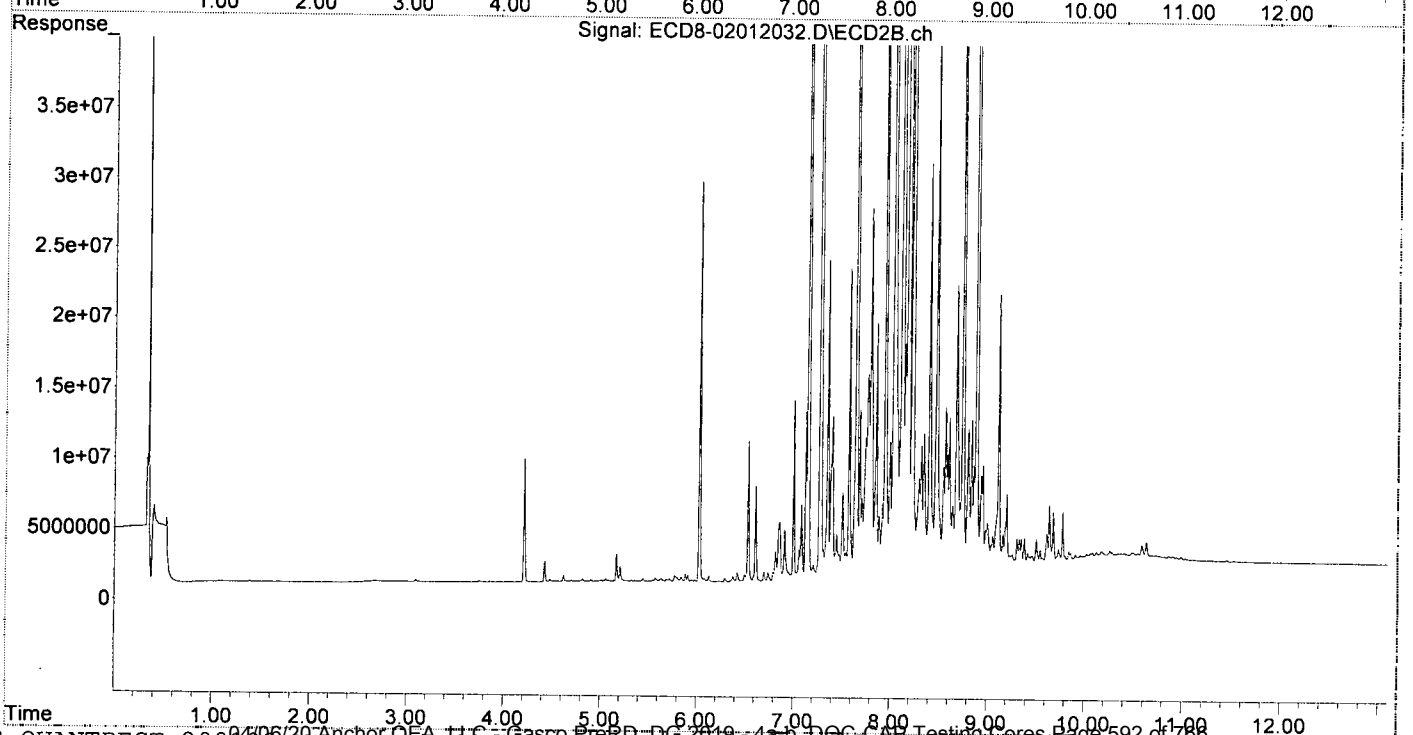
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012032.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 23:00
Operator : MJB
Sample : 0B01012-CALO
Misc : A19K311, CHLOR 1000 ppb
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:24:53 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:22:31 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012033.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 23:17
Operator : MJB
Sample : 0B01012-CALP
Misc : A19K306, CHLOR 2000 ppb
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:25:23 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:22:31 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/5/20

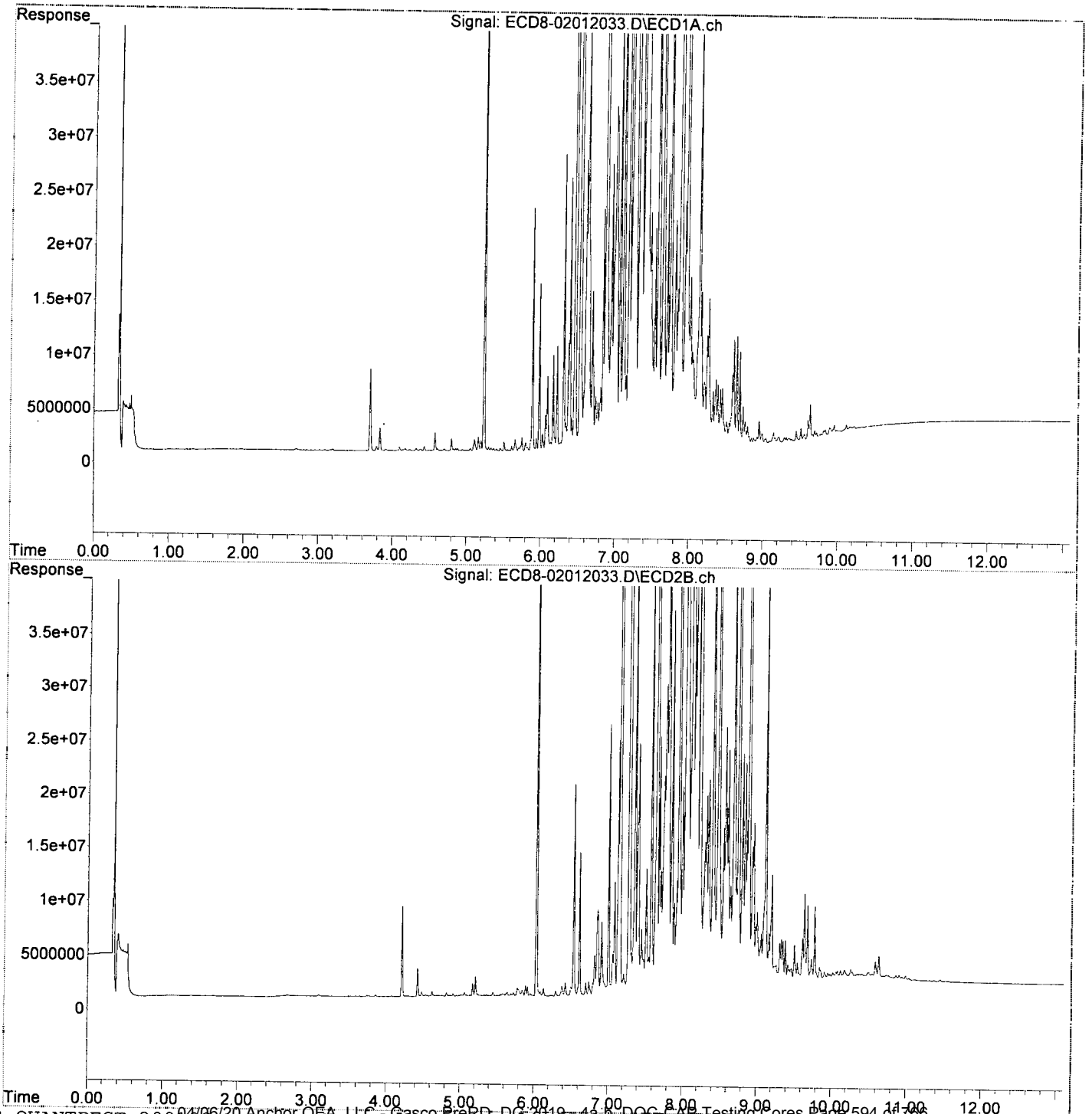
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. 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...	7.325	8.118	780.0E6	962.8E6	2088.768	2237.923
33)	Chlordane...	7.420	8.225	959.8E6	801.0E6	2095.944	2221.464
34)	Chlordane...	7.966	8.889	253.1E6	258.6E6	2161.308	2363.887
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 > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012033.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 23:17
Operator : MJB
Sample : 0B01012-CALP
Misc : A19K306, CHLOR 2000 ppb
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:25:23 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:22:31 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012036.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 00:08
Operator : MJB
Sample : 0B01012-CALQ
Misc : A20B005, TOX 10 ppb
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:27:58 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:27:40 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

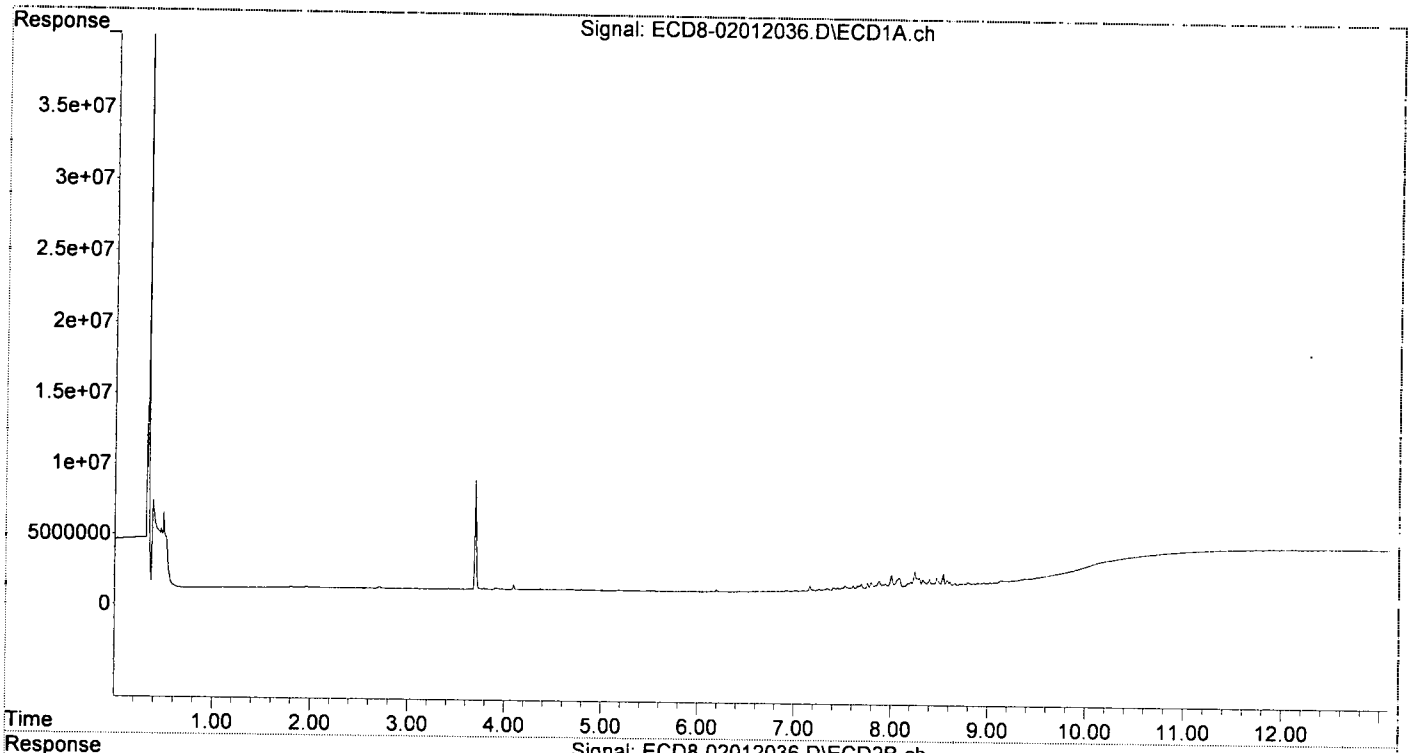
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. 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...	7.402	8.455	169507	273928	11.912	7.110 #
37)	Toxaphene...	7.694	8.803	357259	364064	10.115	7.494 #
38)	Toxaphene...	8.006	8.838	923034	694351	9.582	8.052
39)	Toxaphene...	8.246	8.907	1100625	1372328	18.534	13.315 #
40)	Toxaphene...	8.472	9.081	585949	574323	12.388	8.643 #
41)	Toxaphene...	8.541	9.463	844549	749407	12.729	12.944
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

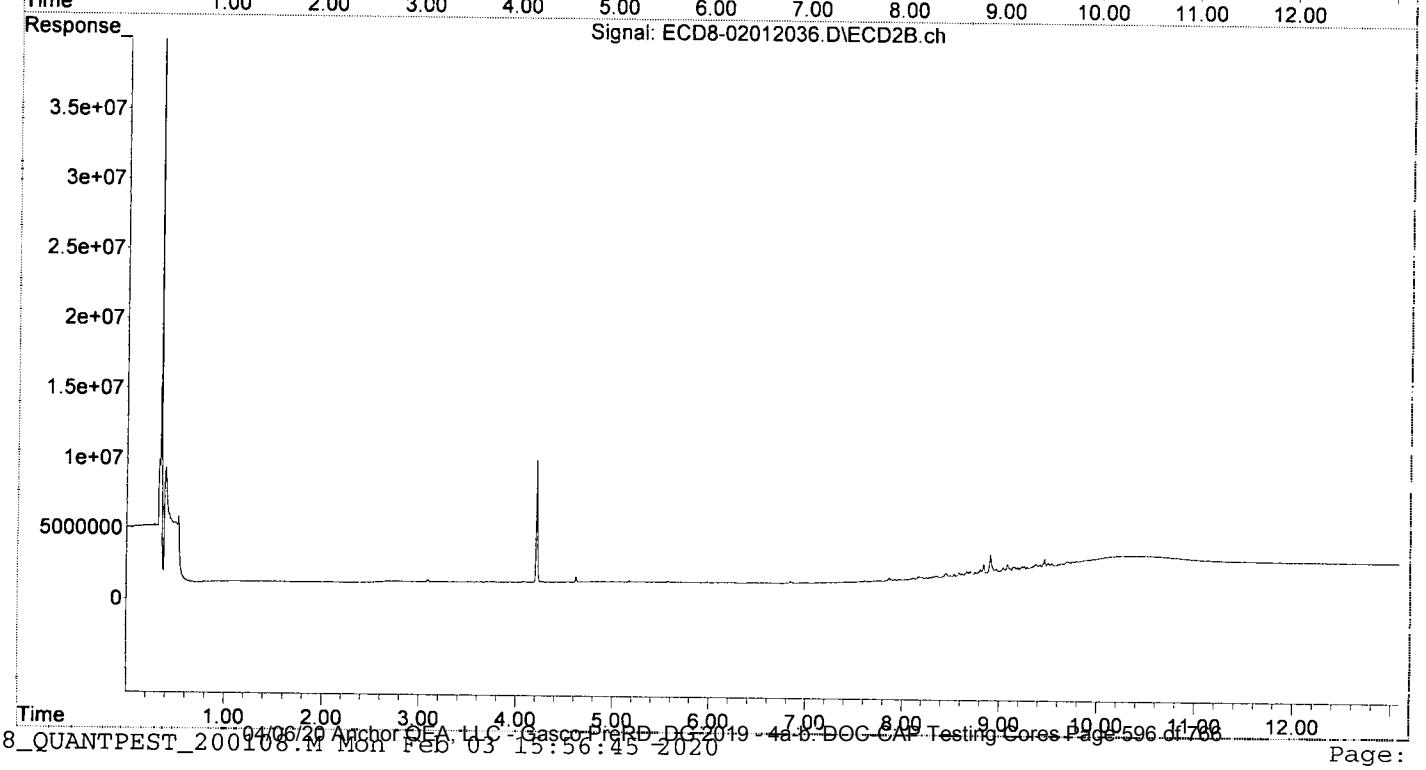
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012036.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 00:08
Operator : MJB
Sample : 0B01012-CALQ
Misc : A20B005, TOX 10 ppb
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:27:58 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:27:40 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012037.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 00:24
Operator : MJB
Sample : 0B01012-CALR
Misc : A19J417, TOX 50 ppb
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:28:39 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:27:40 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/5/20

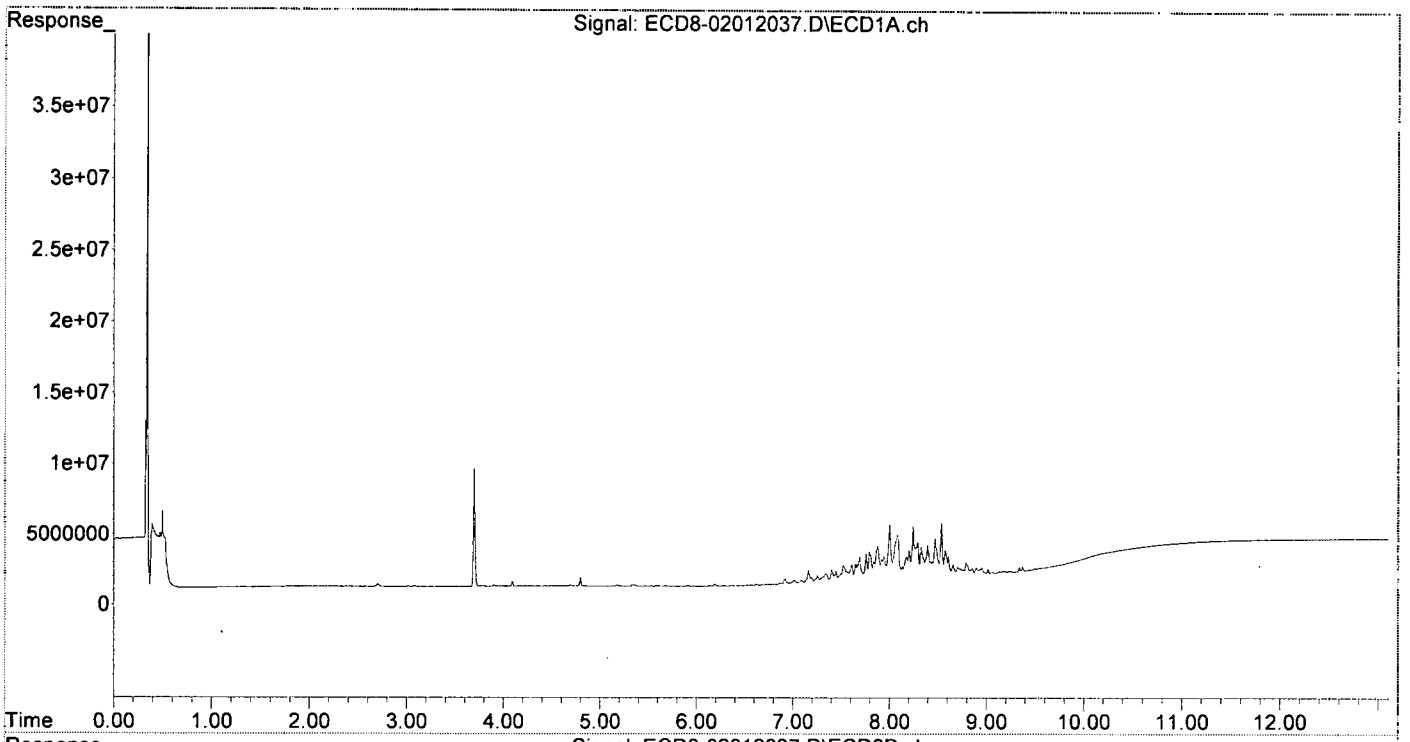
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. 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...	7.400	8.455	862137	1457893	60.587	50.306
37)	Toxaphene...	7.693	8.804	1682151	1899624	55.373	50.936
38)	Toxaphene...	8.004	8.839	3882297	3122967	59.396	53.665
39)	Toxaphene...	8.246	8.907	3672237	5032751	61.839	57.160
40)	Toxaphene...	8.473	9.083	2698036	2697421	57.043	51.780
41)	Toxaphene...	8.539	9.464	3790810	3159313	57.136	54.567
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

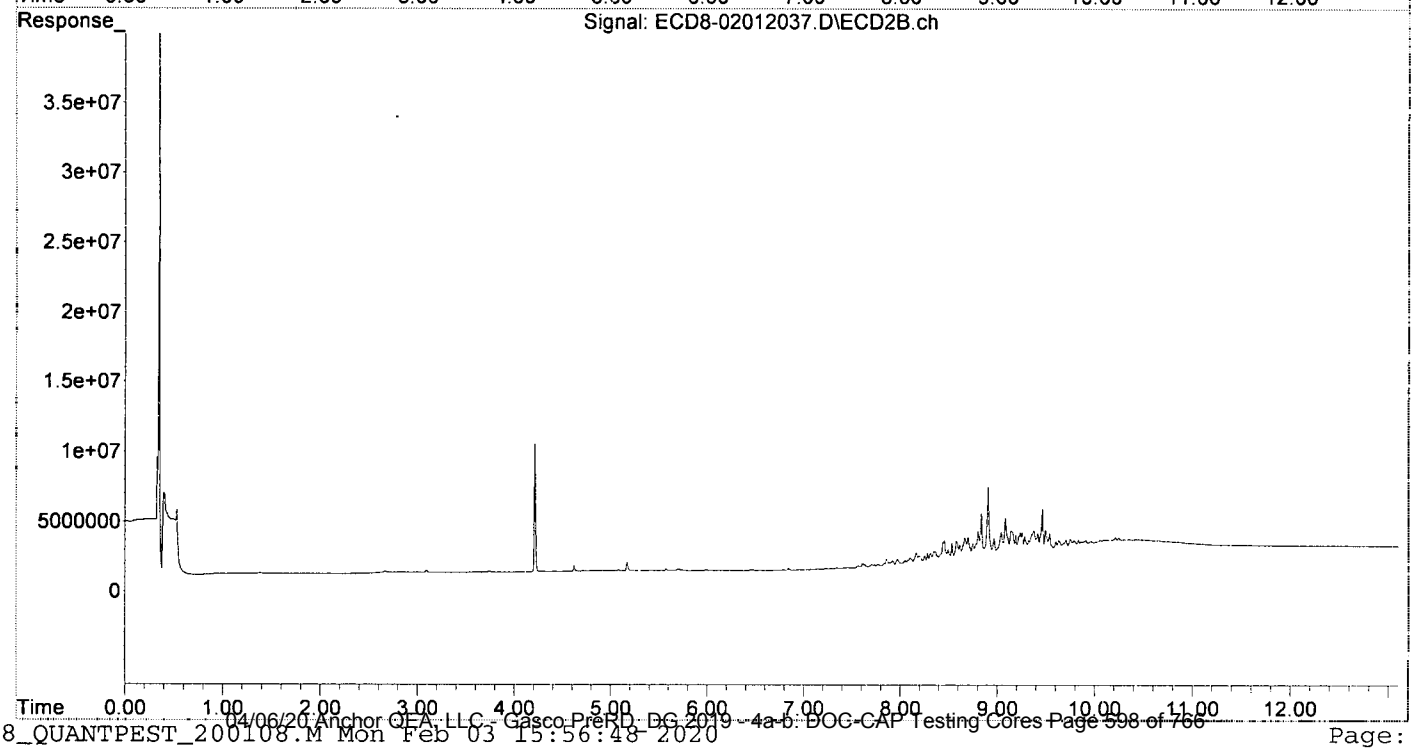
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012037.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 00:24
Operator : MJB
Sample : 0B01012-CALR
Misc : A19J417, TOX 50 ppb
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:28:39 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:27:40 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012038.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 00:41
Operator : MJB
Sample : 0B01012-CALS
Misc : A19J418, TOX 100 ppb
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:29:16 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:27:40 2020
Response via : Initial Calibration
Integrator: ChemStation

MWP 2/3/20

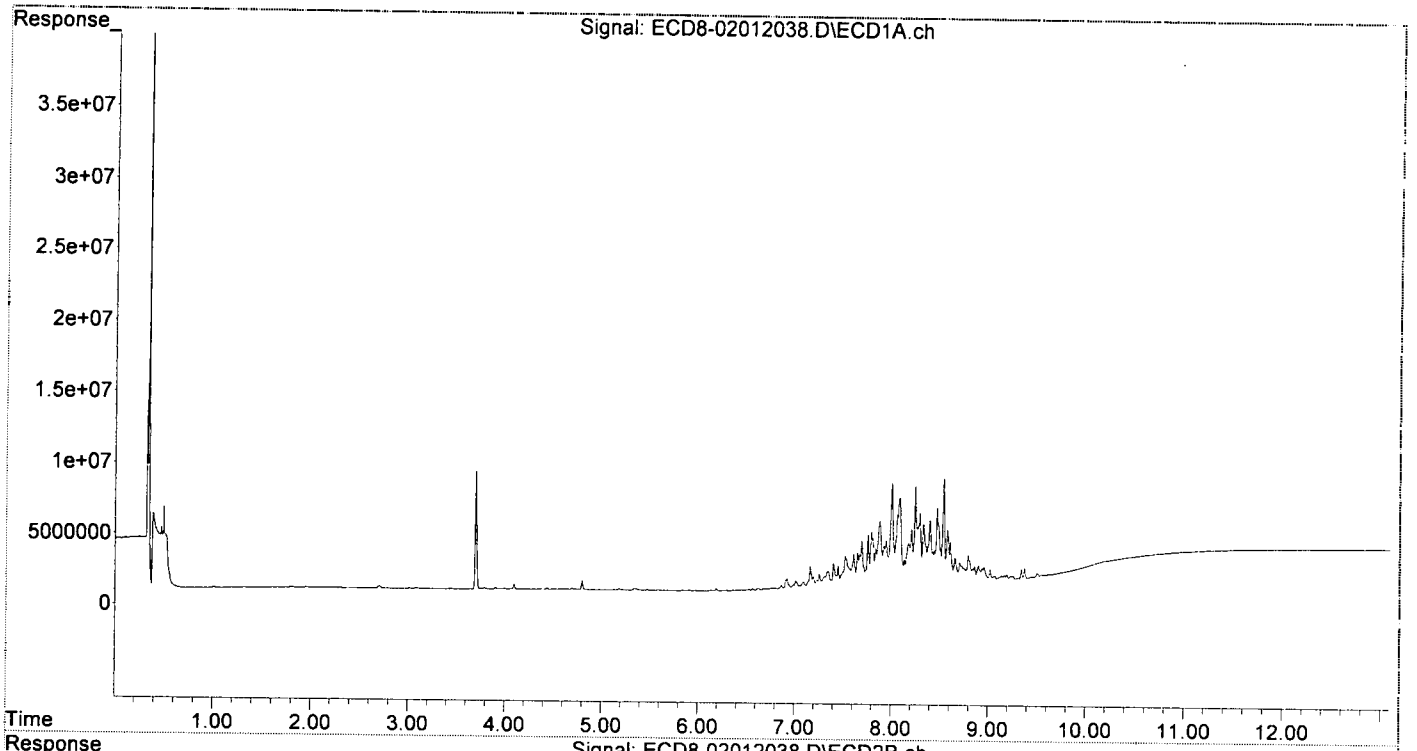
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22)	S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)		a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)		g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)		b-BHC	0.000	0.000	0	0	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...	7.400	8.455	1687426	3039636	118.585	108.365
37)		Toxaphene...	7.693	8.803	3171817	4024499	106.680	111.161
38)		Toxaphene...	8.004	8.838	7108085	6231660	113.854	111.998
39)		Toxaphene...	8.245	8.906	6856793	10075815	115.465	117.279
40)		Toxaphene...	8.472	9.083	5268375	5637073	111.387	111.355
41)		Toxaphene...	8.539	9.463	7293127	6347466	109.923	109.632
42)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

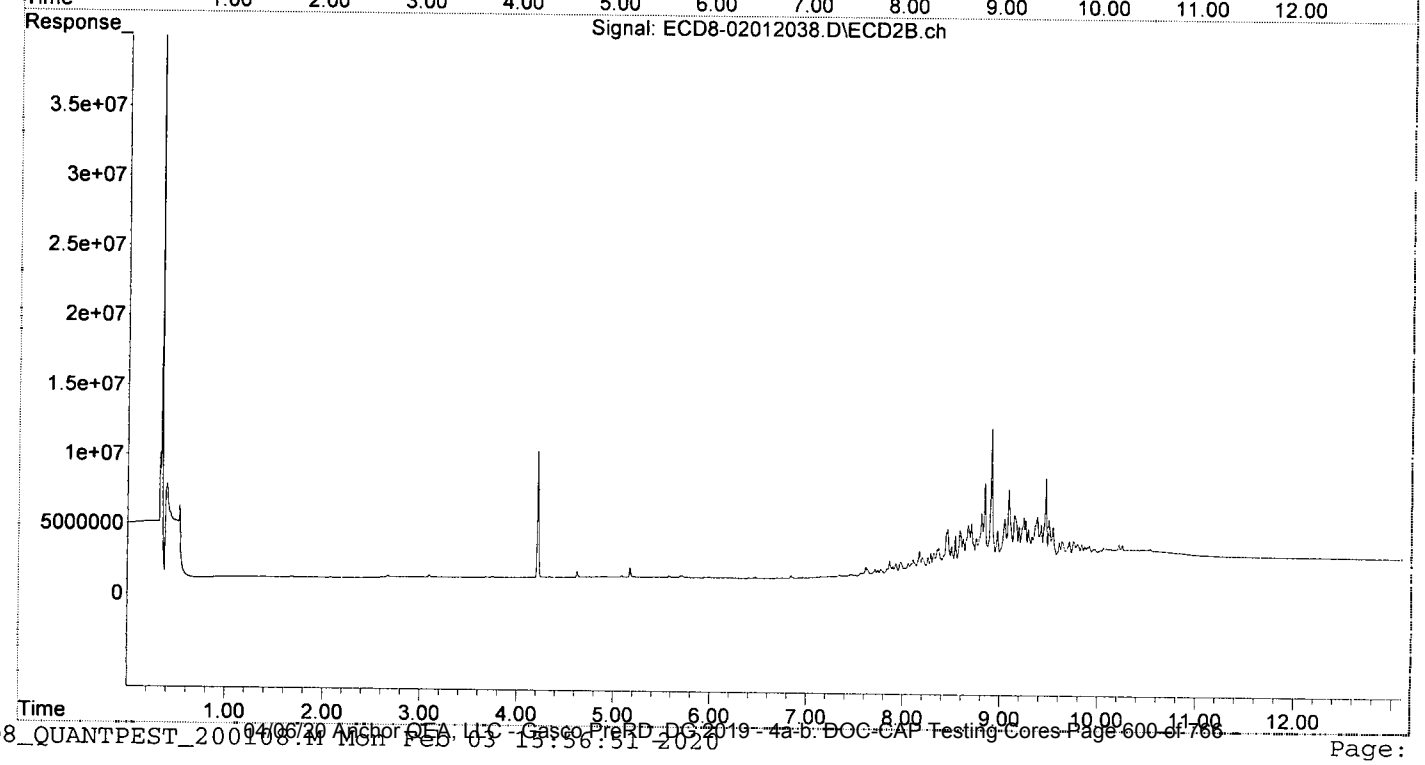
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012038.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 00:41
Operator : MJB
Sample : 0B01012-CALS
Misc : A19J418, TOX 100 ppb
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:29:16 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:27:40 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012039.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 00:58
Operator : MJB
Sample : 0B01012-CALT
Misc : A19J419, TOX 200 ppb
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:29:52 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:27:40 2020
Response via : Initial Calibration
Integrator: ChemStation

MB 2/3/20

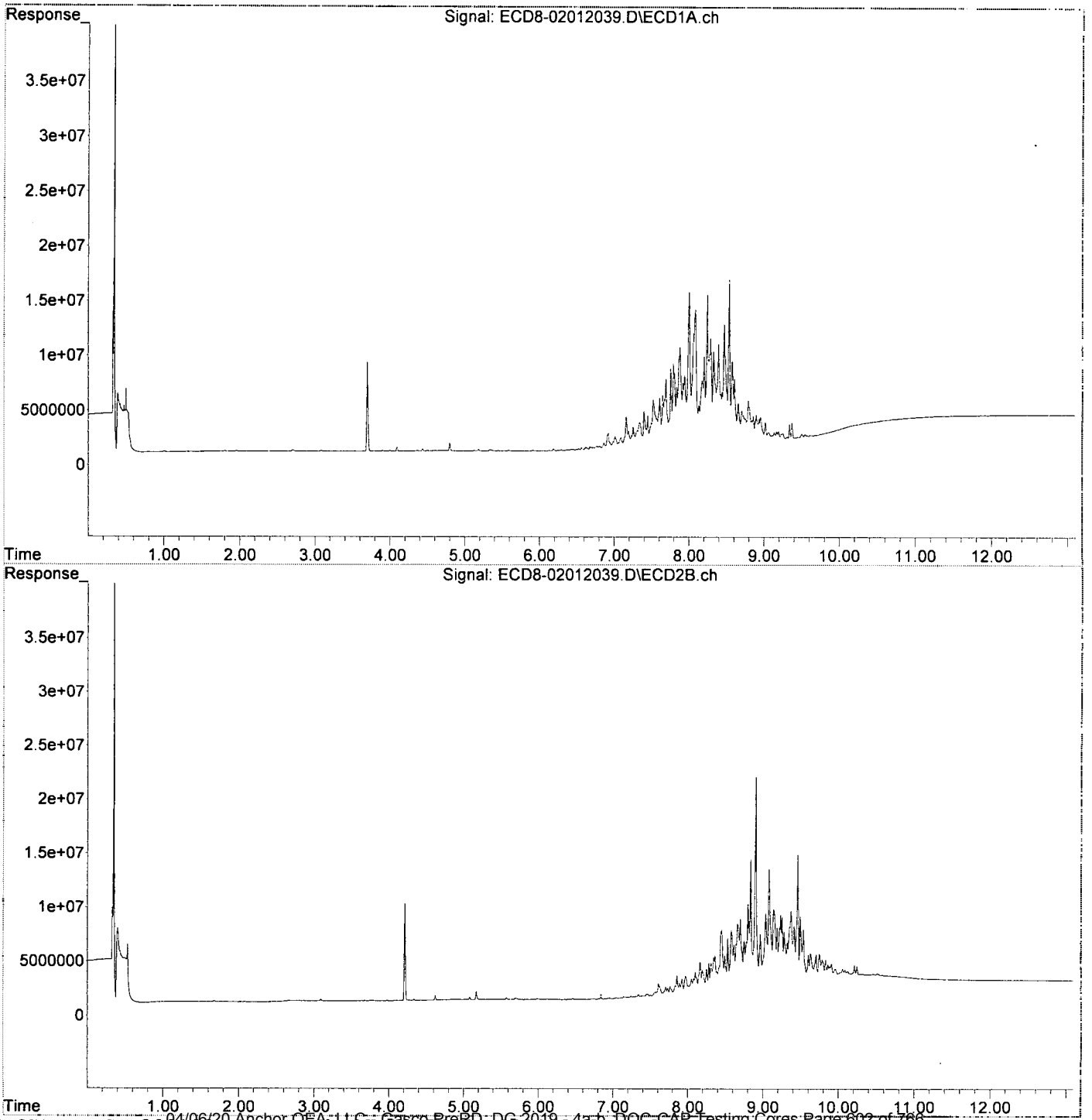
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. 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...	7.398	8.454	3210991	5983532	225.654	217.519
37)	Toxaphene...	7.692	8.803	6077785	8295354	208.090	232.604
38)	Toxaphene...	8.003	8.838	13955658	12406840	230.011	227.700
39)	Toxaphene...	8.245	8.905	13559149	19955192	228.329	234.111
40)	Toxaphene...	8.471	9.082	10723722	11485592	226.727	229.366
41)	Toxaphene...	8.539	9.464	14823031	12675921	228.416	218.935
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012039.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 00:58
Operator : MJB
Sample : 0B01012-CALT
Misc : A19J419, TOX 200 ppb
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:29:52 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:27:40 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012040.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 1:15
Operator : MJB
Sample : 0B01012-CALU
Misc : A19J420, TOX 500 ppb
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:27:06 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:22:31 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

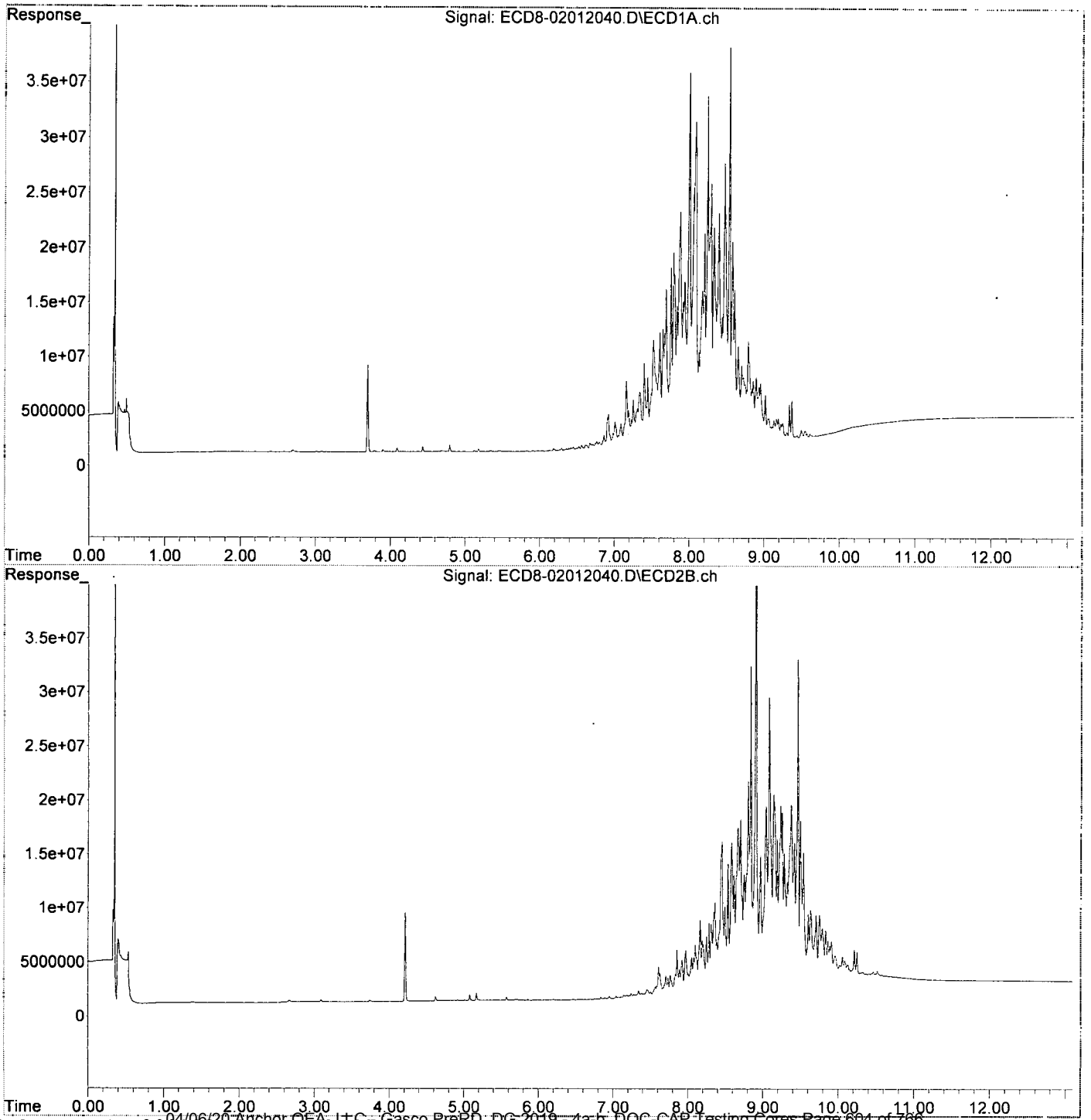
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. 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...	7.399	8.454	7624274	13991055	535.799	522.065
37)	Toxaphene...	7.692	8.802	14283516	19375133	504.670	550.161
38)	Toxaphene...	8.002	8.837	33827874	30083885	571.498	557.645
39)	Toxaphene...	8.245	8.905	31701311	48832915	533.834	568.777
40)	Toxaphene...	8.471	9.082	25454970	27050867	538.183	540.168
41)	Toxaphene...	8.538	9.463	35990464	30451142	542.455	525.944
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012040.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 1:15
Operator : MJB
Sample : 0B01012-CALU
Misc : A19J420, TOX 500 ppb
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:27:06 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:22:31 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012041.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 1:32
Operator : MJB
Sample : 0B01012-CALV
Misc : A19J421, TOX 1000 ppb
ALS Vial : 37 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:30:29 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:27:40 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

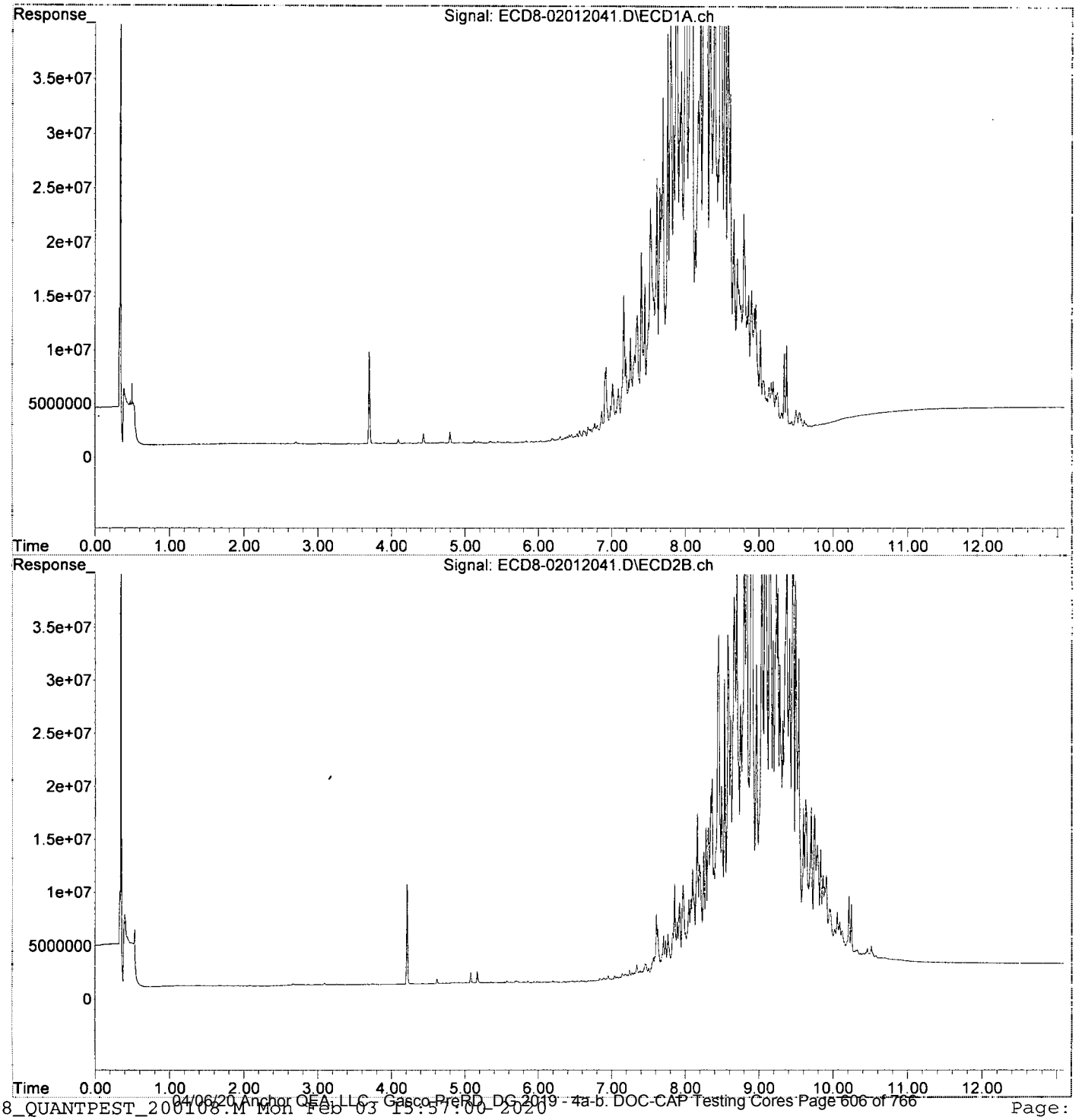
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. 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...	7.399	8.453	17126108	32020907	1203.545	1255.115
37)	Toxaphene...	7.691	8.802	31290692	44952411	1177.930	1297.613
38)	Toxaphene...	8.002	8.837	74869389	70006747	1298.898	1296.068
39)	Toxaphene...	8.245	8.905	71267141	114.1E6	1200.102	1291.377
40)	Toxaphene...	8.471	9.081	57604978	63084241	1217.916	1242.380
41)	Toxaphene...	8.538	9.463	80425541	70673400	1212.189	1220.652
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012041.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 1:32
Operator : MJB
Sample : 0B01012-CALV
Misc : A19J421, TOX 1000 ppb
ALS Vial : 37 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:30:29 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:27:40 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012042.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 1:48
Operator : MJB
Sample : 0B01012-CALW
Misc : A19J416, TOX 200 ppb
ALS Vial : 38 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:31:07 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:27:40 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

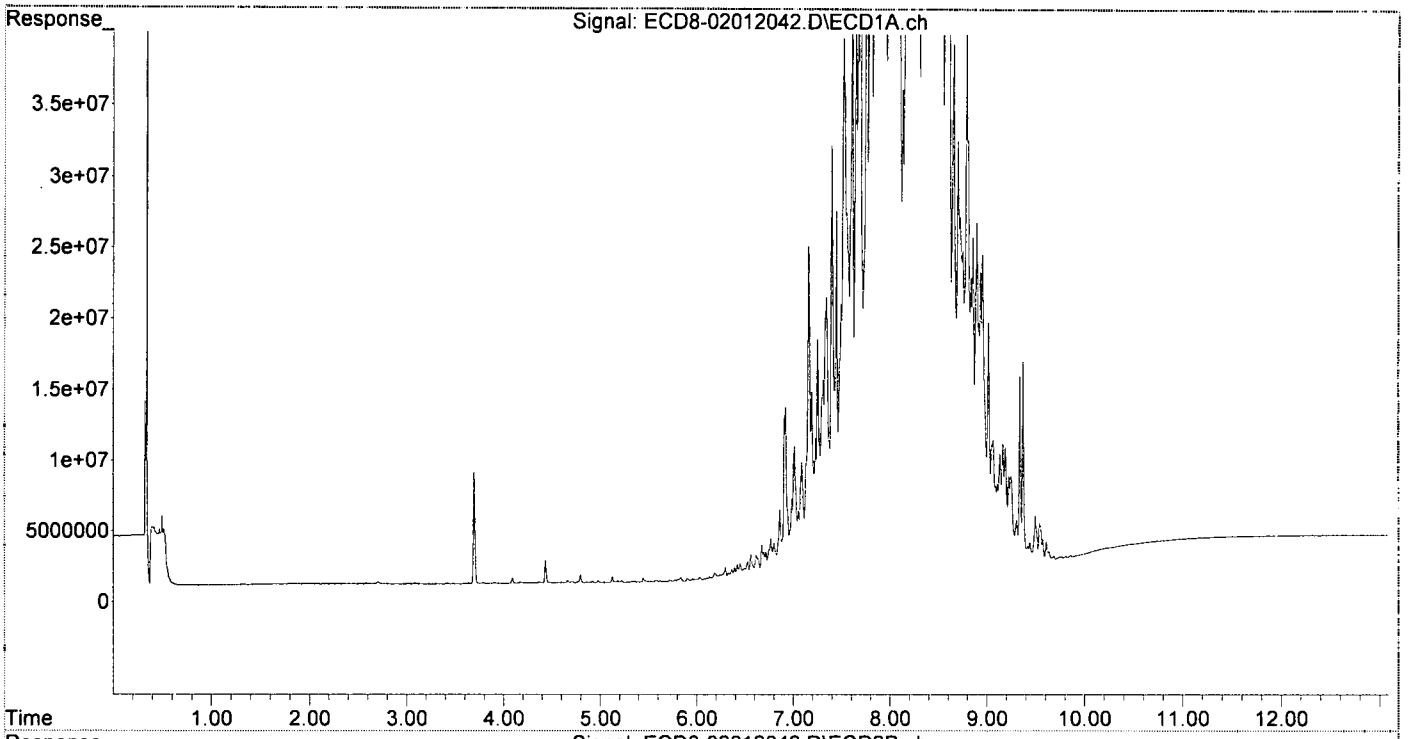
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. 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...	7.398	8.453	30177110	58830123	2120.709	2511.348
37)	Toxaphene...	7.691	8.802	57148633	82998661	2442.230	2449.774
38)	Toxaphene...	8.003	8.837	134.9E6	132.9E6	2423.208	2441.276
39)	Toxaphene...	8.243	8.905	128.9E6	212.6E6	2171.417	2307.234
40)	Toxaphene...	8.471	9.082	104.1E6	117.9E6	2200.668	2268.137
41)	Toxaphene...	8.537	9.462	145.3E6	131.6E6	2190.132	2273.646
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

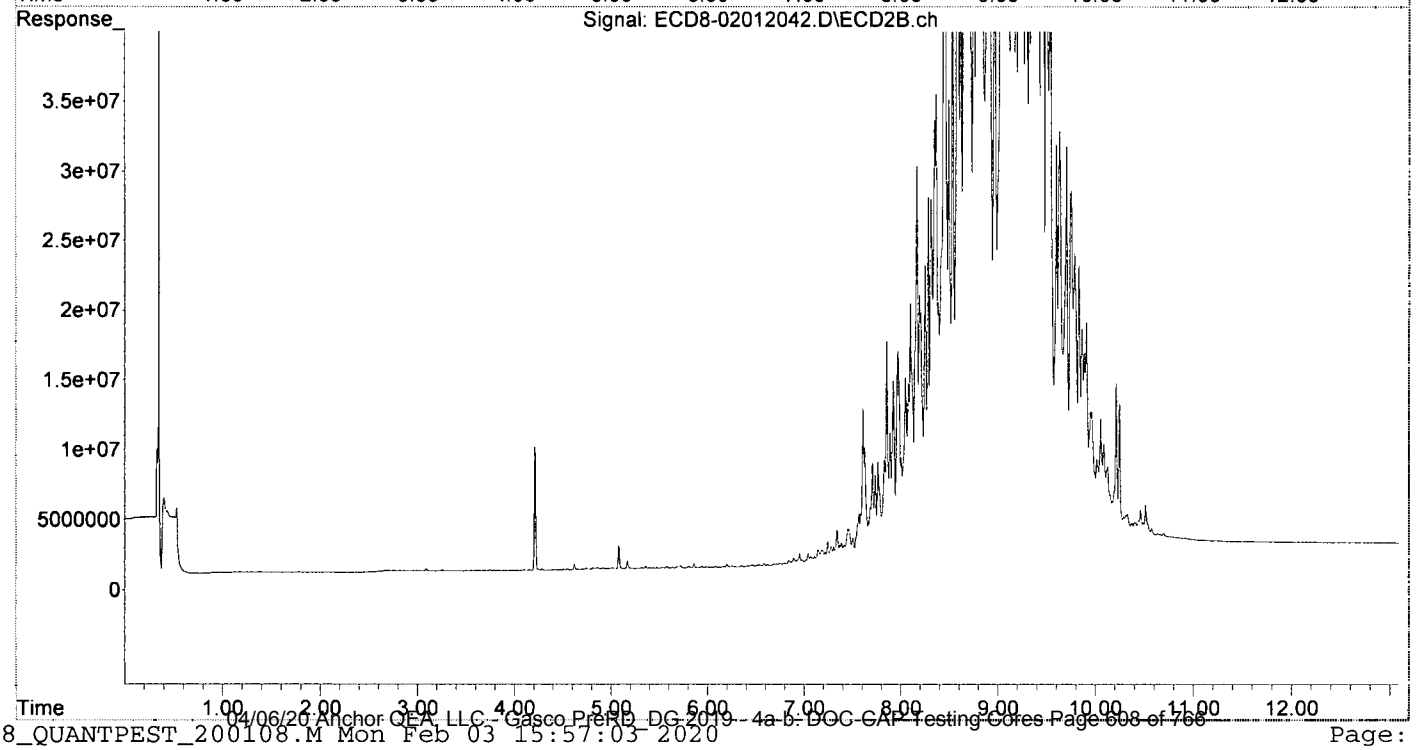
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012042.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 1:48
Operator : MJB
Sample : 0B01012-CALW
Misc : A19J416, TOX 200 ppb
ALS Vial : 38 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:31:07 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:27:40 2020
Response via : Initial Calibration
Integrator: ChemStation





APEX LABORATORIES, LLC
6700 SW Sandburg St. Tigard OR 97223 phone 503-718-2323

Semivolatile Organic Compounds (PAHs) by EPA 8270D
Benchsheet & Analysis Sequence Data

Batch 0020481
Sequence 0B17042 (A0B0411-01,02,03,03RE1,04,05)

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0020481 (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	pH Other	pH >11
	0020481-BLK1		QC	02/17/20 06:59	11	5				100					
	0020481-BS1		QC	02/17/20 06:59	10	5	A20B016		100	100					
	A0B0411-01	A	8270D LL PAH Only (Scan)	02/17/20 06:59	10.13	5				100	PDI-100SC-J-06-07-190926				
	A0B0411-02	A	8270D LL PAH Only (Scan)	02/17/20 06:59	10.24	5				100	PDI-100SC-J-07-08-190926				
	0020481-DUP1		QC	02/17/20 06:59	10.29	5		A0B0411-02		100					
	A0B0411-03	A	8270D LL PAH Only (Scan)	02/17/20 06:59	10.11	5				100	PDI-100SC-J-08-09-190926				
	A0B0411-03RE1	A	8270D LL PAH Only (Scan)	02/17/20 06:59	10.11	5				100	PDI-100SC-J-08-09-190926	Added 2/18/2020 by ams			
	A0B0411-04	A	8270D LL PAH Only (Scan)	02/17/20 06:59	10.05	5				100	PDI-100SC-J-09-10-190926				
	0020481-MS1		QC	02/17/20 06:59	10.01	5	A20B016	A0B0411-04	100	100					
	0020481-MSD1		QC	02/17/20 07:14	10.02	5	A20B016	A0B0411-04	100	100					
	A0B0411-05	A	8270D LL PAH Only (Scan)	02/17/20 06:59	10.16	5				100	PDI-100SC-J-10-11-190926				

Standards/Reagents

Reagent(s)

Std ID	Exp. Date	Description
A13L219	11/30/23	Extractions Balance
A18K311	12/31/20	Glass Wool
A19I263	03/18/20	DCM CHEM PROD. 194934
A20A282	07/19/21	Sodium Sulfate Lot # 194865

Analyte Spike(s)

Std ID	Exp. Date	Description
A20B016	08/01/20	LVI PAH Spike @2000ng/ml

Surrogate(s)

Std ID	Exp. Date	Description
A19L265	06/07/20	8270D LL PAH Only Surr. (5ppm)

Method 3546 digestion time and temperture achieved.
Initial:

Witness:_____

Prepared By: _____ Date _____

Reviewed By: AMS Date 2/18/20

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0020481 (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	pH Other	pH >11
11	0020481-BLK1		QC	02/17/20 06:59	~~10~~ 11	5				100					
12	0020481-BS1		QC	02/17/20 06:59	10	5	A20B016		100	100					
13	A0B0411-01	A	8270D LL PAH Only (Scan)	02/17/20 06:59	~~10~~ 10.13	5				100	PDI-100SC-J-06-07-190926	Sand			
14	A0B0411-02	A	8270D LL PAH Only (Scan)	02/17/20 06:59	~~10~~ 10.24	5				100	PDI-100SC-J-07-08-190926	Sand			
15	0020481-DUP1		QC	02/17/20 06:59	~~10~~ 10.29	5		A0B0411-02		100		Sand			
16	A0B0411-03	A	8270D LL PAH Only (Scan)	02/17/20 06:59	~~10~~ 10.11	5				100	PDI-100SC-J-08-09-190926	Sand			
17	A0B0411-04	A	8270D LL PAH Only (Scan)	02/17/20 06:59	~~10~~ 10.05	5				100	PDI-100SC-J-09-10-190926	Sand			
18	0020481-MS1		QC	02/17/20 06:59	~~10~~ 10.01	5	A20B016	A0B0411-04	100	100		Sand			
19	0020481-MSD1		QC	02/17/20 07:14	~~10~~ 10.02	5	A20B016	A0B0411-04	100	100		Sand			
20	A0B0411-05	A	8270D LL PAH Only (Scan)	02/17/20 06:59	~~10~~ 10.16	5				100	PDI-100SC-J-10-11-190926	Sand			

Standards/Reagents

Reagent(s)

Std ID	Exp. Date	Description
A13L219	11/30/23	Extractions Balance
A18K311	12/31/20	Glass Wool
A19I263	03/18/20	DCM CHEM PROD. 194934
A20A282	07/19/21	Sodium Sulfate Lot # 194865

Analyte Spike(s)

Std ID	Exp. Date	Description
A20B016	08/01/20	LVI PAH Spike @2000ng/ml

JAG

Surrogate(s)

Std ID	Exp. Date	Description
A19L265	06/07/20	8270D LL PAH Only Surr. (5ppm)

JAG

Method 3546 digestion time and temperture achieved.
Initial: CAH

Witness: CAH 2/17/20

JAG 2/17/20
Prepared By: Date

CAS 02/17/2020
Reviewed By: Date

CAH 2/17/20

ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence:	**0B17042**	Instrument:	**SV-GCMS14**
Date:	**02/17/20 11:10**	Calibration:	**A9I1001**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0B17042-IBL1	Sediment	QC	QC			A19K048	
2	0B17042-TUN1	Sediment	QC	QC			A19K048	A20B032
3	0B17042-CCV1	Sediment	QC	QC			A19K048	A19K012
4	0B17042-CCB1	Sediment	QC	QC			A19K048	
5	0020481-BLK1	Sediment	QC	QC		0020481	A19K048	
6	0020481-BS1	Sediment	QC	QC		0020481	A19K048	
7	A0B0411-02	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	02/21/20	0020481	A19K048	
8	0020481-DUP1	Sediment	QC	QC		0020481	A19K048	
9	A0B0411-04	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	02/21/20	0020481	A19K048	
10	0020481-MS1	Sediment	QC	QC		0020481	A19K048	
11	0020481-MSD1	Sediment	QC	QC		0020481	A19K048	
12	A0B0411-01	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	02/21/20	0020481	A19K048	
13	A0B0411-03	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	02/21/20	0020481	A19K048	
14	A0B0411-05	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	02/21/20	0020481	A19K048	
15	A0B0411-03RE1	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	02/21/20	0020481	A19K048	
16	0B17042-IBL2	Sediment	QC	QC			A19K048	

Data Entered By: AMS 2/18/20 Comments:

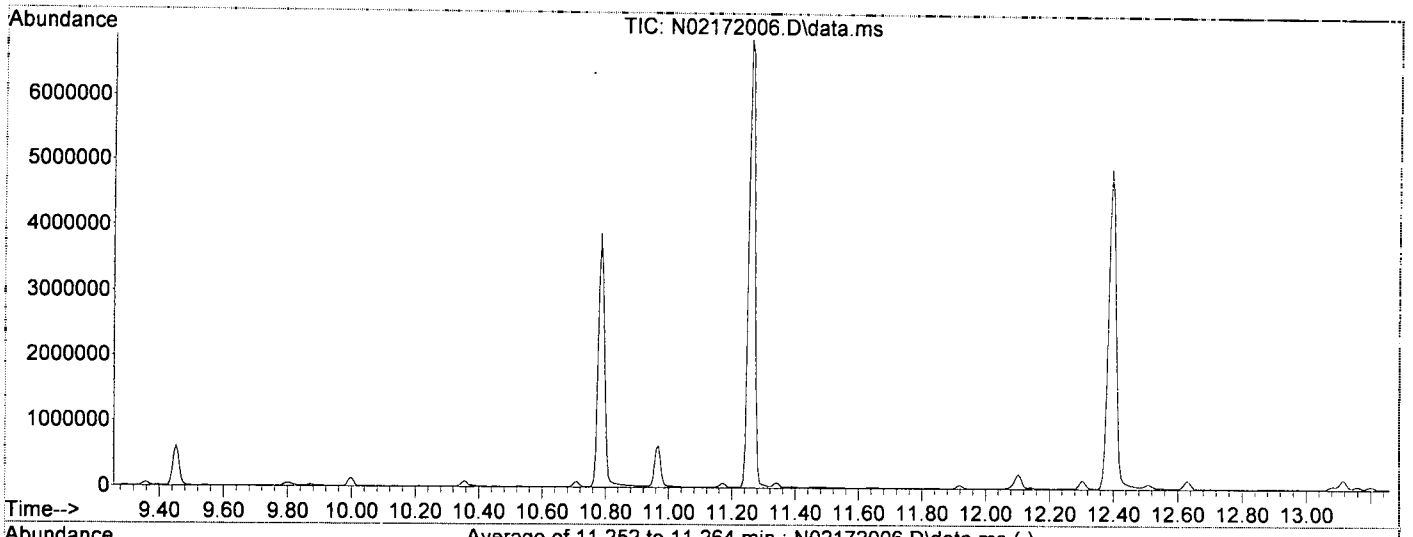
Data Reviewed By: 2/18/20

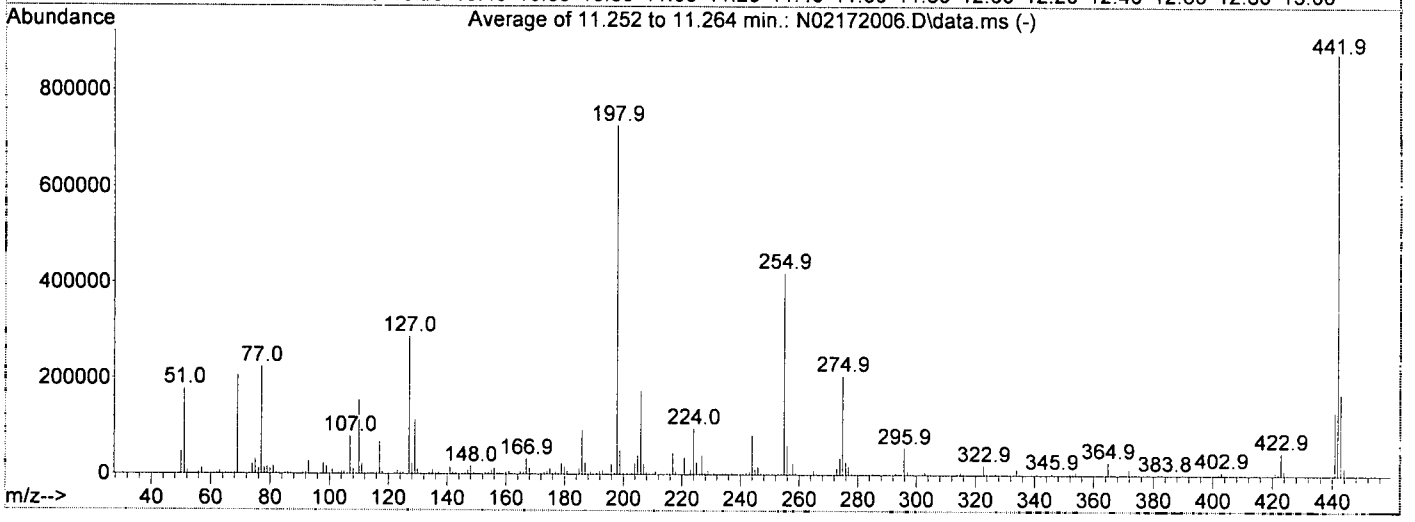
Data Path : U:\data\2020-02\0B17042\
Data File : N02172006.D
Acq On : 17 Feb 2020 11:48
Operator : JK/ AMS/ DTH
Sample : 0B17042-TUN1
Misc : 1x, A20B032 DFTPP
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : U:\methods\DFTPP.M
Title : 8270 DFTPP Tune Method
Last Update : Tue Feb 04 07:34:06 2020

AMS 2/17/20





AutoFind: Scans 1194, 1195, 1196; Background Corrected with Scan 1188

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	1.6	3398	PASS
69	69	100	100	100.0	206983	PASS
70	69	0.00	2	0.5	1069	PASS
197	198	0.00	2	0.5	3611	PASS
198	198	100	100	100.0	725696	PASS
199	198	5	9	6.9	49800	PASS
365	198	1	100	3.8	27827	PASS
441	443	0.01	150	77.8	132136	PASS
442	198	0.10	200	120.8	876437	PASS
443	442	15	24	19.4	169840	PASS

✓

Data Path : U:\data\2020-02\0B17042\
Data File : N02172006.D
Acq On : 17 Feb 2020 11:48
Operator : JK/ AMS/ DTH
Sample : 0B17042-TUN1
Misc : 1x, A20B032 DFTPP
ALS Vial : 1 Sample Multiplier: 1
DataAcq Meth:DFTPP.M

Quant Time: Feb 17 14:58:53 2020
Quant Method : U:\methods\DFTPP.M
Quant Title : 8270 DFTPP Tune Method
QLast Update : Tue Feb 04 07:34:06 2020
Response via : Initial Calibration
InstName. : SV-GCMS14

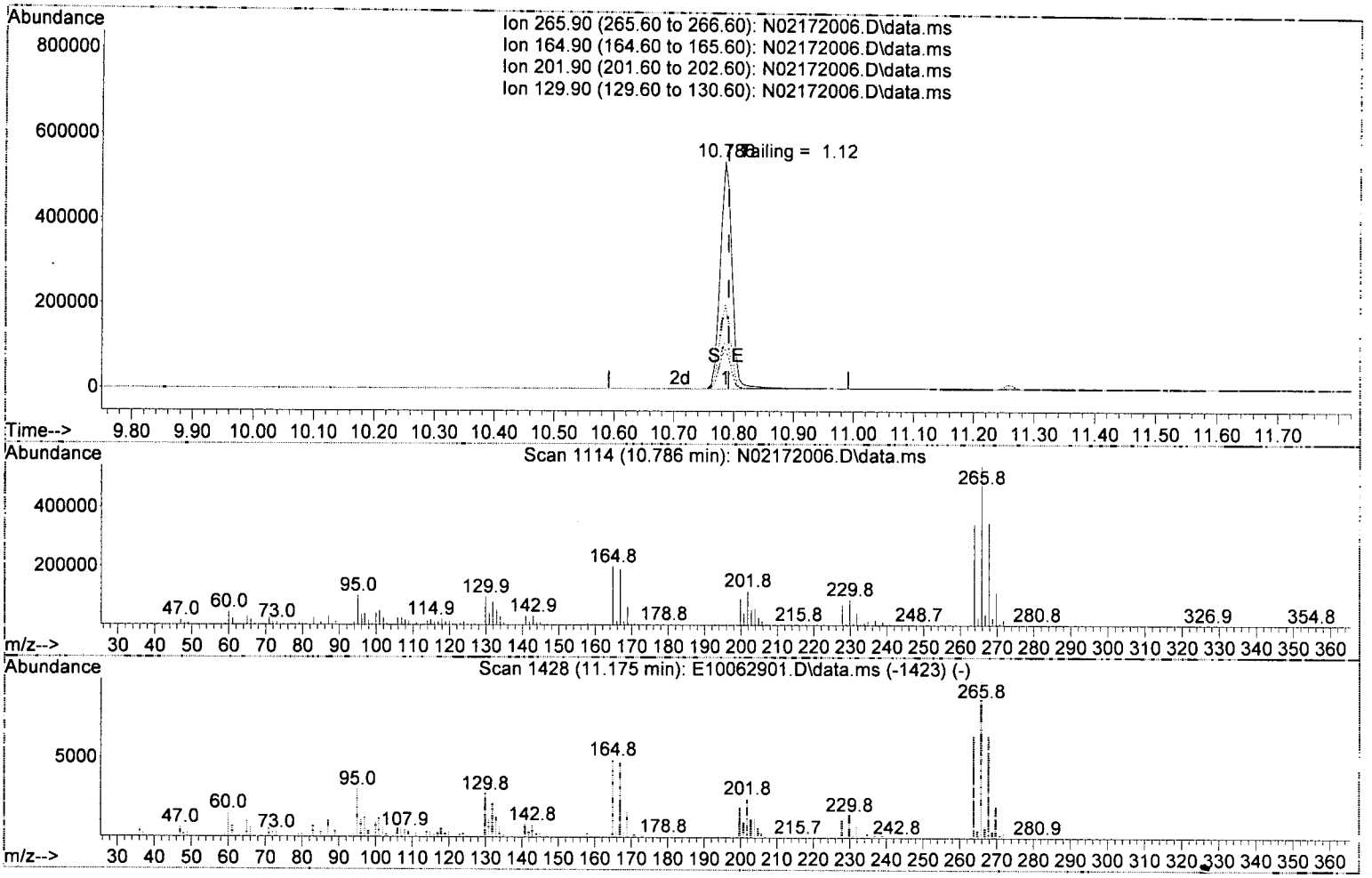
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.490	150	115900	2.00	ug/mL	0.00
2) Naphthalene-d8	7.691	136	335840	2.00	ug/mL	0.00
3) Acenaphthene-d10	9.451	162	192071	2.00	ug/mL	0.00
5) Phenanthrene-d10	10.967	188	344254	2.00	ug/mL	0.00
11) Chrysene-d12	14.569	240	279973	2.00	ug/mL	0.00
12) Perylene-d12	16.667	264	272719	2.00	ug/mL	-0.01
13) Dibenz(a,h)anthracene-...	17.850	292	242614	2.00	ug/mL	#-0.01
Target Compounds						Qvalue
4) Pentachlorophenol	10.786	266	725270	39.99	ug/mL	83
6) DFTPP	11.264	442	1453542	52.30	ug/mL	73
7) Benzidine	12.395	184	3527287	28.80	ug/mL	98
8) 4,4-DDE	12.628	TIC	185248	No Calib		
9) 4,4-DDD	13.112	TIC	206044	No Calib		
10) 4,4-DDT	13.636	TIC	12220963	34.62	ug/mL	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B17042\
Data File : N02172006.D
Acq On : 17 Feb 2020 11:48
Operator : JK/ AMS/ DTH
Sample : 0B17042-TUN1
Misc : 1x, A20B032 DFTPP
ALS Vial : 1 Sample Multiplier: 1
DataAcq Meth:DFTPP.M

Quant Time: Feb 17 14:58:53 2020
Quant Method : U:\methods\DFTPP.M
Quant Title : 8270 DFTPP Tune Method
QLast Update : Tue Feb 04 07:34:06 2020
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02172006.D\data.ms

(4) Pentachlorophenol

10.786min (-0.006) 39.99 ug/mL

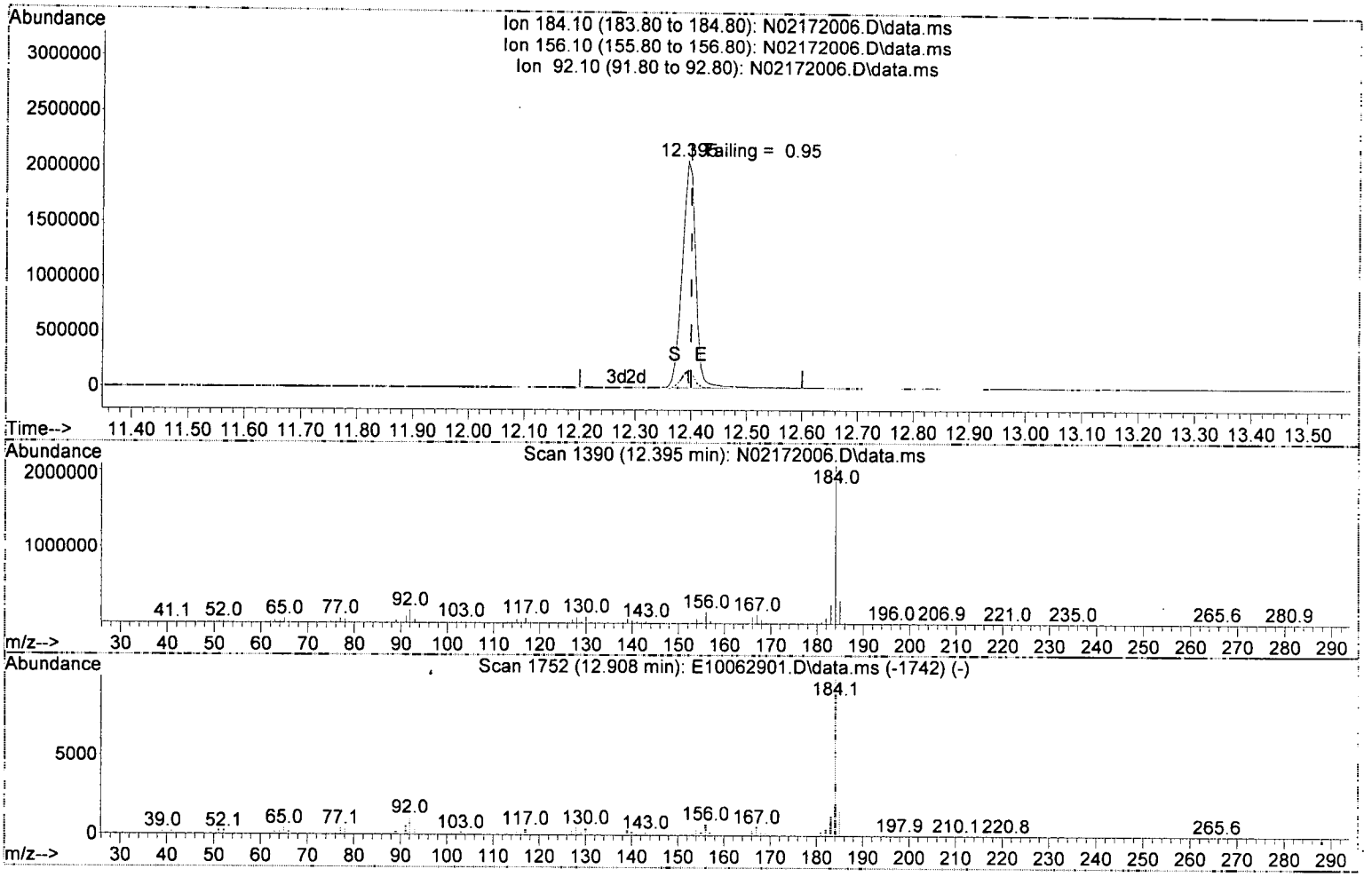
response 725270

Ion	Exp%	Act%
265.90	100.00	100.00
164.90	50.60	36.64
201.90	25.80	21.51
129.90	27.30	17.54

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B17042\
Data File : N02172006.D
Acq On : 17 Feb 2020 11:48
Operator : JK/ AMS/ DTH
Sample : 0B17042-TUN1
Misc : 1x, A20B032 DFTPP
ALS Vial : 1 Sample Multiplier: 1
DataAcq Meth:DFTPP.M

Quant Time: Feb 17 14:58:53 2020
Quant Method : U:\methods\DFTPP.M
Quant Title : 8270 DFTPP Tune Method
QLast Update : Tue Feb 04 07:34:06 2020
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02172006.D\data.ms

(7) Benzidine

12.395min (-0.006) 28.80 ug/mL

response 3527287

Ion	Exp%	Act%
184.10	100.00	100.00
156.10	8.50	7.04
92.10	8.20	8.01
0.00	0.00	0.00

DDT Breakdown Check (Validated 5/1/2013)

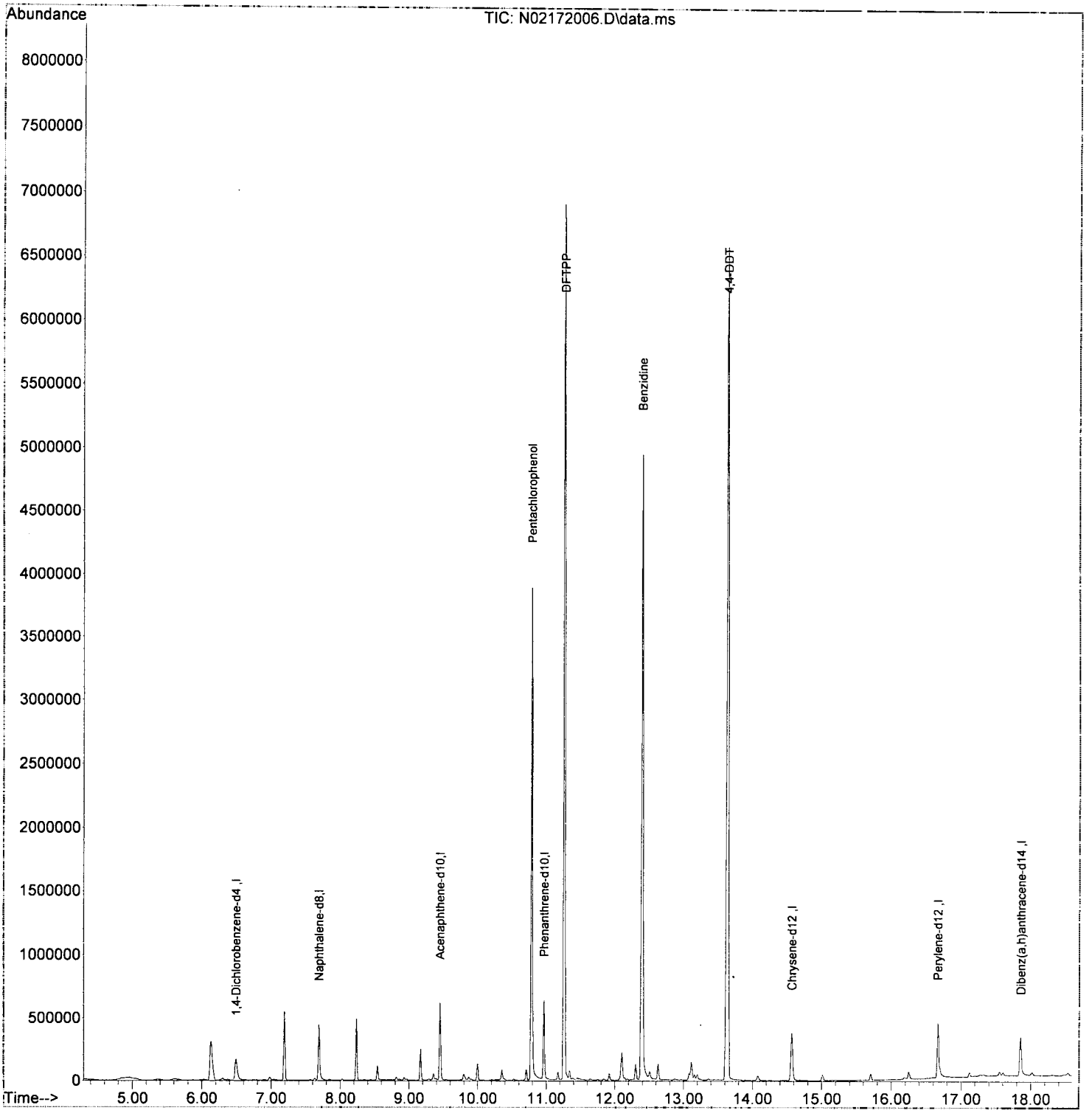
From:
0B17042-TUN1
SV-GCMS14

First Column Area Counts		Percent Breakdown	
DDE	185248		
DDD	206044		
DDT	12220963	15.3	PASS

Breakdown must be less than 20% to accept sample data.

Data Path : U:\data\2020-02\0B17042\
Data File : N02172006.D
Acq On : 17 Feb 2020 11:48
Operator : JK/ AMS/ DTH
Sample : 0B17042-TUN1
Misc : 1x, A20B032 DFTPP
ALS Vial : 1 Sample Multiplier: 1
DataAcq Meth:DFTPP.M

Quant Time: Feb 17 14:58:53 2020
Quant Method : U:\methods\DFTPP.M
Quant Title : 8270 DFTPP Tune Method
QLast Update : Tue Feb 04 07:34:06 2020
Response via : Initial Calibration
InstName : SV-GCMS14



Evaluate Continuing Calibration Report

Data Path : U:\data\2020-02\0B17042\
Data File : N02172007.D
Acq On : 17 Feb 2020 12:15
Operator : JK/ AMS/ DTH
Sample : 0B17042-CCV1
Misc : 1x, A19K012@50
ALS Vial : 2 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 17 15:00:19 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14

AMS 2/17/20

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	106	0.00
2	S	Nitrobenzene-d5 (Surr)	50.000	46.604	6.8	102	0.00
3	T	Decalin	50.000	17.934	64.1#	38	0.00
4	T	Naphthalene	50.000	49.325	1.3	107	0.00
5	T	2-Methylnaphthalene	50.000	47.456	5.1	100	0.00
6	T	1-Methylnaphthalene	50.000	46.226	7.5	95	0.00
7	T	1,1'-Biphenyl	50.000	44.557	10.9	95	0.00
8	T	2,6-Dimethylnaphthalene	50.000	45.827	8.3	95	0.00
9	I	Acenaphthene-d10 (ISTD)	100.000	100.000	0.0	98	0.00
10	S	2-Fluorobiphenyl (Surr)	50.000	50.019	-0.0	98	0.00
11	S	Acenaphthylene d-8 (Surr)	50.000	-1.000	102.0#	2	0.00
12	T	Acenaphthylene	50.000	46.483	7.0	91	0.00
13	T	Acenaphthene	50.000	48.362	3.3	96	0.00
14	T	Dibenzofuran	50.000	47.162	5.7	92	0.00
15	T	1,6,7-Trimethylnaphthalene	50.000	47.676	4.6	95	0.00
16	T	Fluorene	50.000	47.300	5.4	93	0.00
17	I	Phenanthrene-d10 (ISTD)	100.000	100.000	0.0	93	0.00
18	T	Dibenzothiopene	50.000	47.581	4.8	90	0.00
19	T	Phenanthrene	50.000	47.464	5.1	90	0.00
20	T	Anthracene	50.000	45.649	8.7	86	0.00
21	T	Carbazole	50.000	40.641	18.7	77	0.00
22	T	1-Methylphenanthrene	50.000	48.916	2.2	92	0.00
23	T	Fluoranthene	50.000	46.331	7.3	87	0.00
24	I	Chrysene-d12 (ISTD)	100.000	100.000	0.0	87	-0.01
25	T	Pyrene	50.000	50.829	-1.7	88	0.00
26	S	Terphenyl-d14 (Surr)	50.000	48.265	3.5	84	0.00
27	T	Benz(a)anthracene	50.000	43.204	13.6	79	0.00
28	T	Chrysene	50.000	45.817	8.4	81	0.00
29	I	Perylene-d12 (ISTD)	100.000	100.000	0.0	92	0.00
30	T	Benzo(b)fluoranthene	50.000	46.207	7.6	85	0.00
31	T	Benzo(k)fluoranthene	50.000	46.666	6.7	88	0.00
32	T	Benzo(b+k)fluoranthene	100.000	95.051	4.9	88	0.00
33	S	Benzo(a)pyrene d-12 (Surr)	50.000	0.000	100.0#	0	-17.96#
34	T	Benzo(e)pyrene	50.000	46.136	7.7	87	0.00
35	T	Benzo(a)pyrene	50.000	45.241	9.5	82	0.00
36	T	Perylene	50.000	48.090	3.8	89	0.00
37	I	Dibenz(a,h)Anthrcene-d14(IS	100.000	100.000	0.0	106	-0.01
38	T	Indeno(1,2,3-cd)Pyrene	50.000	44.435	11.1	95	-0.01
39	T	Dibenz(a,h)anthracene	50.000	46.070	7.9	99	-0.01
40	T	Benzo(g,h,i)perylene	50.000	45.596	8.8	95	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

No Name Entered Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-02\0B17042\
Data File : N02172007.D
Acq On : 17 Feb 2020 12:15
Operator : JK/ AMS/ DTH
Sample : 0B17042-CCV1
Misc : 1x, A19K012@50
ALS Vial : 2 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

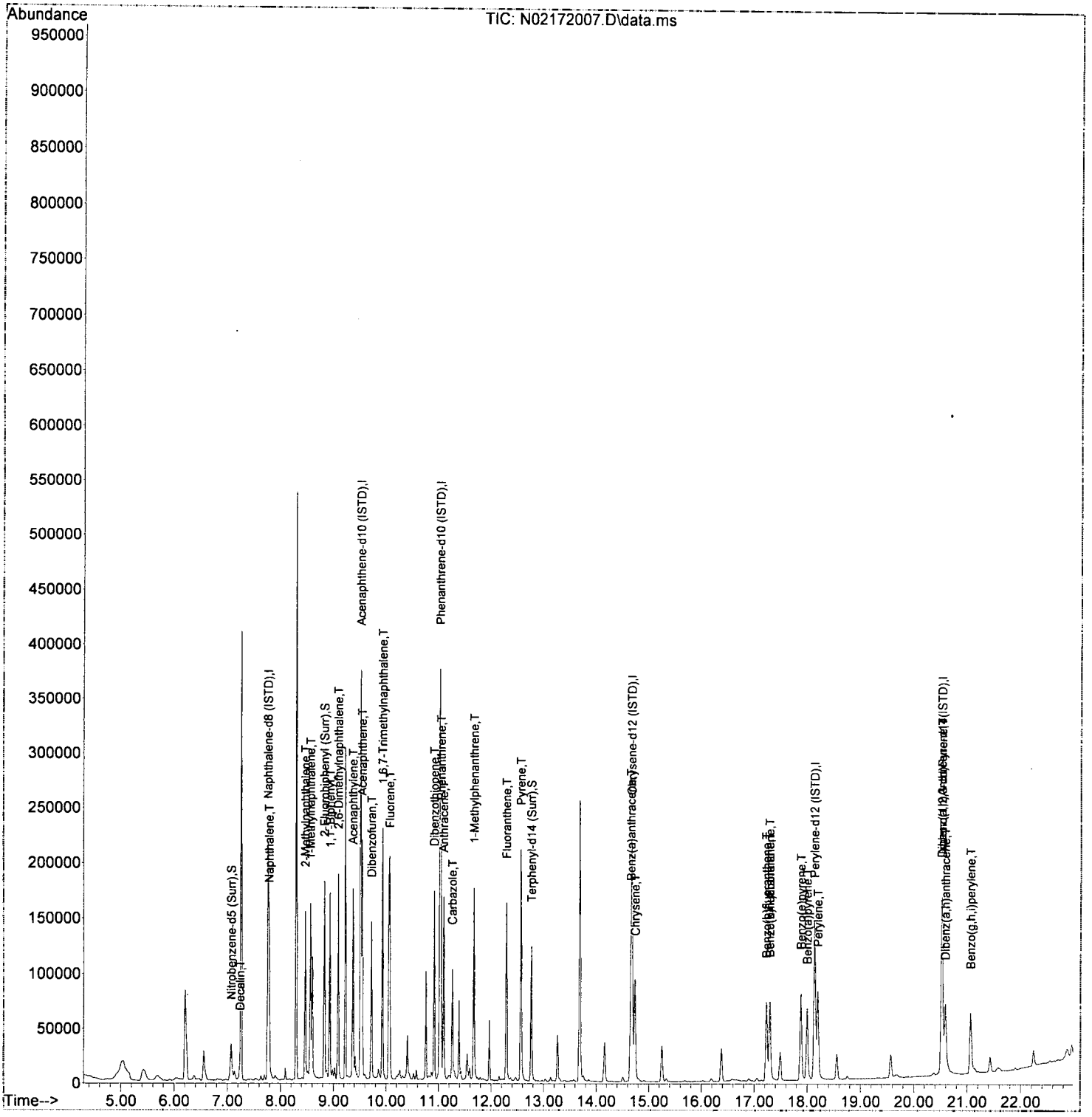
Quant Time: Feb 17 15:00:19 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.761	136	157728	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.515	162	115040	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.019	188	204788	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.674	240	147607	100.00	ng/ml	-0.01
29) Perylene-d12 (ISTD)	18.136	264	131732	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthrcene-d...	20.520	292	98887	100.00	ng/ml	-0.01
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.073	82	24426	46.60	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.827	172	85843	50.02	ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	9.358	160	2154	-1.00	ng/ml	0.00
26) Terphenyl-d14 (Surr)	12.762	244	74928	48.27	ng/ml	0.00
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml	
Target Compounds						Qvalue
3) Decalin	7.236	138	2106	17.93	ng/ml	89
4) Naphthalene	7.784	128	85807	49.33	ng/ml	100
5) 2-Methylnaphthalene	8.466	142	69957	47.46	ng/ml	98
6) 1-Methylnaphthalene	8.565	142	68132	46.23	ng/ml	98
7) 1,1'-Biphenyl	8.932	154	88341	44.56	ng/ml	96
8) 2,6-Dimethylnaphthalene	9.090	156	66356	45.83	ng/ml	99
12) Acenaphthylene	9.370	152	116091	46.48	ng/ml	99
13) Acenaphthene	9.544	153	79112	48.36	ng/ml	99
14) Dibenzofuran	9.719	168	96633	47.16	ng/ml	96
15) 1,6,7-Trimethylnaphtha...	9.929	170	65406	47.68	ng/ml	97
16) Fluorene	10.069	166	79177	47.30	ng/ml	99
18) Dibenzothiopene	10.914	184	101911	47.58	ng/ml	96
19) Phenanthrene	11.042	178	113742	47.46	ng/ml	100
20) Anthracene	11.095	178	101751	45.65	ng/ml	99
21) Carbazole	11.258	167	73302	40.64	ng/ml	99
22) 1-Methylphenanthrene	11.672	192	81430	48.92	ng/ml	100
23) Fluoranthene	12.290	202	111861	46.33	ng/ml	95
25) Pyrene	12.564	202	117217	50.83	ng/ml	99
27) Benz(a)anthracene	14.656	228	74041	43.20	ng/ml	99
28) Chrysene	14.738	228	74304	45.82	ng/ml	100
30) Benzo(b)fluoranthene	17.227	252	70237	46.21	ng/ml	94
31) Benzo(k)fluoranthene	17.291	252	69840	46.67	ng/ml	93
32) Benzo(b+k)fluoranthene	17.291	252	147784	95.05	ng/ml	93
34) Benzo(e)pyrene	17.879	252	70911	46.14	ng/ml	97
35) Benzo(a)pyrene	17.996	252	58861	45.24	ng/ml	97
36) Perylene	18.194	252	77062	48.09	ng/ml	100
38) Indeno(1,2,3-cd)Pyrene	20.526	276	54192	44.44	ng/ml	79
39) Dibenz(a,h)anthracene	20.590	278	52794	46.07	ng/ml	83
40) Benzo(g,h,i)perylene	21.062	276	58990	45.60	ng/ml	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : U:\data\2020-02\0B17042\
Data File : N02172007.D
Acq On : 17 Feb 2020 12:15
Operator : JK/ AMS/ DTH
Sample : 0B17042-CCV1
Misc : 1x, A19K012@50
ALS Vial : 2 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 17 15:00:19 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



No Name Entered Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-02\0B17042\
Data File : N02172008.D
Acq On : 17 Feb 2020 12:47
Operator : JK/ AMS/ DTH
Sample : 0B17042-CCB1
Misc : 1x, DCM + ISTD
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

AMS 2/17/20

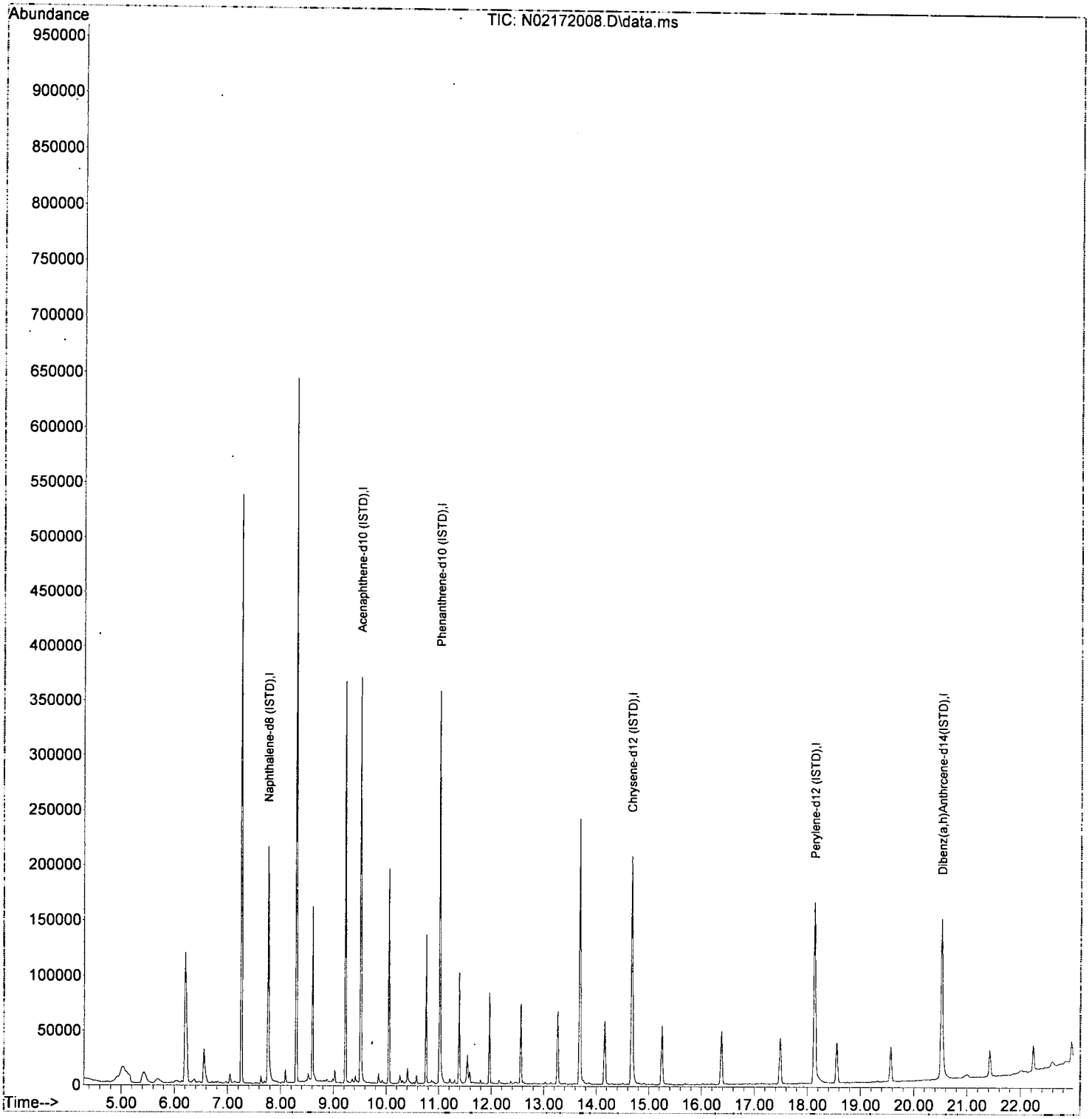
Quant Time: Feb 17 15:00:45 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.761	136	171587	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.515	162	121471	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.019	188	208370	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.673	240	169068	100.00	ng/ml	-0.01
29) Perylene-d12 (ISTD)	18.136	264	156617	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthrcene-d...	20.520	292	127689	100.00	ng/ml	-0.01
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.055	82	126	0.22	ng/ml	-0.01
10) 2-Fluorobiphenyl (Surr)	0.000	172	0	0.00	ng/ml	
11) Acenaphthylene d-8 (Surr)	9.358	160	2441	-1.00	ng/ml	0.00
26) Terphenyl-d14 (Surr)	12.767	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						Qvalue
3) Decalin	0.000		0	N.D.		
4) Naphthalene	7.790	128	549	N.D.		
5) 2-Methylnaphthalene	0.000		0	N.D.		
6) 1-Methylnaphthalene	0.000		0	N.D.		
7) 1,1'-Biphenyl	8.938	154	184	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	11.042	178	219	N.D.		
20) Anthracene	11.042	178	206	N.D.		
21) Carbazole	11.019	167	54	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	14.673	228	466	N.D.		
28) Chrysene	14.737	228	74	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	18.136	252	406	N.D.		
35) Benzo(a)pyrene	0.000		0	N.D.		
36) Perylene	18.136	252	448	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\2020-02\0B17042\
Data File : N02172008.D
Acq On : 17 Feb 2020 12:47
Operator : JK/ AMS/ DTH
Sample : 0B17042-CCB1
Misc : 1x, DCM + ISTD
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 17 15:00:45 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



No Name Entered Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-02\0B17042\
Data File : N02172009.D
Acq On : 17 Feb 2020 13:19
Operator : JK/ AMS/ DTH
Sample : 0020481-BLK1
Misc : 1x, 8270 PAH ONLY
ALS Vial : 4 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

AMS 2/17/20

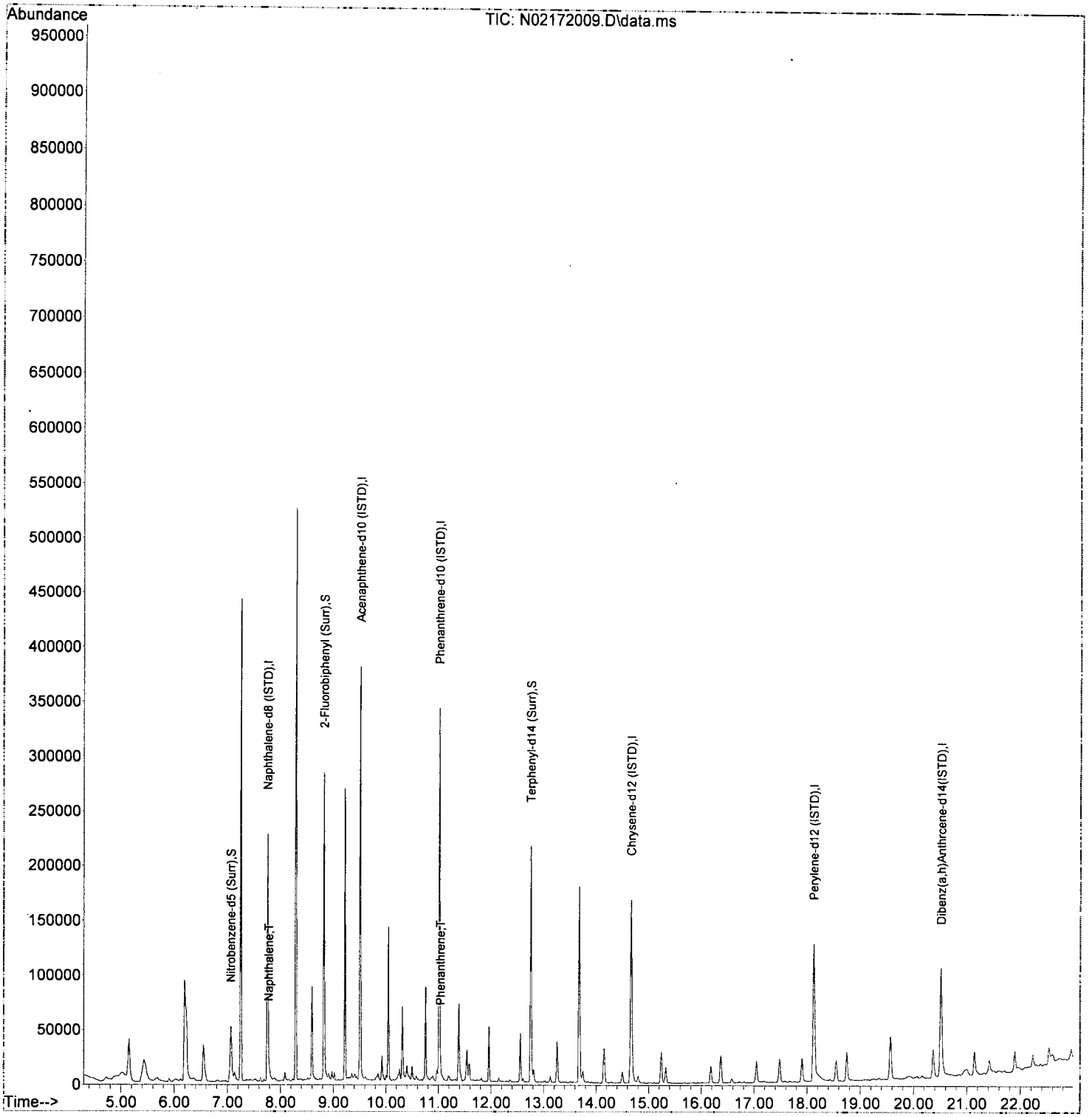
Quant Time: Feb 17 15:00:56 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.755	136	172846	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.509	162	117775	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.013	188	195193	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.668	240	137032	100.00	ng/ml	-0.02
29) Perylene-d12 (ISTD)	18.124	264	119541	100.00	ng/ml	-0.02
37) Dibenz(a,h)Anthrcene-d...	20.514	292	92428	100.00	ng/ml	-0.02
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.061	82	39693	69.11	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.821	172	138441	78.79	ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	9.352	160	3526	0.04	ng/ml	0.00
26) Terphenyl-d14 (Surr)	12.756	244	129171	89.63	ng/ml	-0.01
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml	
Target Compounds						Qvalue
3) Decalin	0.000		0	N.D.		
4) Naphthalene	7.778	128	2376	1.25	ng/ml	99
5) 2-Methylnaphthalene	8.466	142	586	N.D.		
6) 1-Methylnaphthalene	8.559	142	395	N.D.		
7) 1,1'-Biphenyl	8.926	154	413	N.D.		
8) 2,6-Dimethylnaphthalene	9.095	156	279	N.D.		
12) Acenaphthylene	9.364	152	146	N.D.		
13) Acenaphthene	9.538	153	579	N.D.		
14) Dibenzofuran	9.719	168	86	N.D.		
15) 1,6,7-Trimethylnaphtha...	9.929	170	95	N.D.		
16) Fluorene	10.063	166	279	N.D.		
18) Dibenzothiopene	10.914	184	149	N.D.		
19) Phenanthrene	11.036	178	1343	0.59	ng/ml	97
20) Anthracene	11.095	178	103	N.D.		
21) Carbazole	11.194	167	144	N.D.		
22) 1-Methylphenanthrene	11.672	192	94	N.D.		
23) Fluoranthene	12.290	202	391	N.D.		
25) Pyrene	12.563	202	735	N.D.		
27) Benz(a)anthracene	14.662	228	517	N.D.		
28) Chrysene	14.726	228	99	N.D.		
30) Benzo(b)fluoranthene	17.221	252	70	N.D.		
31) Benzo(k)fluoranthene	17.221	252	70	N.D.		
32) Benzo(b+k)fluoranthene	17.221	252	70	N.D.		
34) Benzo(e)pyrene	17.873	252	62	N.D.		
35) Benzo(a)pyrene	0.000		0	N.D.		
36) Perylene	18.124	252	360	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\2020-02\0B17042\
Data File : N02172009.D
Acq On : 17 Feb 2020 13:19
Operator : JK/ AMS/ DTH
Sample : 0020481-BLK1
Misc : 1x, 8270 PAH ONLY
ALS Vial : 4 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 17 15:00:56 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



No Name Entered Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-02\0B17042\
Data File : N02172010.D
Acq On : 17 Feb 2020 13:51
Operator : JK/ AMS/ DTH
Sample : 0020481-BS1
Misc : 1x, 8270 PAH ONLY
ALS Vial : 5 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

AMS 2/17/20

Quant Time: Feb 17 15:01:37 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14

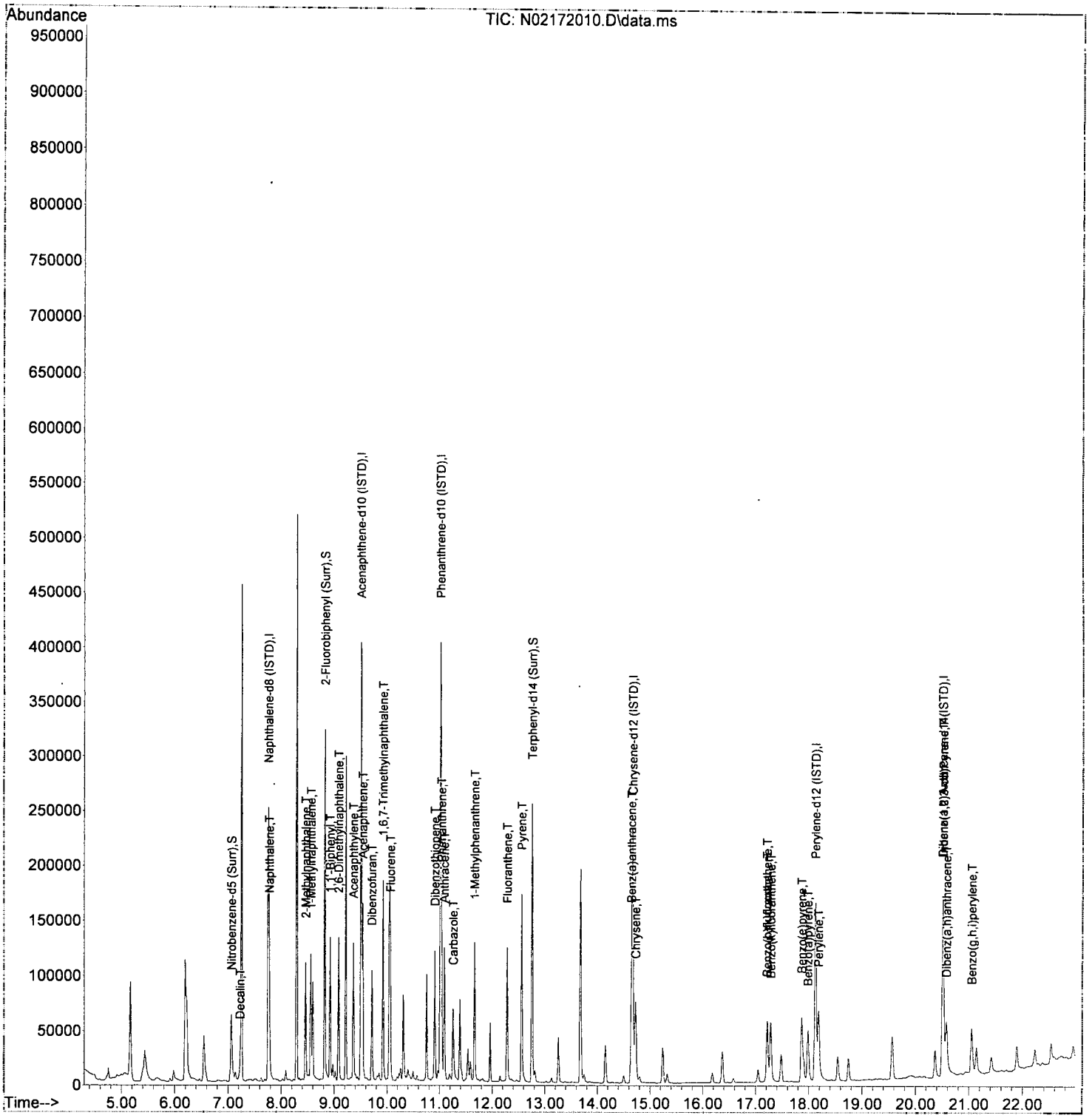
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.755	136	178495	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.503	162	124009	100.00	ng/ml	-0.01
17) Phenanthrene-d10 (ISTD)	11.013	188	217572	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.668	240	165036	100.00	ng/ml	-0.02
29) Perylene-d12 (ISTD)	18.124	264	148592	100.00	ng/ml	-0.02
37) Dibenz(a,h)Anthrcene-d...	20.508	292	112751	100.00	ng/ml	-0.02
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.061	82	43269	72.95	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.821	172	155126	83.85	ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	9.352	160	2607	-1.00	ng/ml	0.00
26) Terphenyl-d14 (Surr)	12.756	244	150514	86.72	ng/ml	-0.01
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml	
Target Compounds						Qvalue
3) Decalin	7.224	138	2049	15.42	ng/ml	91
4) Naphthalene	7.772	128	66540	33.80	ng/ml	100
5) 2-Methylnaphthalene	8.460	142	50496	30.27	ng/ml	97
6) 1-Methylnaphthalene	8.559	142	51223	30.71	ng/ml	97
7) 1,1'-Biphenyl	8.921	154	64193	28.61	ng/ml	97
8) 2,6-Dimethylnaphthalene	9.084	156	46781	28.55	ng/ml	99
12) Acenaphthylene	9.363	152	83371	30.97	ng/ml	99
13) Acenaphthene	9.538	153	58079	32.94	ng/ml	98
14) Dibenzofuran	9.713	168	67700	30.65	ng/ml	95
15) 1,6,7-Trimethylnaphtha...	9.923	170	46170	31.22	ng/ml	96
16) Fluorene	10.063	166	56155	31.12	ng/ml	100
18) Dibenzothiopene	10.908	184	70836	31.13	ng/ml	96
19) Phenanthrene	11.036	178	82624	32.45	ng/ml	100
20) Anthracene	11.089	178	72515	30.62	ng/ml	99
21) Carbazole	11.258	167	49622	25.90	ng/ml	98
22) 1-Methylphenanthrene	11.666	192	57639	32.59	ng/ml	98
23) Fluoranthene	12.284	202	84765	33.05	ng/ml	96
25) Pyrene	12.558	202	86657	33.61	ng/ml	99
27) Benz(a)anthracene	14.644	228	57060	29.78	ng/ml	100
28) Chrysene	14.726	228	59924	33.05	ng/ml	99
30) Benzo(b)fluoranthene	17.215	252	53414	31.15	ng/ml	93
31) Benzo(k)fluoranthene	17.285	252	52869	31.32	ng/ml	92
32) Benzo(b+k)fluoranthene	17.215	252	112194	63.97	ng/ml	91
34) Benzo(e)pyrene	17.867	252	54797	31.61	ng/ml	99
35) Benzo(a)pyrene	17.984	252	43714	29.79	ng/ml	96
36) Perylene	18.182	252	58108	32.15	ng/ml	99
38) Indeno(1,2,3-cd)Pyrene	20.514	276	41989	30.20	ng/ml	82
39) Dibenz(a,h)anthracene	20.578	278	40209	30.77	ng/ml	84
40) Benzo(g,h,i)perylene	21.050	276	44855	30.41	ng/ml	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

No Name Entered Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-02\0B17042\
Data File : N02172010.D
Acq On : 17 Feb 2020 13:51
Operator : JK/ AMS/ DTH
Sample : 0020481-BS1
Misc : 1x, 8270 PAH ONLY
ALS Vial : 5 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 17 15:01:37 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



No Name Entered Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-02\0B17042\
Data File : N02172011.D
Acq On : 17 Feb 2020 14:24
Operator : JK/ AMS/ DTH
Sample : A0B0411-02
Misc : 1x, 8270 PAH ONLY
ALS Vial : 6 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

AMS 2/17/20

Quant Time: Feb 17 15:02:01 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.749	136	195846	100.00	ng/ml	-0.01
9) Acenaphthene-d10 (ISTD)	9.504	162	132526	100.00	ng/ml	-0.01
17) Phenanthrene-d10 (ISTD)	11.013	188	248403	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.662	240	214699	100.00	ng/ml	-0.02
29) Perylene-d12 (ISTD)	18.124	264	204510	100.00	ng/ml	-0.02
37) Dibenz(a,h)Anthrcene-d...	20.508	292	167375	100.00	ng/ml	-0.02
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.056	82	42723	65.65	ng/ml	-0.01
10) 2-Fluorobiphenyl (Surr)	8.816	172	145062	73.37	ng/ml	-0.01
11) Acenaphthylene d-8 (Surr)	9.346	160	2504	-1.00	ng/ml	-0.01
26) Terphenyl-d14 (Surr)	12.756	244	179062	79.30	ng/ml	-0.01
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml	
Target Compounds						Qvalue
3) Decalin	0.000		0	N.D.		
4) Naphthalene	7.773	128	7083	3.28	ng/ml	95
5) 2-Methylnaphthalene	8.454	142	2090	1.14	ng/ml	97
6) 1-Methylnaphthalene	8.554	142	2748	1.50	ng/ml	96
7) 1,1'-Biphenyl	8.921	154	872	N.D.		
8) 2,6-Dimethylnaphthalene	9.084	156	1001	0.56	ng/ml	92
12) Acenaphthylene	9.364	152	6499	2.26	ng/ml	91
13) Acenaphthene	9.539	153	80927	42.94	ng/ml	100
14) Dibenzofuran	9.713	168	1121	0.47	ng/ml#	66
15) 1,6,7-Trimethylnaphtha...	9.917	170	1413	0.89	ng/ml#	29
16) Fluorene	10.057	166	31530	16.35	ng/ml	99
18) Dibenzothiopene	10.908	184	18421	7.09	ng/ml	98
19) Phenanthrene	11.037	178	16991	5.85	ng/ml	97
20) Anthracene	11.089	178	4697	1.74	ng/ml	96
21) Carbazole	11.252	167	1691	0.77	ng/ml	86
22) 1-Methylphenanthrene	11.660	192	1238	0.61	ng/ml	81
23) Fluoranthene	12.278	202	34227	11.69	ng/ml	97
25) Pyrene	12.558	202	49416	14.73	ng/ml	99
27) Benz(a)anthracene	14.645	228	7802	3.13	ng/ml	70
28) Chrysene	14.720	228	11836	5.02	ng/ml	97
30) Benzo(b)fluoranthene	17.221	252	9346	3.96	ng/ml	94
31) Benzo(k)fluoranthene	17.221	252	11514	4.96	ng/ml	92
32) Benzo(b+k)fluoranthene	17.221	252	13753	5.70	ng/ml	92
34) Benzo(e)pyrene	17.862	252	6664	2.79	ng/ml	99
35) Benzo(a)pyrene	17.984	252	8684	4.30	ng/ml	98
36) Perylene	18.182	252	5509	2.21	ng/ml	95
38) Indeno(1,2,3-cd)Pyrene	20.514	276	6999	3.39	ng/ml	90
39) Dibenz(a,h)anthracene	20.572	278	753	N.D.		
40) Benzo(g,h,i)perylene	21.050	276	7954	3.63	ng/ml	92

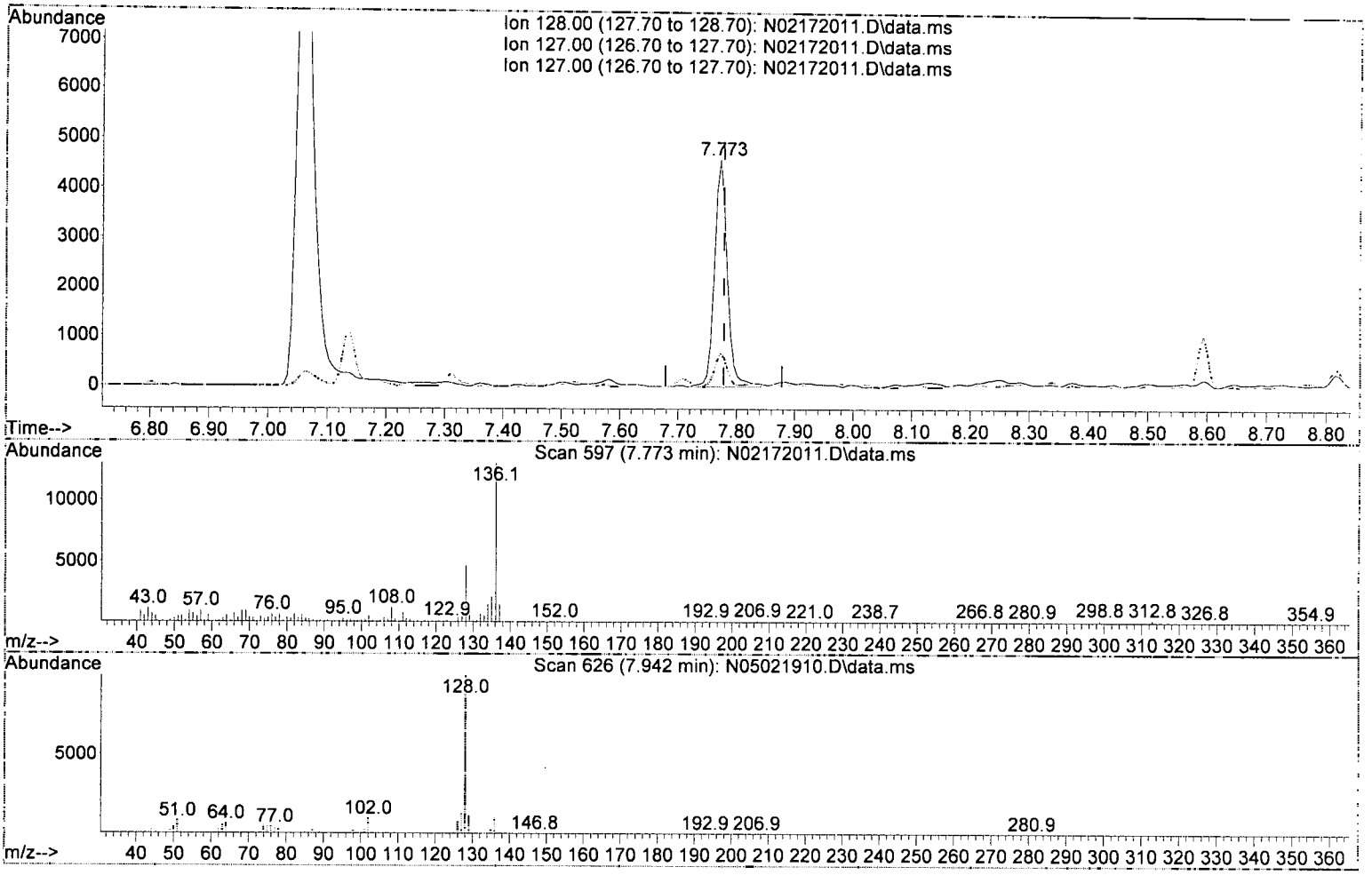
MI-ND

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B17042\
Data File : N02172011.D
Acq On : 17 Feb 2020 14:24
Operator : JK/ AMS/ DTH
Sample : A0B0411-02
Misc : 1x, 8270 PAH ONLY
ALS Vial : 6 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 17 15:02:01 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02172011.D\data.ms

(4) Naphthalene (T)

7.773min (-0.006) 3.28 ng/ml

response 7083

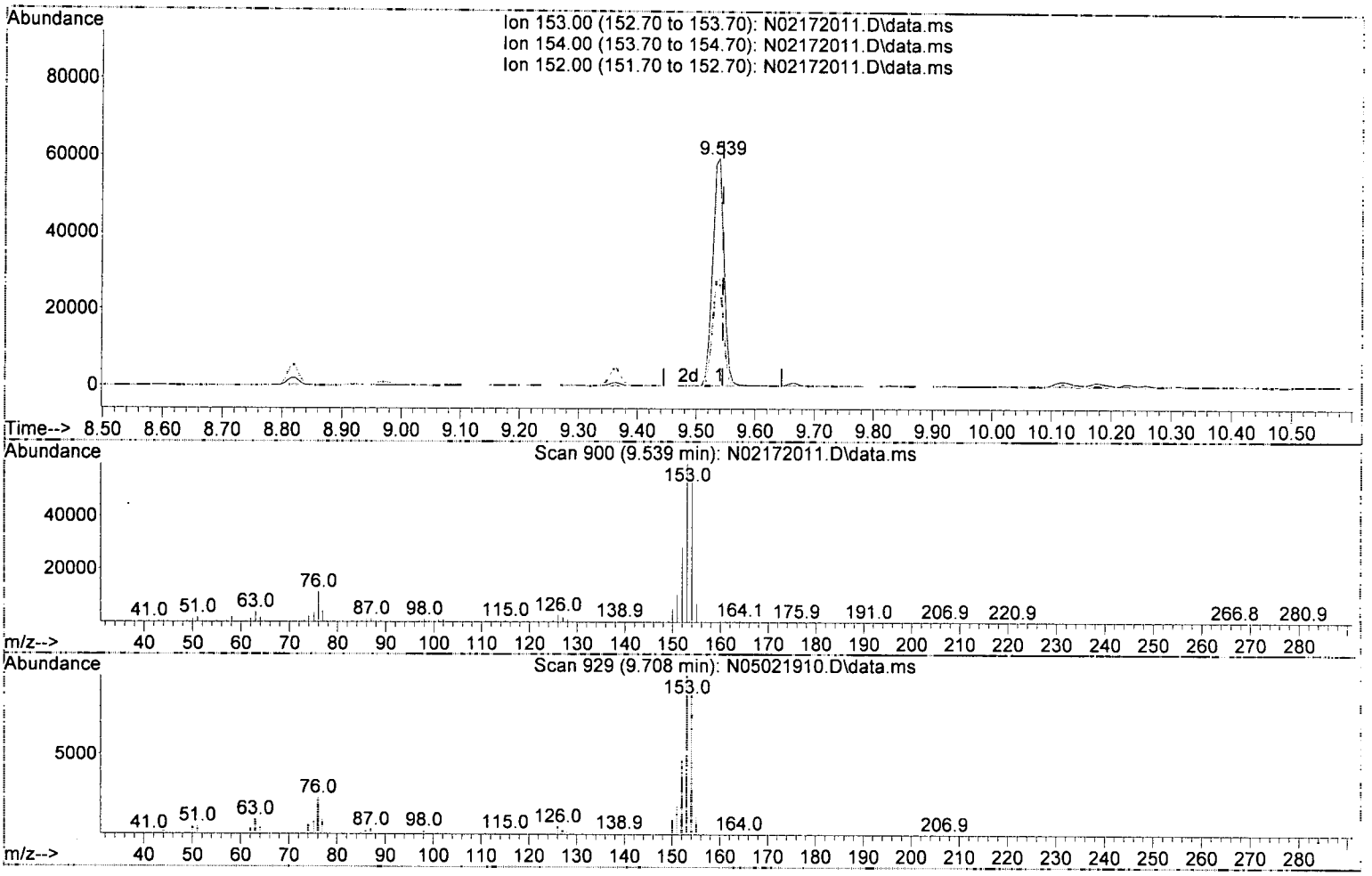
Ion	Exp%	Act%
128.00	100.00	100.00
127.00	12.60	14.68
127.00	12.60	14.68
0.00	0.00	0.00

J

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B17042\
Data File : N02172011.D
Acq On : 17 Feb 2020 14:24
Operator : JK/ AMS/ DTH
Sample : A0B0411-02
Misc : 1x, 8270 PAH ONLY
ALS Vial : 6 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 17 15:02:01 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02172011.D\data.ms

(13) Acenaphthene (T)

9.539min (-0.006) 42.94 ng/ml

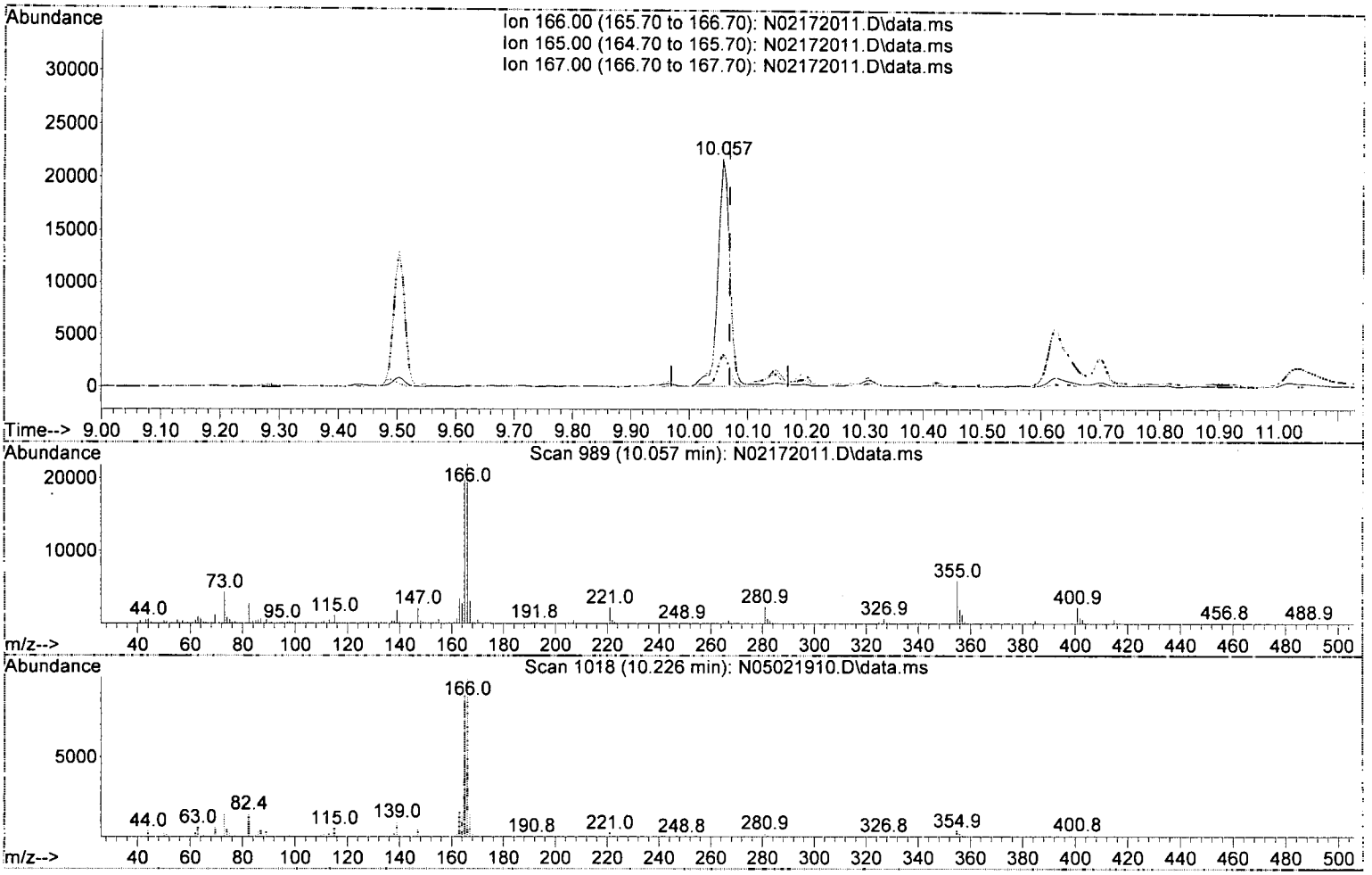
response 80927

Ion	Exp%	Act%
153.00	100.00	100.00
154.00	90.70	91.03
152.00	46.80	47.17
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B17042\
Data File : N02172011.D
Acq On : 17 Feb 2020 14:24
Operator : JK/ AMS/ DTH
Sample : A0B0411-02
Misc : 1x, 8270 PAH ONLY
ALS Vial : 6 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 17 15:02:01 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02172011.D\data.ms

(16) Fluorene (T)

10.057min (-0.012) 16.35 ng/ml

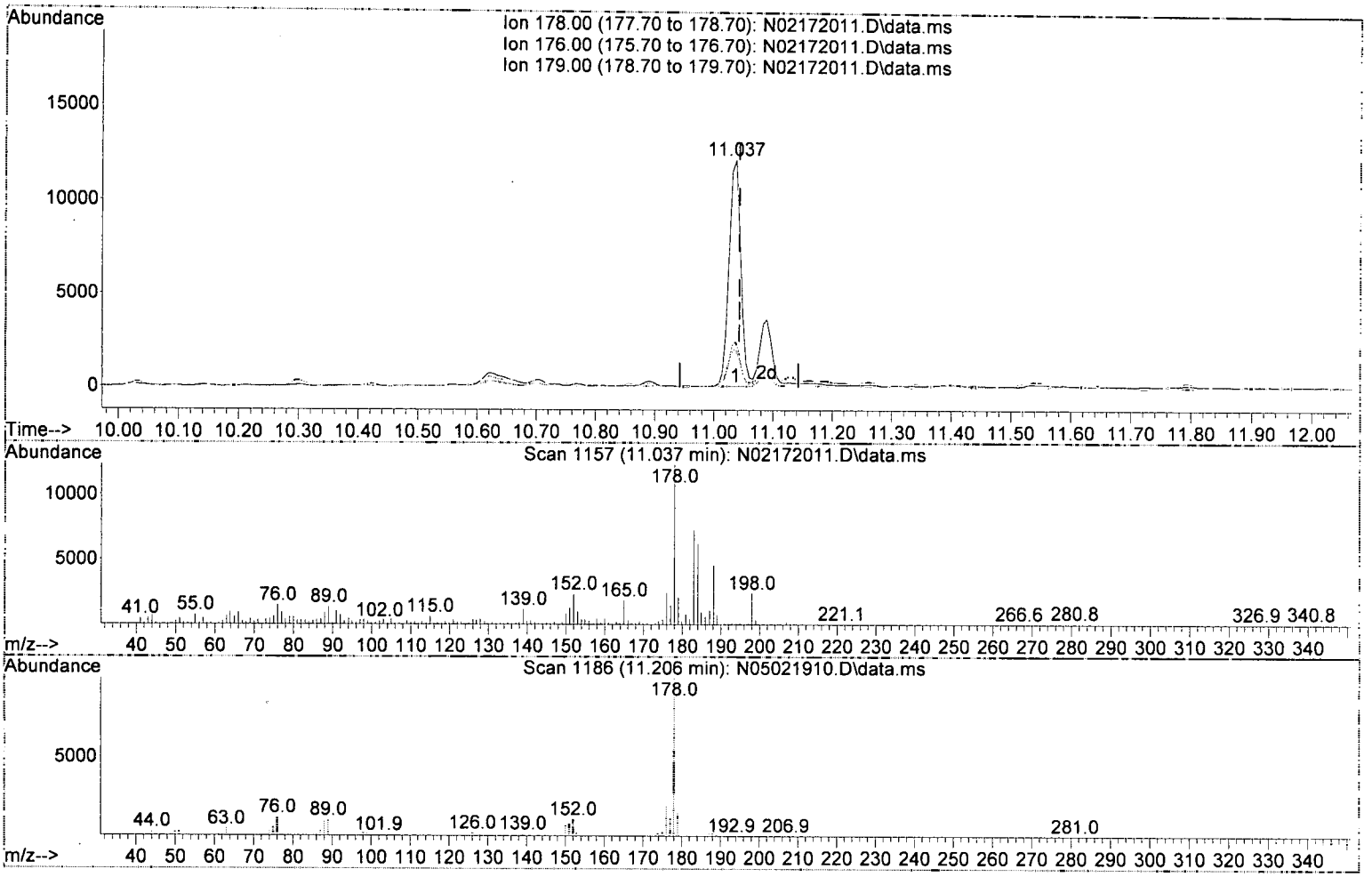
response 31530

Ion	Exp%	Act%
166.00	100.00	100.00
165.00	95.70	95.09
167.00	13.60	14.20
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B17042\
Data File : N02172011.D
Acq On : 17 Feb 2020 14:24
Operator : JK/ AMS/ DTH
Sample : A0B0411-02
Misc : 1x, 8270 PAH ONLY
ALS Vial : 6 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 17 15:02:01 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02172011.D\data.ms

(19) Phenanthrene (T)

11.037min (-0.006) 5.85 ng/ml

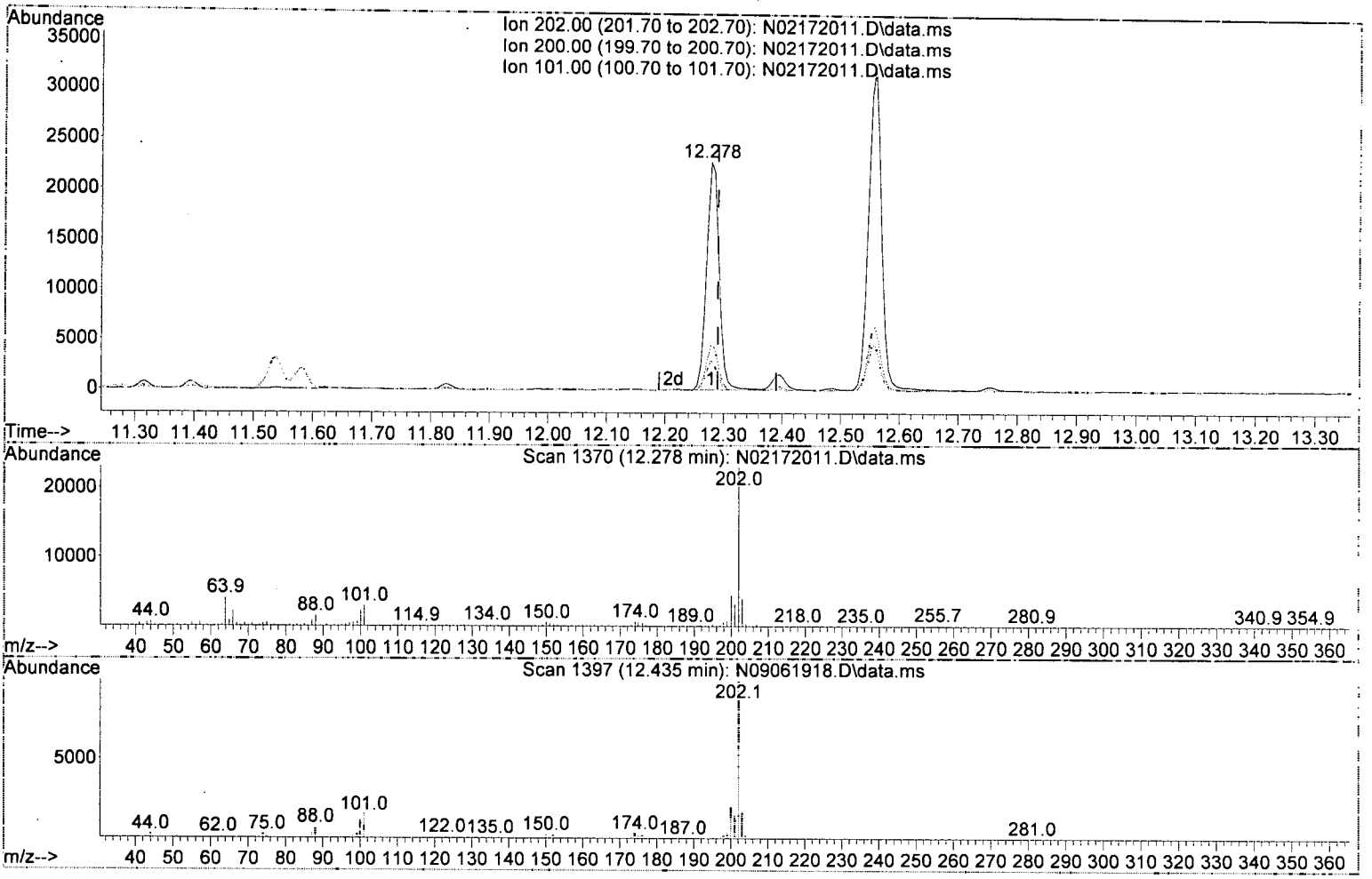
response 16991

Ion	Exp%	Act%
178.00	100.00	100.00
176.00	19.00	19.87
179.00	15.10	16.89
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B17042\
Data File : N02172011.D
Acq On : 17 Feb 2020 14:24
Operator : JK/ AMS/ DTH
Sample : A0B0411-02
Misc : 1x, 8270 PAH ONLY
ALS Vial : 6 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 17 15:02:01 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02172011.D\data.ms

(23) Fluoranthene (T)

12.278min (-0.012) 11.69 ng/ml

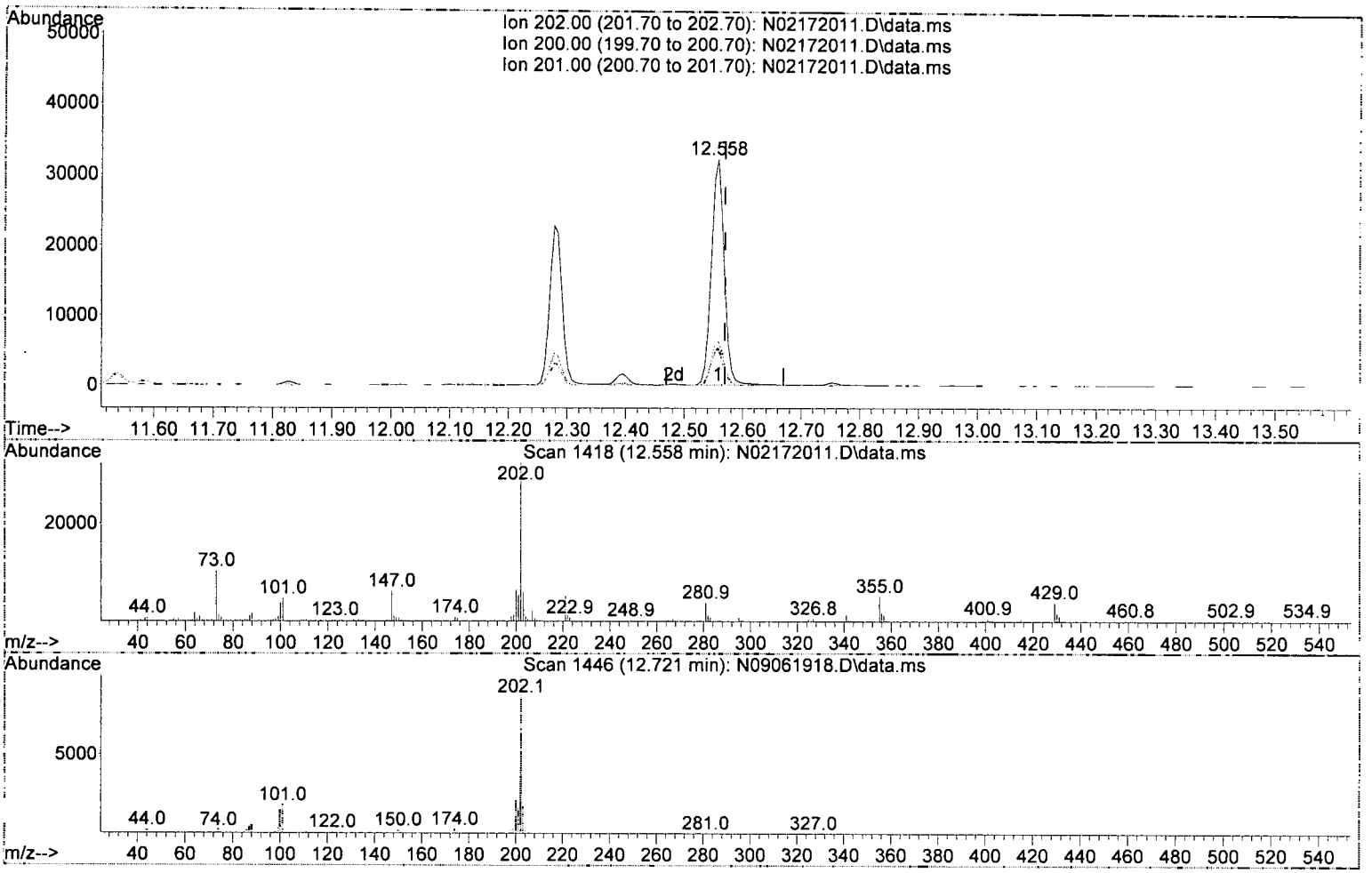
response 34227

Ion	Exp%	Act%
202.00	100.00	100.00
200.00	19.70	19.89
101.00	15.30	12.88
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B17042\
Data File : N02172011.D
Acq On : 17 Feb 2020 14:24
Operator : JK/ AMS/ DTH
Sample : A0B0411-02
Misc : 1x, 8270 PAH ONLY
ALS Vial : 6 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 17 15:02:01 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02172011.D\data.ms

(25) Pyrene (T)

12.558min (-0.012) 14.73 ng/ml

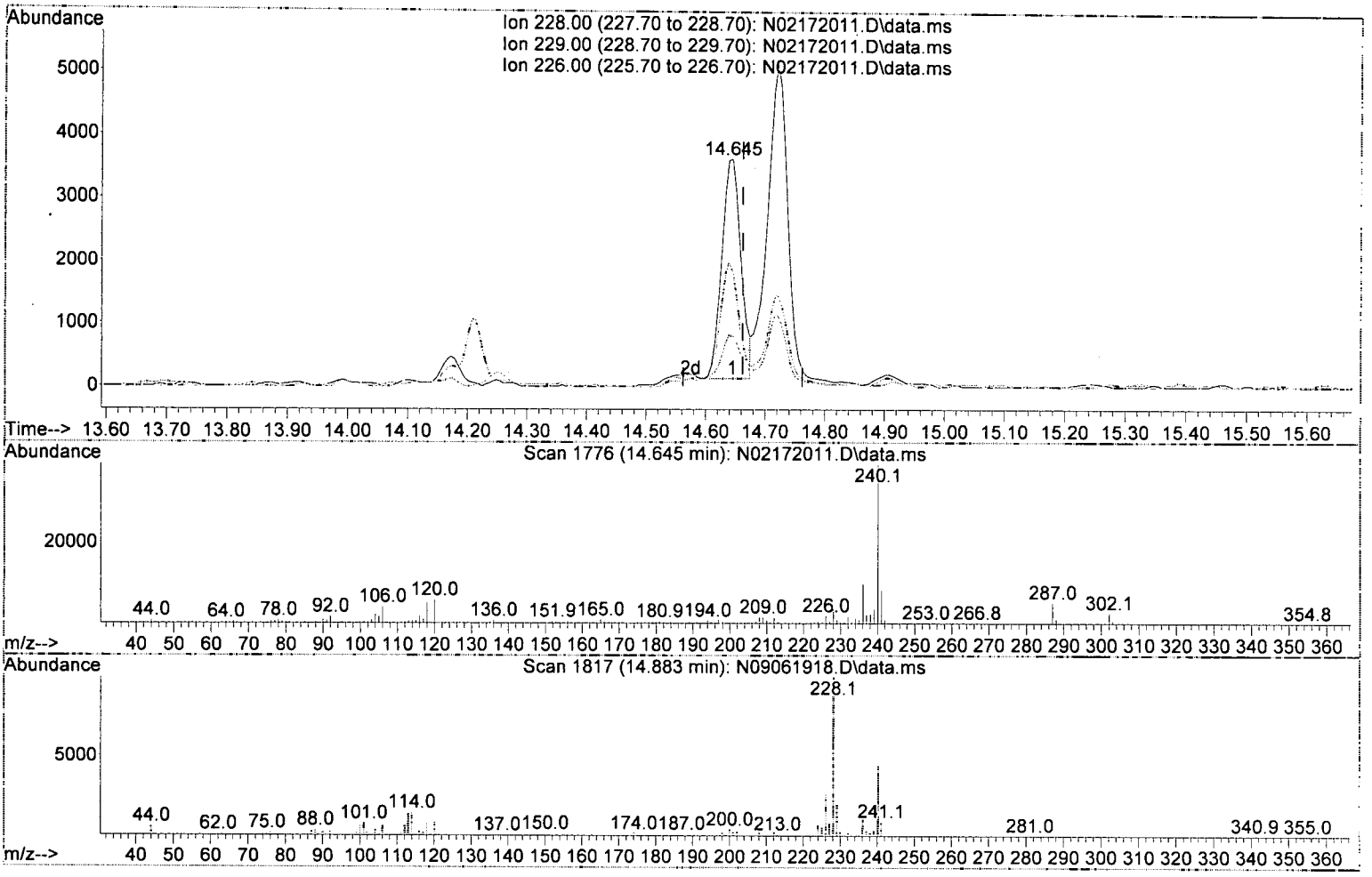
response 49416

Ion	Exp%	Act%
202.00	100.00	100.00
200.00	20.70	19.90
201.00	16.80	16.49
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B17042\
Data File : N02172011.D
Acq On : 17 Feb 2020 14:24
Operator : JK/ AMS/ DTH
Sample : A0B0411-02
Misc : 1x, 8270 PAH ONLY
ALS Vial : 6 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 17 15:02:01 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02172011.D\data.ms

(27) Benz(a)anthracene (T)

14.645min (-0.017) 3.13 ng/ml

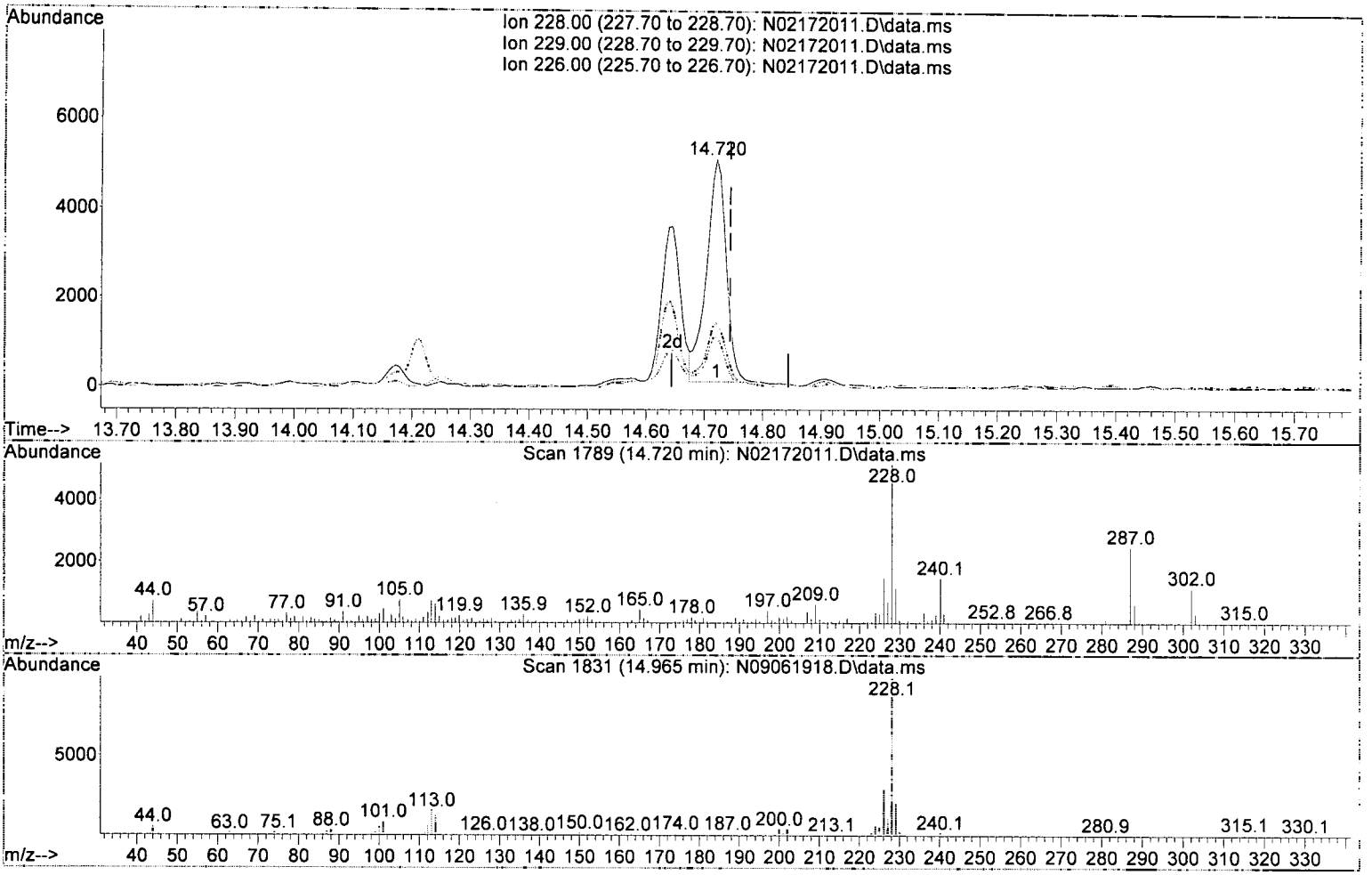
response 7802

Ion	Exp%	Act%
228.00	100.00	100.00
229.00	19.40	22.26
226.00	26.20	50.37
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B17042\
Data File : N02172011.D
Acq On : 17 Feb 2020 14:24
Operator : JK/ AMS/ DTH
Sample : A0B0411-02
Misc : 1x, 8270 PAH ONLY
ALS Vial : 6 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 17 15:02:01 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02172011.D\data.ms

(28) Chrysene (T)

14.720min (-0.023) 5.02 ng/ml

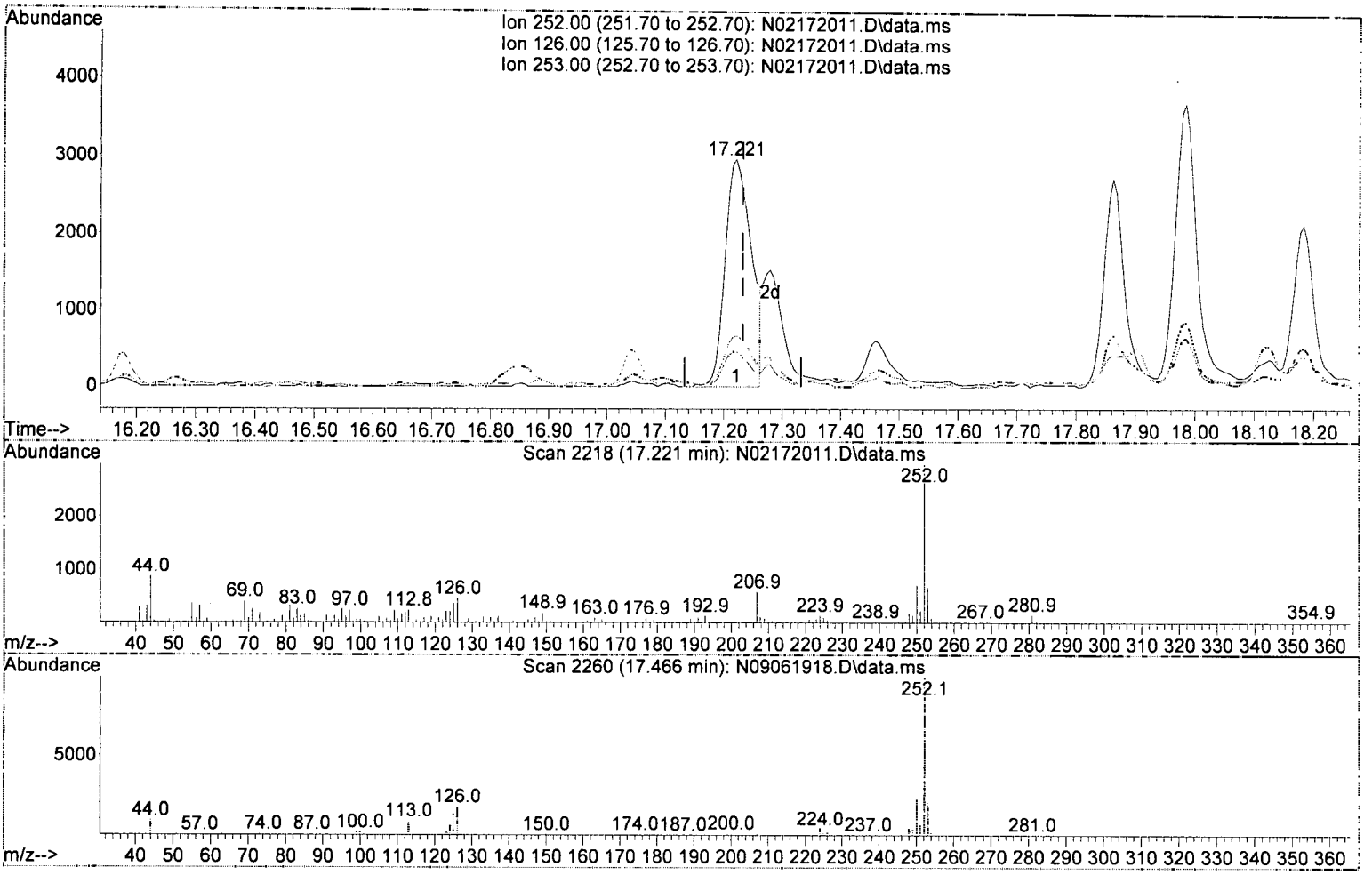
response 11836

Ion	Exp%	Act%
228.00	100.00	100.00
229.00	19.60	22.20
226.00	28.60	28.38
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B17042\
Data File : N02172011.D
Acq On : 17 Feb 2020 14:24
Operator : JK/ AMS/ DTH
Sample : A0B0411-02
Misc : 1x, 8270 PAH ONLY
ALS Vial : 6 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 17 15:02:01 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02172011.D\data.ms

(30) Benzo(b)fluoranthene (T)

17.221min (-0.012) 3.96 ng/ml

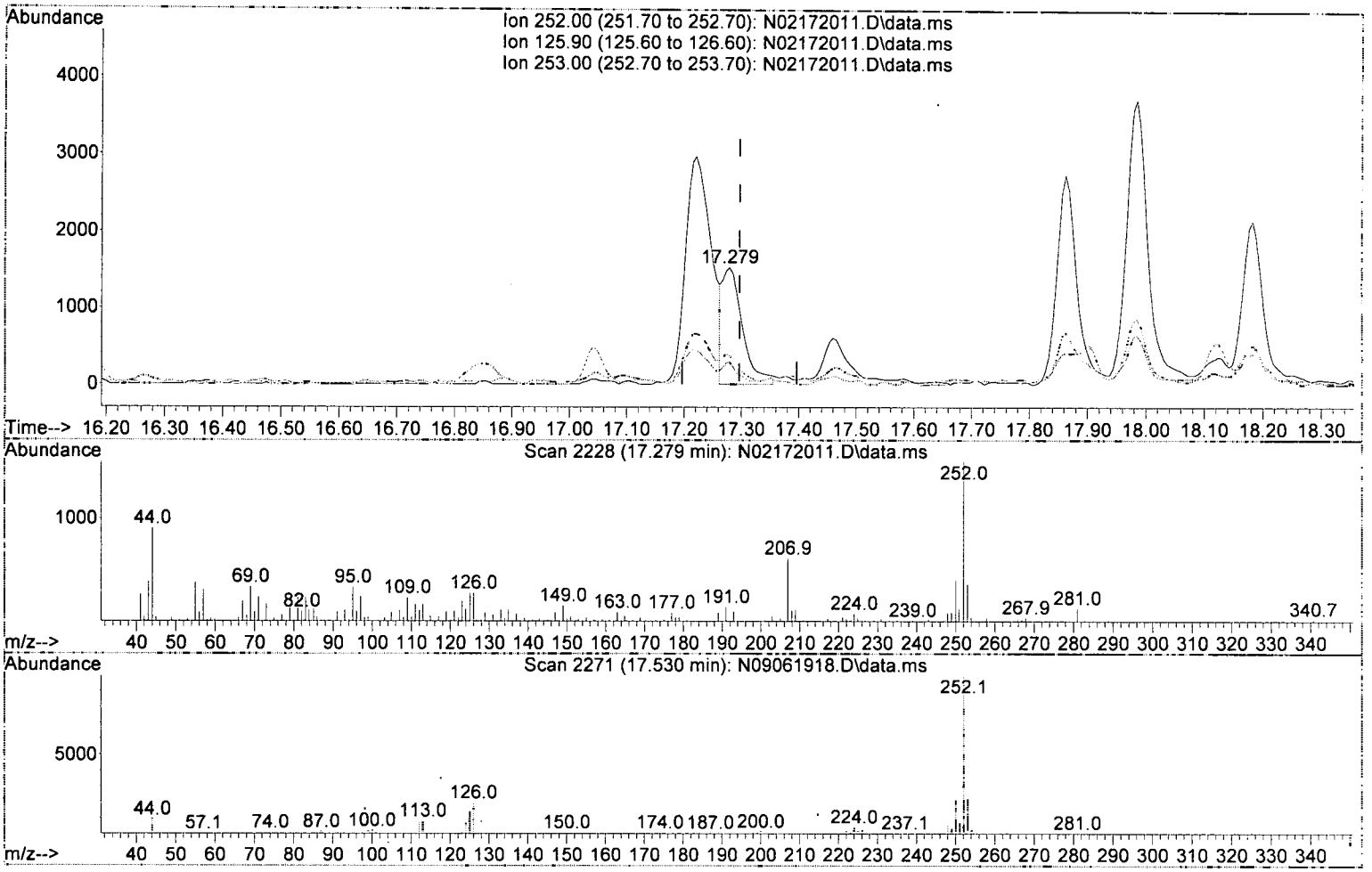
response 9346

Ion	Exp%	Act%
252.00	100.00	100.00
126.00	20.00	15.34
253.00	21.10	22.33
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B17042\
Data File : N02172011.D
Acq On : 17 Feb 2020 14:24
Operator : JK/ AMS/ DTH
Sample : A0B0411-02
Misc : 1x, 8270 PAH ONLY
ALS Vial : 6 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 17 15:02:01 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02172011.D\data.ms

(31) Benzo(k)fluoranthene (T)

17.279min (-0.017) 1.59 ng/ml m

response 3694

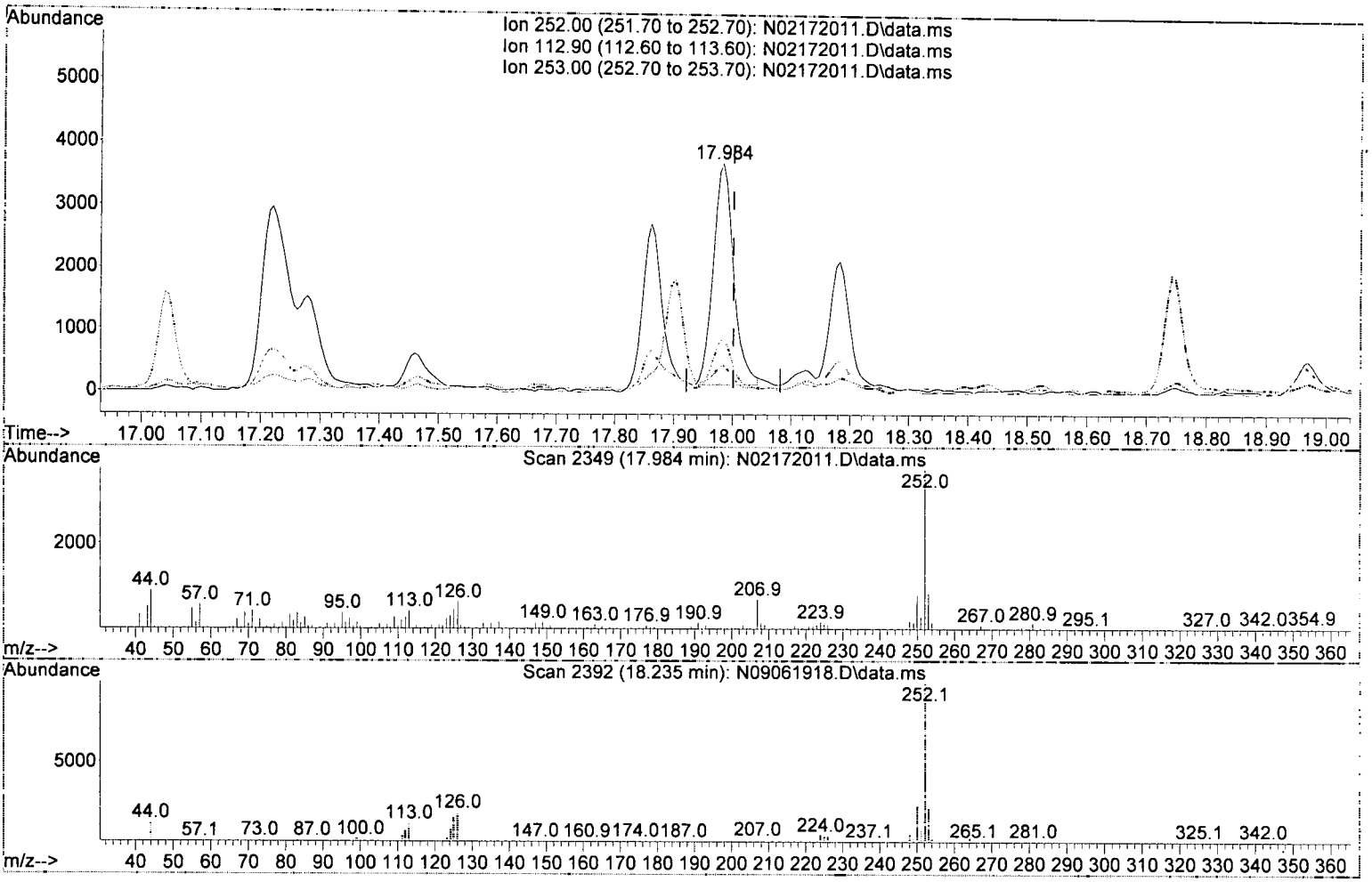
Ion	Exp%	Act%
252.00	100.00	100.00
125.90	22.10	18.85
253.00	21.50	24.48
0.00	0.00	0.00

OAMS 2/17/20

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B17042\
Data File : N02172011.D
Acq On : 17 Feb 2020 14:24
Operator : JK/ AMS/ DTH
Sample : A0B0411-02
Misc : 1x, 8270 PAH ONLY
ALS Vial : 6 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 17 15:02:01 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02172011.D\data.ms

(35) Benzo(a)pyrene (T)

17.984min (-0.017) 4.30 ng/ml

response 8684

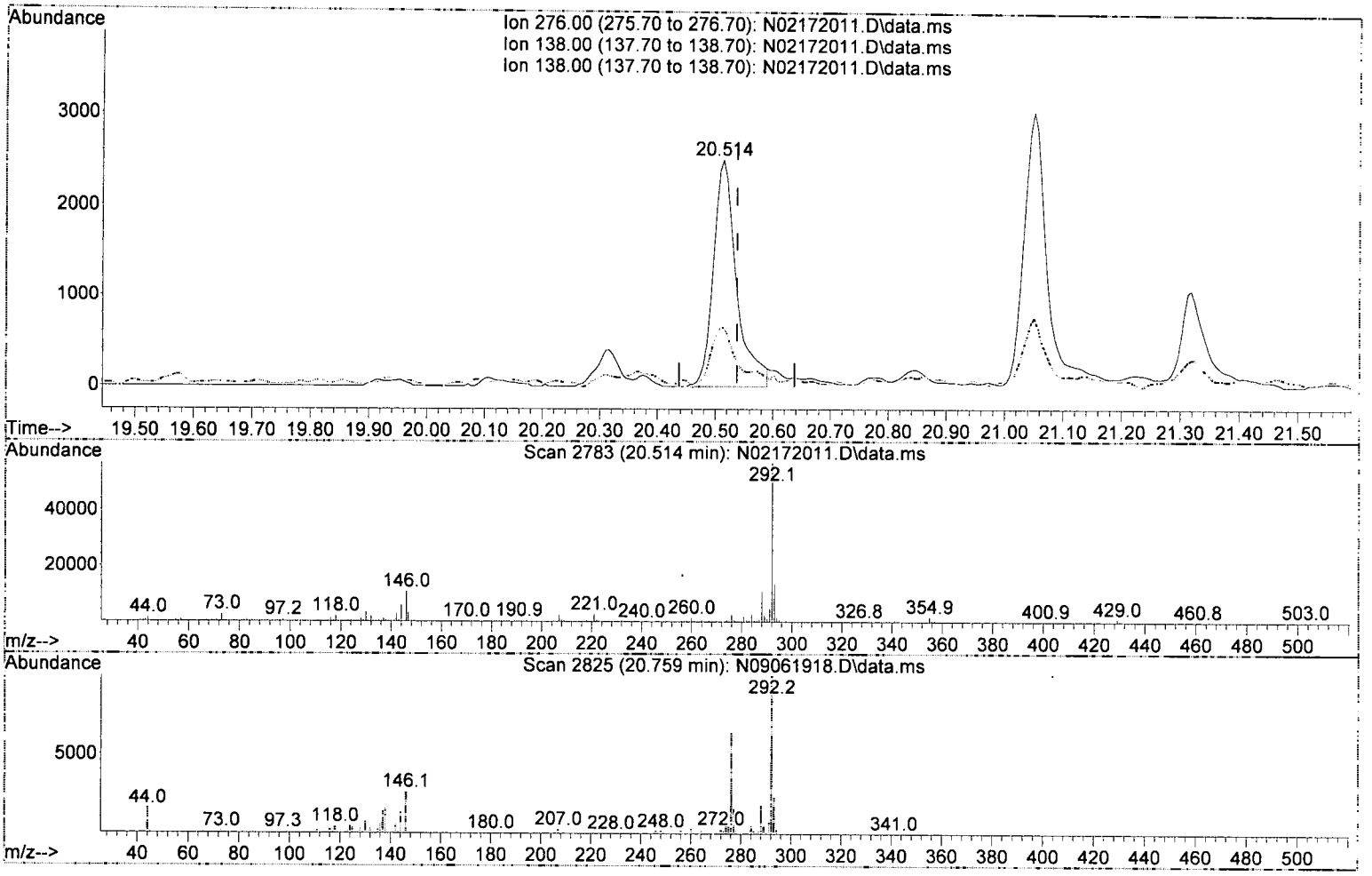
Ion	Exp%	Act%
252.00	100.00	100.00
112.90	12.70	11.67
253.00	21.90	23.04
0.00	0.00	0.00

J

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B17042\
Data File : N02172011.D
Acq On : 17 Feb 2020 14:24
Operator : JK/ AMS/ DTH
Sample : A0B0411-02
Misc : 1x, 8270 PAH ONLY
ALS Vial : 6 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 17 15:02:01 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02172011.D\data.ms

(38) Indeno(1,2,3-cd)Pyrene (T)

20.514min (-0.023) 3.39 ng/ml

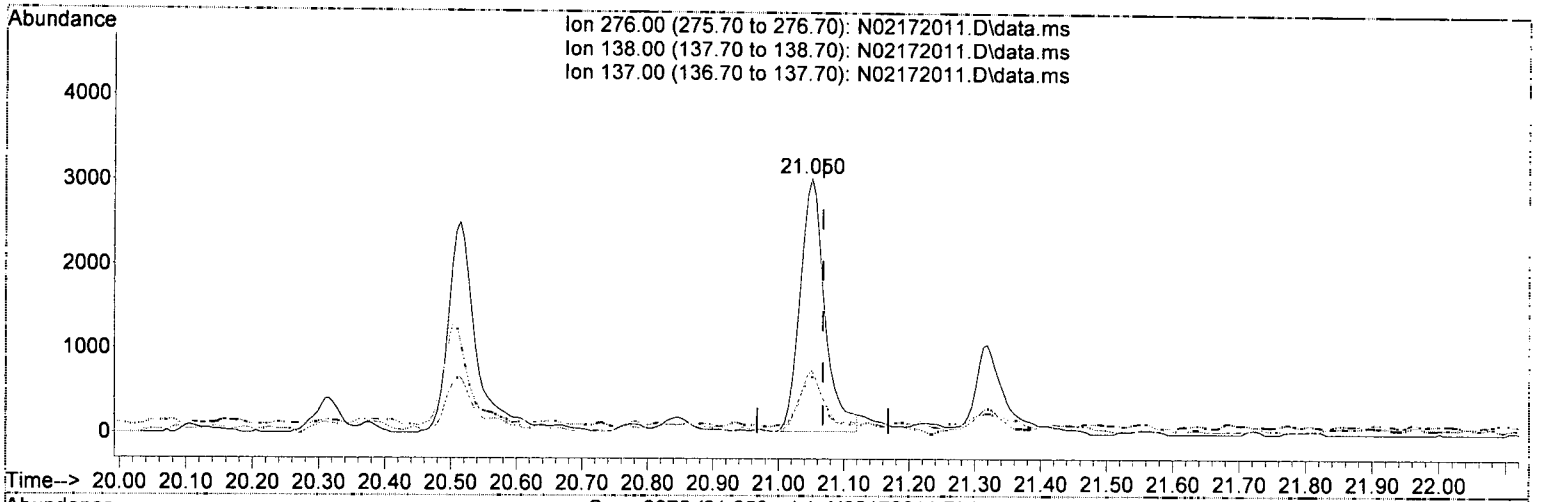
response 6999

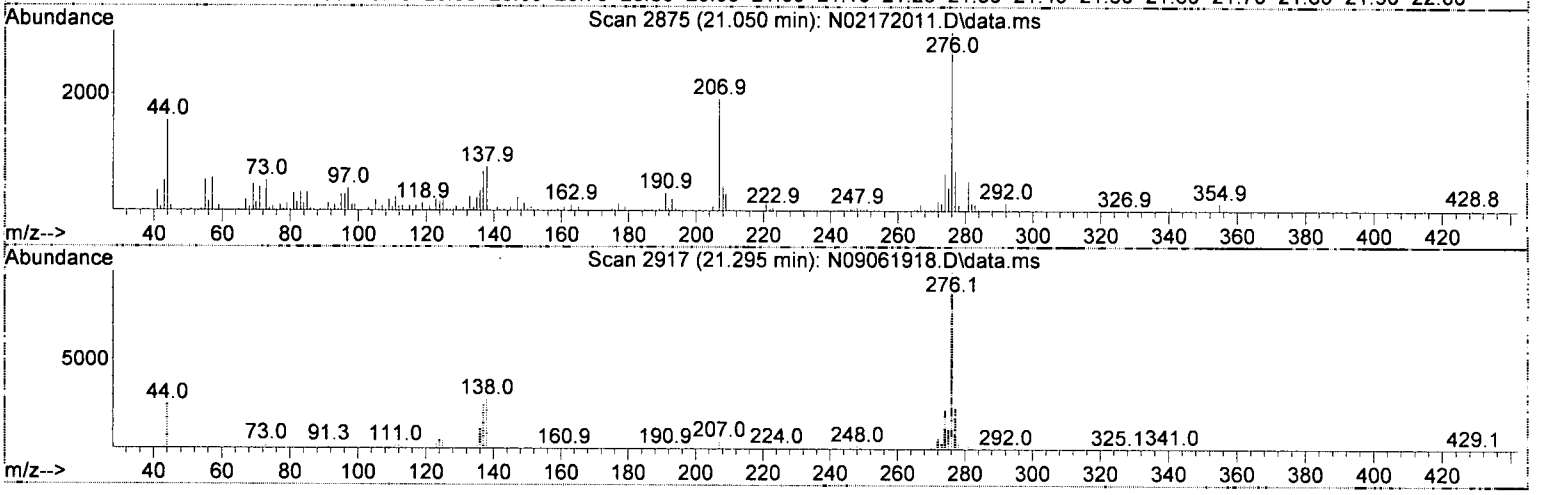
Ion	Exp%	Act%
276.00	100.00	100.00
138.00	31.60	26.19
138.00	31.60	26.19
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B17042\
Data File : N02172011.D
Acq On : 17 Feb 2020 14:24
Operator : JK/ AMS/ DTH
Sample : A0B0411-02
Misc : 1x, 8270 PAH ONLY
ALS Vial : 6 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 17 15:02:01 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14





TIC: N02172011.D\data.ms

(40) Benzo(g,h,i)perylene (T)

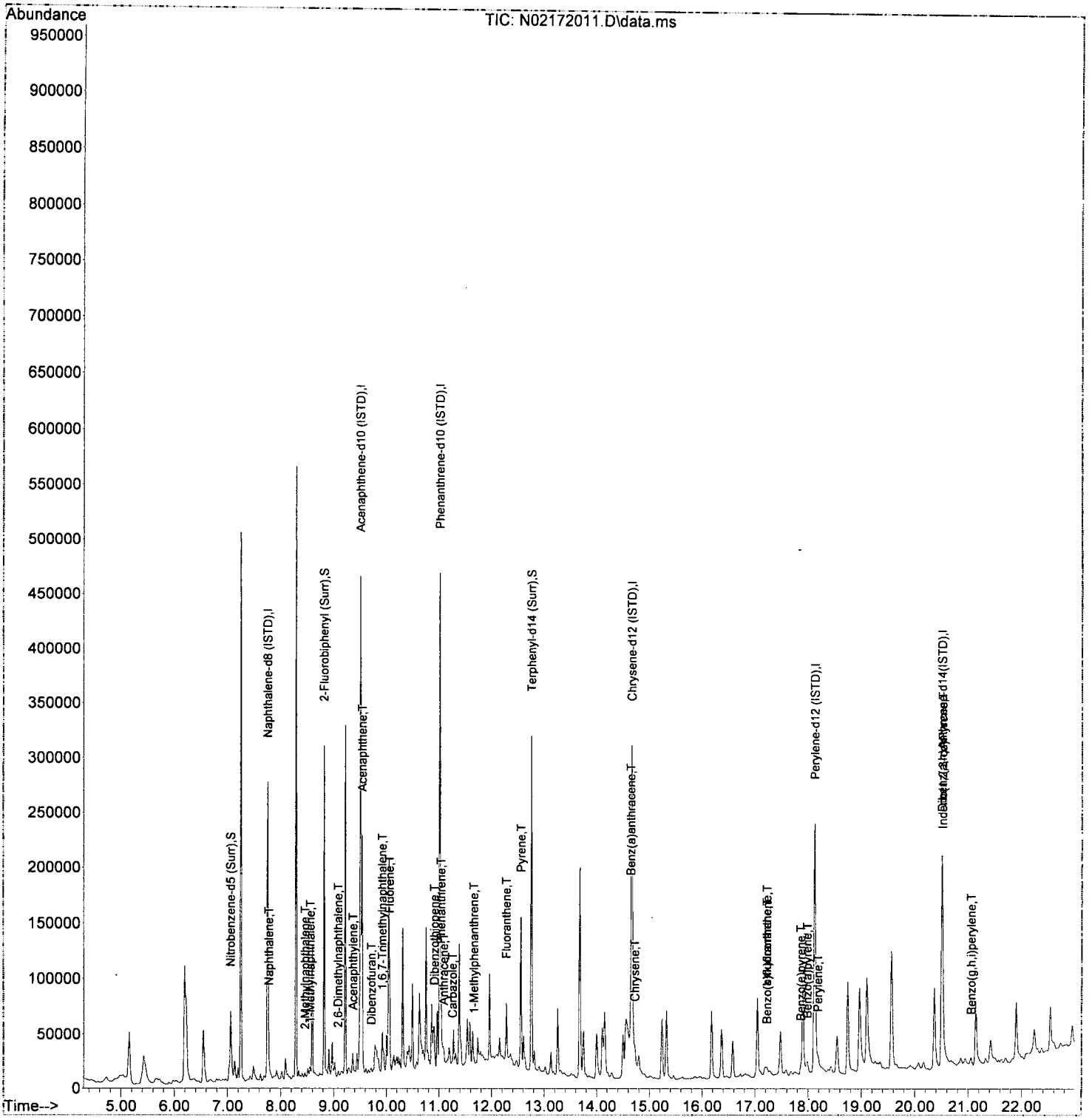
21.050min (-0.017) 3.63 ng/ml

response 7954

Ion	Exp%	Act%
276.00	100.00	100.00
138.00	21.00	24.84
137.00	18.60	22.35
0.00	0.00	0.00

Data Path : U:\data\2020-02\0B17042\
Data File : N02172011.D
Acq On : 17 Feb 2020 14:24
Operator : JK/ AMS/ DTH
Sample : A0B0411-02
Misc : 1x, 8270 PAH ONLY
ALS Vial : 6 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 17 15:02:01 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



No Name Entered Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-02\0B17042\
Data File : N02172012.D
Acq On : 17 Feb 2020 14:56
Operator : JK/ AMS/ DTH
Sample : 0020481-DUP1
Misc : 1x, 8270 PAH ONLY
ALS Vial : 7 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

AMS 2/17/20

Quant Time: Feb 17 15:19:45 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.755	136	192599	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.504	162	129398	100.00	ng/ml	-0.01
17) Phenanthrene-d10 (ISTD)	11.013	188	231361	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.668	240	178527	100.00	ng/ml	-0.02
29) Perylene-d12 (ISTD)	18.124	264	164886	100.00	ng/ml	-0.02
37) Dibenz(a,h)Anthrcene-d...	20.508	292	131452	100.00	ng/ml	-0.02
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.061	82	42751	66.80	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.822	172	146728	76.01	ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	9.352	160	2784	-1.00	ng/ml	0.00
26) Terphenyl-d14 (Surr)	12.756	244	142861	76.09	ng/ml	-0.01
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml	
Target Compounds						Qvalue
3) Decalin	0.000		0	N.D.		
4) Naphthalene	7.772	128	7702	3.63	ng/ml	96
5) 2-Methylnaphthalene	8.460	142	1463	0.81	ng/ml	96
6) 1-Methylnaphthalene	8.559	142	2454	1.36	ng/ml	96
7) 1,1'-Biphenyl	8.921	154	726	N.D.		
8) 2,6-Dimethylnaphthalene	9.090	156	748	0.42	ng/ml	85
12) Acenaphthylene	9.364	152	7148	2.54	ng/ml	95
13) Acenaphthene	9.539	153	83439	45.35	ng/ml	99
14) Dibenzofuran	9.713	168	931	0.40	ng/ml	75
15) 1,6,7-Trimethylnaphtha...	9.923	170	1336	0.87	ng/ml#	12
16) Fluorene	10.063	166	30571	16.24	ng/ml	99
18) Dibenzothiopene	10.908	184	17607	7.28	ng/ml	98
19) Phenanthrene	11.036	178	13274	4.90	ng/ml	99
20) Anthracene	11.089	178	4399	1.75	ng/ml	94
21) Carbazole	11.258	167	1498	0.74	ng/ml	92
22) 1-Methylphenanthrene	11.660	192	2232	1.19	ng/ml	80
23) Fluoranthene	12.284	202	32691	11.98	ng/ml	95
25) Pyrene	12.558	202	45856	16.44	ng/ml	100
27) Benz(a)anthracene	14.644	228	7362	3.55	ng/ml	72
28) Chrysene	14.720	228	10707	5.46	ng/ml	95
30) Benzo(b)fluoranthene	17.221	252	8450	4.44	ng/ml	90
31) Benzo(k)fluoranthene	17.221	252	10390	5.55	ng/ml	89
32) Benzo(b+k)fluoranthene	17.221	252	11993	6.16	ng/ml	89
34) Benzo(e)pyrene	17.862	252	5724	2.98	ng/ml	99
35) Benzo(a)pyrene	17.984	252	7726	4.74	ng/ml	98
36) Perylene	18.182	252	4310	2.15	ng/ml	92
38) Indeno(1,2,3-cd)Pyrene	20.520	276	5987	3.69	ng/ml	84
39) Dibenz(a,h)anthracene	20.572	278	611	0.40	ng/ml	89
40) Benzo(g,h,i)perylene	21.056	276	6745	3.92	ng/ml	94

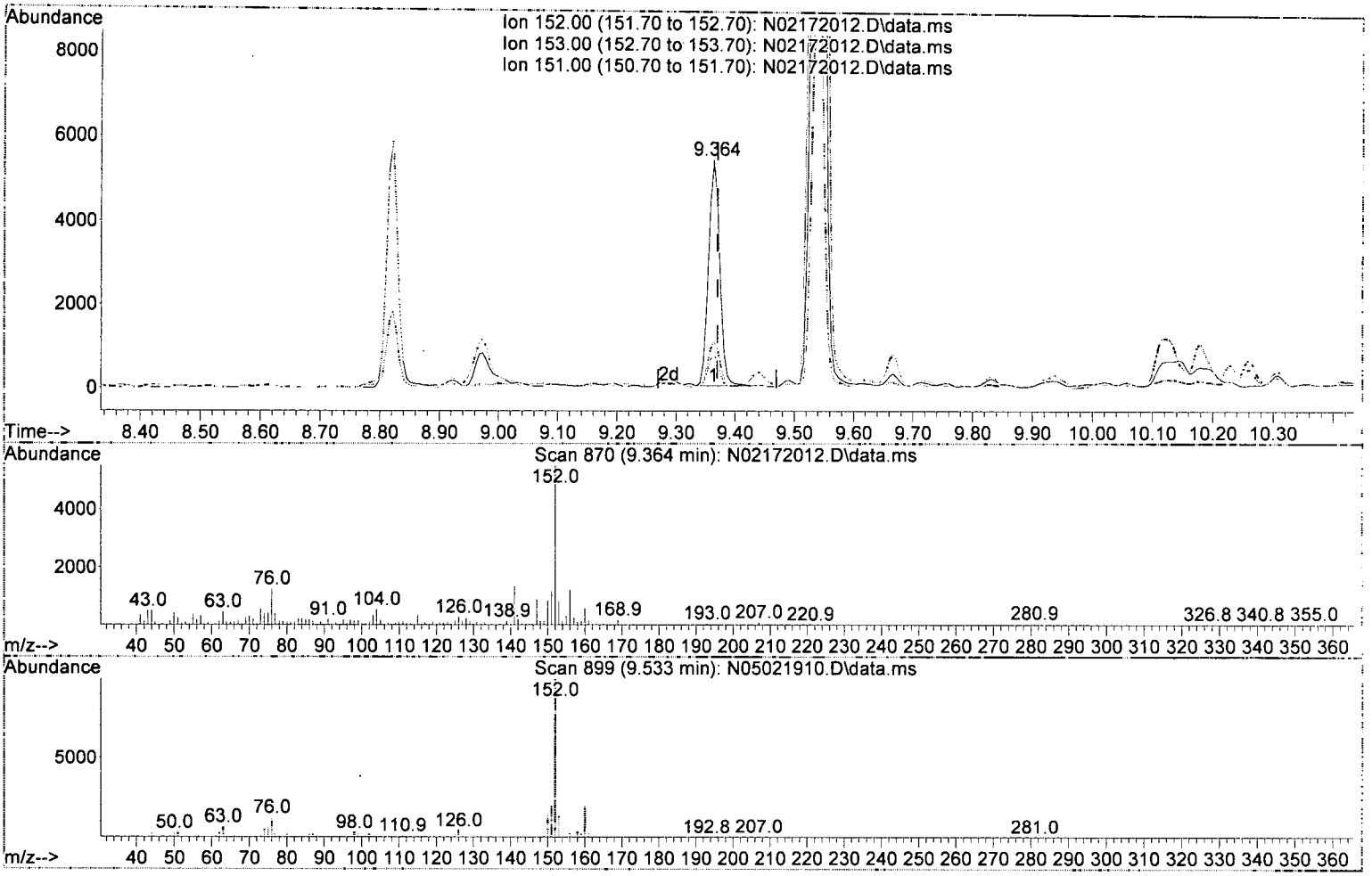
MI. ND

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B17042\
Data File : N02172012.D
Acq On : 17 Feb 2020 14:56
Operator : JK/ AMS/ DTH
Sample : 0020481-DUP1
Misc : 1x, 8270 PAH ONLY
ALS Vial : 7 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 17 15:19:45 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02172012.D\data.ms

(12) Acenaphthylene (T)

9.364min (-0.006) 2.54 ng/ml

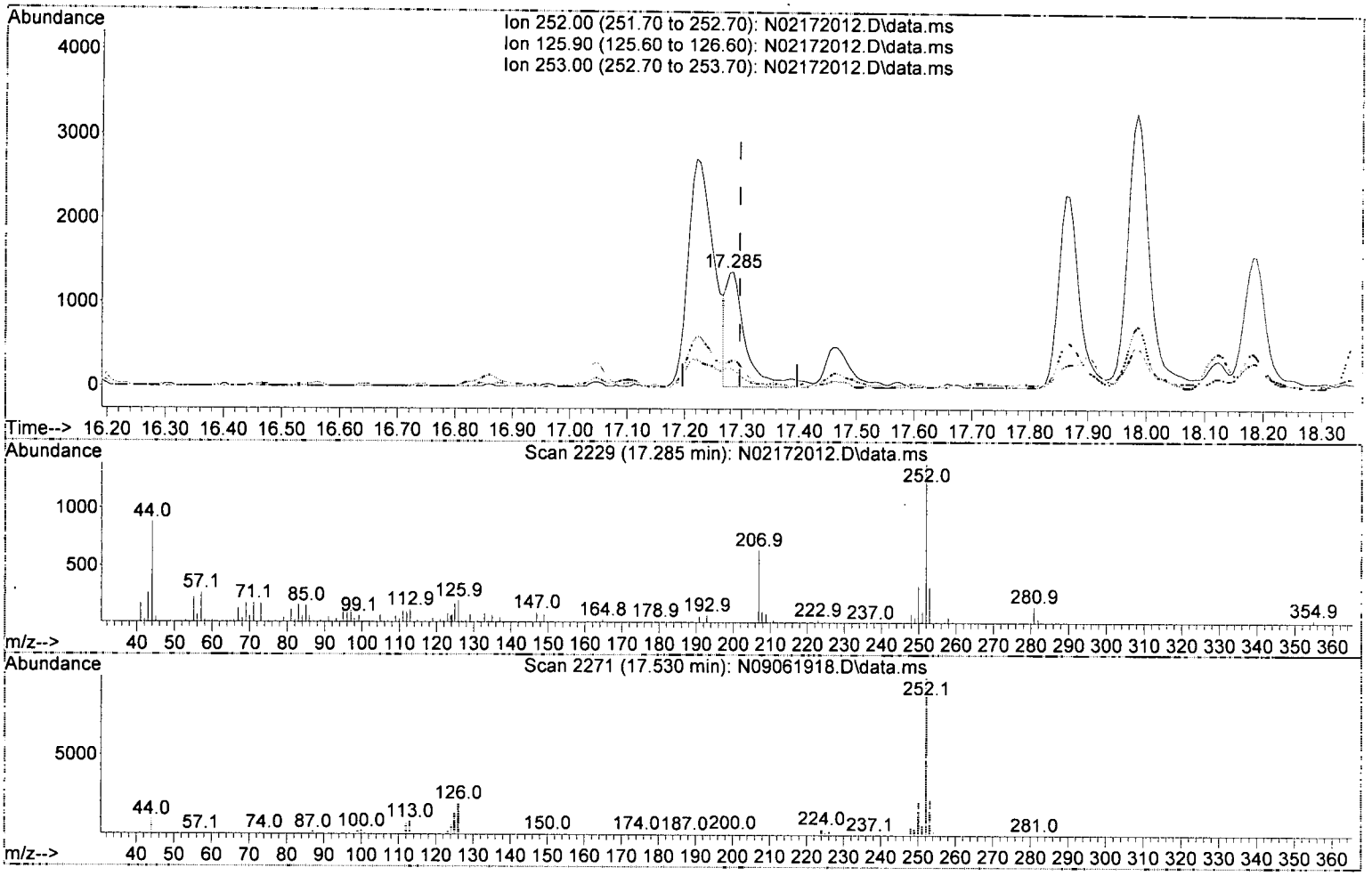
response 7148

Ion	Exp%	Act%
152.00	100.00	100.00
153.00	12.70	15.14
151.00	19.30	21.18
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B17042\
Data File : N02172012.D
Acq On : 17 Feb 2020 14:56
Operator : JK/ AMS/ DTH
Sample : 0020481-DUP1
Misc : 1x, 8270 PAH ONLY
ALS Vial : 7 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 17 15:19:45 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02172012.D\data.ms

(31) Benzo(k)fluoranthene (T)

17.285min (-0.012) 1.60 ng/ml m

response 2998

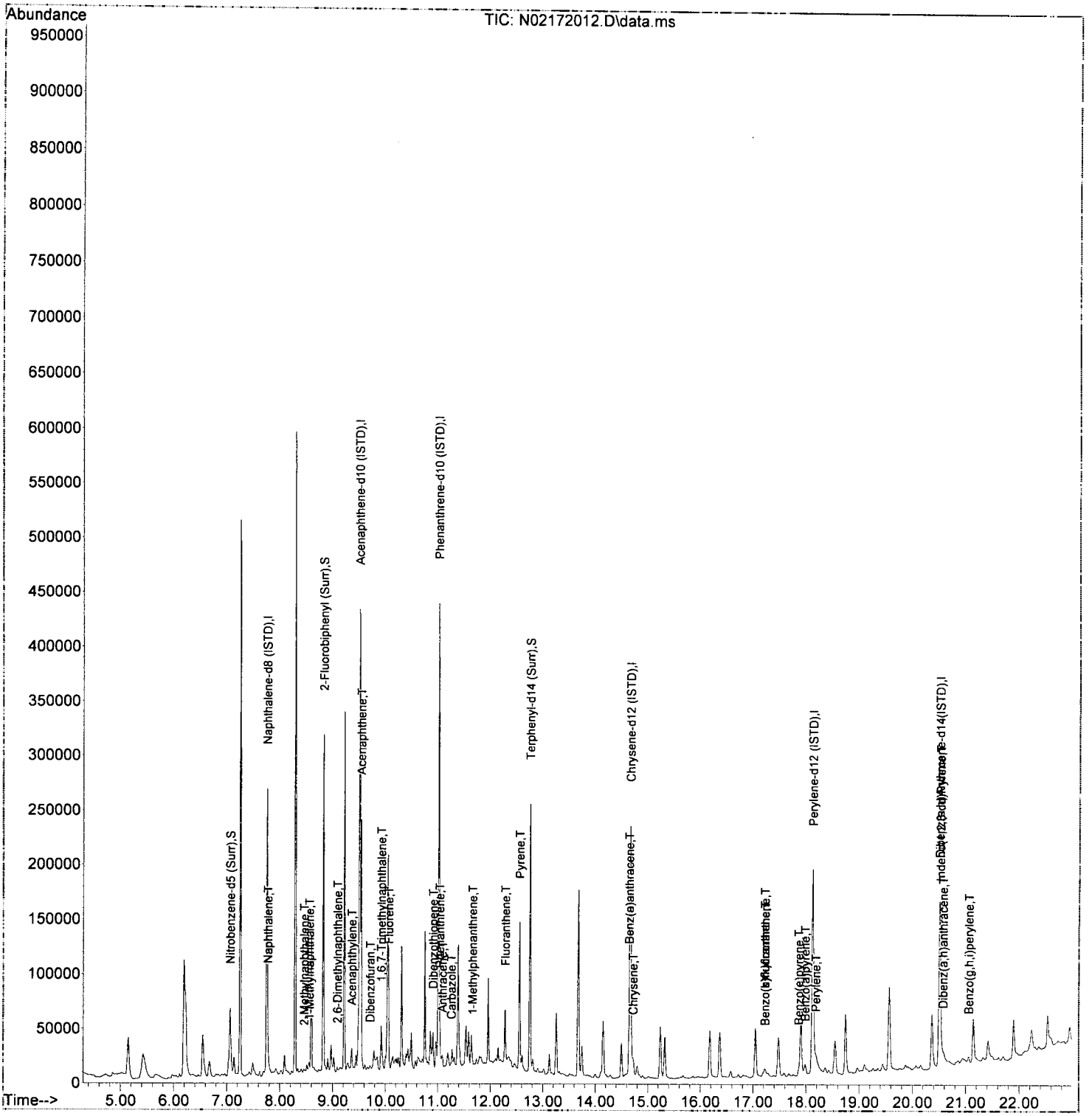
Ion	Exp%	Act%
252.00	100.00	100.00
125.90	22.10	14.57
253.00	21.50	23.26
0.00	0.00	0.00

AMS
2/17/20

No Name Entered Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-02\0B17042\
Data File : N02172012.D
Acq On : 17 Feb 2020 14:56
Operator : JK/ AMS/ DTH
Sample : 0020481-DUP1
Misc : 1x, 8270 PAH ONLY
ALS Vial : 7 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 17 15:19:45 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



No Name Entered Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-02\0B17042\
Data File : N02172013.D
Acq On : 17 Feb 2020 15:28
Operator : JK/ AMS/ DTH
Sample : A0B0411-04
Misc : 1x, 8270 PAH ONLY
ALS Vial : 8 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

AMS 2/17/20

Quant Time: Feb 17 15:52:09 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14

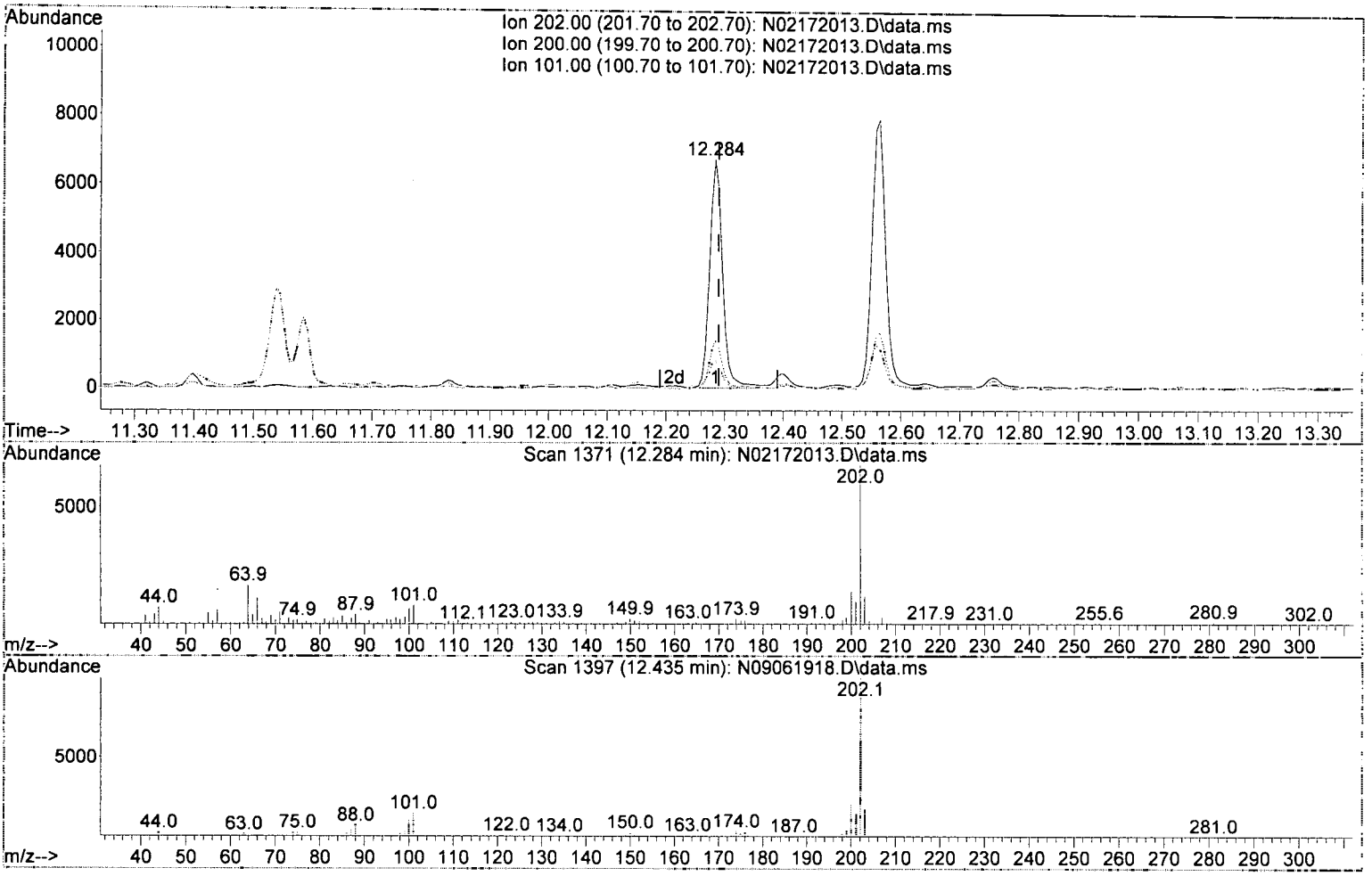
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.755	136	201930	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.509	162	134742	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.013	188	246812	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.668	240	204945	100.00	ng/ml	-0.02
29) Perylene-d12 (ISTD)	18.130	264	191183	100.00	ng/ml	-0.01
37) Dibenz(a,h)Anthrcene-d...	20.514	292	155085	100.00	ng/ml	-0.02
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.061	82	45853	68.34	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.822	172	154783	77.00	ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	9.352	160	2546	-1.00	ng/ml	0.00
26) Terphenyl-d14 (Surr)	12.756	244	167874	77.88	ng/ml	-0.01
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml	
Target Compounds						Qvalue
3) Decalin	0.000		0	N.D.		
4) Naphthalene	7.778	128	3489	1.57	ng/ml	91
5) 2-Methylnaphthalene	8.460	142	911	0.48	ng/ml	89
6) 1-Methylnaphthalene	8.559	142	959	0.51	ng/ml	96
7) 1,1'-Biphenyl	8.927	154	694	N.D.		
8) 2,6-Dimethylnaphthalene	9.090	156	839	0.45	ng/ml	94
12) Acenaphthylene	9.364	152	1142	N.D.		
13) Acenaphthene	9.539	153	3912	2.04	ng/ml	94
14) Dibenzofuran	9.719	168	404	N.D.		
15) 1,6,7-Trimethylnaphtha...	9.929	170	358	N.D.		
16) Fluorene	10.063	166	2086	1.06	ng/ml	98
18) Dibenzothiopene	10.908	184	1755	0.68	ng/ml	94
19) Phenanthrene	11.037	178	6379	2.21	ng/ml	98
20) Anthracene	11.089	178	1437	0.53	ng/ml	90
21) Carbazole	11.258	167	379	N.D.		
22) 1-Methylphenanthrene	11.666	192	536	N.D.		
23) Fluoranthene	12.284	202	10375	3.57	ng/ml	96
25) Pyrene	12.564	202	12734	3.98	ng/ml	100
27) Benz(a)anthracene	14.650	228	3014	1.27	ng/ml	76
28) Chrysene	14.726	228	3308	1.47	ng/ml	95
30) Benzo(b)fluoranthene	17.232	252	3193	1.45	ng/ml	90
31) Benzo(k)fluoranthene	17.232	252	3850	1.77	ng/ml	88
32) Benzo(b+k)fluoranthene	17.232	252	4280	1.90	ng/ml	88
34) Benzo(e)pyrene	17.868	252	2145	0.96	ng/ml	94
35) Benzo(a)pyrene	17.990	252	2305	1.22	ng/ml	92
36) Perylene	18.188	252	2448	1.05	ng/ml	99
38) Indeno(1,2,3-cd)Pyrene	20.520	276	2017	1.05	ng/ml	81
39) Dibenz(a,h)anthracene	20.578	278	308	N.D.		
40) Benzo(g,h,i)perylene	21.062	276	2361	1.16	ng/ml	79

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B17042\
Data File : N02172013.D
Acq On : 17 Feb 2020 15:28
Operator : JK/ AMS/ DTH
Sample : A0B0411-04
Misc : 1x, 8270 PAH ONLY
ALS Vial : 8 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 17 15:52:09 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02172013.D\data.ms

(23) Fluoranthene (T)

12.284min (-0.006) 3.57 ng/ml

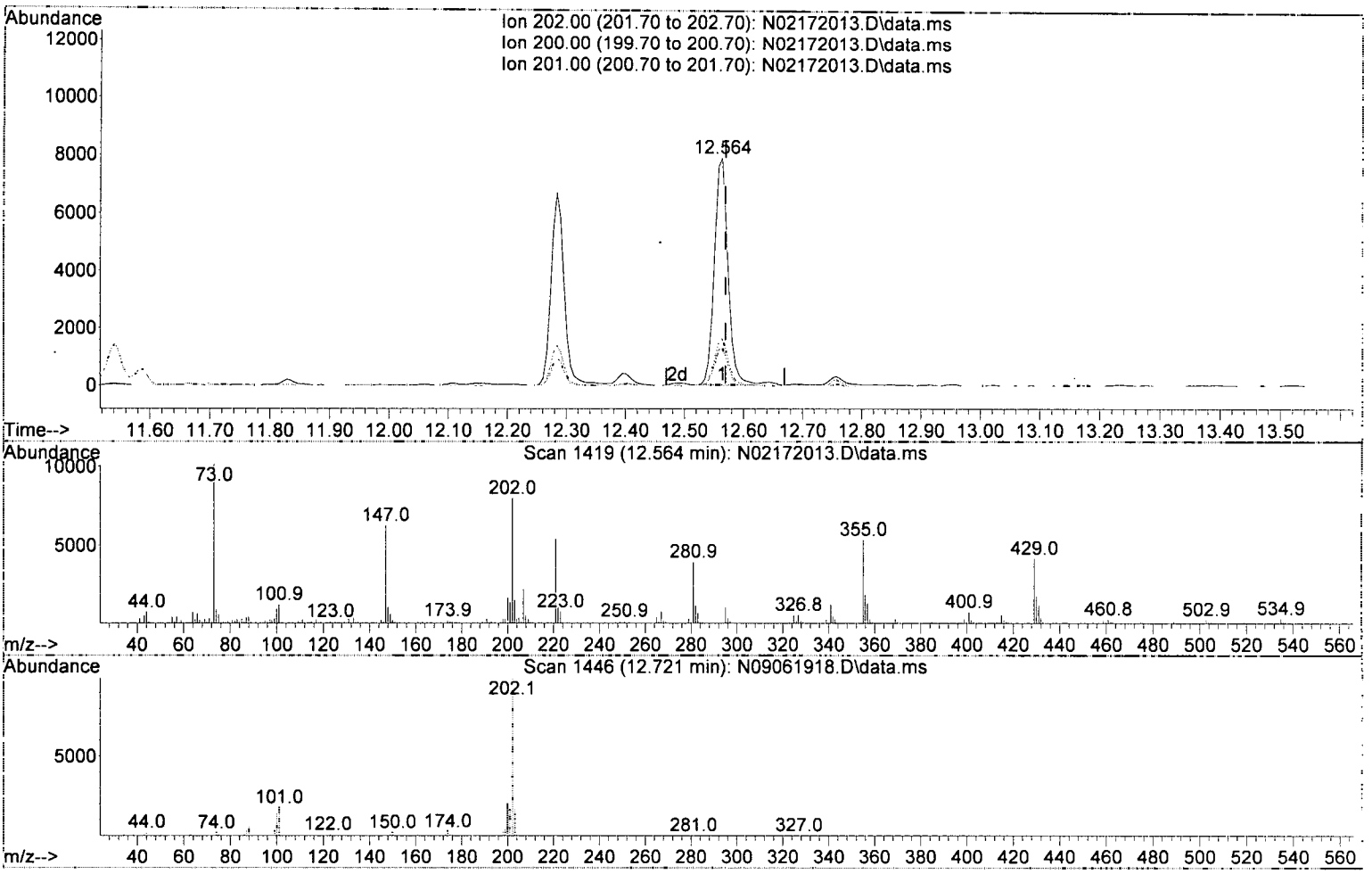
response 10375

Ion	Exp%	Act%
202.00	100.00	100.00
200.00	19.70	20.73
101.00	15.30	12.21
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B17042\
Data File : N02172013.D
Acq On : 17 Feb 2020 15:28
Operator : JK/ AMS/ DTH
Sample : A0B0411-04
Misc : 1x, 8270 PAH ONLY
ALS Vial : 8 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 17 15:52:09 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02172013.D\data.ms

(25) Pyrene (T)

12.564min (-0.006) 3.98 ng/ml

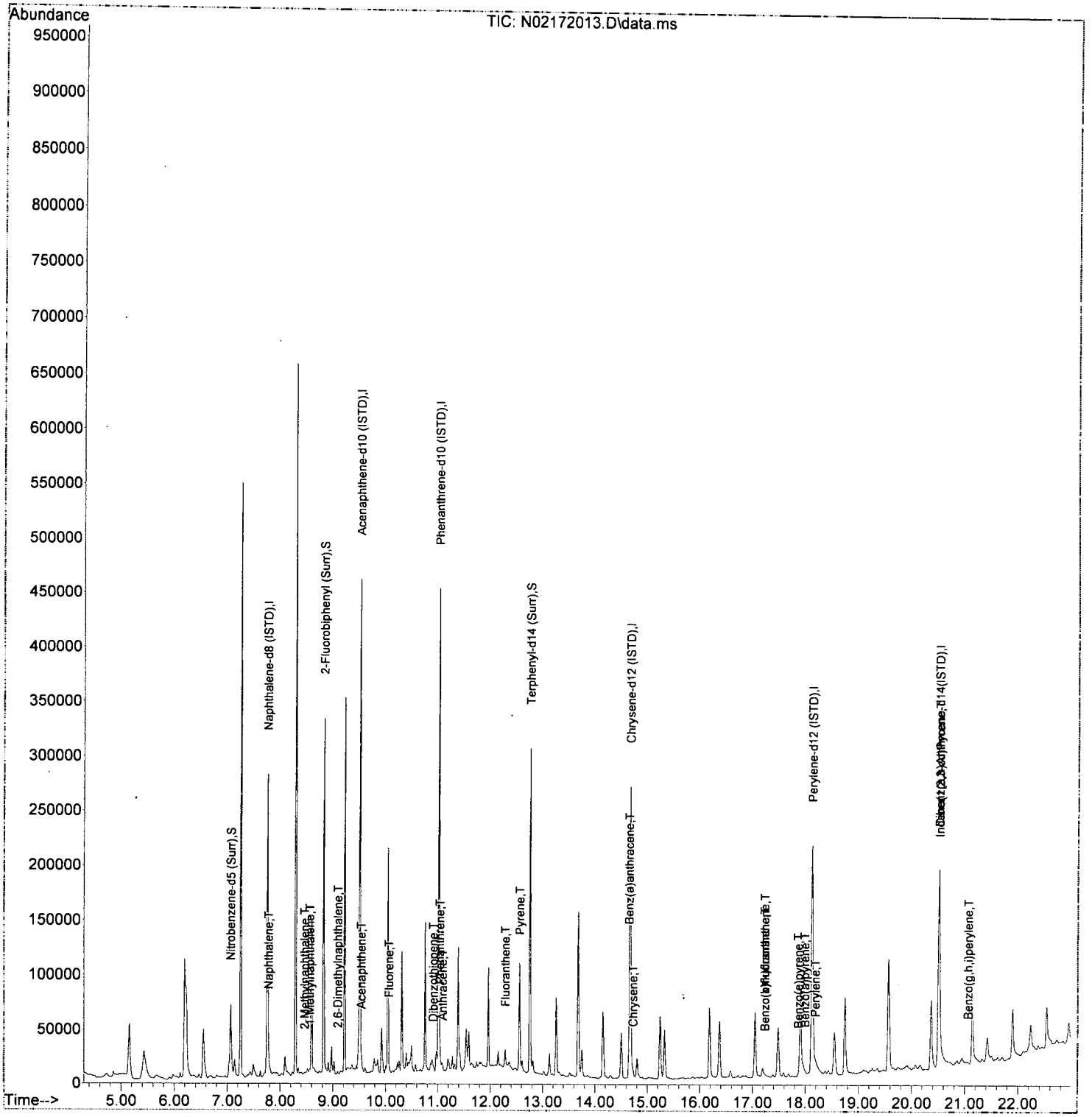
response 12734

Ion	Exp%	Act%
202.00	100.00	100.00
200.00	20.70	20.84
201.00	16.80	16.92
0.00	0.00	0.00

No Name Entered Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-02\0B17042\
Data File : N02172013.D
Acq On : 17 Feb 2020 15:28
Operator : JK/ AMS/ DTH
Sample : A0B0411-04
Misc : 1x, 8270 PAH ONLY
ALS Vial : 8 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 17 15:52:09 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



Data Path : U:\data\2020-02\0B17042\
Data File : N02172014.D
Acq On : 17 Feb 2020 16:00
Operator : JK/ AMS/ DTH
Sample : 0020481-MS1
Misc : 1x, 8270 PAH ONLY
ALS Vial : 9 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 17 16:41:56 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14

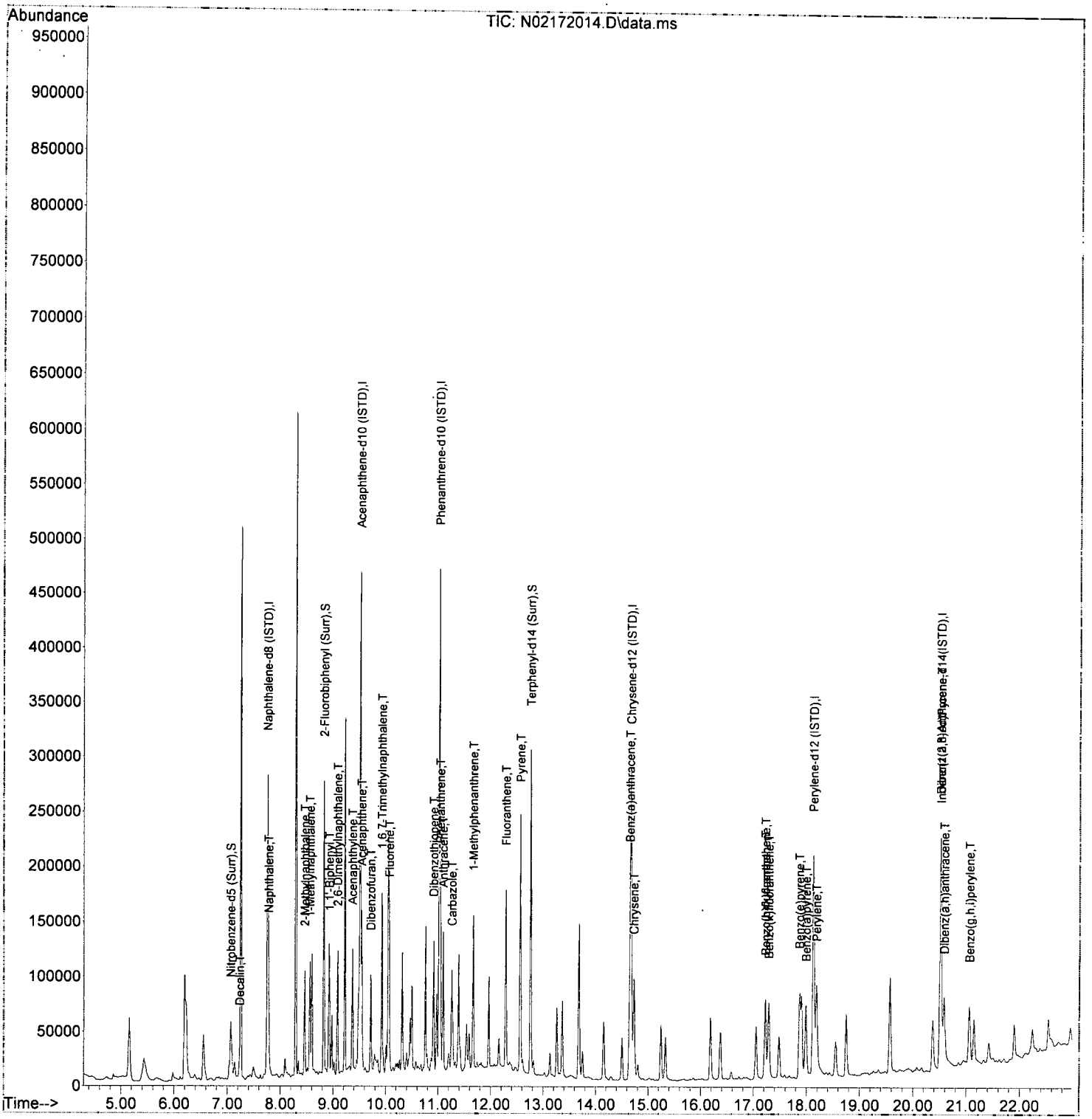
DTH 2/17/20

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.755	136	191785	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.509	162	134429	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.013	188	248177	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.668	240	200049	100.00	ng/ml	-0.02
29) Perylene-d12 (ISTD)	18.130	264	181792	100.00	ng/ml	-0.01
37) Dibenz(a,h)Anthrcene-d...	20.514	292	139063	100.00	ng/ml	-0.02
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.061	82	35500	55.70	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.821	172	125925	62.79	ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	9.352	160	2882	-1.00	ng/ml	0.00
26) Terphenyl-d14 (Surr)	12.756	244	170845	81.20	ng/ml	-0.01
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml	
Target Compounds						Qvalue
3) Decalin	7.230	138	1622	11.36	ng/ml	85
4) Naphthalene	7.778	128	61376	29.02	ng/ml	99
5) 2-Methylnaphthalene	8.460	142	43328	24.17	ng/ml	97
6) 1-Methylnaphthalene	8.559	142	43056	24.03	ng/ml	97
7) 1,1'-Biphenyl	8.926	154	52869	21.93	ng/ml	96
8) 2,6-Dimethylnaphthalene	9.084	156	39725	22.56	ng/ml	99
12) Acenaphthylene	9.364	152	72316	24.78	ng/ml	99
13) Acenaphthene	9.538	153	52468	27.45	ng/ml	99
14) Dibenzofuran	9.713	168	58183	24.30	ng/ml	97
15) 1,6,7-Trimethylnaphtha...	9.923	170	41194	25.70	ng/ml	95
16) Fluorene	10.063	166	51337	26.25	ng/ml	99
18) Dibenzothiopene	10.908	184	70360	27.11	ng/ml	96
19) Phenanthrene	11.036	178	83654	28.81	ng/ml	99
20) Anthracene	11.089	178	72671	26.90	ng/ml	99
21) Carbazole	11.258	167	61044	27.93	ng/ml	99
22) 1-Methylphenanthrene	11.666	192	60018	29.75	ng/ml	96
23) Fluoranthene	12.284	202	105323	36.00	ng/ml	96
25) Pyrene	12.563	202	111809	35.77	ng/ml	100
27) Benz(a)anthracene	14.650	228	72467	31.20	ng/ml	98
28) Chrysene	14.726	228	72496	32.98	ng/ml	99
30) Benzo(b)fluoranthene	17.221	252	68180	32.50	ng/ml	92
31) Benzo(k)fluoranthene	17.285	252	63342	30.67	ng/ml	93
32) Benzo(b+k)fluoranthene	17.221	252	138279	64.45	ng/ml	90
34) Benzo(e)pyrene	17.868	252	66940	31.56	ng/ml	98
35) Benzo(a)pyrene	17.990	252	57795	32.19	ng/ml	96
36) Perylene	18.188	252	70309	31.79	ng/ml	99
38) Indeno(1,2,3-cd)Pyrene	20.520	276	52870	30.83	ng/ml	79
39) Dibenz(a,h)anthracene	20.584	278	48004	29.79	ng/ml	83
40) Benzo(g,h,i)perylene	21.056	276	57000	31.33	ng/ml	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : U:\data\2020-02\0B17042\
Data File : N02172014.D
Acq On : 17 Feb 2020 16:00
Operator : JK/ AMS/ DTH
Sample : 0020481-MS1
Misc : 1x, 8270 PAH ONLY
ALS Vial : 9 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 17 16:41:56 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



No Name Entered Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-02\0B17042\
Data File : N02172015.D
Acq On : 17 Feb 2020 16:32
Operator : JK/ AMS/ DTH
Sample : 0020481-MSD1
Misc : 1x, 8270 PAH ONLY
ALS Vial : 10 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 17 17:33:19 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14

DHH 2/17/20

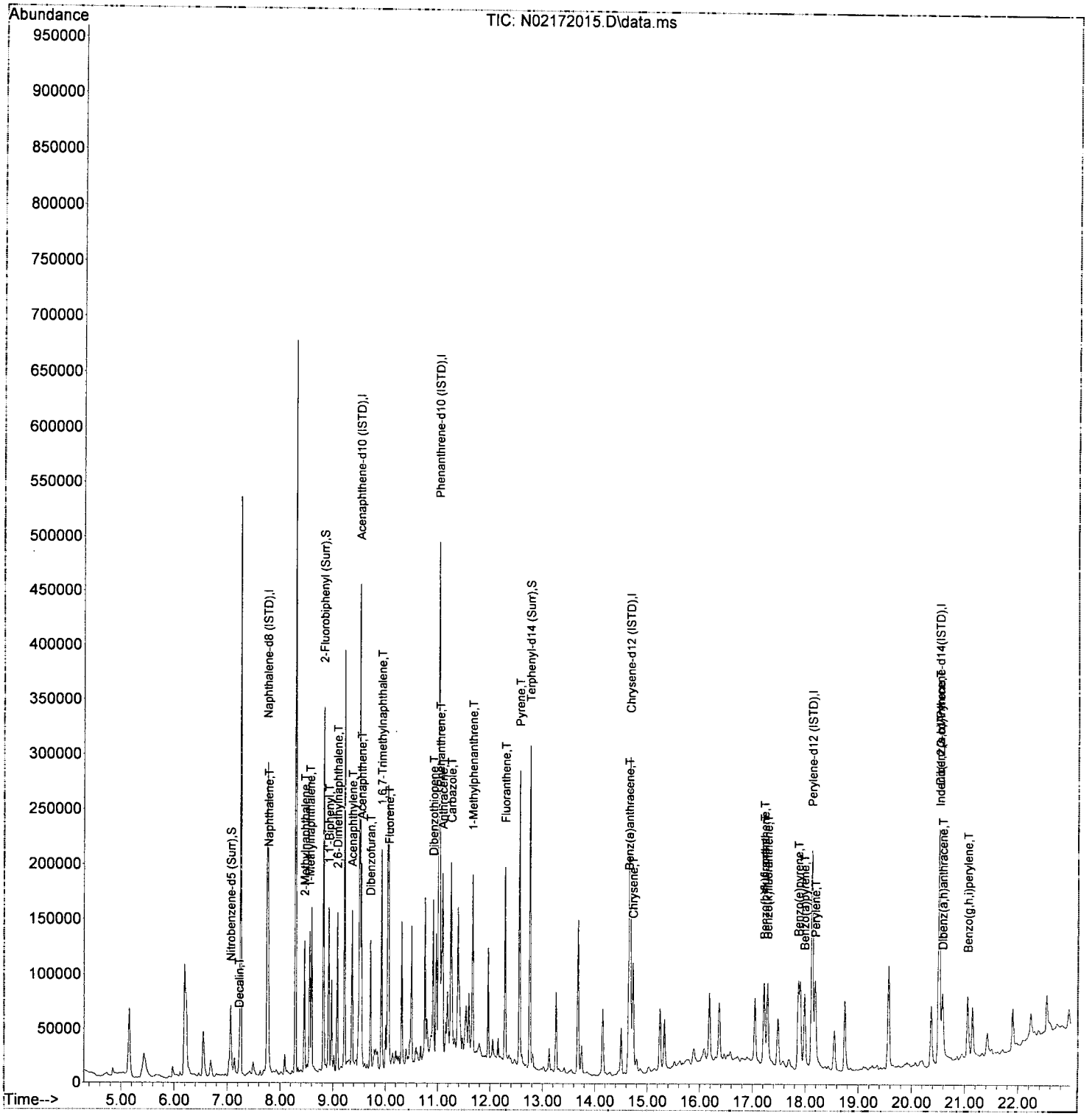
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.755	136	195796	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.509	162	136354	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.013	188	247545	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.668	240	198598	100.00	ng/ml	-0.02
29) Perylene-d12 (ISTD)	18.124	264	183057	100.00	ng/ml	-0.02
37) Dibenz(a,h)Anthrcene-d...	20.514	292	138277	100.00	ng/ml	-0.02
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.061	82	43076	66.21	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.822	172	155290	76.34	ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	9.352	160	2396	-1.00	ng/ml	0.00
26) Terphenyl-d14 (Surr)	12.756	244	167493	80.19	ng/ml	-0.01
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml	
Target Compounds						Qvalue
3) Decalin	7.225	138	2117	14.52	ng/ml	85
4) Naphthalene	7.772	128	87456	40.50	ng/ml	99
5) 2-Methylnaphthalene	8.460	142	54817	29.96	ng/ml	98
6) 1-Methylnaphthalene	8.559	142	55635	30.41	ng/ml	97
7) 1,1'-Biphenyl	8.921	154	68109	27.67	ng/ml	97
8) 2,6-Dimethylnaphthalene	9.084	156	51600	28.71	ng/ml	98
12) Acenaphthylene	9.364	152	91202	30.81	ng/ml	99
13) Acenaphthene	9.539	153	66124	34.10	ng/ml	99
14) Dibenzofuran	9.713	168	73083	30.09	ng/ml	97
15) 1,6,7-Trimethylnaphtha...	9.923	170	51160	31.46	ng/ml	98
16) Fluorene	10.063	166	65054	32.79	ng/ml	100
18) Dibenzothiopene	10.908	184	82534	31.88	ng/ml	96
19) Phenanthrene	11.037	178	104993	36.25	ng/ml	99
20) Anthracene	11.089	178	85094	31.58	ng/ml	99
21) Carbazole	11.252	167	63609	29.18	ng/ml	99
22) 1-Methylphenanthrene	11.660	192	67704	33.65	ng/ml	96
23) Fluoranthene	12.284	202	116799	40.02	ng/ml	96
25) Pyrene	12.558	202	124910	40.26	ng/ml	99
27) Benz(a)anthracene	14.644	228	73982	32.09	ng/ml	97
28) Chrysene	14.726	228	74893	34.32	ng/ml	100
30) Benzo(b)fluoranthene	17.221	252	70420	33.34	ng/ml	92
31) Benzo(k)fluoranthene	17.285	252	66524	31.99	ng/ml	92
32) Benzo(b+k)fluoranthene	17.221	252	144004	66.65	ng/ml	91
34) Benzo(e)pyrene	17.868	252	71307	33.39	ng/ml	98
35) Benzo(a)pyrene	17.984	252	60912	33.69	ng/ml	97
36) Perylene	18.188	252	71662	32.18	ng/ml	99
38) Indeno(1,2,3-cd)Pyrene	20.520	276	55218	32.38	ng/ml	81
39) Dibenz(a,h)anthracene	20.578	278	48396	30.20	ng/ml	84
40) Benzo(g,h,i)perylene	21.050	276	59502	32.89	ng/ml	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

No Name Entered Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-02\0B17042\
Data File : N02172015.D
Acq On : 17 Feb 2020 16:32
Operator : JK/ AMS/ DTH
Sample : 0020481-MSD1
Misc : 1x, 8270 PAH ONLY
ALS Vial : 10 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 17 17:33:19 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



No Name Entered Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-02\0B17042\
Data File : N02172016.D
Acq On : 17 Feb 2020 17:05
Operator : JK/ AMS/ DTH
Sample : A0B0411-01
Misc : 1x, 8270 PAH ONLY
ALS Vial : 11 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 17 17:33:30 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14

DTH 2/17/20 MOS

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.755	136	200676	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.509	162	139395	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.013	188	265530	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.668	240	235527	100.00	ng/ml	-0.02
29) Perylene-d12 (ISTD)	18.130	264	221783	100.00	ng/ml	-0.01
37) Dibenz(a,h)Anthrcene-d...	20.514	292	181307	100.00	ng/ml	-0.02
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.061	82	46716	70.06	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.822	172	167855	80.72	ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	9.352	160	2110	-1.00	ng/ml	0.00
26) Terphenyl-d14 (Surr)	12.756	244	200785	81.06	ng/ml	-0.01
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml	
Target Compounds						Qvalue
3) Decalin	0.000		0	N.D.		
4) Naphthalene	7.773	128	21700	9.80	ng/ml	98
5) 2-Methylnaphthalene	8.460	142	5182	2.76	ng/ml	96
6) 1-Methylnaphthalene	8.559	142	5573	2.97	ng/ml	99
7) 1,1'-Biphenyl	8.921	154	1706	0.68	ng/ml	99
8) 2,6-Dimethylnaphthalene	9.090	156	1785	0.97	ng/ml	95
12) Acenaphthylene	9.364	152	19213	6.35	ng/ml	95
13) Acenaphthene	9.539	153	129954	65.56	ng/ml	100
14) Dibenzofuran	9.713	168	2126	0.86	ng/ml	84
15) 1,6,7-Trimethylnaphtha...	9.923	170	3608	2.17	ng/ml#	53
16) Fluorene	10.063	166	71647	35.32	ng/ml	99
18) Dibenzothiopene	10.908	184	55264	19.90	ng/ml	97
19) Phenanthrene	11.037	178	34172	11.00	ng/ml	98
20) Anthracene	11.089	178	23670	8.19	ng/ml	97
21) Carbazole	11.258	167	5148	2.20	ng/ml	91
22) 1-Methylphenanthrene	11.660	192	11777	5.46	ng/ml	77
23) Fluoranthene	12.290	202	280460	89.59	ng/ml	96
25) Pyrene	12.564	202	492930	133.96	ng/ml	99
27) Benz(a)anthracene	14.644	228	61433	22.47	ng/ml	79
28) Chrysene	14.726	228	91746	35.45	ng/ml	98
30) Benzo(b)fluoranthene	17.227	252	64089	25.04	ng/ml	93
31) Benzo(k)fluoranthene	~~17.227~~	~~252~~	~~79329~~	~~31.48~~	~~ng/ml~~	~~91~~
32) Benzo(b+k)fluoranthene	17.227	252	88939	33.98	ng/ml	91
34) Benzo(e)pyrene	17.868	252	40899	15.81	ng/ml	97
35) Benzo(a)pyrene	17.990	252	61481	28.07	ng/ml	97
36) Perylene	18.188	252	21827	8.09	ng/ml	99
38) Indeno(1,2,3-cd)Pyrene	20.520	276	41784	18.69	ng/ml	80
39) Dibenz(a,h)anthracene	20.578	278	4624	2.20	ng/ml	89
40) Benzo(g,h,i)perylene	21.056	276	51080	21.53	ng/ml	97

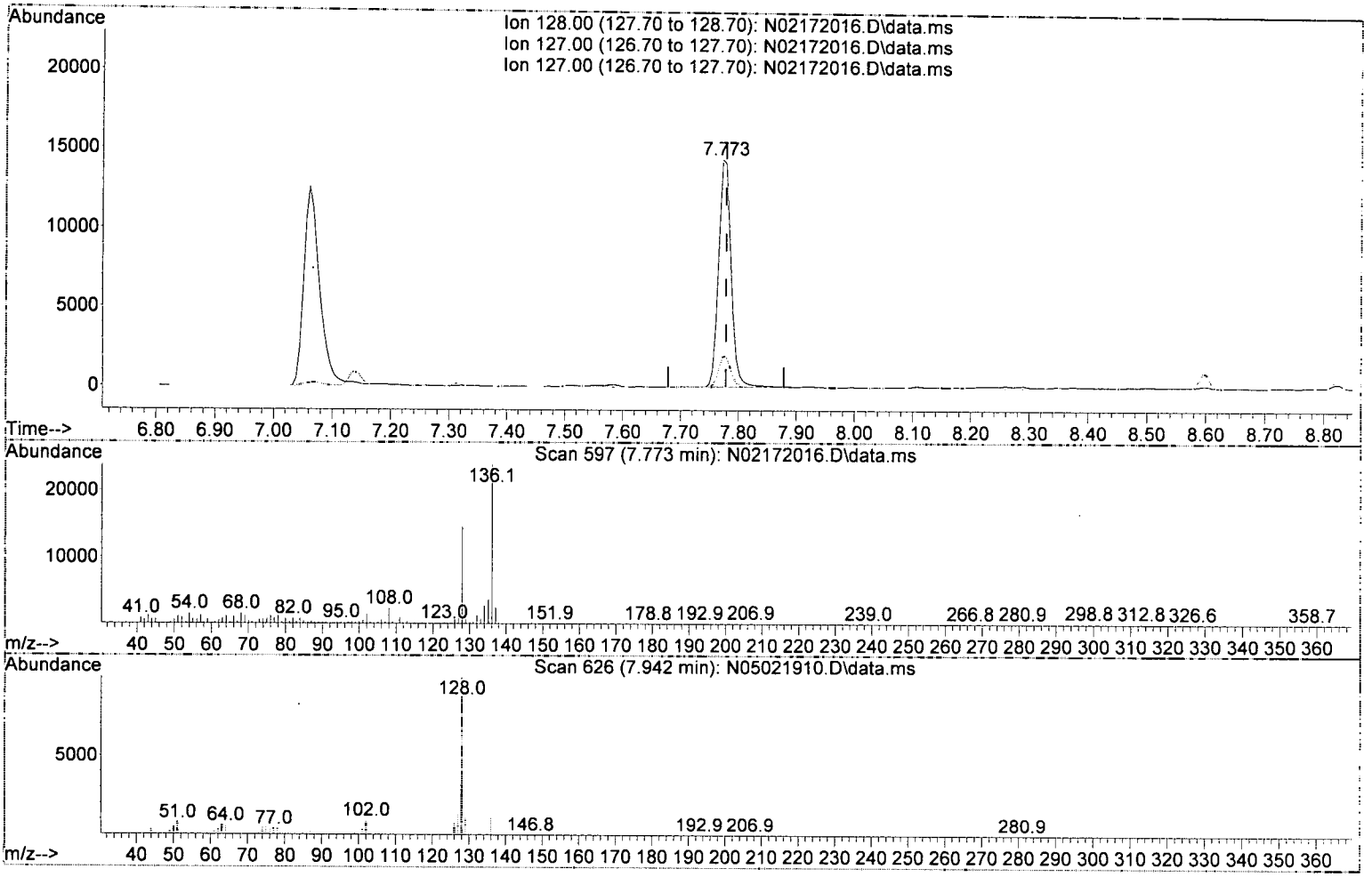
mI H.t MOS

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B17042\
Data File : N02172016.D
Acq On : 17 Feb 2020 17:05
Operator : JK/ AMS/ DTH
Sample : A0B0411-01
Misc : 1x, 8270 PAH ONLY
ALS Vial : 11 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 17 17:33:30 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02172016.D\data.ms

(4) Naphthalene (T)

7.773min (-0.006) 9.80 ng/ml

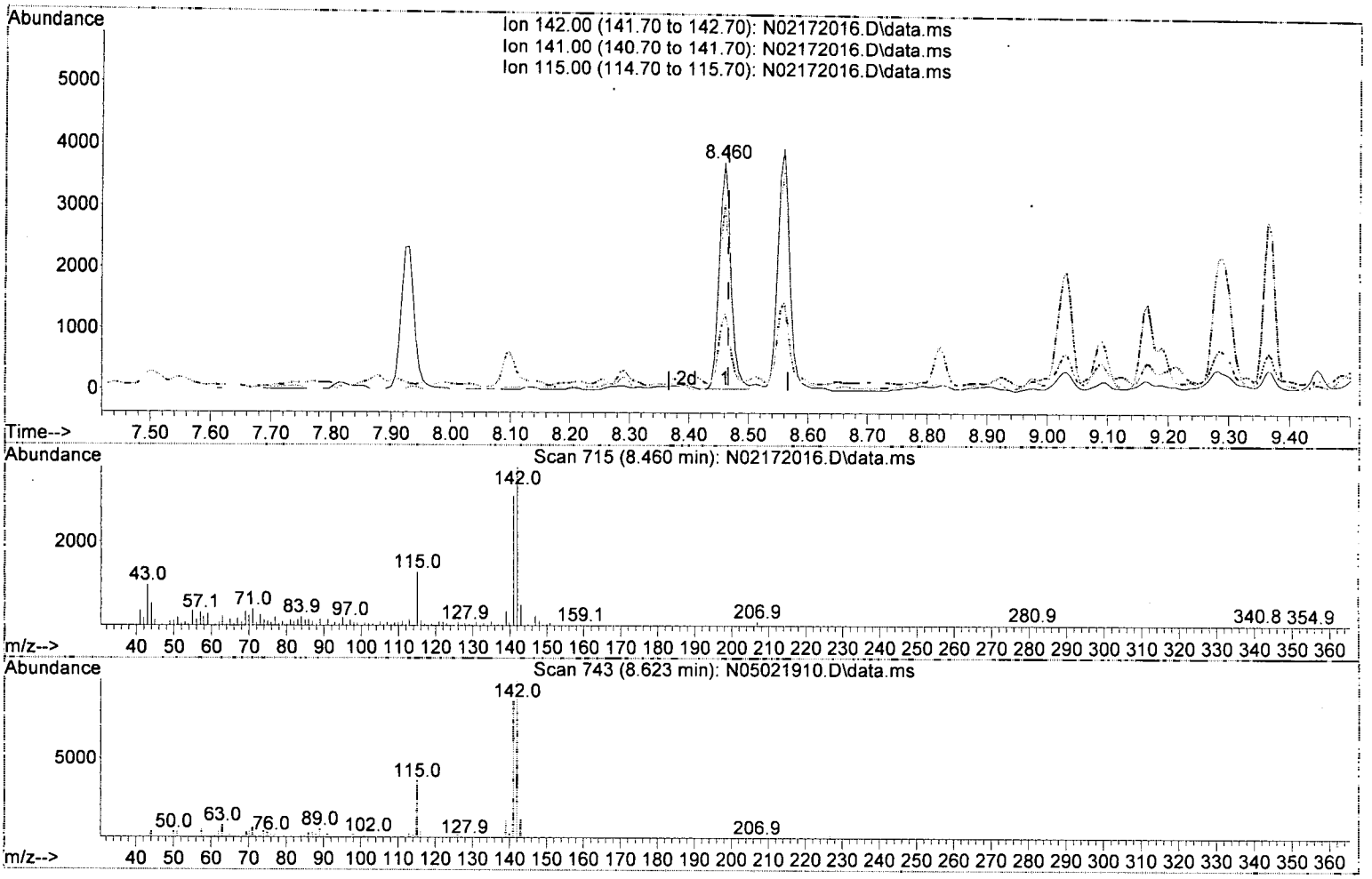
response 21700

Ion	Exp%	Act%
128.00	100.00	100.00
127.00	12.60	13.54
127.00	12.60	13.54
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B17042\
Data File : N02172016.D
Acq On : 17 Feb 2020 17:05
Operator : JK/ AMS/ DTH
Sample : A0B0411-01
Misc : 1x, 8270 PAH ONLY
ALS Vial : 11 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 17 17:33:30 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02172016.D\data.ms

(5) 2-Methylnaphthalene (T)

8.460min (-0.006) 2.76 ng/ml J

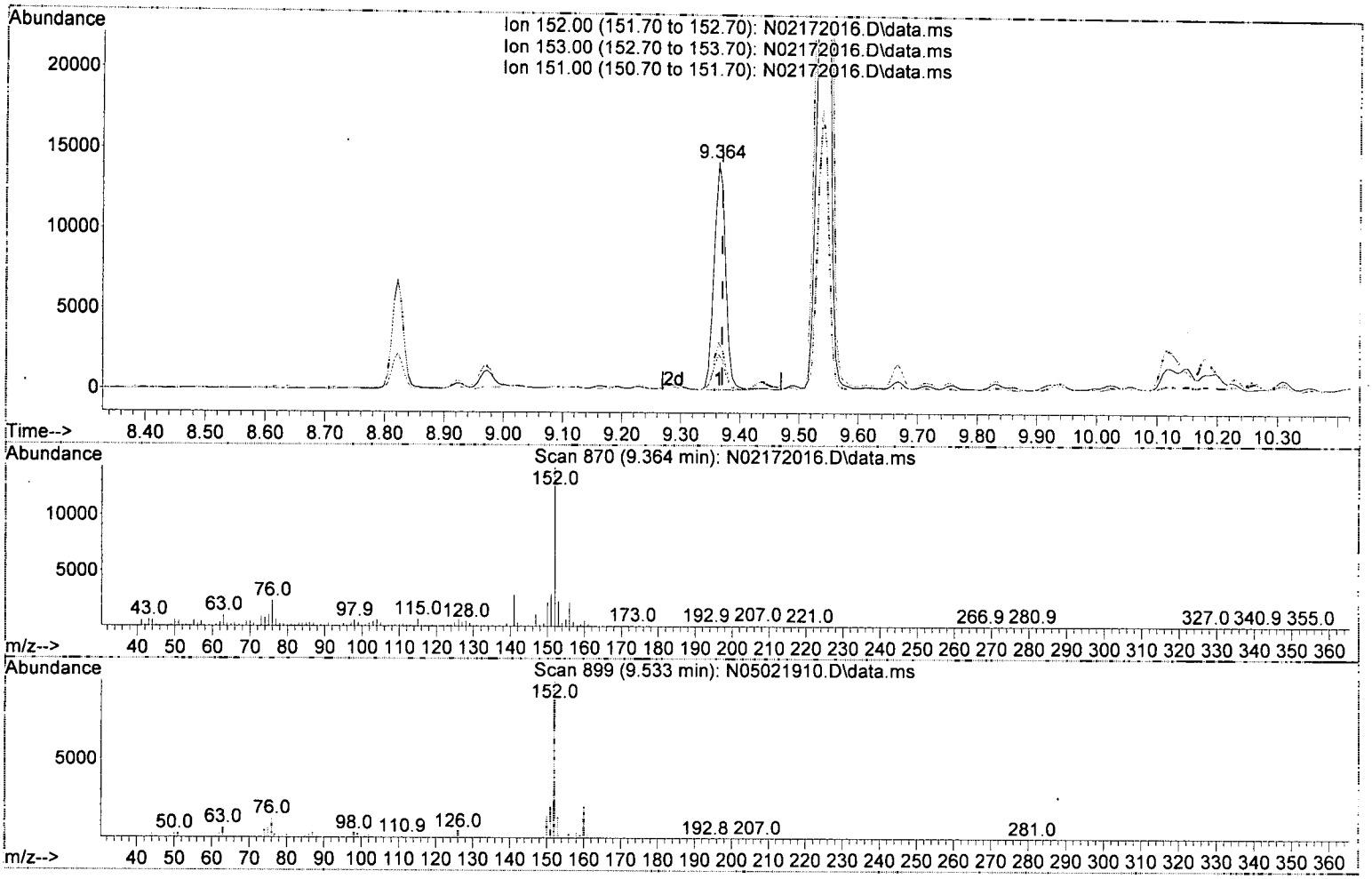
response 5182

Ion	Exp%	Act%
142.00	100.00	100.00
141.00	86.60	82.06
115.00	35.70	34.14
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B17042\
Data File : N02172016.D
Acq On : 17 Feb 2020 17:05
Operator : JK/ AMS/ DTH
Sample : A0B0411-01
Misc : 1x, 8270 PAH ONLY
ALS Vial : 11 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 17 17:33:30 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02172016.D\data.ms

(12) Acenaphthylene (T)

9.364min (-0.006) 6.35 ng/ml

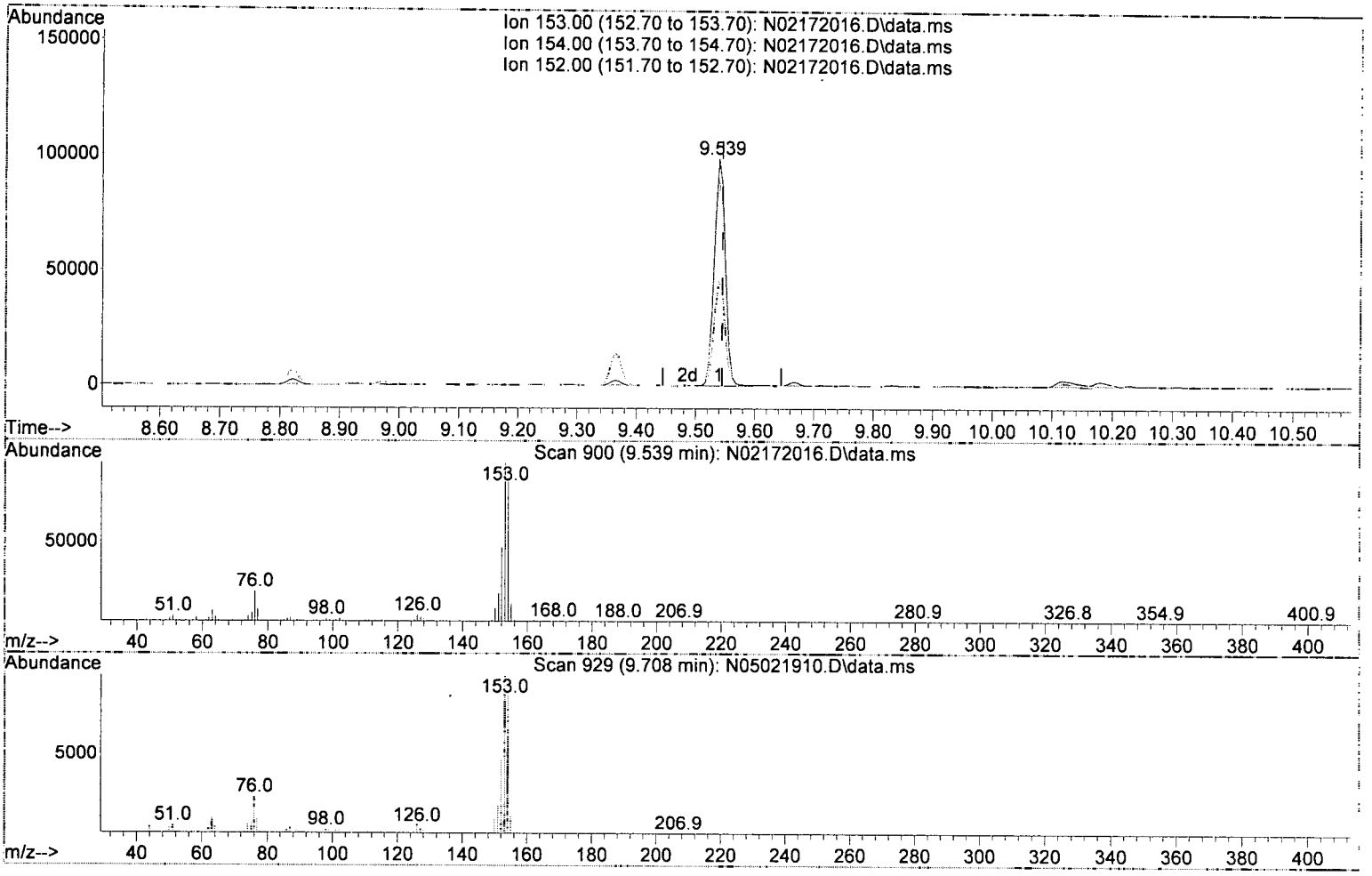
response 19213

Ion	Exp%	Act%
152.00	100.00	100.00
153.00	12.70	15.57
151.00	19.30	20.54
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B17042\
Data File : N02172016.D
Acq On : 17 Feb 2020 17:05
Operator : JK/ AMS/ DTH
Sample : A0B0411-01
Misc : 1x, 8270 PAH ONLY
ALS Vial : 11 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 17 17:33:30 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02172016.D\data.ms

(13) Acenaphthene (T)

9.539min (-0.006) 65.56 ng/ml

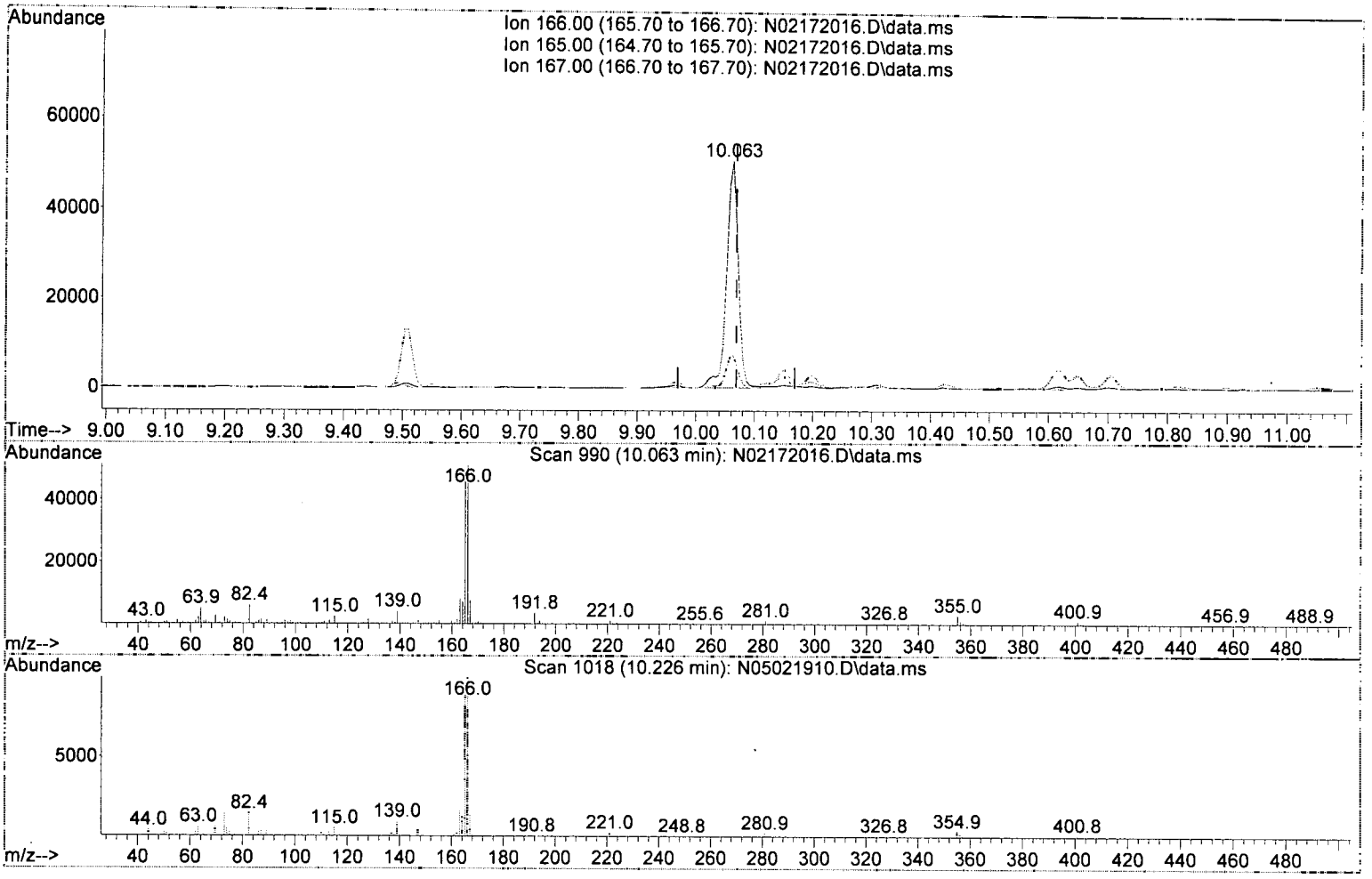
response 129954

Ion	Exp%	Act%
153.00	100.00	100.00
154.00	90.70	90.55
152.00	46.80	46.58
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B17042\
Data File : N02172016.D
Acq On : 17 Feb 2020 17:05
Operator : JK/ AMS/ DTH
Sample : A0B0411-01
Misc : 1x, 8270 PAH ONLY
ALS Vial : 11 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 17 17:33:30 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02172016.D\data.ms

(16) Fluorene (T)

10.063min (-0.006) 35.32 ng/ml

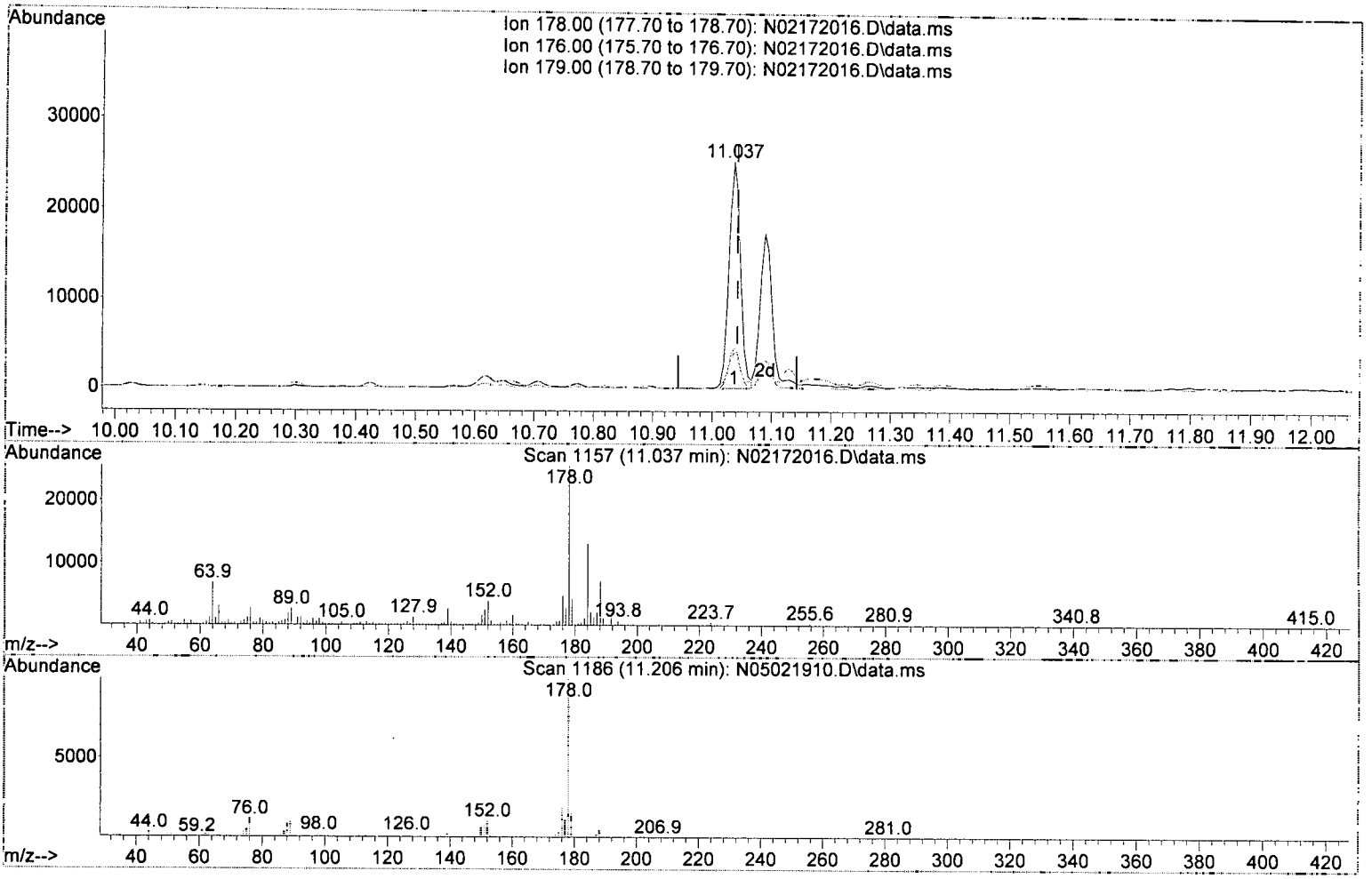
response 71647

Ion	Exp%	Act%
166.00	100.00	100.00
165.00	95.70	95.41
167.00	13.60	14.59
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B17042\
Data File : N02172016.D
Acq On : 17 Feb 2020 17:05
Operator : JK/ AMS/ DTH
Sample : A0B0411-01
Misc : 1x, 8270 PAH ONLY
ALS Vial : 11 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 17 17:33:30 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02172016.D\data.ms

(19) Phenanthrene (T)

11.037min (-0.006) 11.00 ng/ml

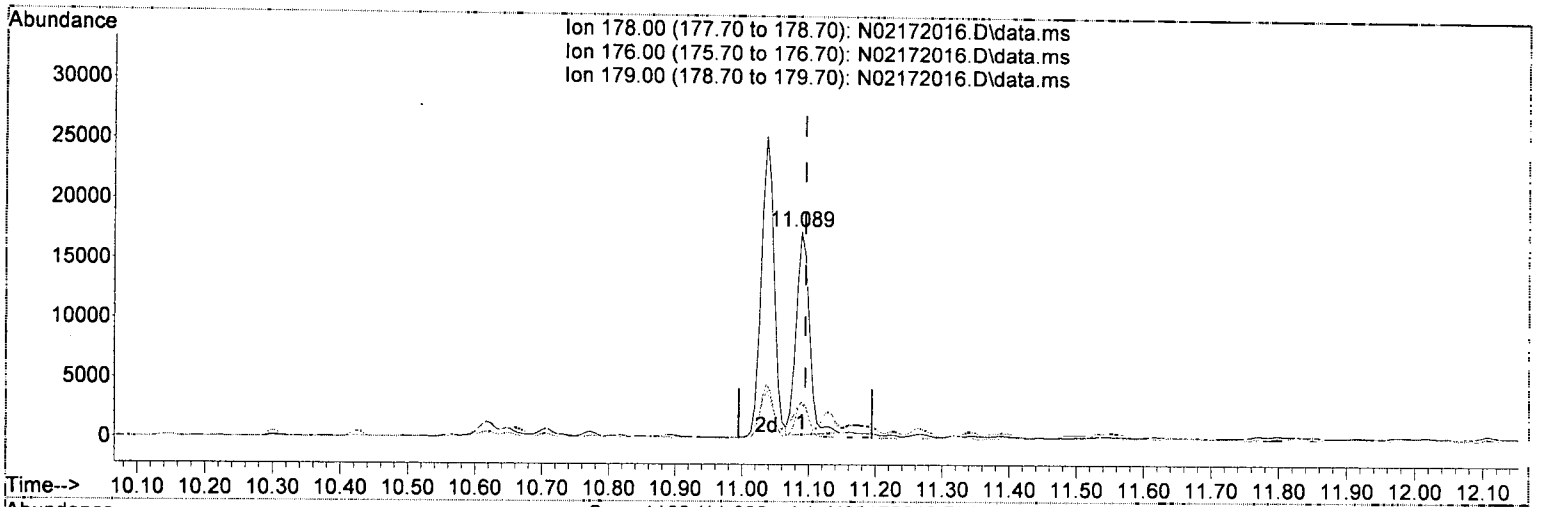
response 34172

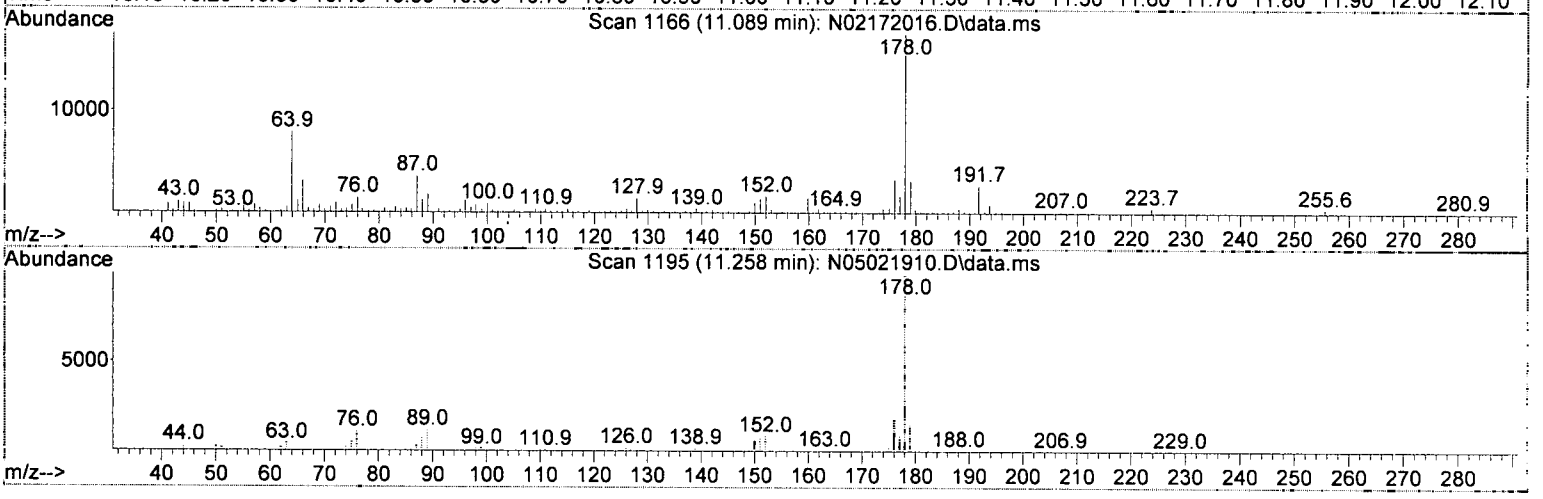
Ion	Exp%	Act%
178.00	100.00	100.00
176.00	19.00	18.40
179.00	15.10	16.10
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B17042\
Data File : N02172016.D
Acq On : 17 Feb 2020 17:05
Operator : JK/ AMS/ DTH
Sample : A0B0411-01
Misc : 1x, 8270 PAH ONLY
ALS Vial : 11 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 17 17:33:30 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14





TIC: N02172016.D\data.ms

(20) Anthracene (T)

11.089min (-0.006) 8.19 ng/ml

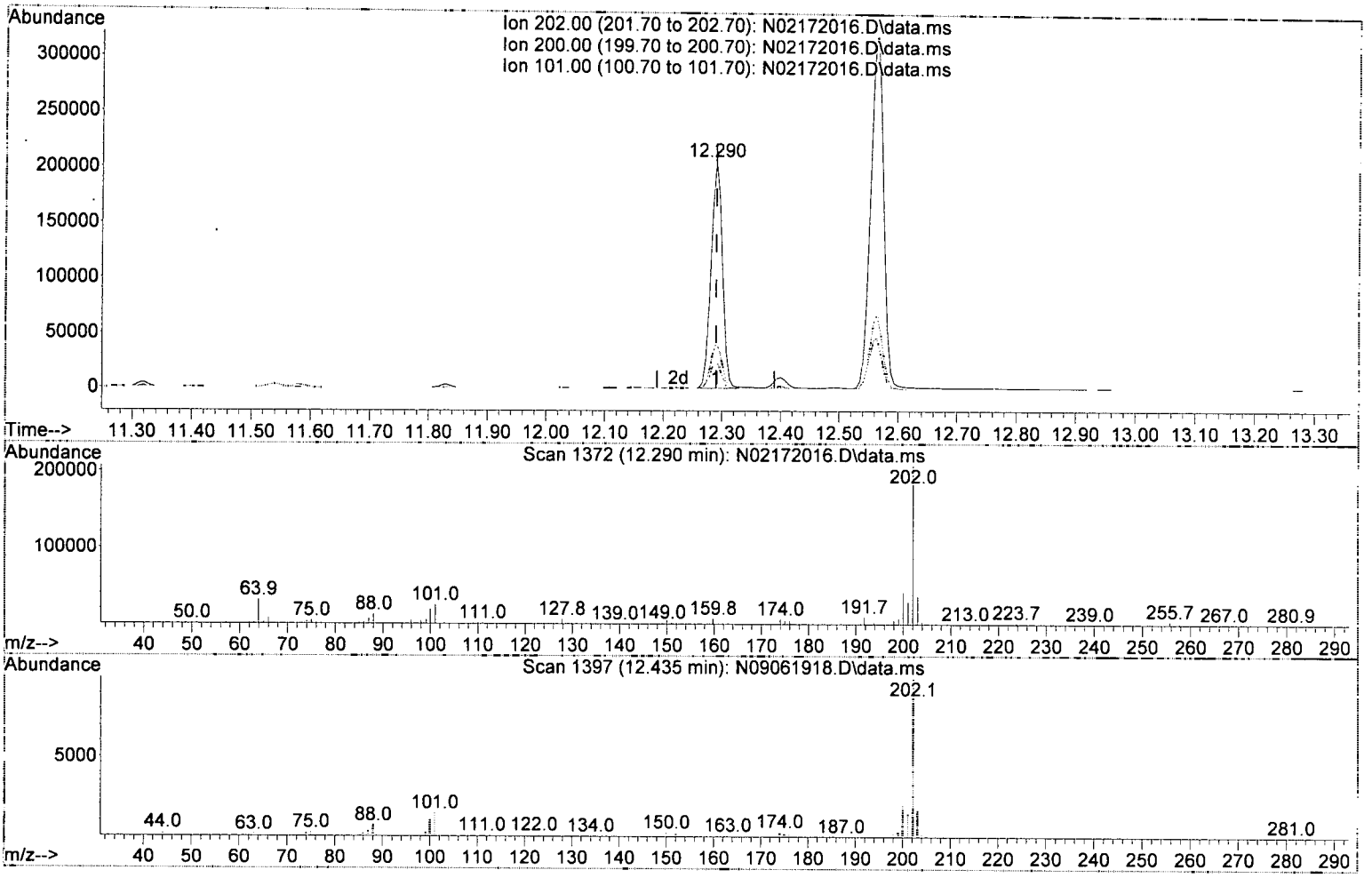
response 23670

Ion	Exp%	Act%
178.00	100.00	100.00
176.00	18.90	18.75
179.00	15.30	17.98
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B17042\
Data File : N02172016.D
Acq On : 17 Feb 2020 17:05
Operator : JK/ AMS/ DTH
Sample : A0B0411-01
Misc : 1x, 8270 PAH ONLY
ALS Vial : 11 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 17 17:33:30 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02172016.D\data.ms

(23) Fluoranthene (T)

12.290min (+ 0.000) 89.59 ng/ml

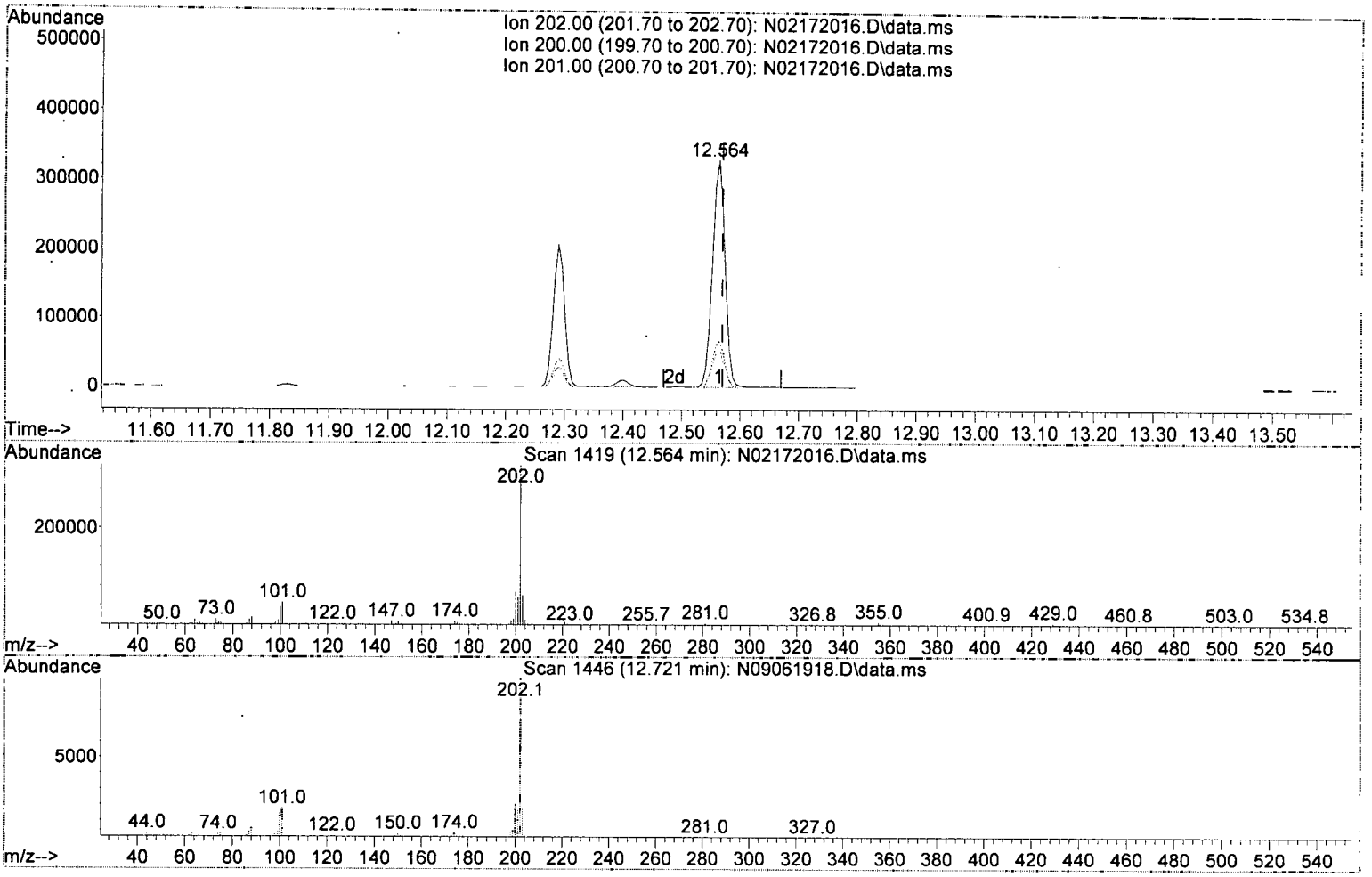
response 280460

Ion	Exp%	Act%
202.00	100.00	100.00
200.00	19.70	20.23
101.00	15.30	11.98
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B17042\
Data File : N02172016.D
Acq On : 17 Feb 2020 17:05
Operator : JK/ AMS/ DTH
Sample : A0B0411-01
Misc : 1x, 8270 PAH ONLY
ALS Vial : 11 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 17 17:33:30 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02172016.D\data.ms

(25) Pyrene (T)

12.564min (-0.006) 133.96 ng/ml

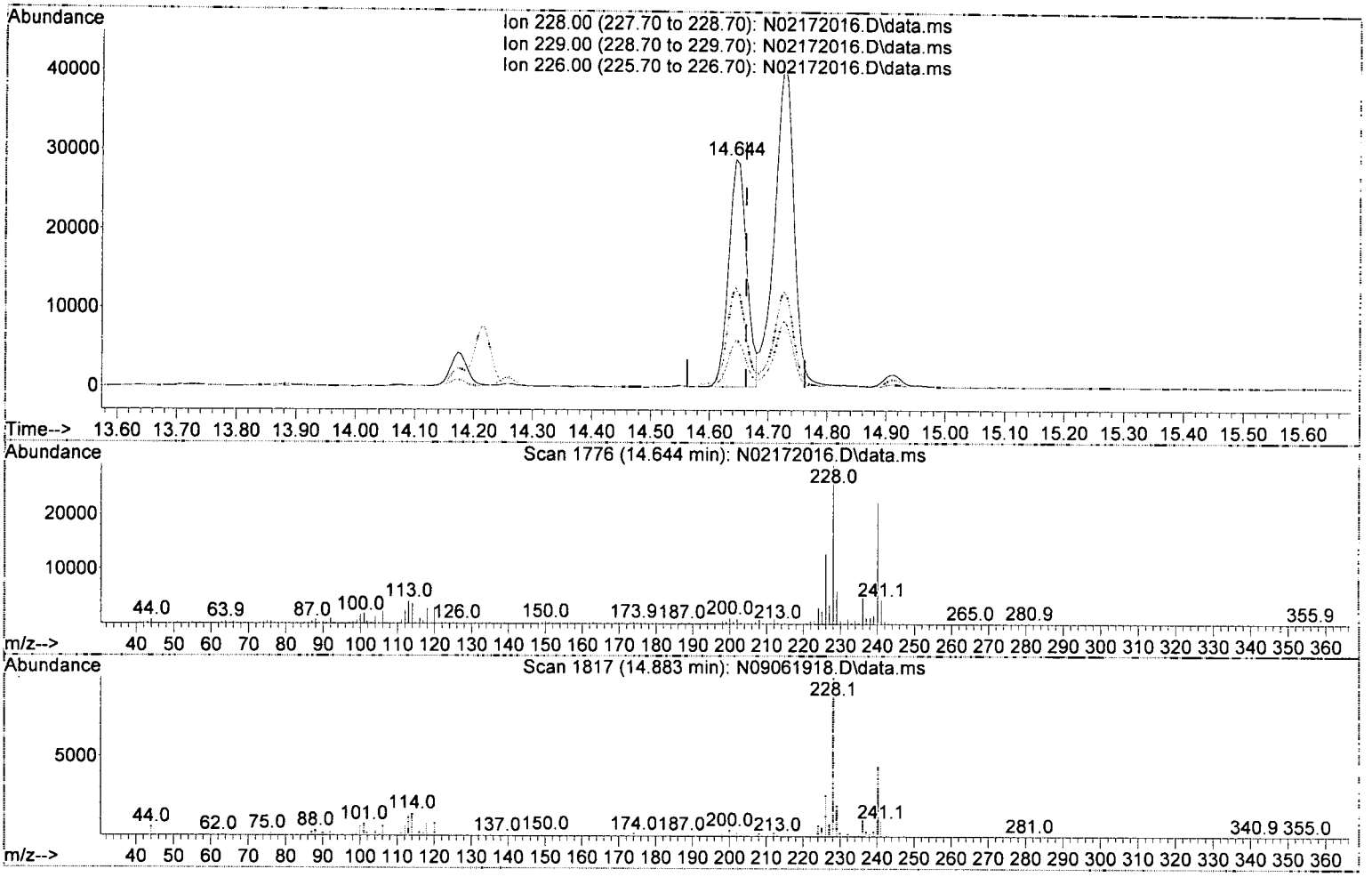
response 492930

Ion	Exp%	Act%
202.00	100.00	100.00
200.00	20.70	20.55
201.00	16.80	17.28
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B17042\
Data File : N02172016.D
Acq On : 17 Feb 2020 17:05
Operator : JK/ AMS/ DTH
Sample : A0B0411-01
Misc : 1x, 8270 PAH ONLY
ALS Vial : 11 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 17 17:33:30 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02172016.D\data.ms

(27) Benz(a)anthracene (T)

14.644min (-0.017) 22.47 ng/ml

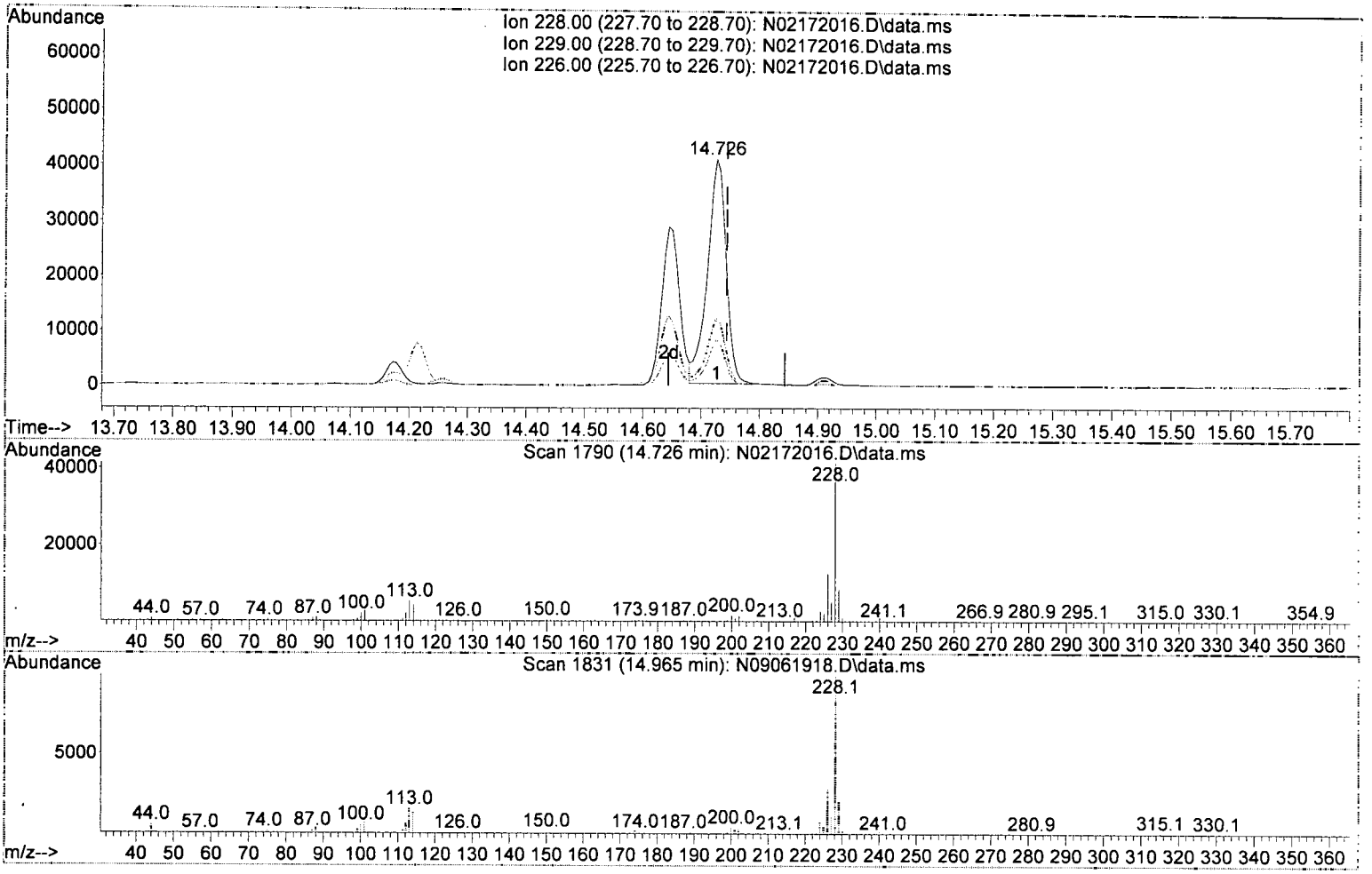
response 61433

Ion	Exp%	Act%
228.00	100.00	100.00
229.00	19.40	20.74
226.00	26.20	44.07
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B17042\
Data File : N02172016.D
Acq On : 17 Feb 2020 17:05
Operator : JK/ AMS/ DTH
Sample : A0B0411-01
Misc : 1x, 8270 PAH ONLY
ALS Vial : 11 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 17 17:33:30 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02172016.D\data.ms

(28) Chrysene (T)

14.726min (-0.017) 35.45 ng/ml

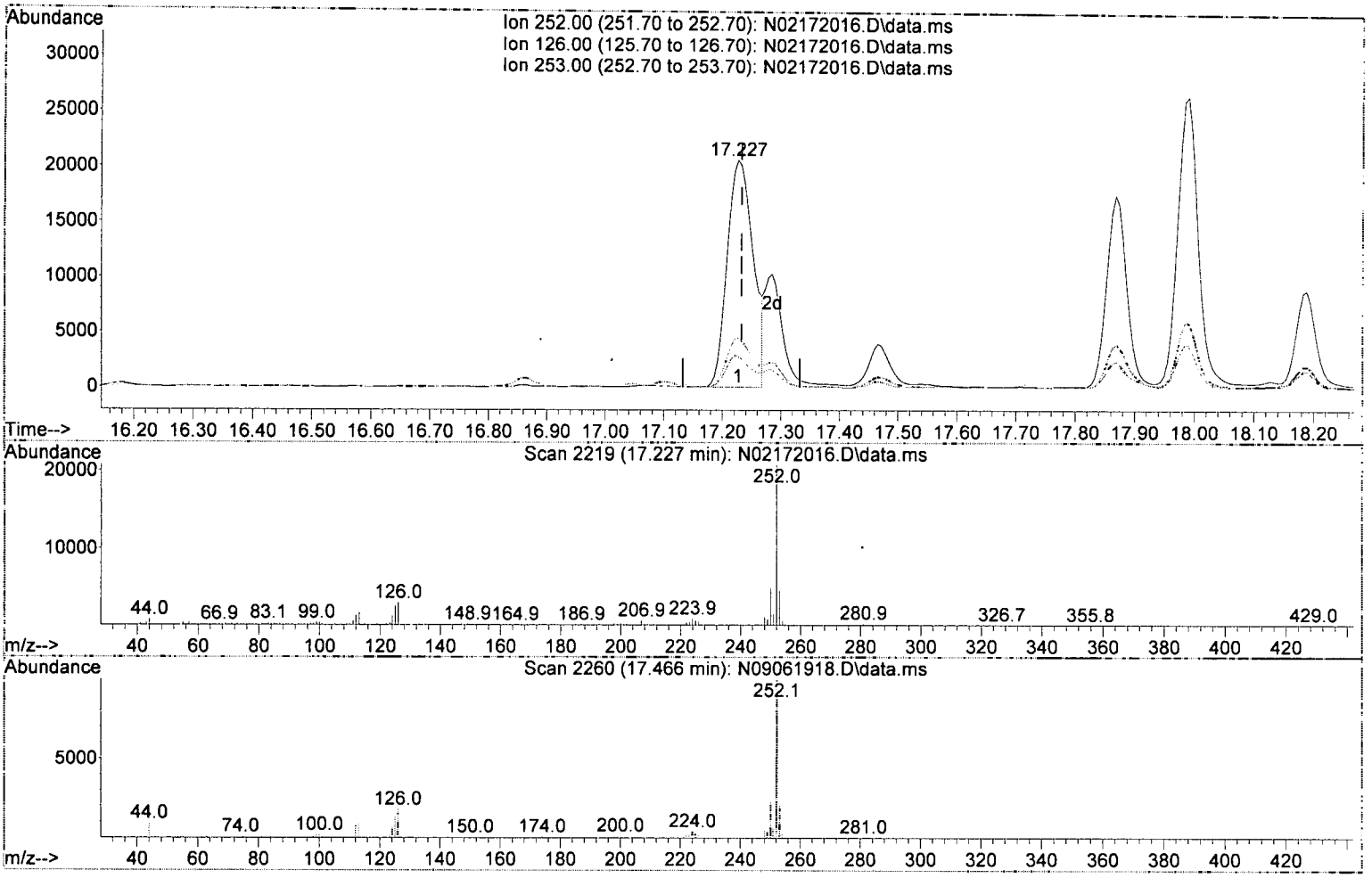
response 91746

Ion	Exp%	Act%
228.00	100.00	100.00
229.00	19.60	20.46
226.00	28.60	29.87
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B17042\
Data File : N02172016.D
Acq On : 17 Feb 2020 17:05
Operator : JK/ AMS/ DTH
Sample : A0B0411-01
Misc : 1x, 8270 PAH ONLY
ALS Vial : 11 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 17 17:33:30 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02172016.D\data.ms

(30) Benzo(b)fluoranthene (T)

17.227min (-0.006) 25.04 ng/ml

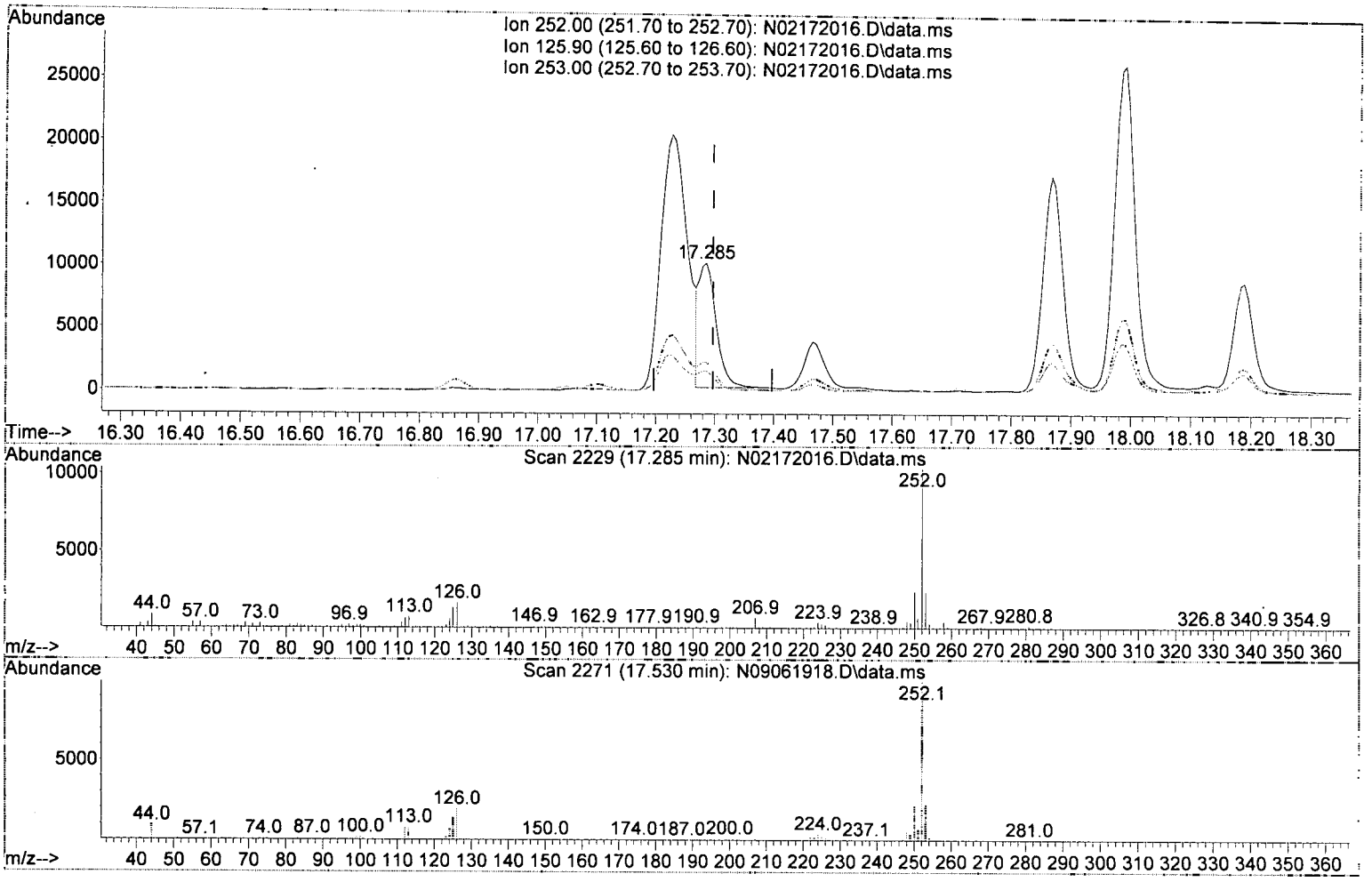
response 64089

Ion	Exp%	Act%
252.00	100.00	100.00
126.00	20.00	13.92
253.00	21.10	21.71
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B17042\
Data File : N02172016.D
Acq On : 17 Feb 2020 17:05
Operator : JK/ AMS/ DTH
Sample : A0B0411-01
Misc : 1x, 8270 PAH ONLY
ALS Vial : 11 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 17 17:33:30 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02172016.D\data.ms

(31) Benzo(k)fluoranthene (T)

17.285min (-0.012) 8.02 ng/ml m NMS JH 4/17/20

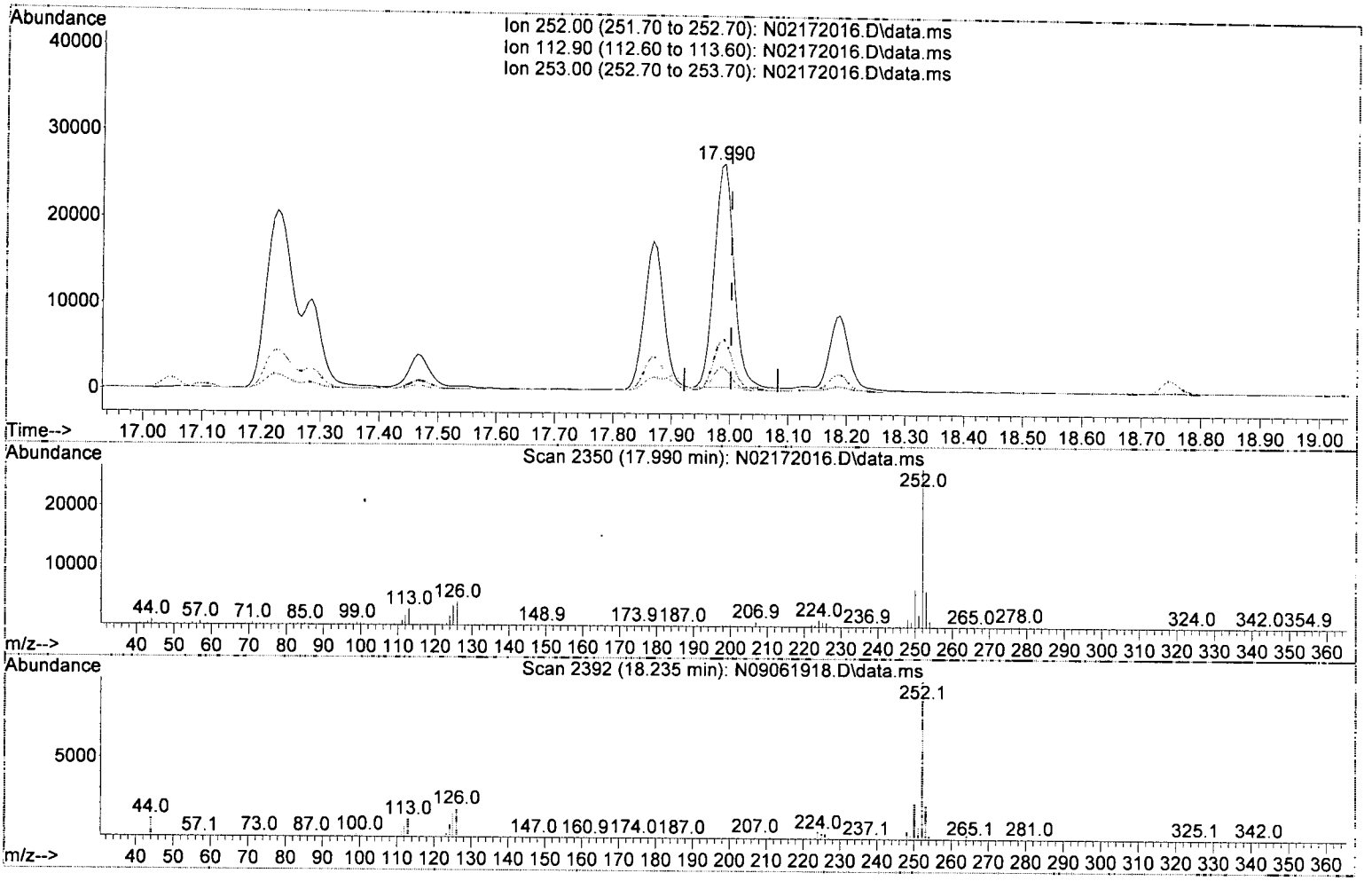
response 20209

Ion	Exp%	Act%
252.00	100.00	100.00
125.90	22.10	15.76
253.00	21.50	22.45
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B17042\
Data File : N02172016.D
Acq On : 17 Feb 2020 17:05
Operator : JK/ AMS/ DTH
Sample : A0B0411-01
Misc : 1x, 8270 PAH ONLY
ALS Vial : 11 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 17 17:33:30 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02172016.D\data.ms

(35) Benzo(a)pyrene (T)

17.990min (-0.012) 28.07 ng/ml

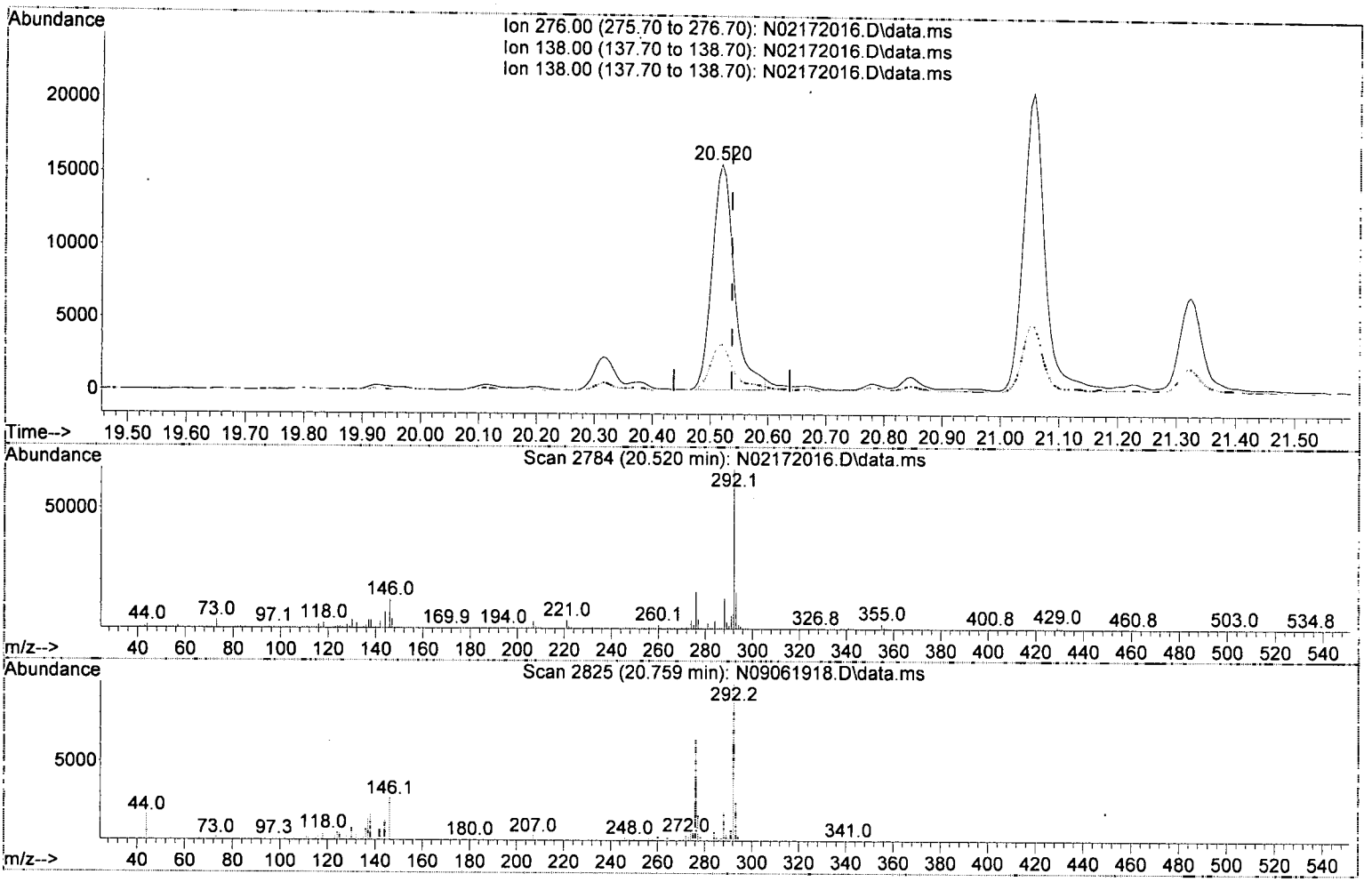
response 61481

Ion	Exp%	Act%
252.00	100.00	100.00
112.90	12.70	10.18
253.00	21.90	22.51
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B17042\
Data File : N02172016.D
Acq On : 17 Feb 2020 17:05
Operator : JK/ AMS/ DTH
Sample : A0B0411-01
Misc : 1x, 8270 PAH ONLY
ALS Vial : 11 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 17 17:33:30 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02172016.D\data.ms

(38) Indeno(1,2,3-cd)Pyrene (T)

20.520min (-0.017) 18.69 ng/ml

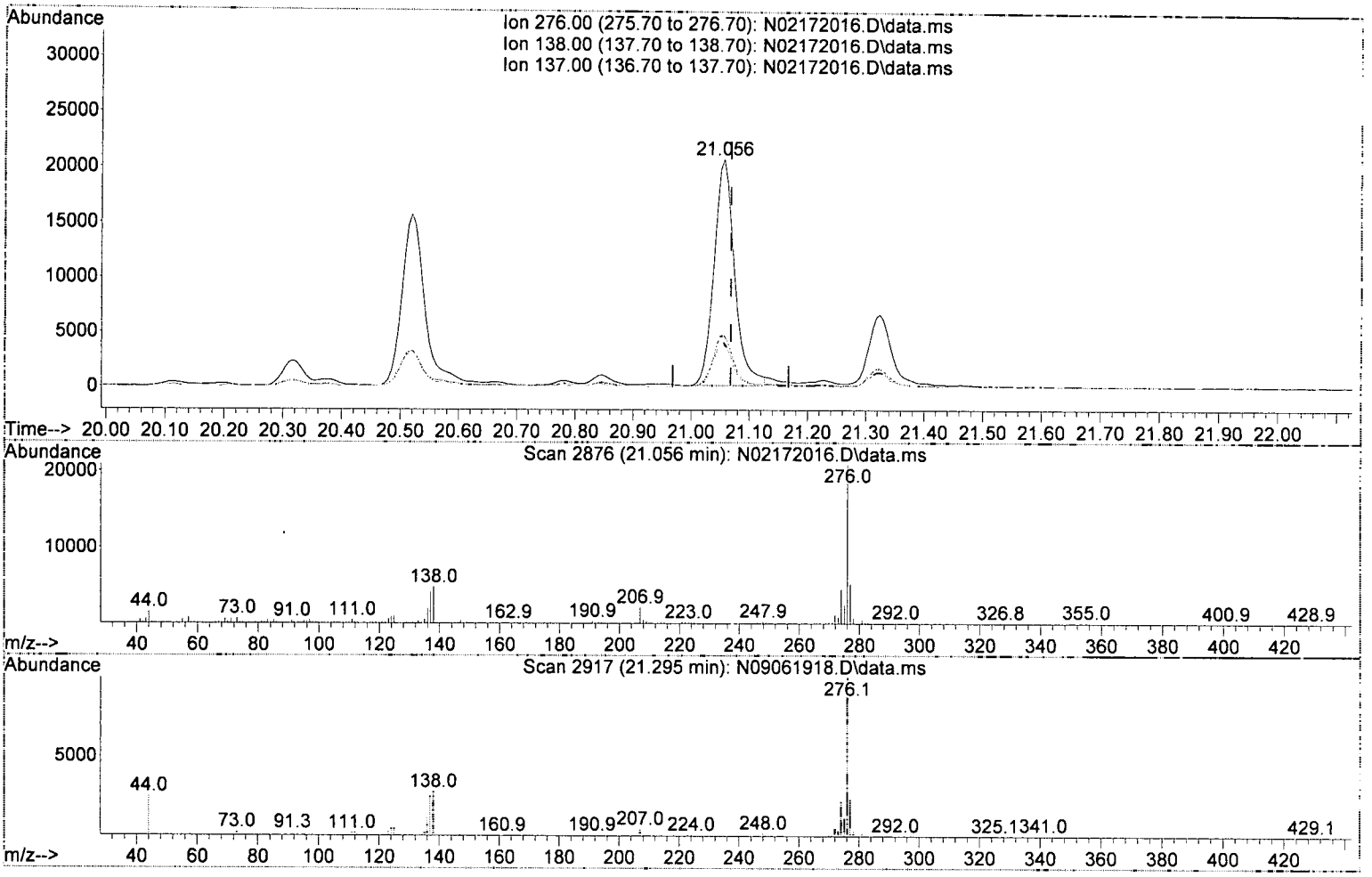
response 41784

Ion	Exp%	Act%
276.00	100.00	100.00
138.00	31.60	20.76
138.00	31.60	20.76
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B17042\
Data File : N02172016.D
Acq On : 17 Feb 2020 17:05
Operator : JK/ AMS/ DTH
Sample : A0B0411-01
Misc : 1x, 8270 PAH ONLY
ALS Vial : 11 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 17 17:33:30 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02172016.D\data.ms

(40) Benzo(g,h,i)perylene (T)

21.056min (-0.012) 21.53 ng/ml

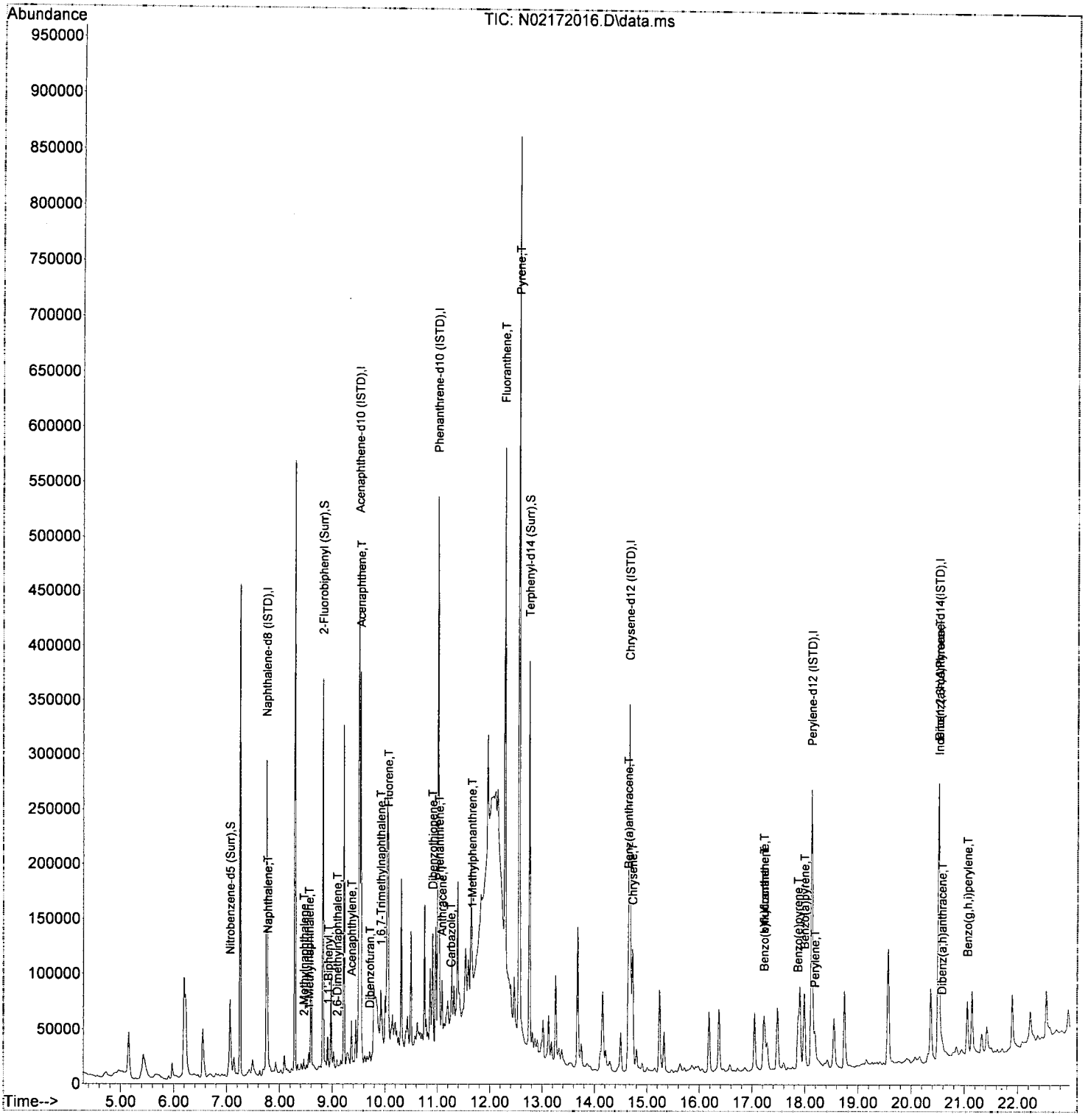
response 51080

Ion	Exp%	Act%
276.00	100.00	100.00
138.00	21.00	22.71
137.00	18.60	19.41
0.00	0.00	0.00

No Name Entered Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-02\0B17042\
Data File : N02172016.D
Acq On : 17 Feb 2020 17:05
Operator : JK/ AMS/ DTH
Sample : A0B0411-01
Misc : 1x, 8270 PAH ONLY
ALS Vial : 11 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 17 17:33:30 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



No Name Entered Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-02\0B17042\
Data File : N02172017.D
Acq On : 17 Feb 2020 17:37
Operator : JK/ AMS/ DTH
Sample : A0B0411-03
Misc : 1x, 8270 PAH ONLY
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

DMH 2/17/20

Quant Time: Feb 17 19:05:32 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14

RR2

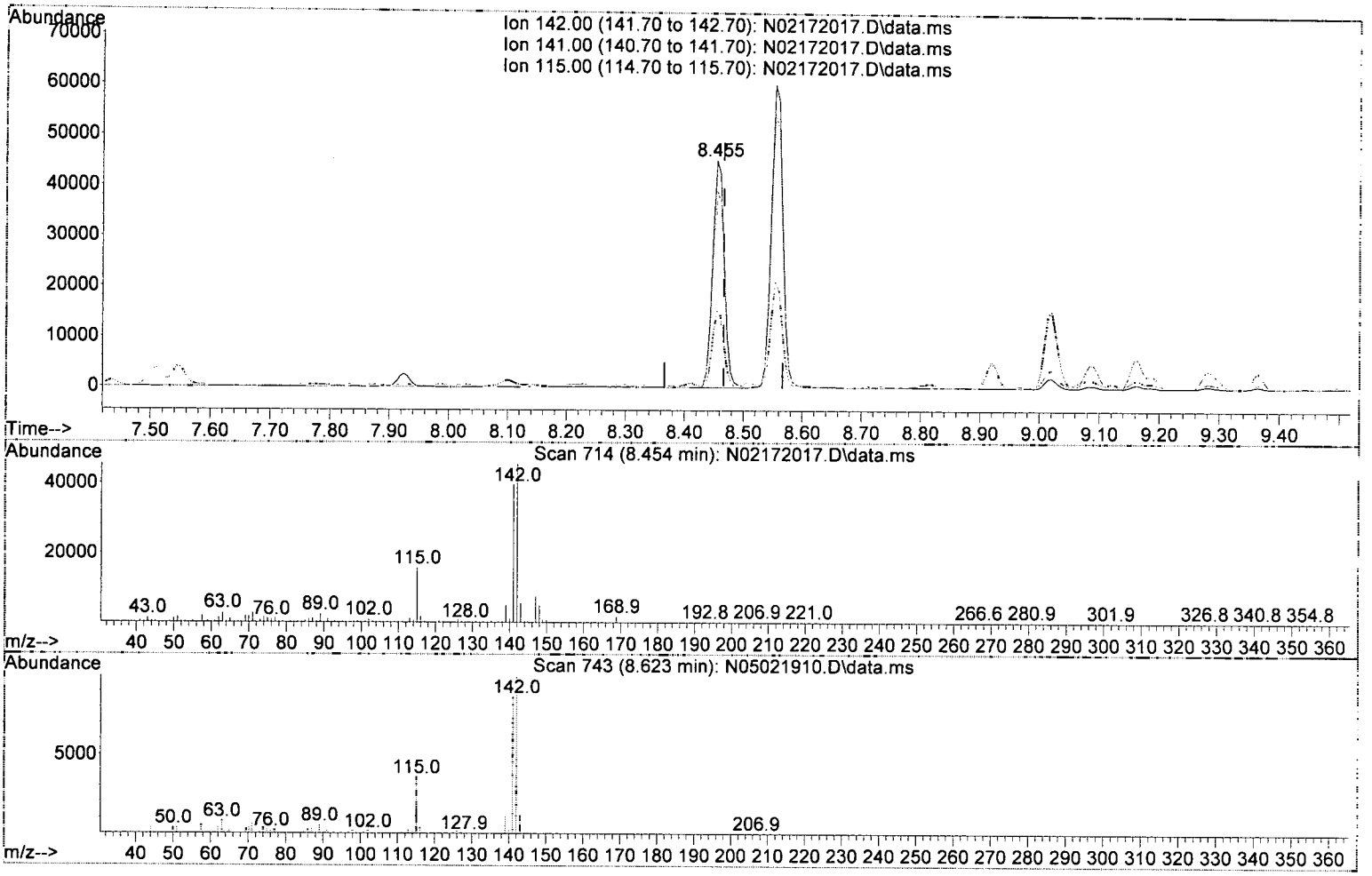
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.755	136	178494	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.504	162	137763	100.00	ng/ml	-0.01
17) Phenanthrene-d10 (ISTD)	11.013	188	255828	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.668	240	224875	100.00	ng/ml	-0.02
29) Perylene-d12 (ISTD)	18.124	264	211097	100.00	ng/ml	-0.02
37) Dibenz(a,h)Anthrcene-d...	20.514	292	169881	100.00	ng/ml	-0.02
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.056	82	42292	71.30	ng/ml	-0.01
10) 2-Fluorobiphenyl (Surr)	8.822	172	154229	75.04	ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	9.346	160	1692	-1.00	ng/ml	-0.01
26) Terphenyl-d14 (Surr)	12.756	244	174988	73.99	ng/ml	-0.01
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml	
Target Compounds						Qvalue
3) Decalin	7.289	138	59	0.44	ng/ml#	7
4) Naphthalene	7.773	128	2071633	1052.31	ng/ml	99 RR2
5) 2-Methylnaphthalene	8.454	142	62603	37.53	ng/ml	99
6) 1-Methylnaphthalene	8.554	142	81592	48.92	ng/ml	98
7) 1,1'-Biphenyl	8.921	154	163271	72.77	ng/ml	97
8) 2,6-Dimethylnaphthalene	9.090	156	11134	6.79	ng/ml	96
12) Acenaphthylene	9.364	152	16279	5.44	ng/ml	93
13) Acenaphthene	9.539	153	362614	185.11	ng/ml	100
14) Dibenzofuran	9.713	168	22901	9.33	ng/ml	97
15) 1,6,7-Trimethylnaphtha...	9.917	170	1297	0.79	ng/ml#	1
16) Fluorene	10.057	166	83650	41.73	ng/ml	99
18) Dibenzothiopene	10.908	184	12064	4.51	ng/ml	98
19) Phenanthrene	11.037	178	19401	6.48	ng/ml	99
20) Anthracene	11.089	178	5428	1.95	ng/ml	86
21) Carbazole	11.252	167	87016	38.62	ng/ml	99
22) 1-Methylphenanthrene	11.660	192	2236	1.08	ng/ml	83
23) Fluoranthene	12.284	202	31651	10.49	ng/ml	97
25) Pyrene	12.558	202	40943	11.65	ng/ml	99
27) Benz(a)anthracene	14.645	228	7999	3.06	ng/ml	63
28) Chrysene	14.720	228	9140	3.70	ng/ml	94
30) Benzo(b)fluoranthene	17.227	252	9467	3.89	ng/ml	90
31) Benzo(k)fluoranthene	17.227	252	11511	4.80	ng/ml	88 mI ND
32) Benzo(b+k)fluoranthene	17.227	252	12973	5.21	ng/ml	88
34) Benzo(e)pyrene	17.868	252	6113	2.48	ng/ml	95
35) Benzo(a)pyrene	17.984	252	8721	4.18	ng/ml	98
36) Perylene	18.188	252	21242	8.27	ng/ml	99
38) Indeno(1,2,3-cd)Pyrene	20.514	276	6049	2.89	ng/ml	93
39) Dibenz(a,h)anthracene	20.572	278	685	N.D.		
40) Benzo(g,h,i)perylene	21.050	276	7282	3.28	ng/ml	75

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B17042\
Data File : N02172017.D
Acq On : 17 Feb 2020 17:37
Operator : JK/ AMS/ DTH
Sample : A0B0411-03
Misc : 1x, 8270 PAH ONLY
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 17 19:05:32 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02172017.D\data.ms

(5) 2-Methylnaphthalene (T)

8.454min (-0.012) 37.53 ng/ml

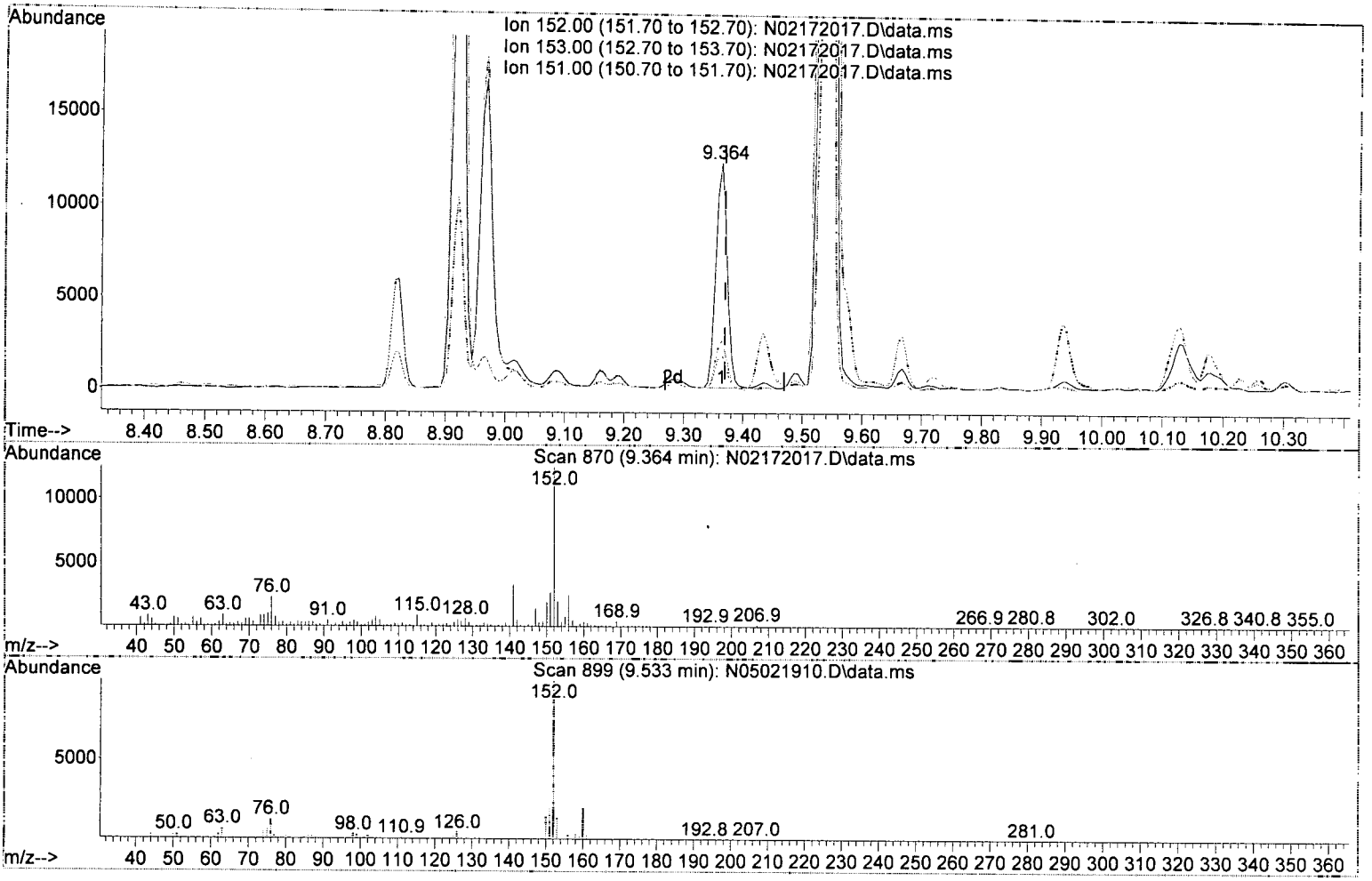
response 62603

Ion	Exp%	Act%
142.00	100.00	100.00
141.00	86.60	86.95
115.00	35.70	34.49
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B17042\
Data File : N02172017.D
Acq On : 17 Feb 2020 17:37
Operator : JK/ AMS/ DTH
Sample : A0B0411-03
Misc : 1x, 8270 PAH ONLY
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 17 19:05:32 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02172017.D\data.ms

(12) Acenaphthylene (T)

9.364min (-0.006) 5.44 ng/ml

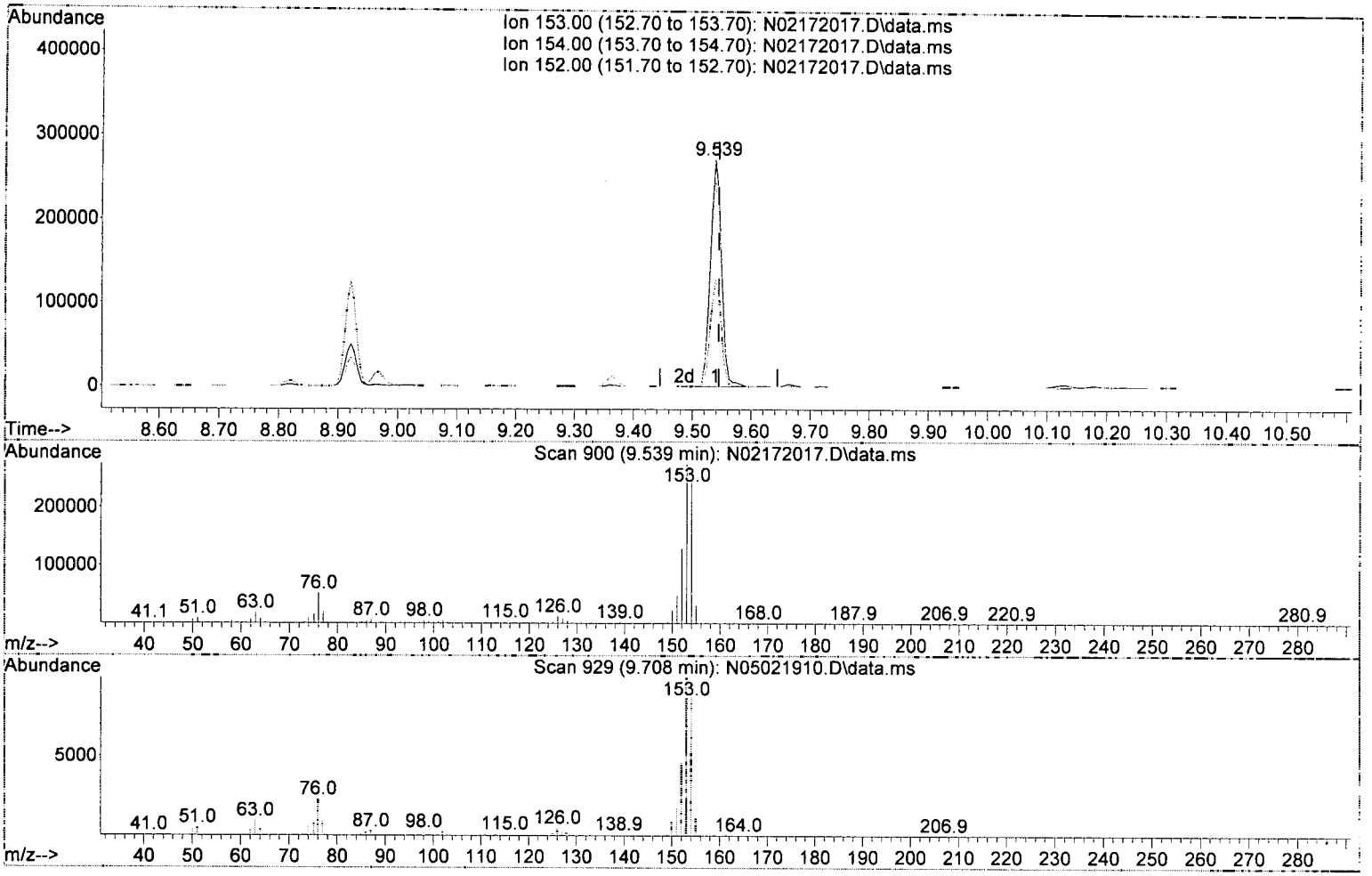
response 16279

Ion	Exp%	Act%
152.00	100.00	100.00
153.00	12.70	16.11
151.00	19.30	21.80
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B17042\
Data File : N02172017.D
Acq On : 17 Feb 2020 17:37
Operator : JK/ AMS/ DTH
Sample : A0B0411-03
Misc : 1x, 8270 PAH ONLY
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 17 19:05:32 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02172017.D\data.ms

(13) Acenaphthene (T)

9.539min (-0.006) 185.11 ng/ml

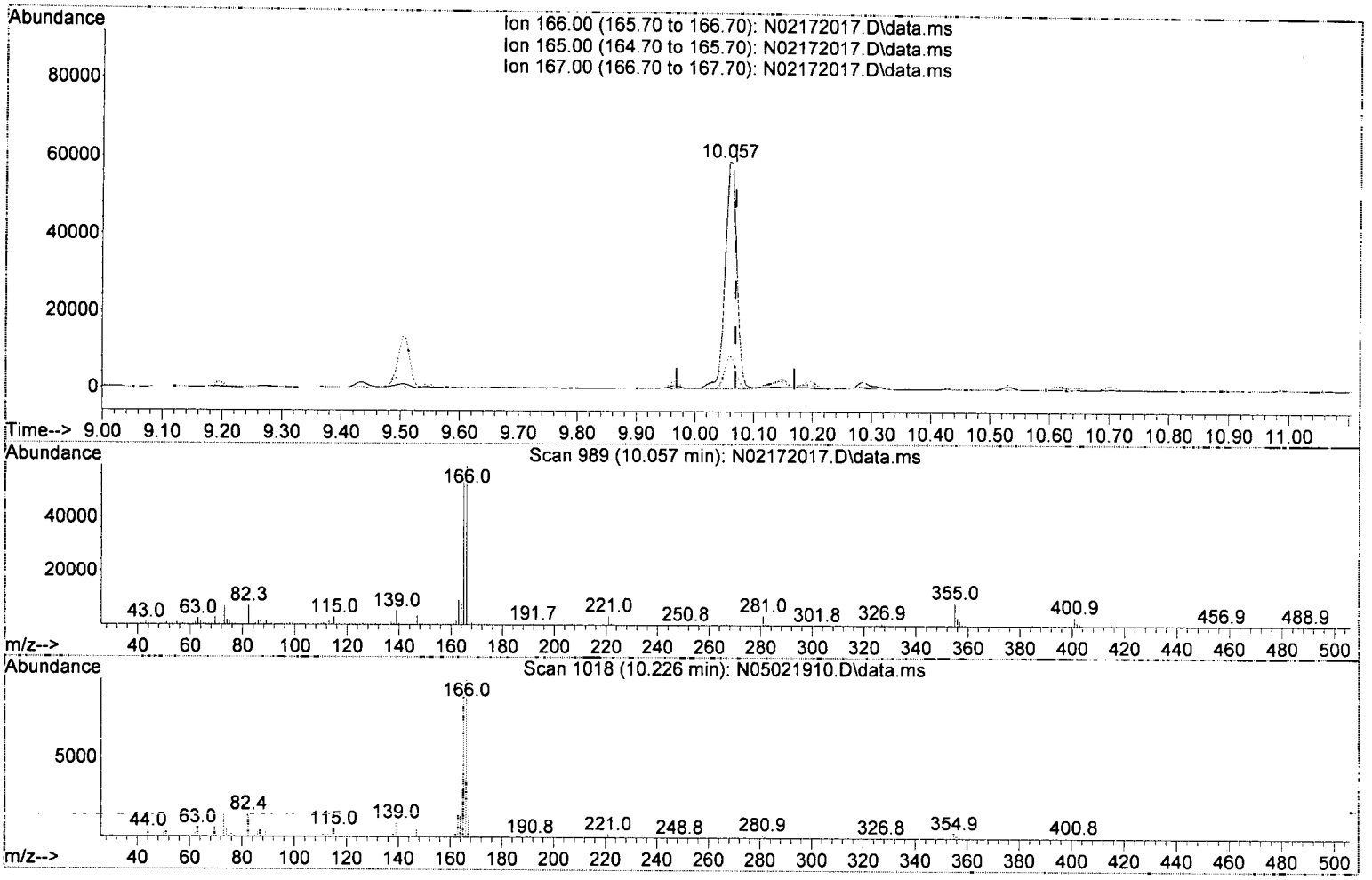
response 362614

Ion	Exp%	Act%
153.00	100.00	100.00
154.00	90.70	90.29
152.00	46.80	47.20
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B17042\
Data File : N02172017.D
Acq On : 17 Feb 2020 17:37
Operator : JK/ AMS/ DTH
Sample : A0B0411-03
Misc : 1x, 8270 PAH ONLY
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 17 19:05:32 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02172017.D\data.ms

(16) Fluorene (T)

10.057min (-0.012) 41.73 ng/ml

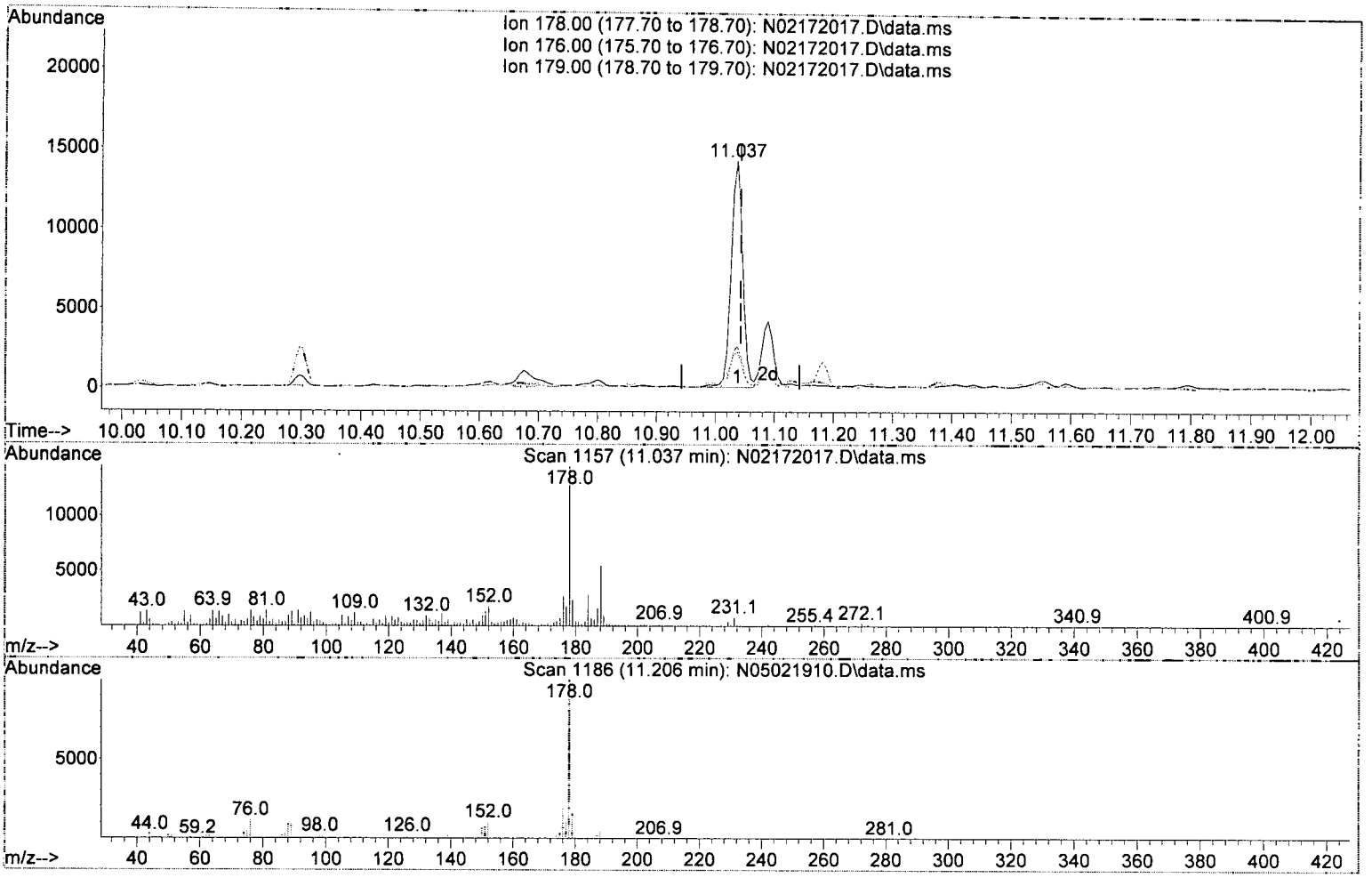
response 83650

Ion	Exp%	Act%
166.00	100.00	100.00
165.00	95.70	94.76
167.00	13.60	14.70
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B17042\
Data File : N02172017.D
Acq On : 17 Feb 2020 17:37
Operator : JK/ AMS/ DTH
Sample : A0B0411-03
Misc : 1x, 8270 PAH ONLY
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 17 19:05:32 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02172017.D\data.ms

(19) Phenanthrene (T)

11.037min (-0.006) 6.48 ng/ml

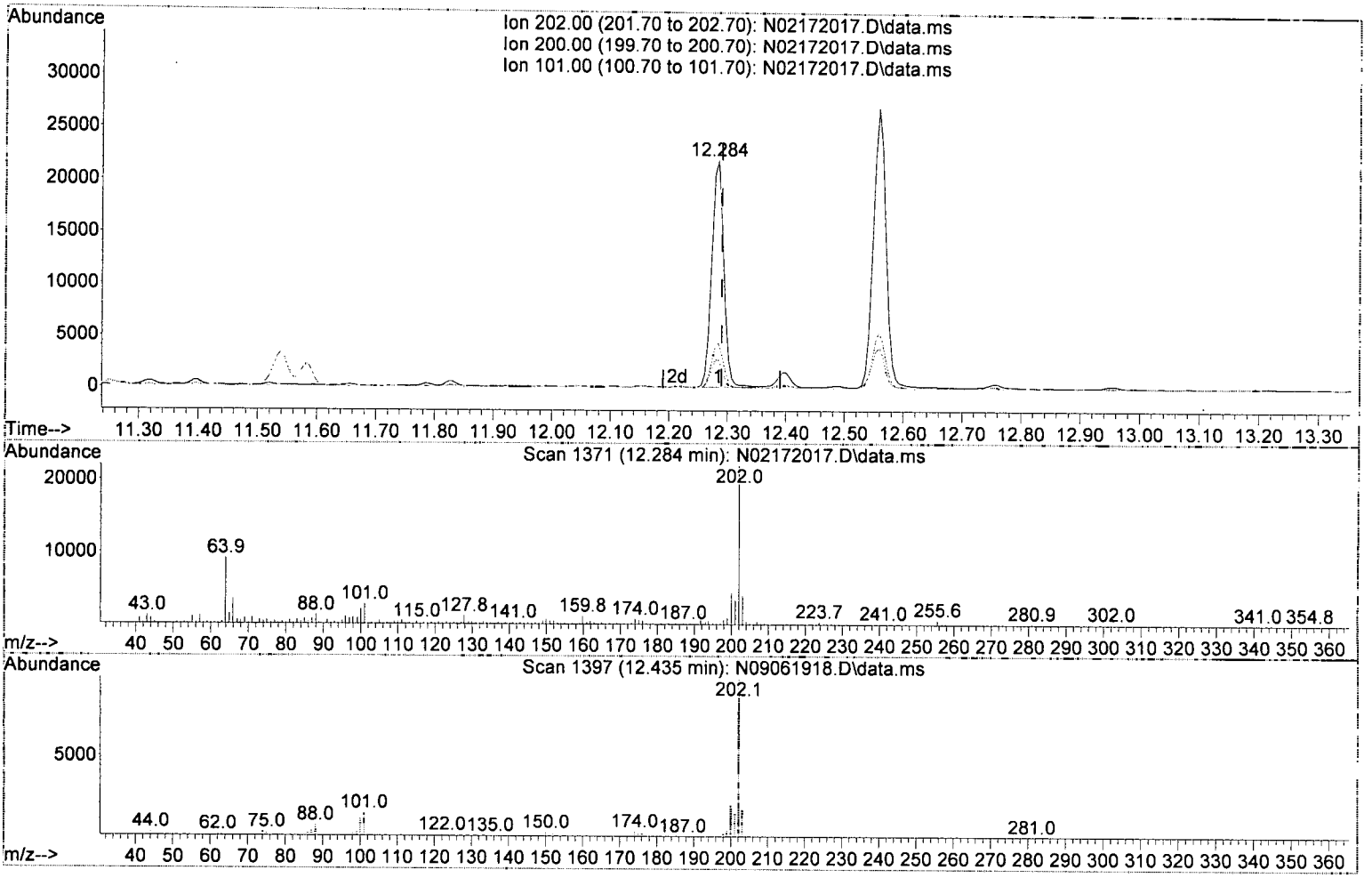
response 19401

Ion	Exp%	Act%
178.00	100.00	100.00
176.00	19.00	18.91
179.00	15.10	16.39
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B17042\
Data File : N02172017.D
Acq On : 17 Feb 2020 17:37
Operator : JK/ AMS/ DTH
Sample : A0B0411-03
Misc : 1x, 8270 PAH ONLY
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 17 19:05:32 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02172017.D\data.ms

(23) Fluoranthene (T)

12.284min (-0.006) 10.49 ng/ml

response 31651

Ion	Exp%	Act%
202.00	100.00	100.00
200.00	19.70	19.78
101.00	15.30	12.42
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B17042\
Data File : N02172017.D
Acq On : 17 Feb 2020 17:37
Operator : JK/ AMS/ DTH
Sample : A0B0411-03
Misc : 1x, 8270 PAH ONLY
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 17 19:05:32 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
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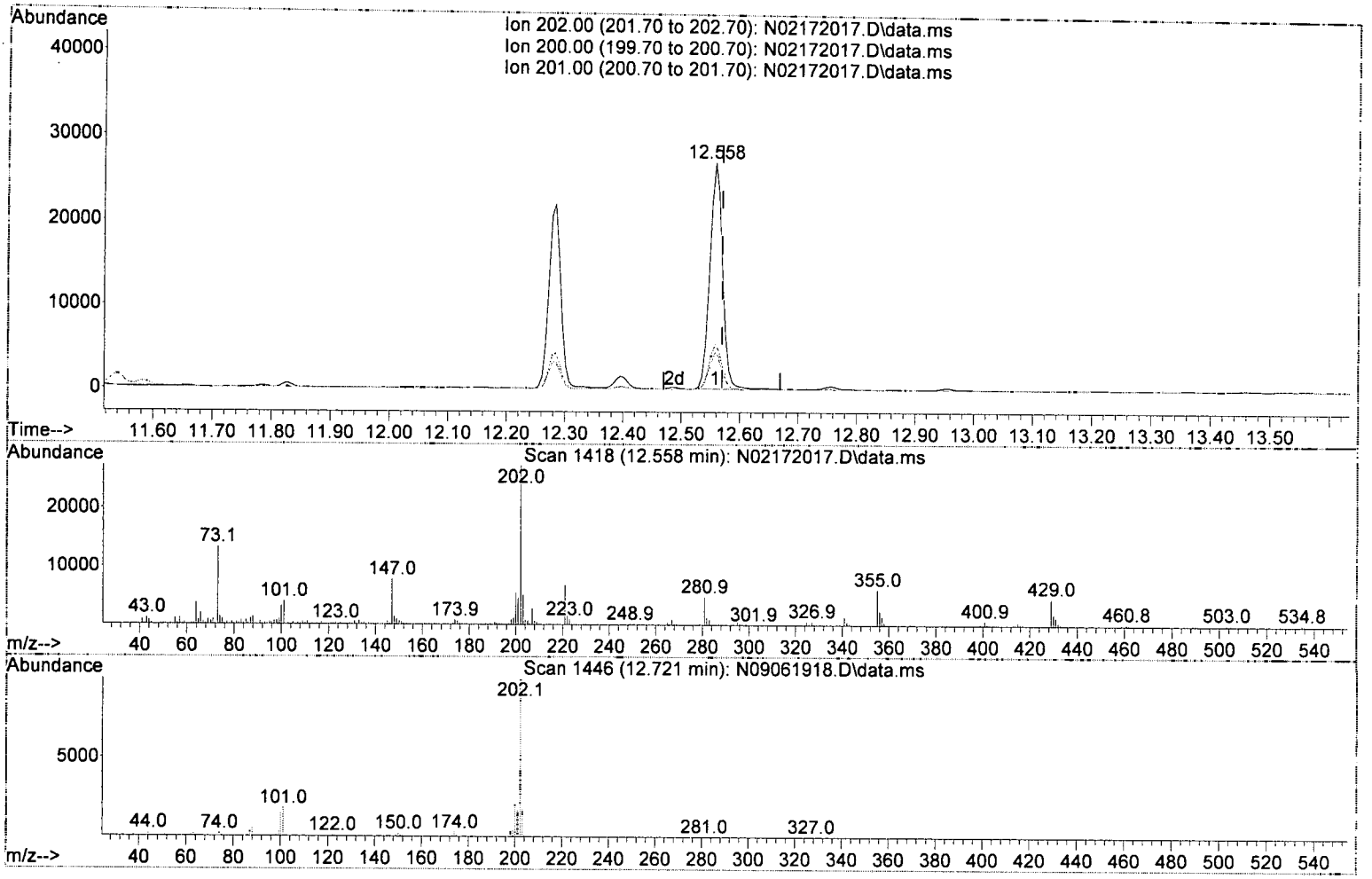


TIC: N02172017.D\data.ms

(25) Pyrene (T)

12.558min (-0.012) 11.65 ng/ml

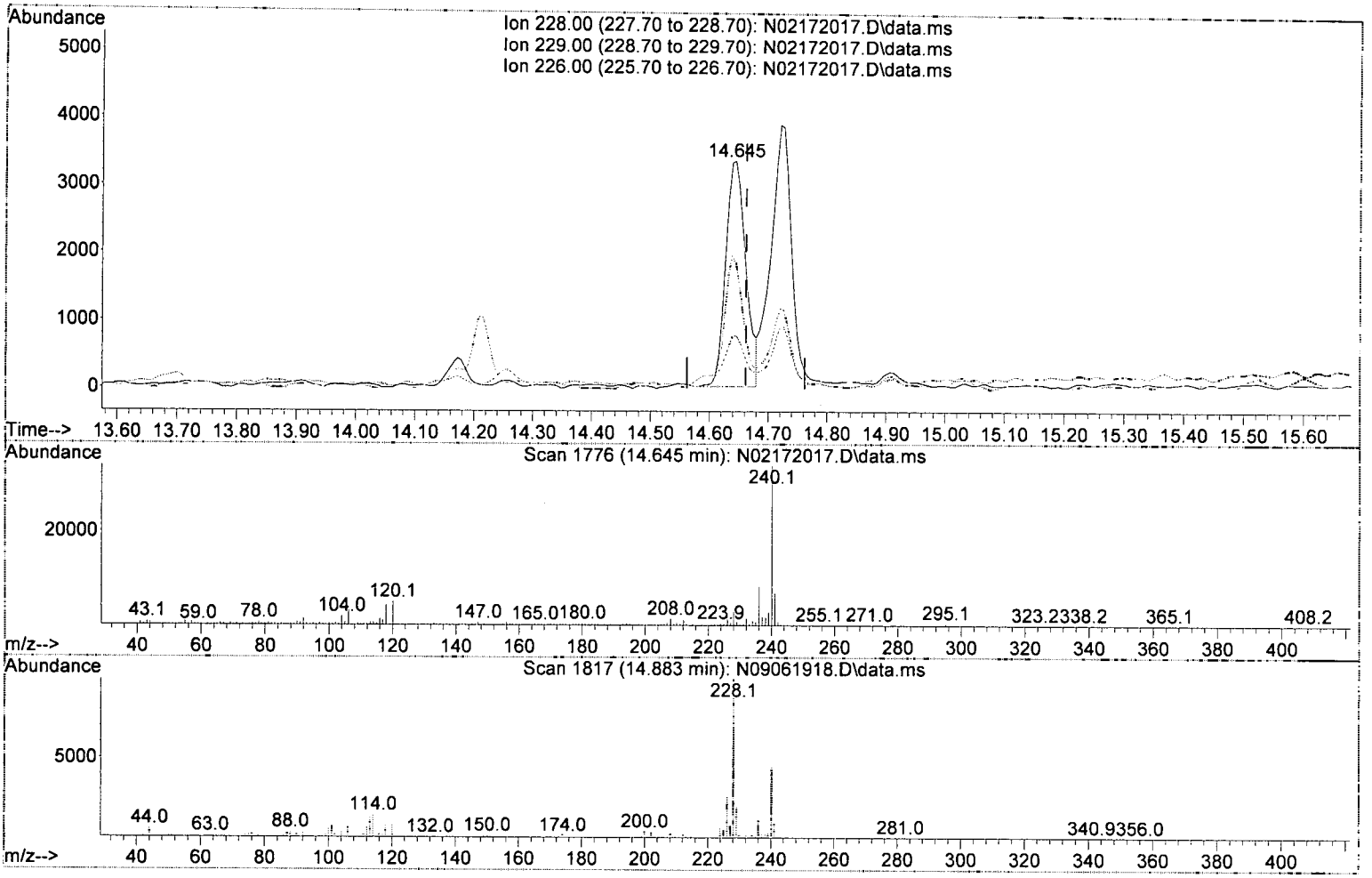
response 40943

Ion	Exp%	Act%
202.00	100.00	100.00
200.00	20.70	20.17
201.00	16.80	16.79
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B17042\
Data File : N02172017.D
Acq On : 17 Feb 2020 17:37
Operator : JK/ AMS/ DTH
Sample : A0B0411-03
Misc : 1x, 8270 PAH ONLY
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 17 19:05:32 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02172017.D\data.ms

(27) Benz(a)anthracene (T)

14.645min (-0.017) 3.06 ng/ml

response 7999

Ion	Exp%	Act%
228.00	100.00	100.00
229.00	19.40	23.47
226.00	26.20	55.32
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B17042\
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Acq On : 17 Feb 2020 17:37
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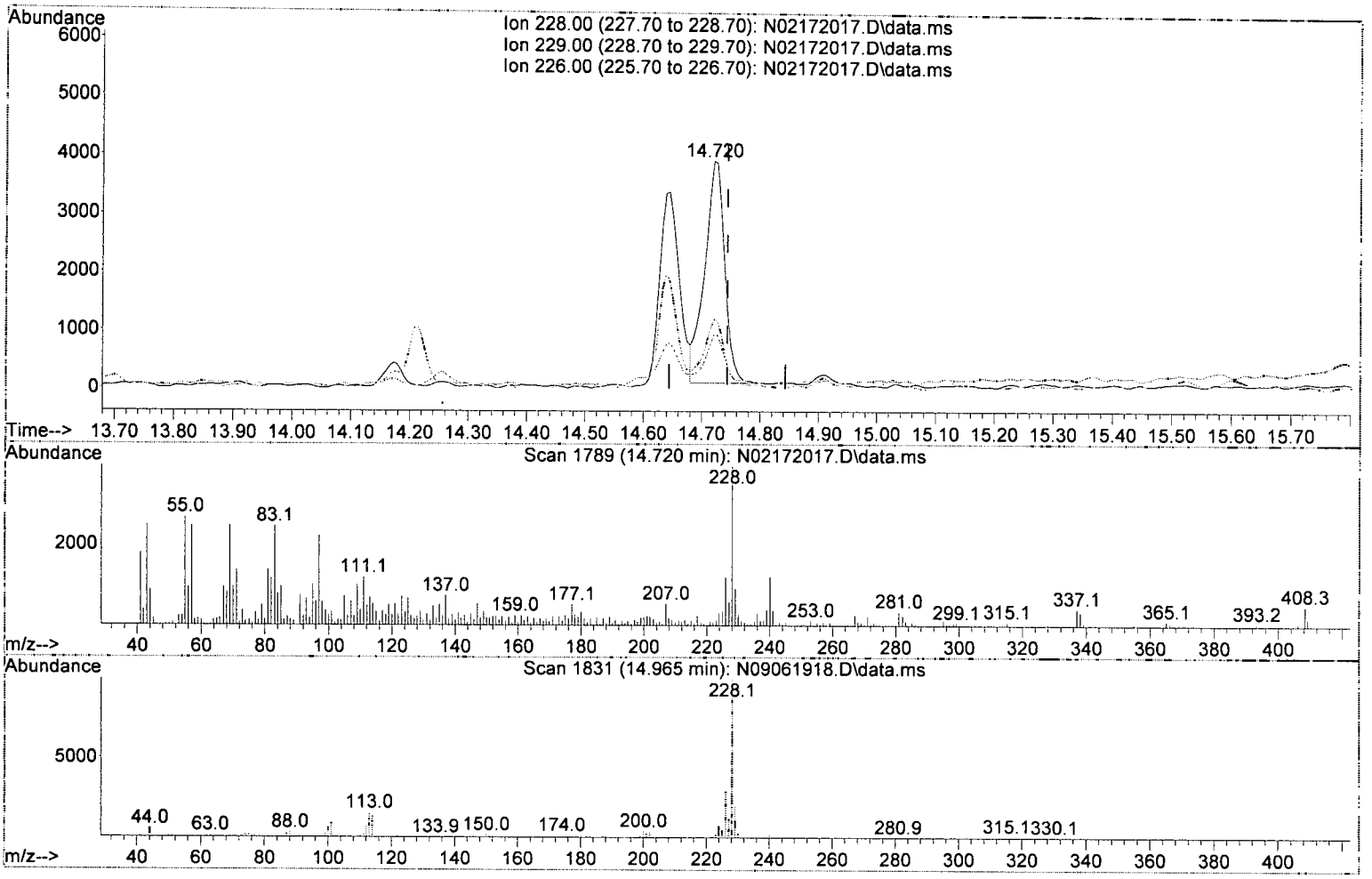
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02172017.D\data.ms

(28) Chrysene (T)

14.720min (-0.023) 3.70 ng/ml J

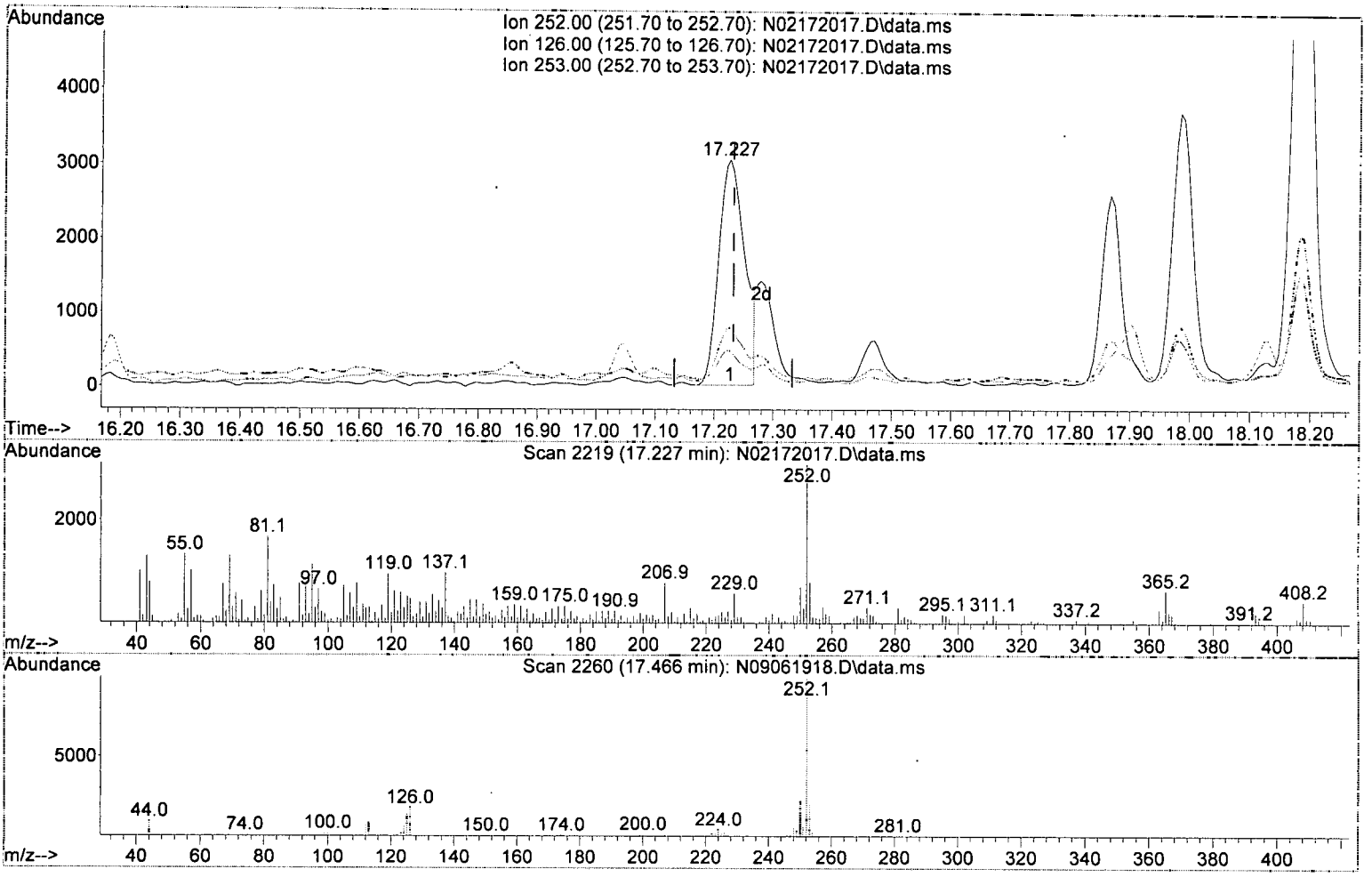
response 9140

Ion	Exp%	Act%
228.00	100.00	100.00
229.00	19.60	23.68
226.00	28.60	30.43
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B17042\
Data File : N02172017.D
Acq On : 17 Feb 2020 17:37
Operator : JK/ AMS/ DTH
Sample : A0B0411-03
Misc : 1x, 8270 PAH ONLY
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 17 19:05:32 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02172017.D\data.ms

(30) Benzo(b)fluoranthene (T)

17.227min (-0.006) 3.89 ng/ml J

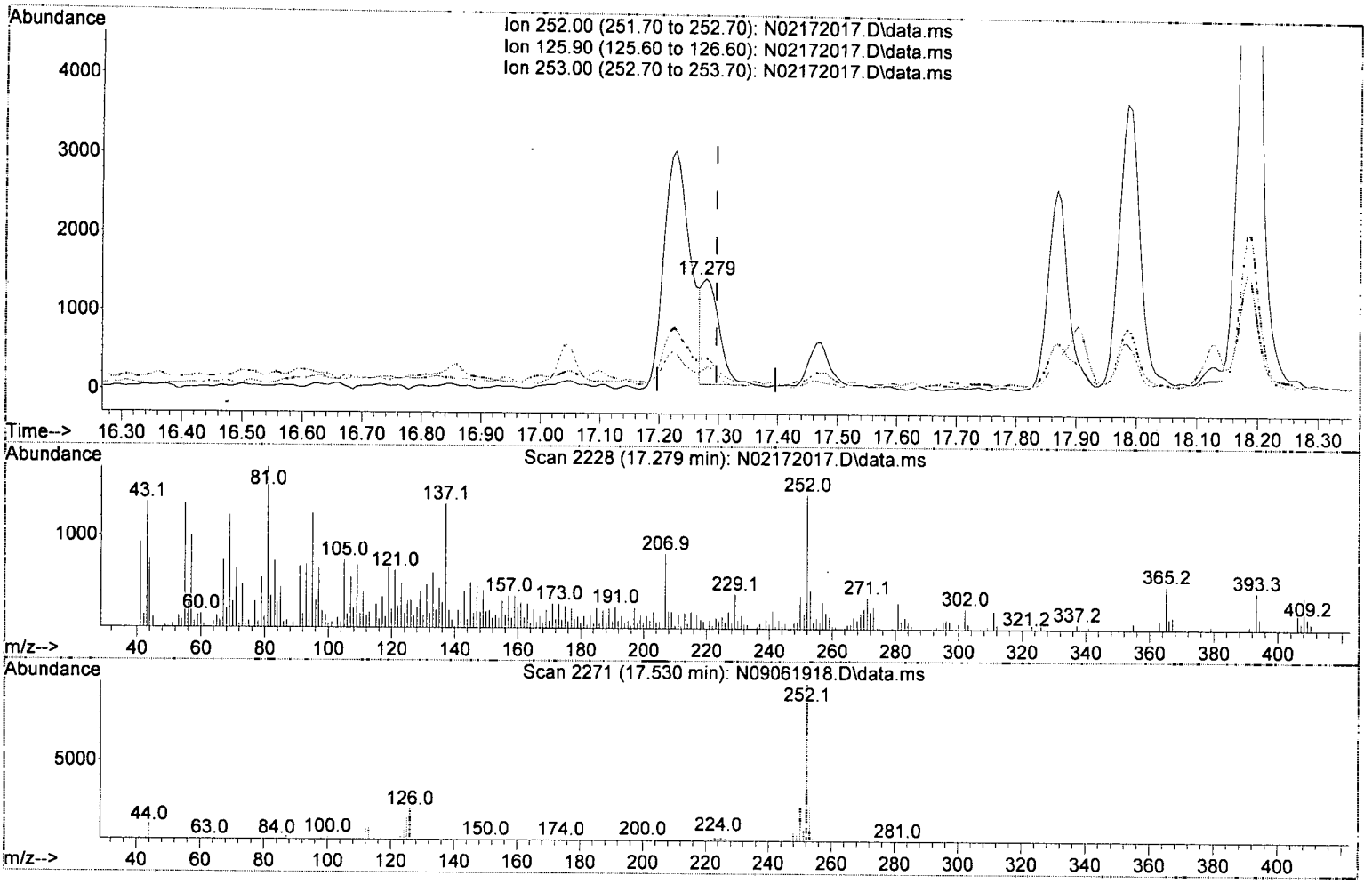
response 9467

Ion	Exp%	Act%
252.00	100.00	100.00
126.00	20.00	15.87
253.00	21.10	26.26
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B17042\
Data File : N02172017.D
Acq On : 17 Feb 2020 17:37
Operator : JK/ AMS/ DTH
Sample : A0B0411-03
Misc : 1x, 8270 PAH ONLY
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 17 19:05:32 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02172017.D\data.ms

(31) Benzo(k)fluoranthene (T)

17.279min (-0.017) 1.14 ng/ml (m) NO

response 2731

DTH 2/17/20

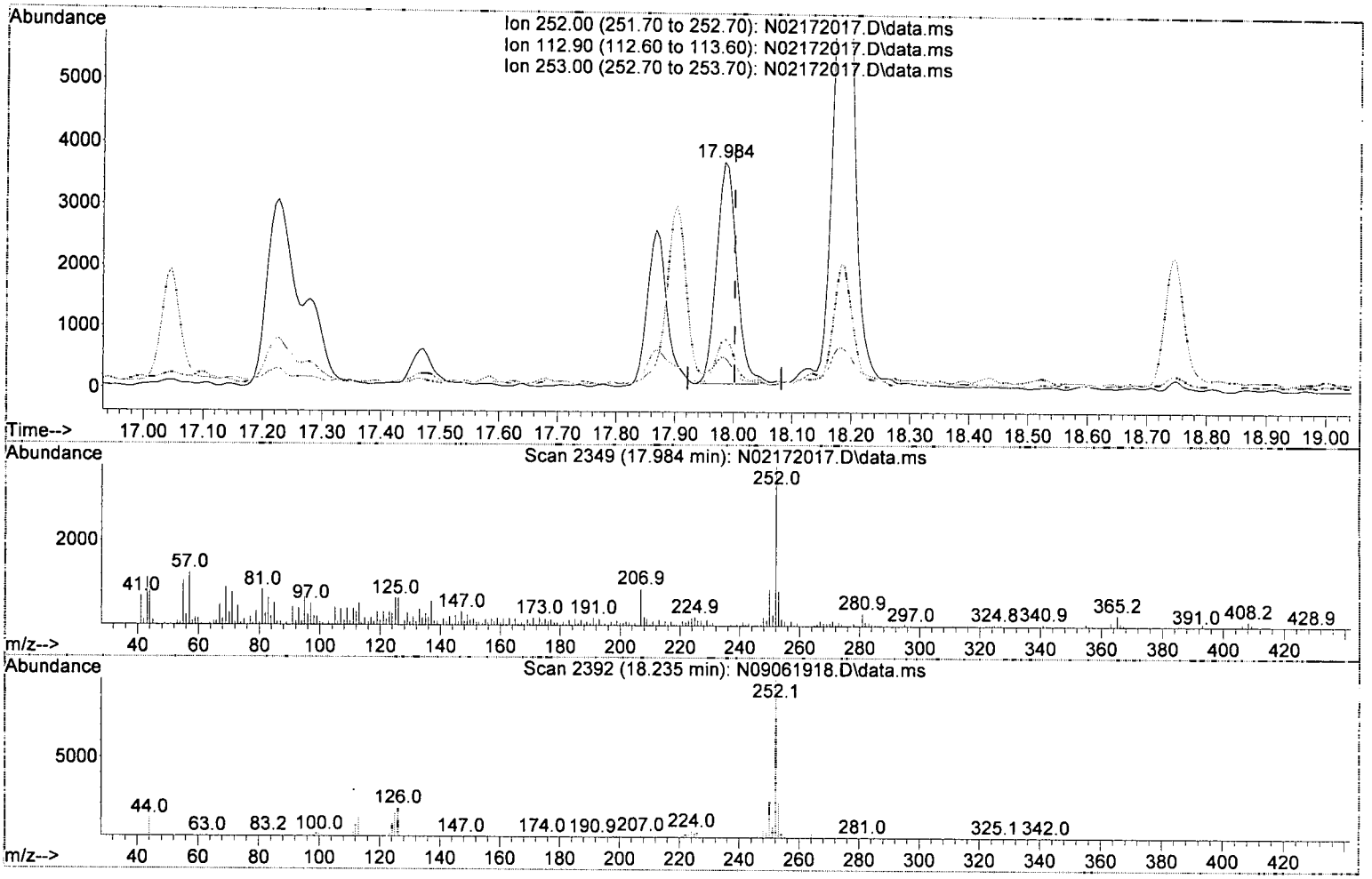
Ion	Exp%	Act%
252.00	100.00	100.00
125.90	22.10	21.04
253.00	21.50	29.41
0.00	0.00	0.00

J

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B17042\
Data File : N02172017.D
Acq On : 17 Feb 2020 17:37
Operator : JK/ AMS/ DTH
Sample : A0B0411-03
Misc : 1x, 8270 PAH ONLY
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 17 19:05:32 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02172017.D\data.ms

(35) Benzo(a)pyrene (T)

17.984min (-0.017) 4.18 ng/ml J

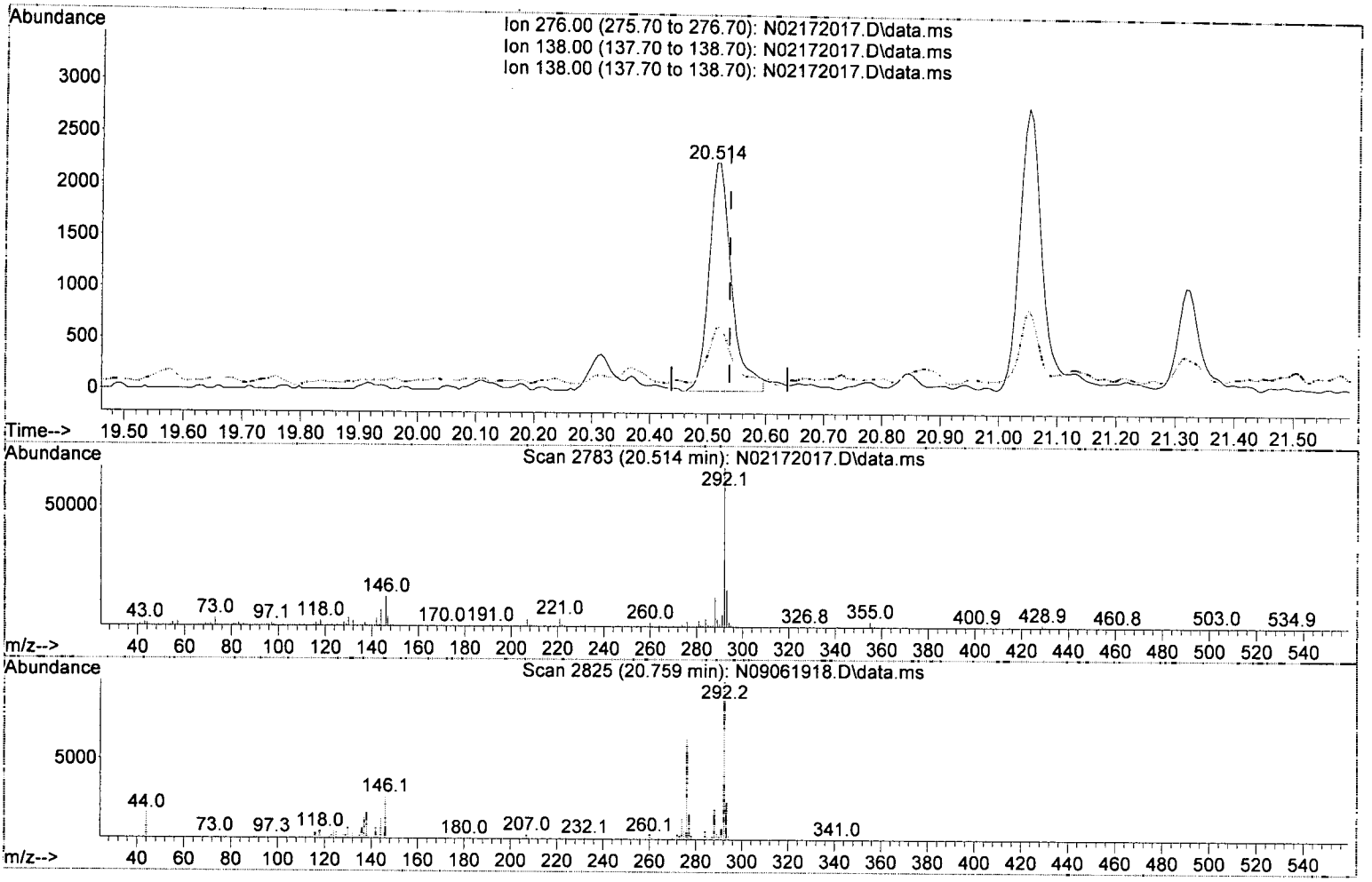
response 8721

Ion	Exp%	Act%
252.00	100.00	100.00
112.90	12.70	14.16
253.00	21.90	22.19
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B17042\
Data File : N02172017.D
Acq On : 17 Feb 2020 17:37
Operator : JK/ AMS/ DTH
Sample : A0B0411-03
Misc : 1x, 8270 PAH ONLY
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 17 19:05:32 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02172017.D\data.ms

(38) Indeno(1,2,3-cd)Pyrene (T)

20.514min (-0.023) 2.89 ng/ml

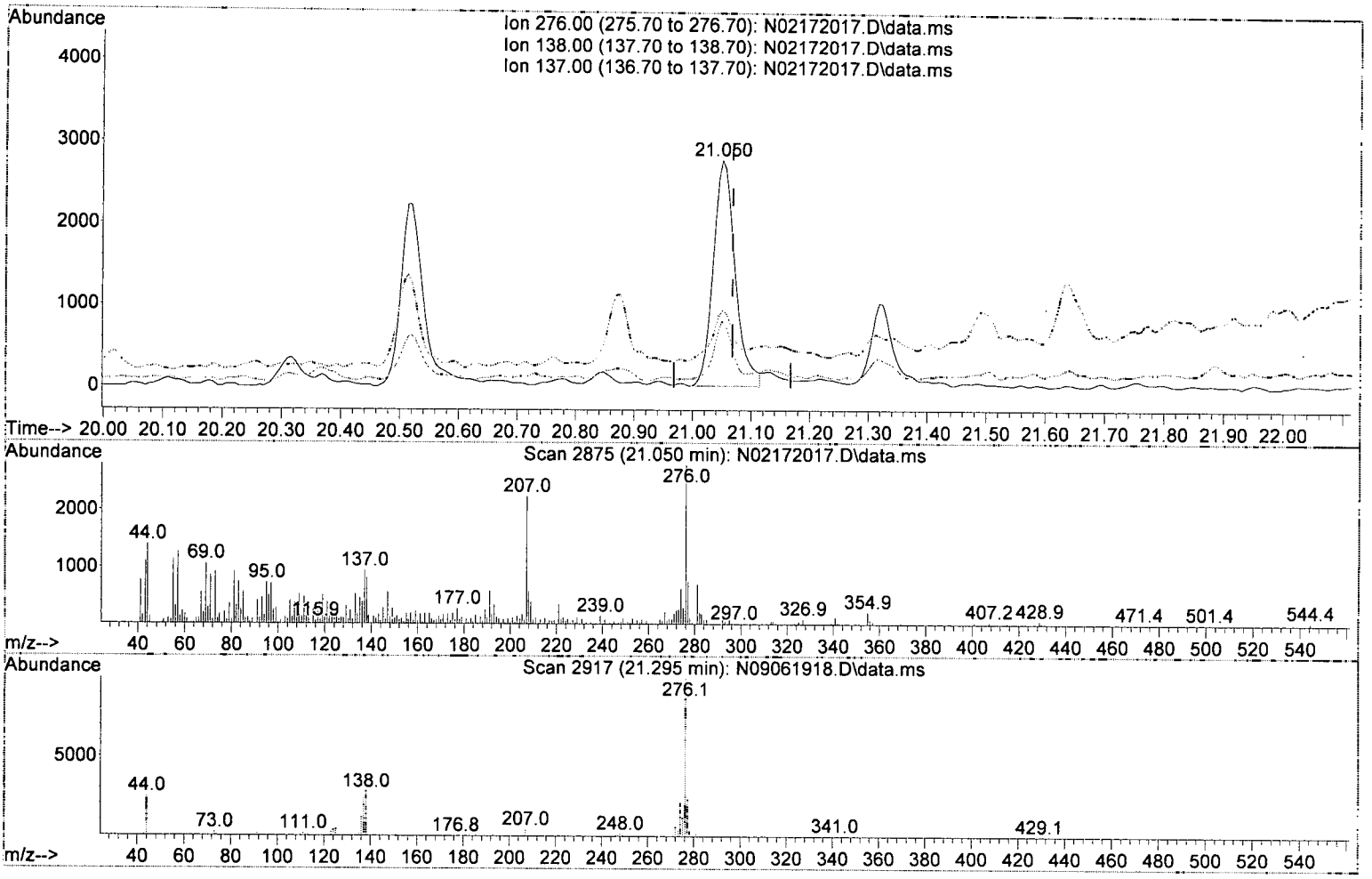
response 6049

Ion	Exp%	Act%
276.00	100.00	100.00
138.00	31.60	27.53
138.00	31.60	27.53
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B17042\
Data File : N02172017.D
Acq On : 17 Feb 2020 17:37
Operator : JK/ AMS/ DTH
Sample : A0B0411-03
Misc : 1x, 8270 PAH ONLY
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 17 19:05:32 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02172017.D\data.ms

(40) Benzo(g,h,i)perylene (T)

21.050min (-0.017) 3.28 ng/ml

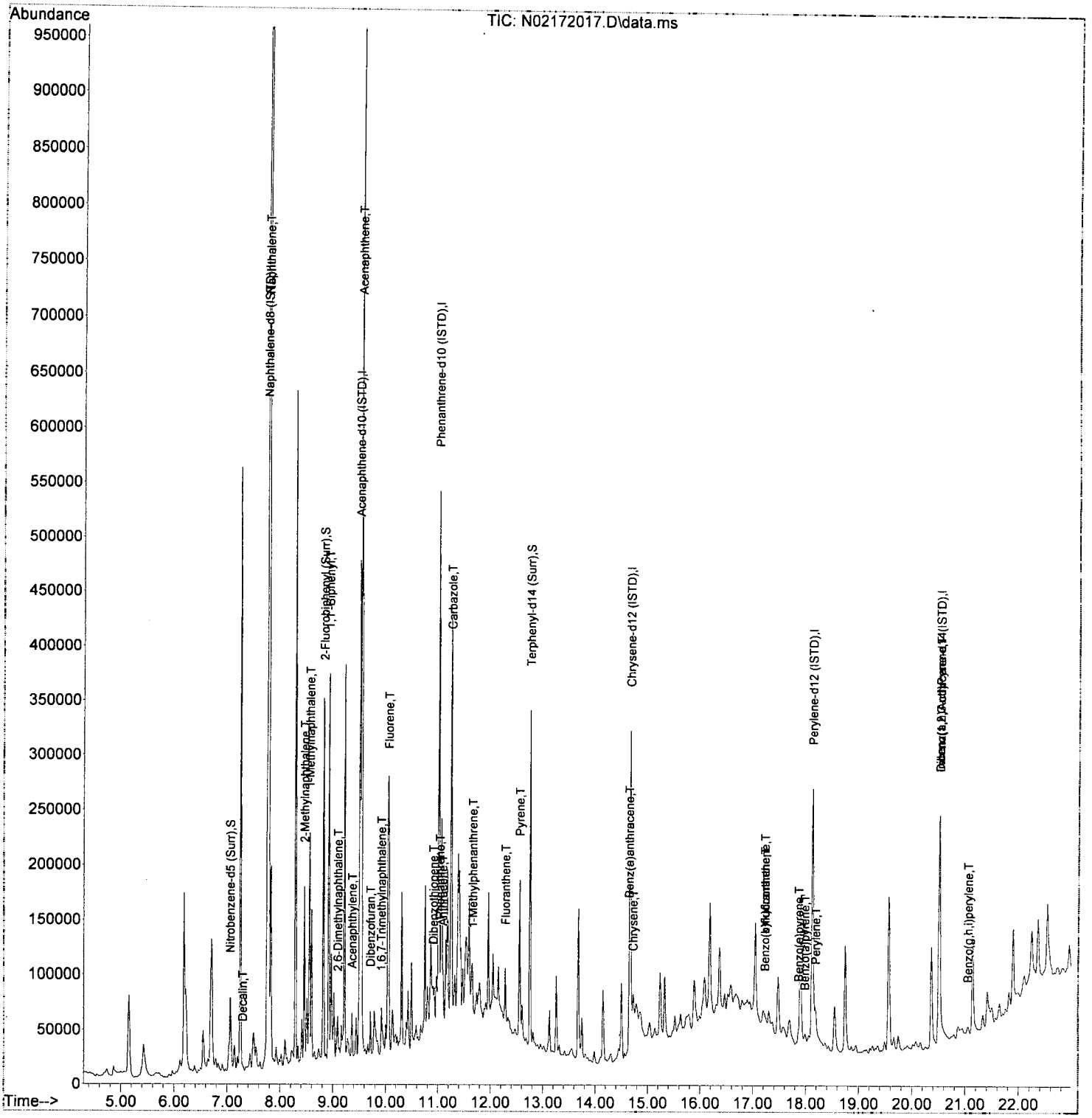
J

response 7282

Ion	Exp%	Act%
276.00	100.00	100.00
138.00	21.00	29.17
137.00	18.60	33.86
0.00	0.00	0.00

Data Path : U:\data\2020-02\0B17042\
Data File : N02172017.D
Acq On : 17 Feb 2020 17:37
Operator : JK/ AMS/ DTH
Sample : A0B0411-03
Misc : 1x, 8270 PAH ONLY
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 17 19:05:32 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



No Name Entered Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-02\0B17042\
Data File : N02172018.D
Acq On : 17 Feb 2020 18:09
Operator : JK/ AMS/ DTH
Sample : A0B0411-05
Misc : 1x, 8270 PAH ONLY
ALS Vial : 13 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 17 19:05:41 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14

DMK 2/17/20

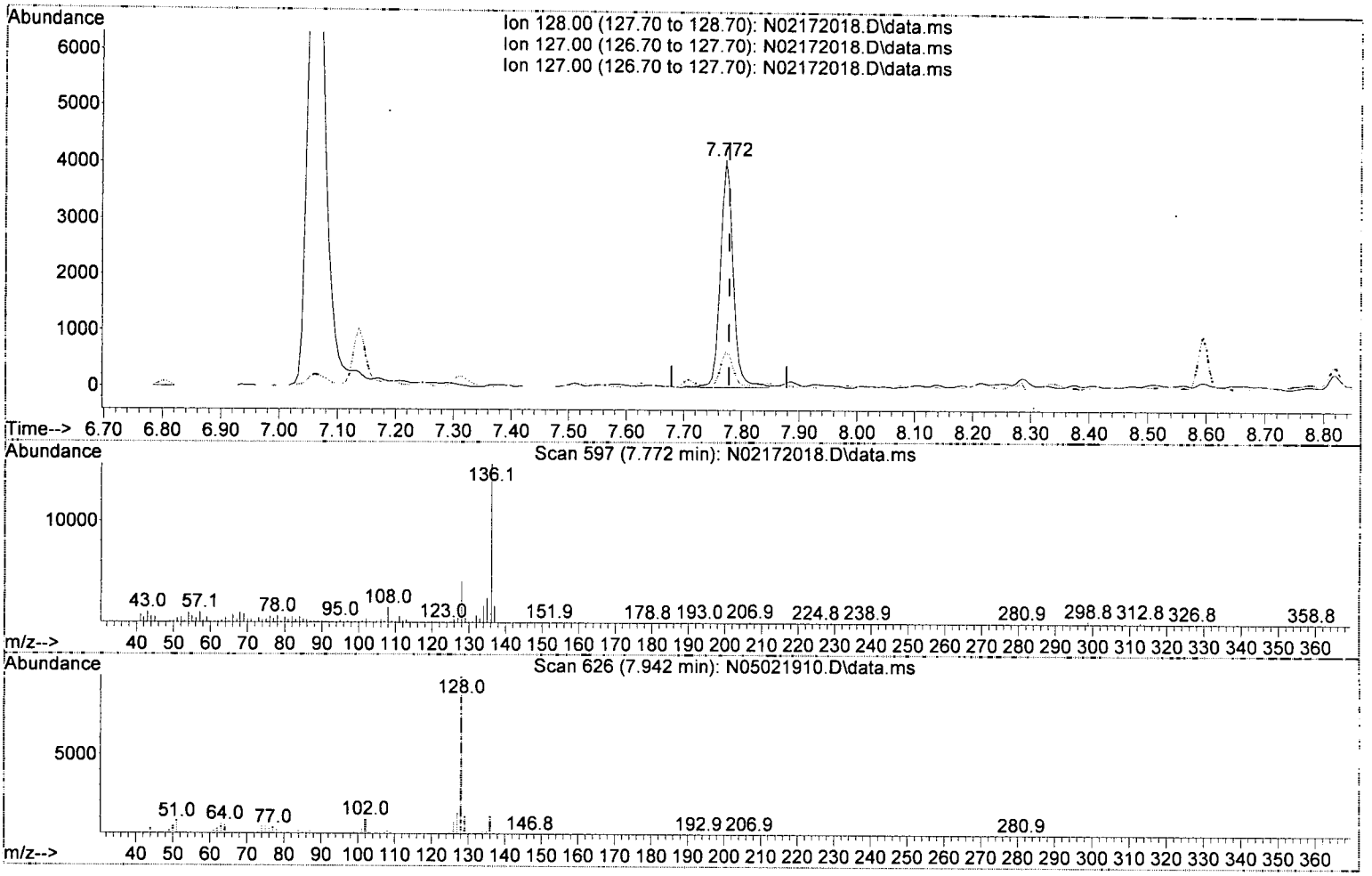
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.755	136	191404	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.503	162	133153	100.00	ng/ml	-0.01
17) Phenanthrene-d10 (ISTD)	11.013	188	240815	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.662	240	200651	100.00	ng/ml	-0.02
29) Perylene-d12 (ISTD)	18.124	264	188754	100.00	ng/ml	-0.02
37) Dibenz(a,h)Anthrcene-d...	20.508	292	148322	100.00	ng/ml	-0.02
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.061	82	39935	62.79	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.821	172	138352	69.65	ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	9.352	160	1812	-1.00	ng/ml	0.00
26) Terphenyl-d14 (Surr)	12.756	244	173399	82.17	ng/ml	-0.01
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml	
Target Compounds						Qvalue
3) Decalin	7.294	138	78	0.55	ng/ml	86
4) Naphthalene	7.772	128	6304	(2.99)	ng/ml	92
5) 2-Methylnaphthalene	8.460	142	1660	0.93	ng/ml	96
6) 1-Methylnaphthalene	8.559	142	1576	0.88	ng/ml	94
7) 1,1'-Biphenyl	8.921	154	1205	0.50	ng/ml	96
8) 2,6-Dimethylnaphthalene	9.084	156	1106	0.63	ng/ml	87
12) Acenaphthylene	9.364	152	2791	0.97	ng/ml	96
13) Acenaphthene	9.538	153	5380	(2.84)	ng/ml	97
14) Dibenzofuran	9.713	168	928	N.D.		
15) 1,6,7-Trimethylnaphtha...	9.923	170	882	0.56	ng/ml#	1
16) Fluorene	10.063	166	2838	1.46	ng/ml	94
18) Dibenzothiopene	10.908	184	2764	1.10	ng/ml	96
19) Phenanthrene	11.036	178	16075	5.70	ng/ml	98
20) Anthracene	11.089	178	3160	1.21	ng/ml	98
21) Carbazole	11.258	167	900	0.42	ng/ml	74
22) 1-Methylphenanthrene	11.660	192	1516	0.77	ng/ml	83
23) Fluoranthene	12.278	202	25889	19.12	ng/ml	97
25) Pyrene	12.558	202	34681	11.06	ng/ml	99
27) Benz(a)anthracene	14.638	228	6610	(2.84)	ng/ml	76
28) Chrysene	14.720	228	8259	(3.75)	ng/ml	92
30) Benzo(b)fluoranthene	17.221	252	7250	(3.33)	ng/ml	96
31) Benzo(k)fluoranthene	~~17.221~~	~~252~~	~~9031~~	~~4.21~~	~~ng/ml~~	~~95~~ MI ND
32) Benzo(b+k)fluoranthene	17.221	252	10530	4.73	ng/ml	95
34) Benzo(e)pyrene	17.862	252	5086	2.31	ng/ml	99
35) Benzo(a)pyrene	17.984	252	5536	(2.97)	ng/ml	97
36) Perylene	18.182	252	2618	1.14	ng/ml	95
38) Indeno(1,2,3-cd)Pyrene	20.514	276	4663	(2.55)	ng/ml	87
39) Dibenz(a,h)anthracene	20.578	278	571	N.D.		
40) Benzo(g,h,i)perylene	21.050	276	5459	(2.81)	ng/ml	82

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B17042\
Data File : N02172018.D
Acq On : 17 Feb 2020 18:09
Operator : JK/ AMS/ DTH
Sample : A0B0411-05
Misc : 1x, 8270 PAH ONLY
ALS Vial : 13 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 17 19:05:41 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02172018.D\data.ms

(4) Naphthalene (T)

7.772min (-0.006) 2.99 ng/ml J

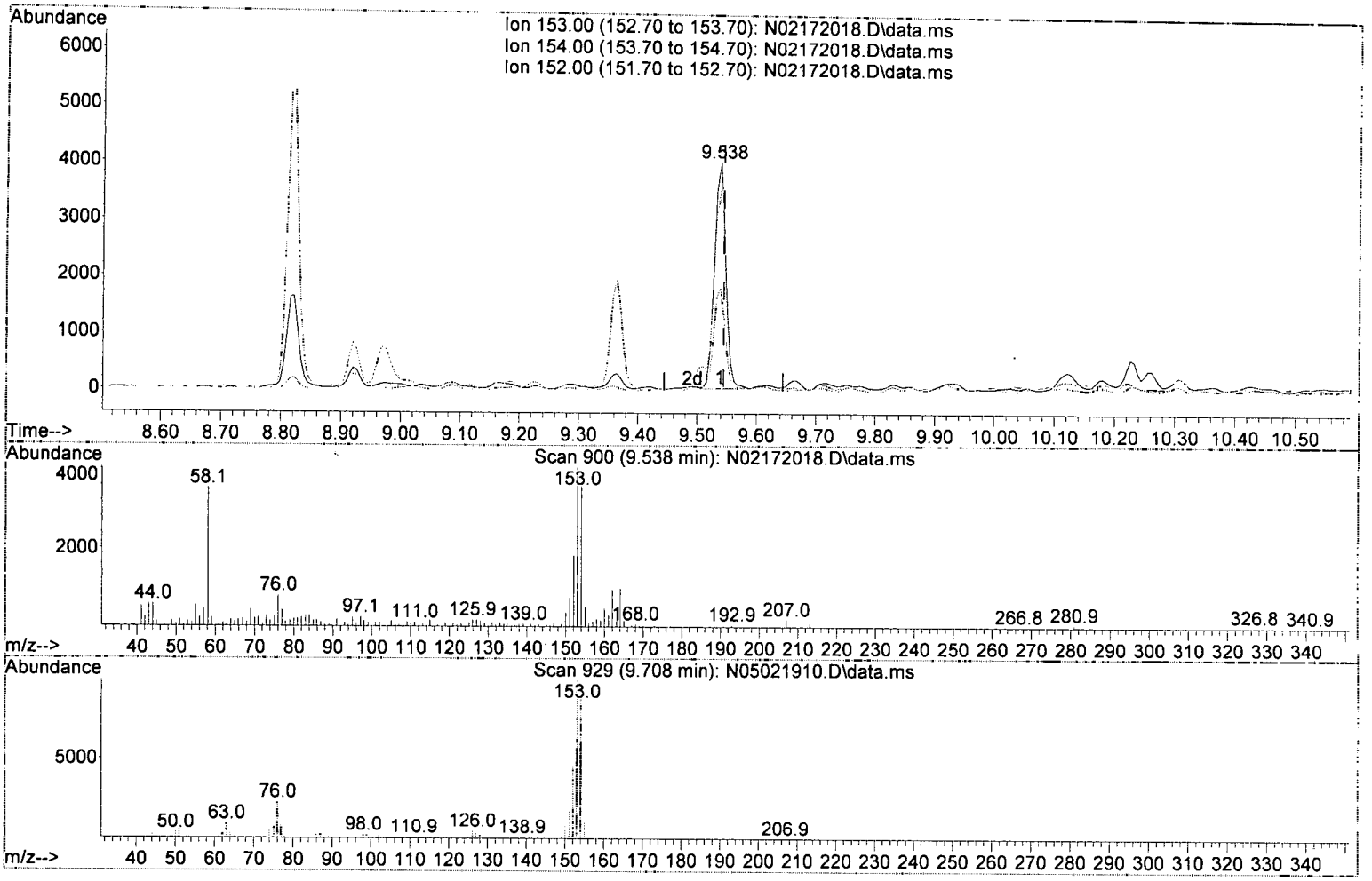
response 6304

Ion	Exp%	Act%
128.00	100.00	100.00
127.00	12.60	15.81
127.00	12.60	15.81
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B17042\
Data File : N02172018.D
Acq On : 17 Feb 2020 18:09
Operator : JK/ AMS/ DTH
Sample : A0B0411-05
Misc : 1x, 8270 PAH ONLY
ALS Vial : 13 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 17 19:05:41 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02172018.D\data.ms

(13) Acenaphthene (T)

9.538min (-0.006) 2.84 ng/ml J

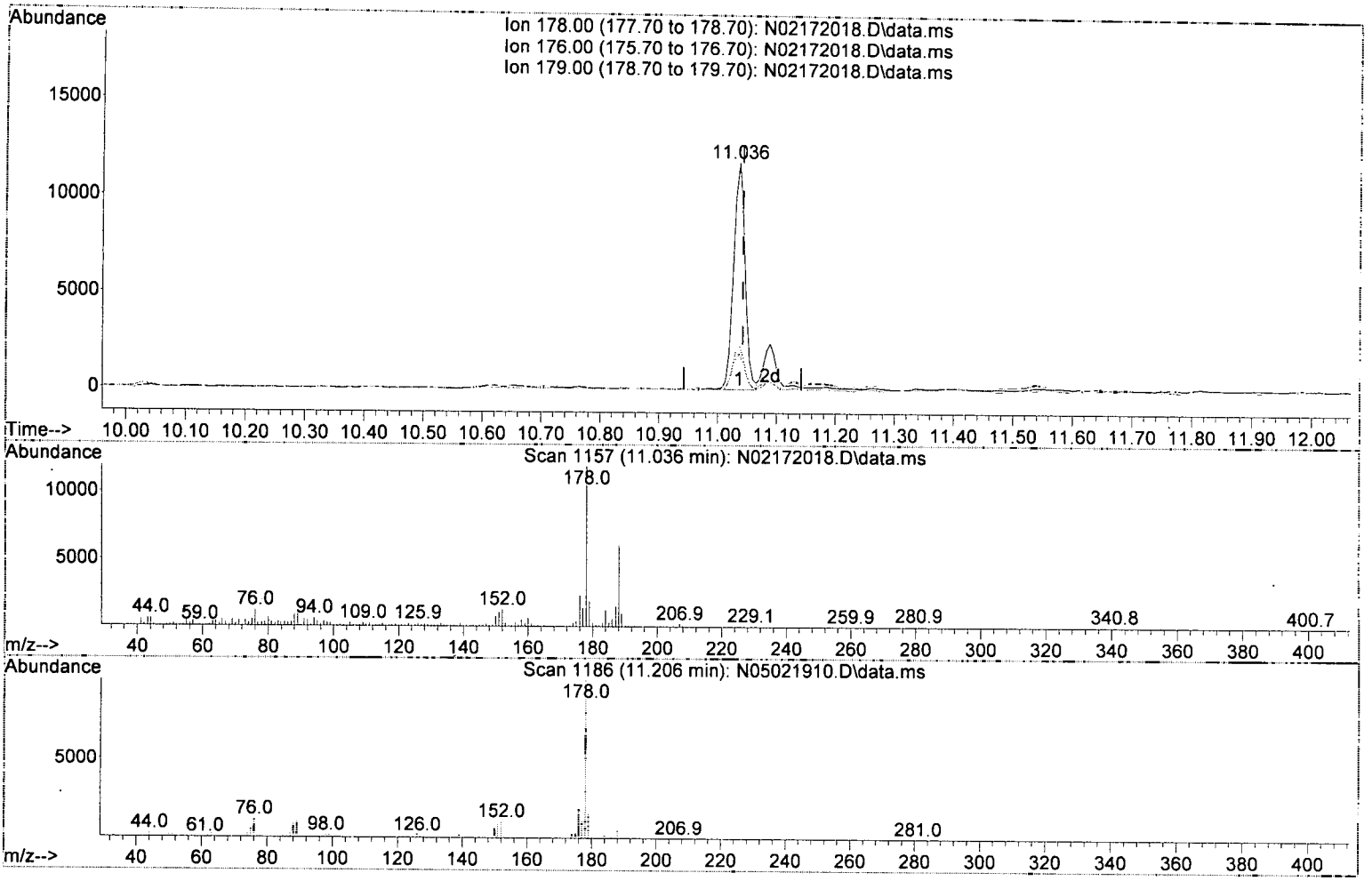
response 5380

Ion	Exp%	Act%
153.00	100.00	100.00
154.00	90.70	88.29
152.00	46.80	45.07
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B17042\
Data File : N02172018.D
Acq On : 17 Feb 2020 18:09
Operator : JK/ AMS/ DTH
Sample : A0B0411-05
Misc : 1x, 8270 PAH ONLY
ALS Vial : 13 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 17 19:05:41 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02172018.D\data.ms

(19) Phenanthrene (T)

11.036min (-0.006) 5.70 ng/ml

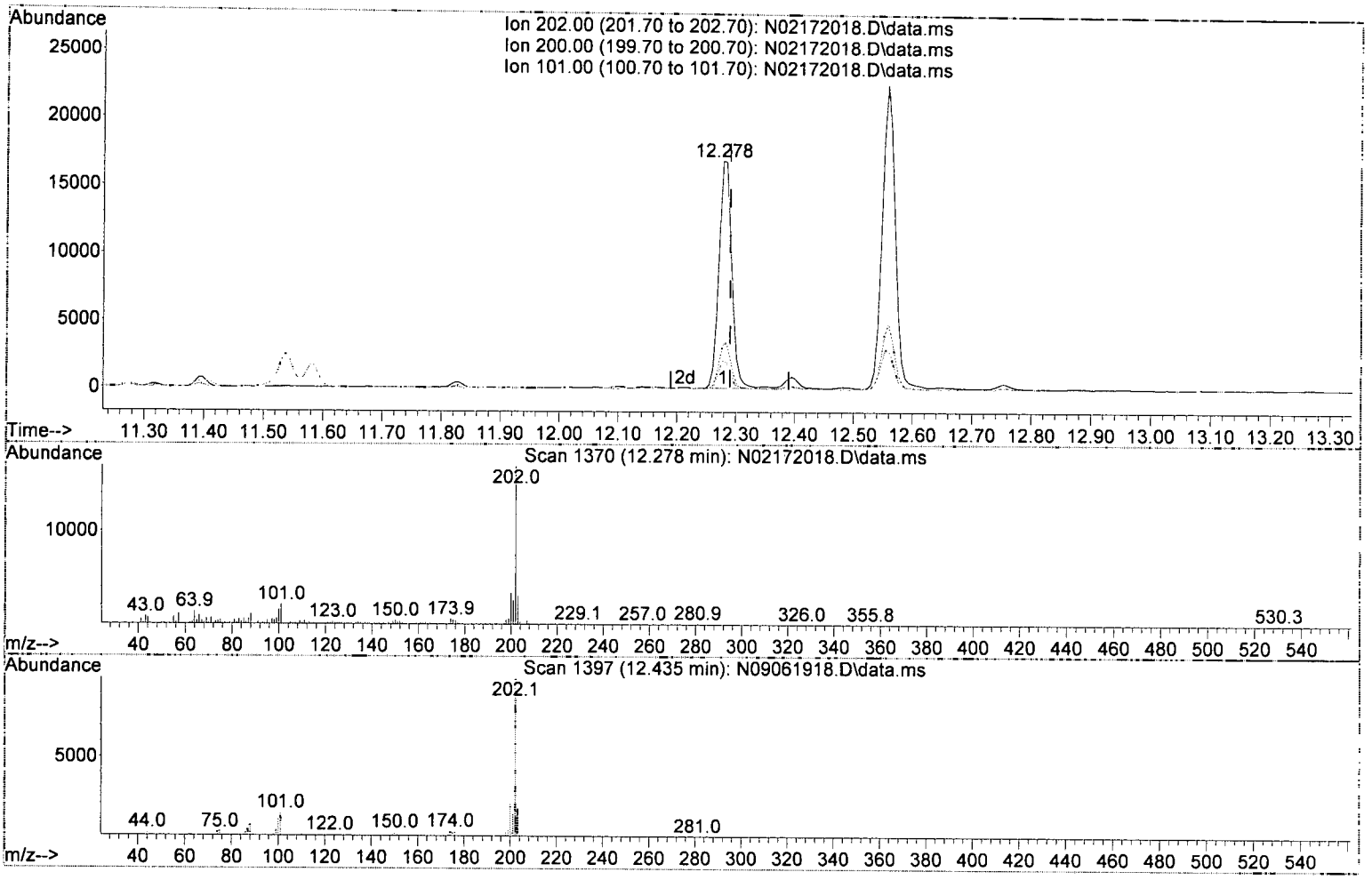
response 16075

Ion	Exp%	Act%
178.00	100.00	100.00
176.00	19.00	19.49
179.00	15.10	16.01
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B17042\
Data File : N02172018.D
Acq On : 17 Feb 2020 18:09
Operator : JK/ AMS/ DTH
Sample : A0B0411-05
Misc : 1x, 8270 PAH ONLY
ALS Vial : 13 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 17 19:05:41 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02172018.D\data.ms

(23) Fluoranthene (T)

12.278min (-0.012) 9.12 ng/ml

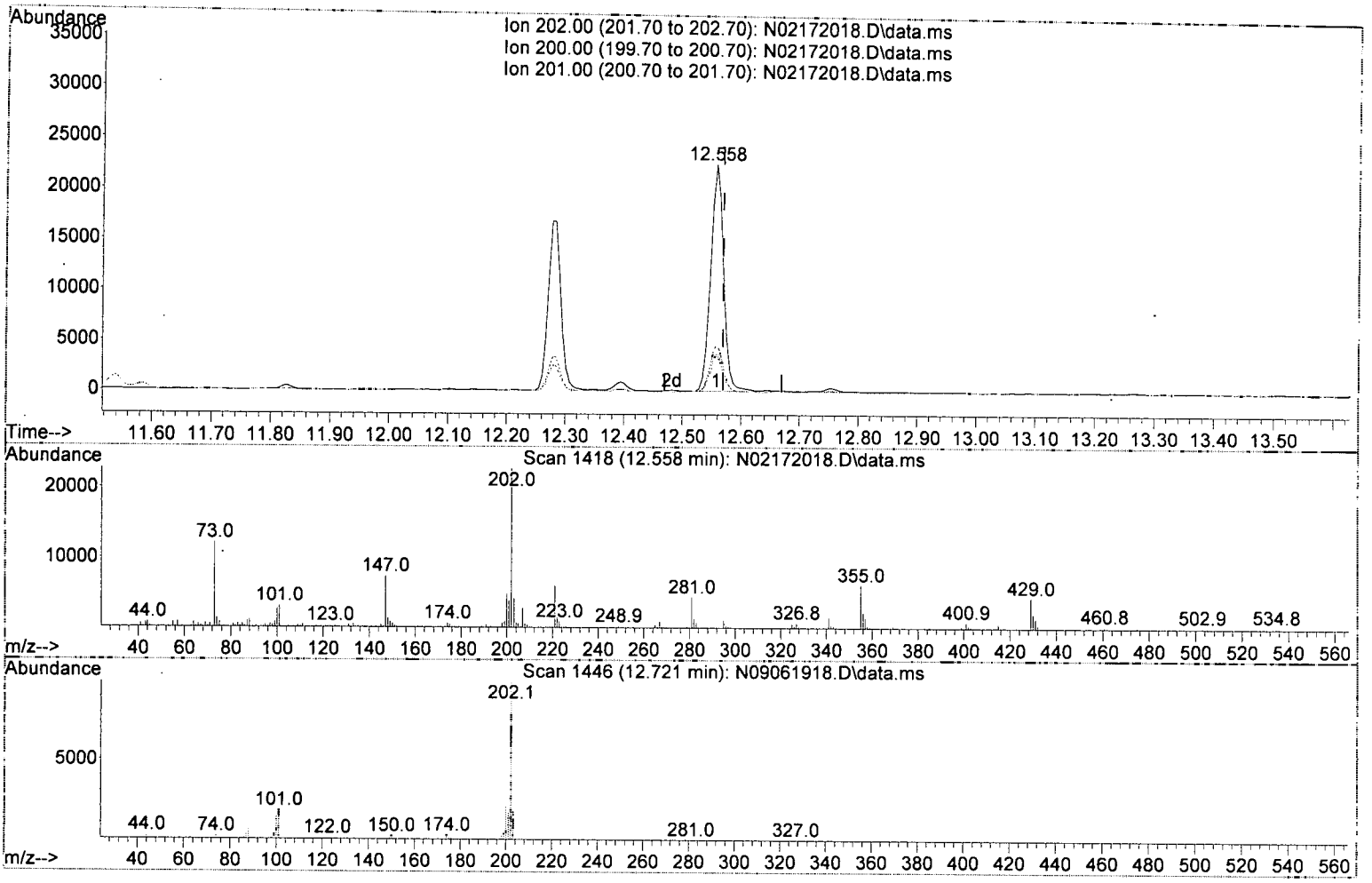
response 25889

Ion	Exp%	Act%
202.00	100.00	100.00
200.00	19.70	20.02
101.00	15.30	12.61
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B17042\
Data File : N02172018.D
Acq On : 17 Feb 2020 18:09
Operator : JK/ AMS/ DTH
Sample : A0B0411-05
Misc : 1x, 8270 PAH ONLY
ALS Vial : 13 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 17 19:05:41 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02172018.D\data.ms

(25) Pyrene (T)

12.558min (-0.012) 11.06 ng/ml

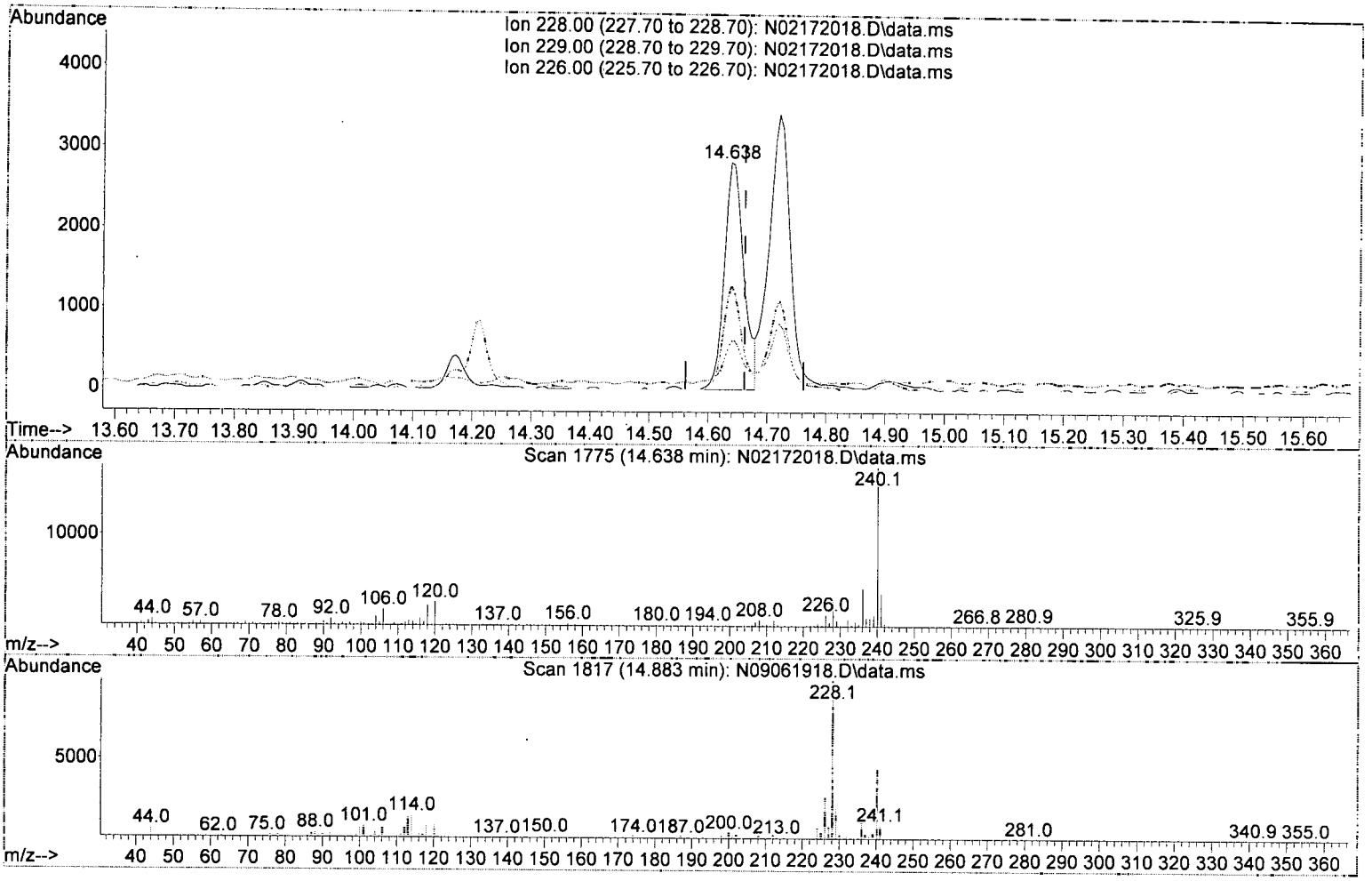
response 34681

Ion	Exp%	Act%
202.00	100.00	100.00
200.00	20.70	21.30
201.00	16.80	16.79
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B17042\
Data File : N02172018.D
Acq On : 17 Feb 2020 18:09
Operator : JK/ AMS/ DTH
Sample : A0B0411-05
Misc : 1x, 8270 PAH ONLY
ALS Vial : 13 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 17 19:05:41 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02172018.D\data.ms

(27) Benz(a)anthracene (T)

14.638min (-0.024) 2.84 ng/ml

response 6610

Ion	Exp%	Act%
228.00	100.00	100.00
229.00	19.40	21.35
226.00	26.20	45.58
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B17042\
Data File : N02172018.D
Acq On : 17 Feb 2020 18:09
Operator : JK/ AMS/ DTH
Sample : A0B0411-05
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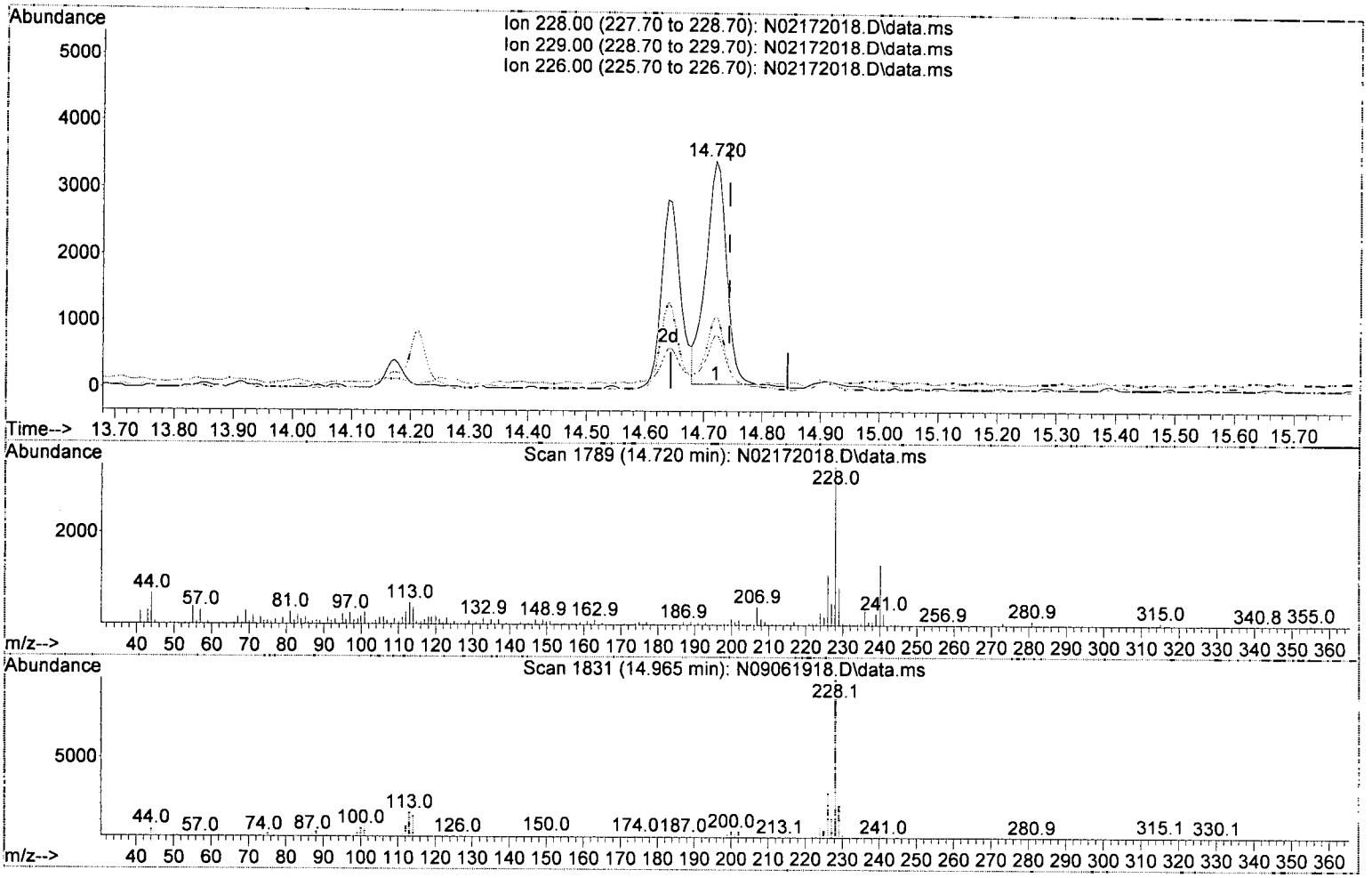
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02172018.D\data.ms

(28) Chrysene (T)

14.720min (-0.024) 3.75 ng/ml J

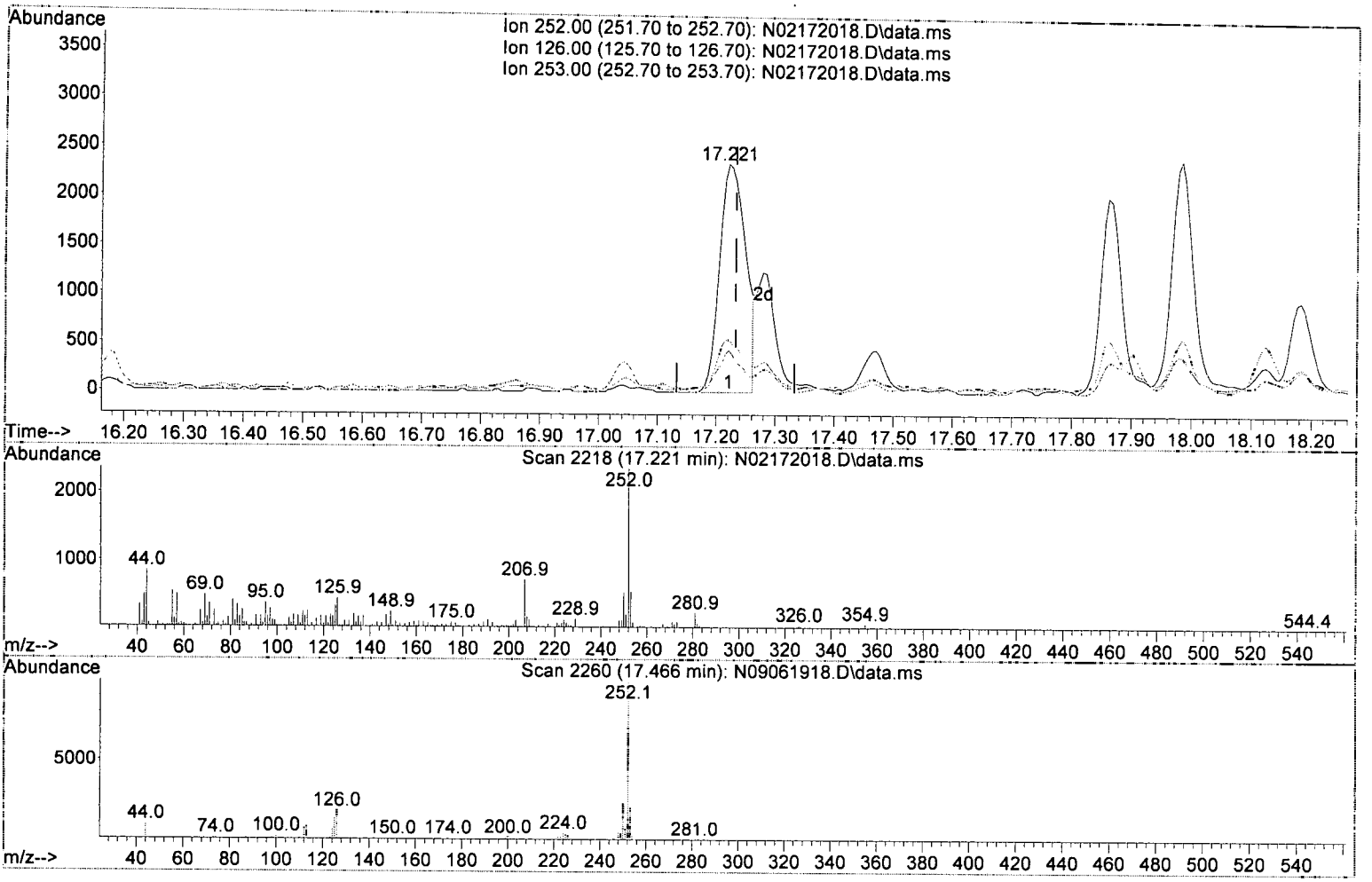
response 8259

Ion	Exp%	Act%
228.00	100.00	100.00
229.00	19.60	24.17
226.00	28.60	32.29
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B17042\
Data File : N02172018.D
Acq On : 17 Feb 2020 18:09
Operator : JK/ AMS/ DTH
Sample : A0B0411-05
Misc : 1x, 8270 PAH ONLY
ALS Vial : 13 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 17 19:05:41 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02172018.D\data.ms

(30) Benzo(b)fluoranthene (T)

17.221min (-0.012) 3.33 ng/ml J

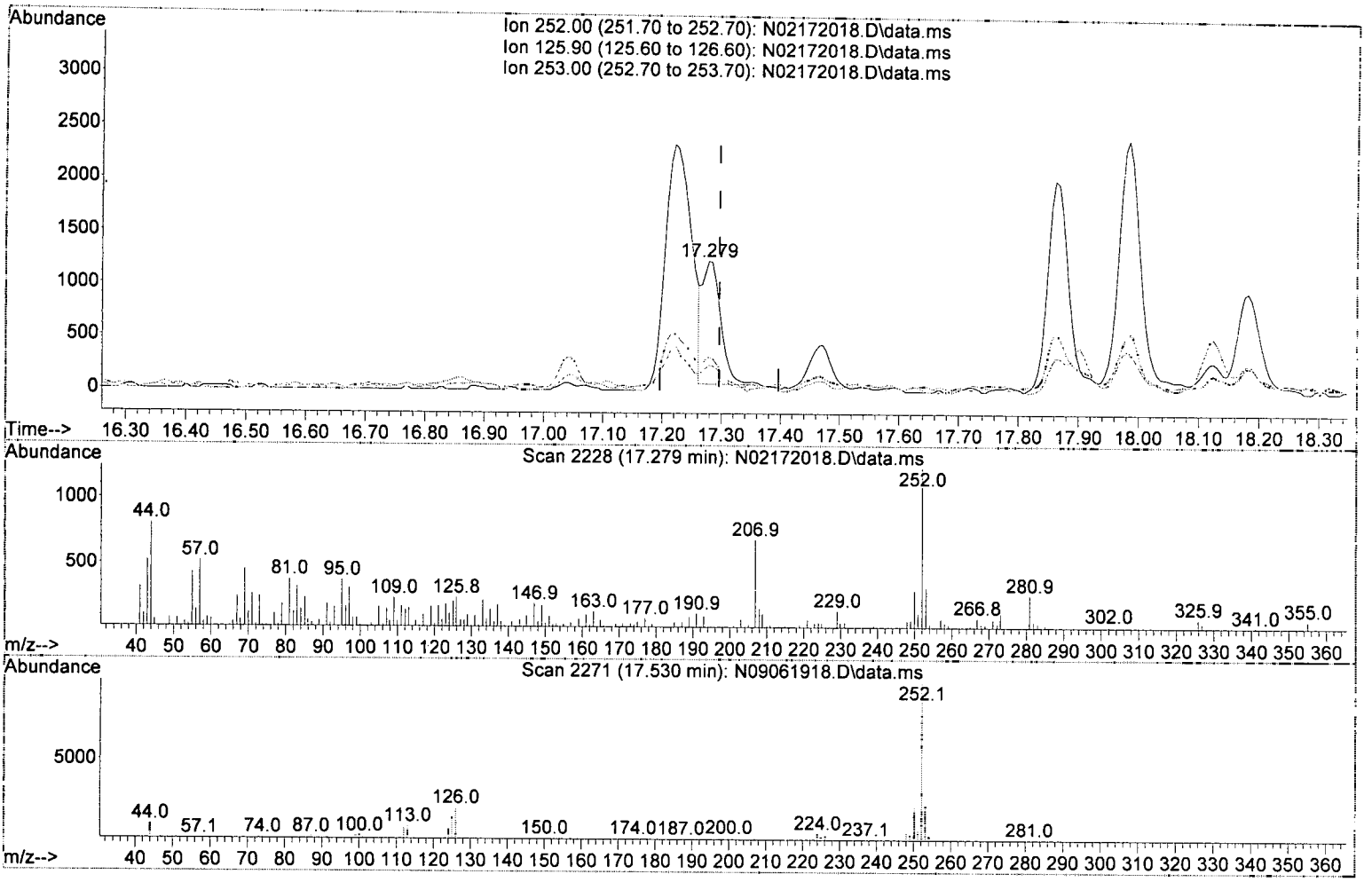
response 7250

Ion	Exp%	Act%
252.00	100.00	100.00
126.00	20.00	18.55
253.00	21.10	23.14
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B17042\
Data File : N02172018.D
Acq On : 17 Feb 2020 18:09
Operator : JK/ AMS/ DTH
Sample : A0B0411-05
Misc : 1x, 8270 PAH ONLY
ALS Vial : 13 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 17 19:05:41 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02172018.D\data.ms

(31) Benzo(k)fluoranthene (T)

17.279min (-0.018) 1.17 ng/ml ND

response 2499

Ion	Exp%	Act%
252.00	100.00	100.00
125.90	22.10	19.39
253.00	21.50	25.85
0.00	0.00	0.00

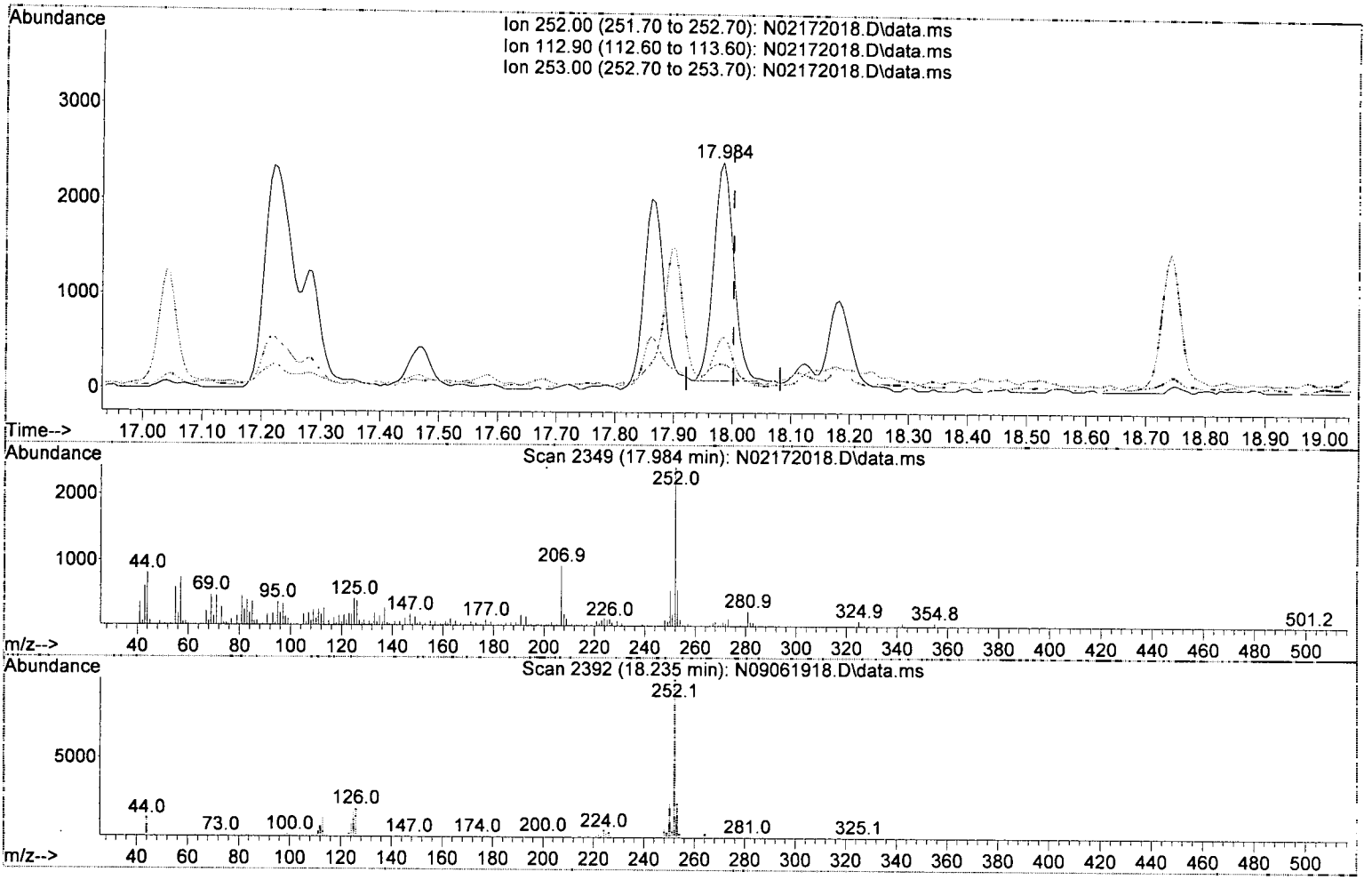
JMH 2/17/20

V

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B17042\
Data File : N02172018.D
Acq On : 17 Feb 2020 18:09
Operator : JK/ AMS/ DTH
Sample : A0B0411-05
Misc : 1x, 8270 PAH ONLY
ALS Vial : 13 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 17 19:05:41 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02172018.D\data.ms

(35) Benzo(a)pyrene (T)

17.984min (-0.018) 2.97 ng/ml J

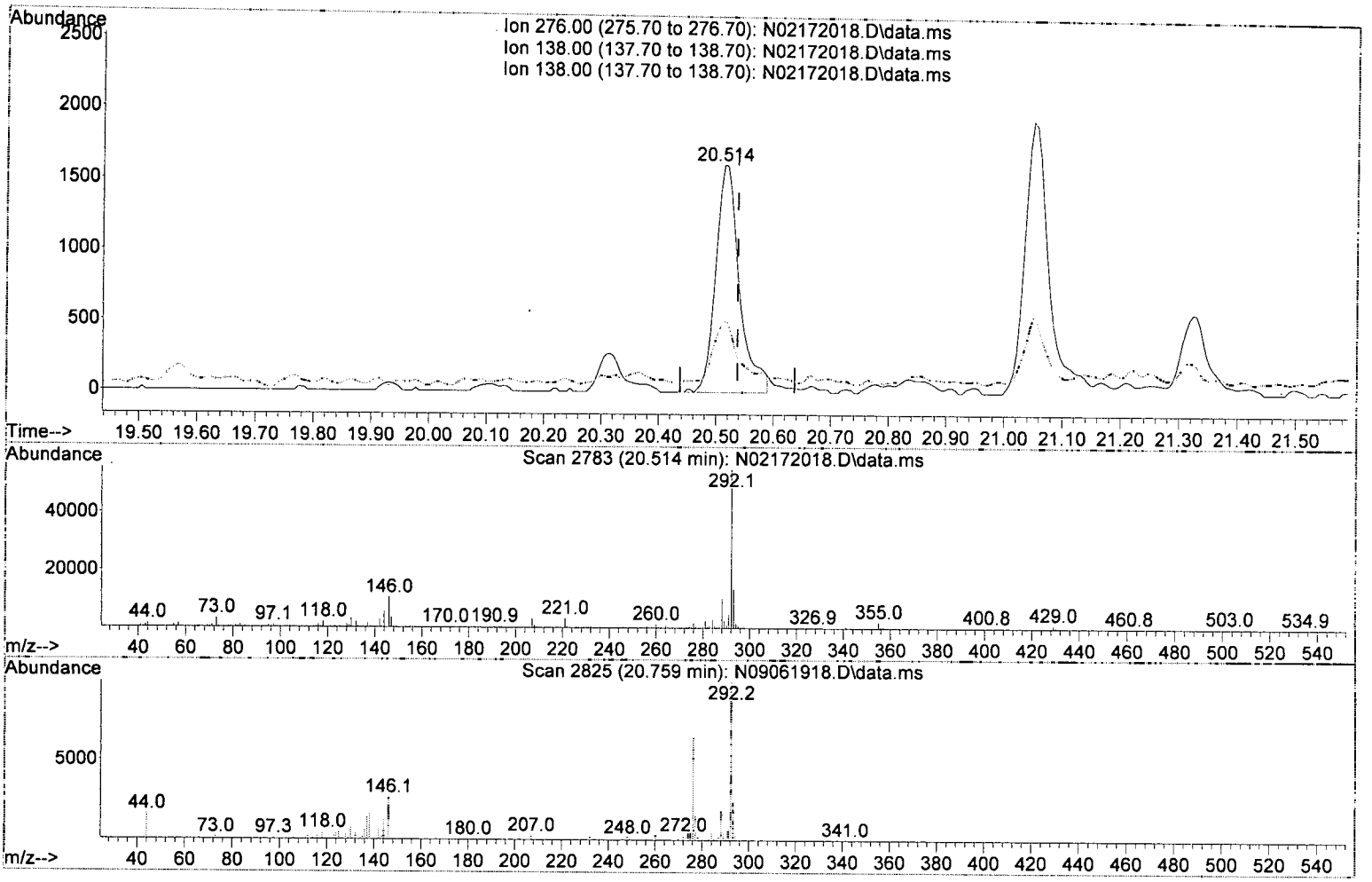
response 5536

Ion	Exp%	Act%
252.00	100.00	100.00
112.90	12.70	11.42
253.00	21.90	23.46
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B17042\
Data File : N02172018.D
Acq On : 17 Feb 2020 18:09
Operator : JK/ AMS/ DTH
Sample : A0B0411-05
Misc : 1x, 8270 PAH ONLY
ALS Vial : 13 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 17 19:05:41 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02172018.D\data.ms

(38) Indeno(1,2,3-cd)Pyrene (T)

20.514min (-0.023) 2.55 ng/ml J

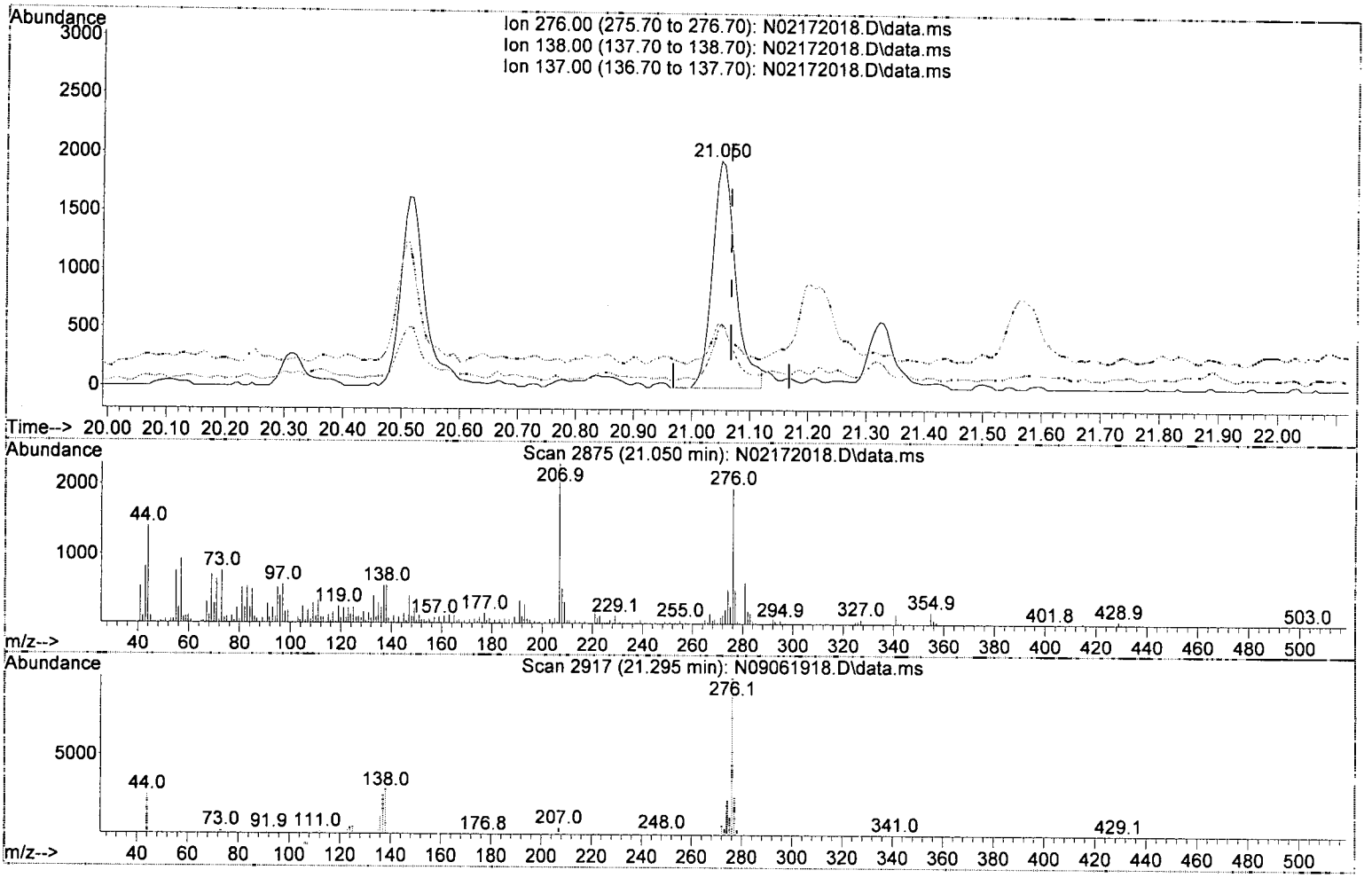
response 4663

Ion	Exp%	Act%
276.00	100.00	100.00
138.00	31.60	38.98
138.00	31.60	38.98
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B17042\
Data File : N02172018.D
Acq On : 17 Feb 2020 18:09
Operator : JK/ AMS/ DTH
Sample : A0B0411-05
Misc : 1x, 8270 PAH ONLY
ALS Vial : 13 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 17 19:05:41 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02172018.D\data.ms

(40) Benzo(g,h,i)perylene (T)

21.050min (-0.018) 2.81 ng/ml J

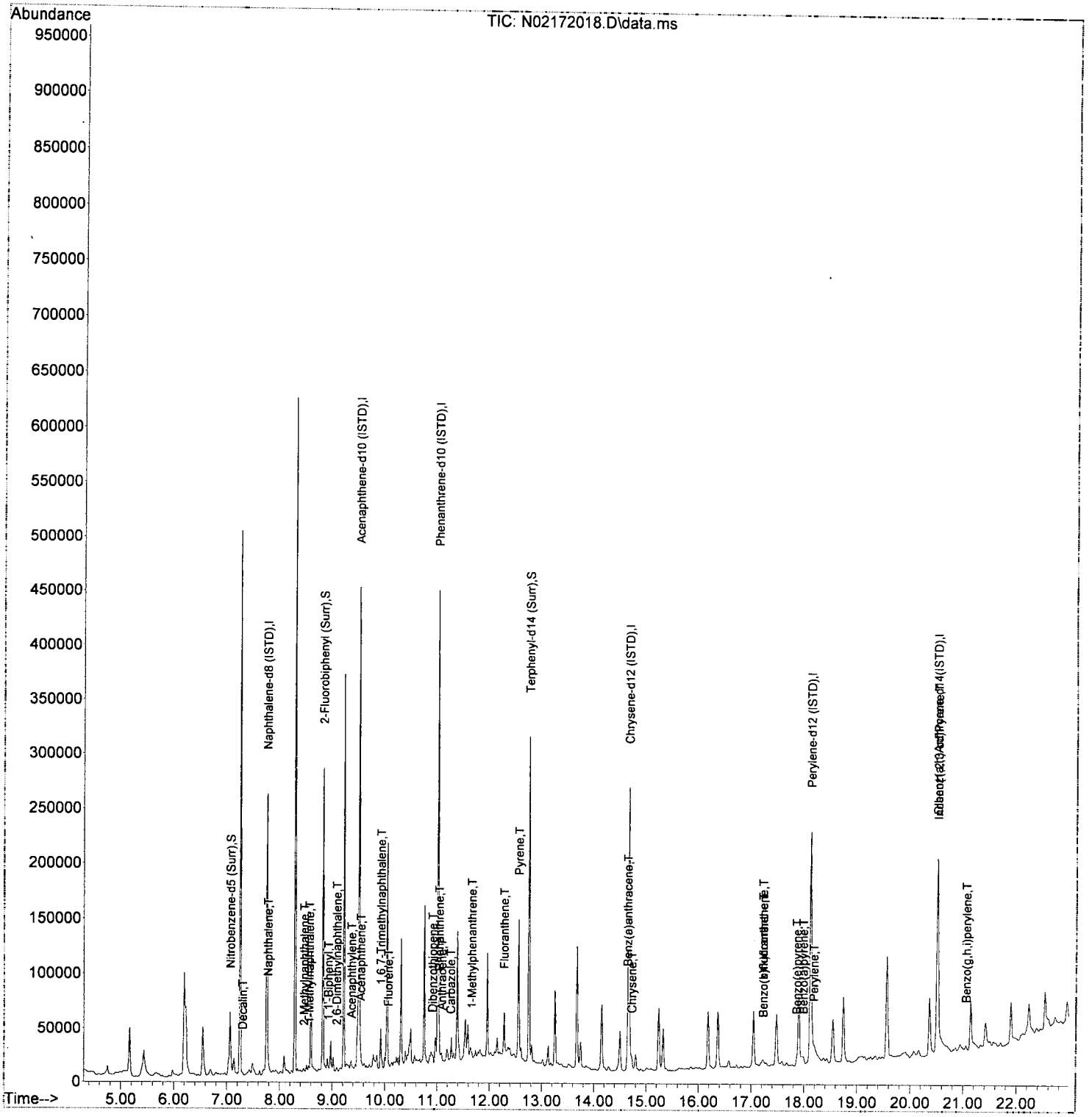
response 5459

Ion	Exp%	Act%
276.00	100.00	100.00
138.00	21.00	28.30
137.00	18.60	27.94
0.00	0.00	0.00

No Name Entered Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-02\0B17042\
Data File : N02172018.D
Acq On : 17 Feb 2020 18:09
Operator : JK/ AMS/ DTH
Sample : A0B0411-05
Misc : 1x, 8270 PAH ONLY
ALS Vial : 13 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 17 19:05:41 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



No Name Entered Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-02\0B17042\
Data File : N02172019.D
Acq On : 17 Feb 2020 19:17
Operator : JK/ AMS/ DTH
Sample : A0B0411-03RE1@50
Misc : 50x, #4
ALS Vial : 14 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

AMS 2/18/20

Quant Time: Feb 18 08:25:54 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14

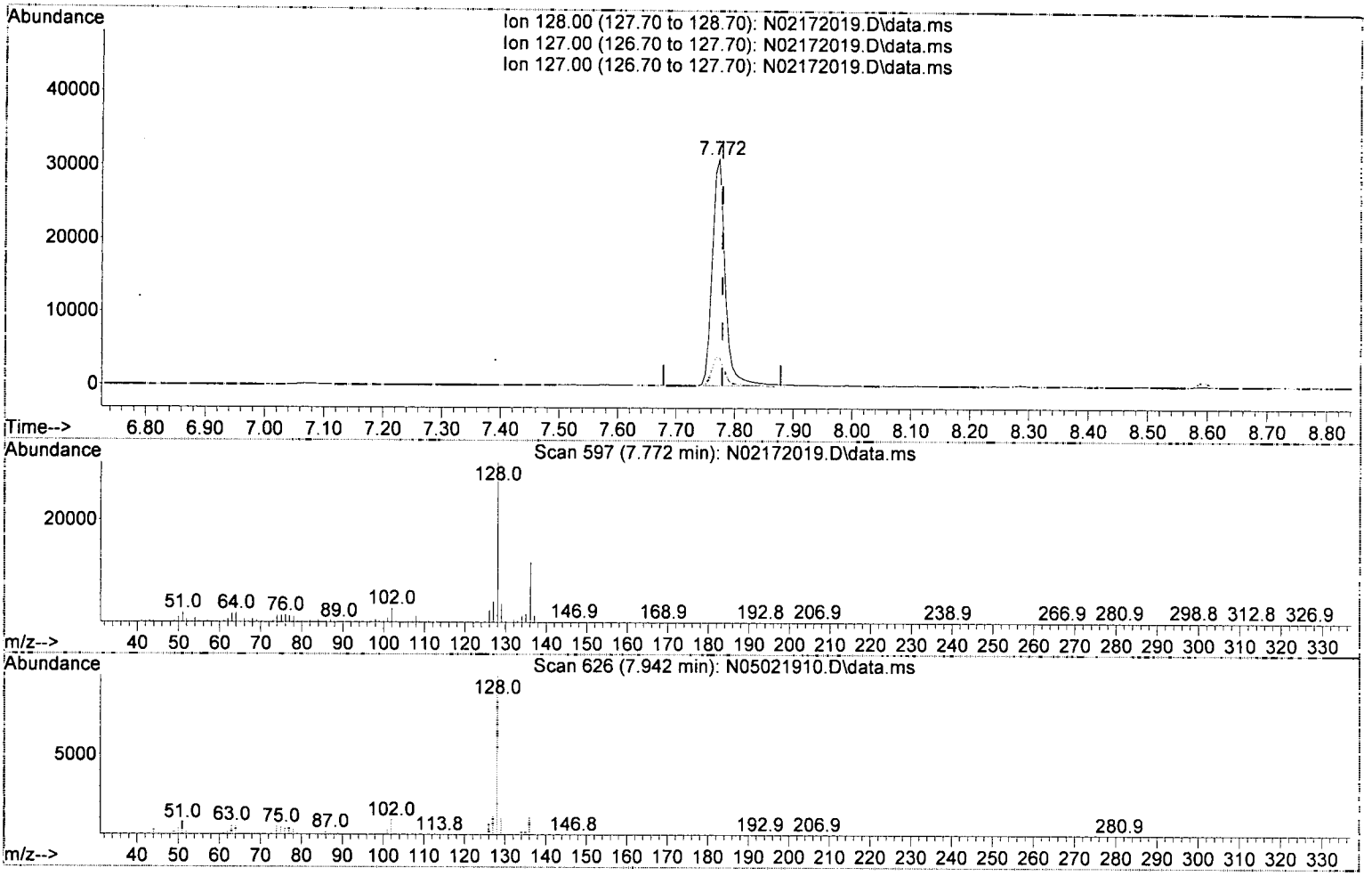
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.749	136	180288	100.00	ng/ml	-0.01
9) Acenaphthene-d10 (ISTD)	9.503	162	126434	100.00	ng/ml	-0.01
17) Phenanthrene-d10 (ISTD)	11.013	188	232891	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.668	240	179712	100.00	ng/ml	-0.02
29) Perylene-d12 (ISTD)	18.124	264	168111	100.00	ng/ml	-0.02
37) Dibenz(a,h)Anthrcene-d...	20.514	292	127322	100.00	ng/ml	-0.02
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.067	82	967	1.61	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.822	172	2994	1.59	ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	9.346	160	3529	-1.00	ng/ml	-0.01
26) Terphenyl-d14 (Surr)	12.756	244	2763	1.46	ng/ml	-0.01
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml	
Target Compounds						Qvalue
3) Decalin	0.000		0	N.D.		
4) Naphthalene	7.772	128	47624	23.95	ng/ml	99
5) 2-Methylnaphthalene	8.460	142	1199	0.71	ng/ml	93
6) 1-Methylnaphthalene	8.559	142	1610	0.96	ng/ml	96
7) 1,1'-Biphenyl	8.921	154	3123	1.38	ng/ml	97
8) 2,6-Dimethylnaphthalene	9.090	156	231	N.D.		
12) Acenaphthylene	9.364	152	761	N.D.		
13) Acenaphthene	9.538	153	6900	3.84	ng/ml	98
14) Dibenzofuran	9.719	168	413	N.D.		
15) 1,6,7-Trimethylnaphtha...	0.000		0	N.D.		
16) Fluorene	10.063	166	1476	0.80	ng/ml	88
18) Dibenzothiopene	10.908	184	250	N.D.		
19) Phenanthrene	11.036	178	667	N.D.		
20) Anthracene	11.089	178	106	N.D.		
21) Carbazole	11.264	167	1231	0.60	ng/ml	95
22) 1-Methylphenanthrene	11.660	192	60	N.D.		
23) Fluoranthene	12.284	202	571	N.D.		
25) Pyrene	12.563	202	776	N.D.		
27) Benz(a)anthracene	14.662	228	569	N.D.		
28) Chrysene	14.720	228	206	N.D.		
30) Benzo(b)fluoranthene	17.232	252	132	N.D.		
31) Benzo(k)fluoranthene	17.232	252	132	N.D.		
32) Benzo(b+k)fluoranthene	17.232	252	132	N.D.		
34) Benzo(e)pyrene	17.862	252	56	N.D.		
35) Benzo(a)pyrene	17.990	252	108	N.D.		
36) Perylene	18.182	252	418	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	21.062	276	73	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B17042\
Data File : N02172019.D
Acq On : 17 Feb 2020 19:17
Operator : JK/ AMS/ DTH
Sample : A0B0411-03RE1@50
Misc : 50x, #4
ALS Vial : 14 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 18 08:25:54 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02172019.D\data.ms

(4) Naphthalene (T)

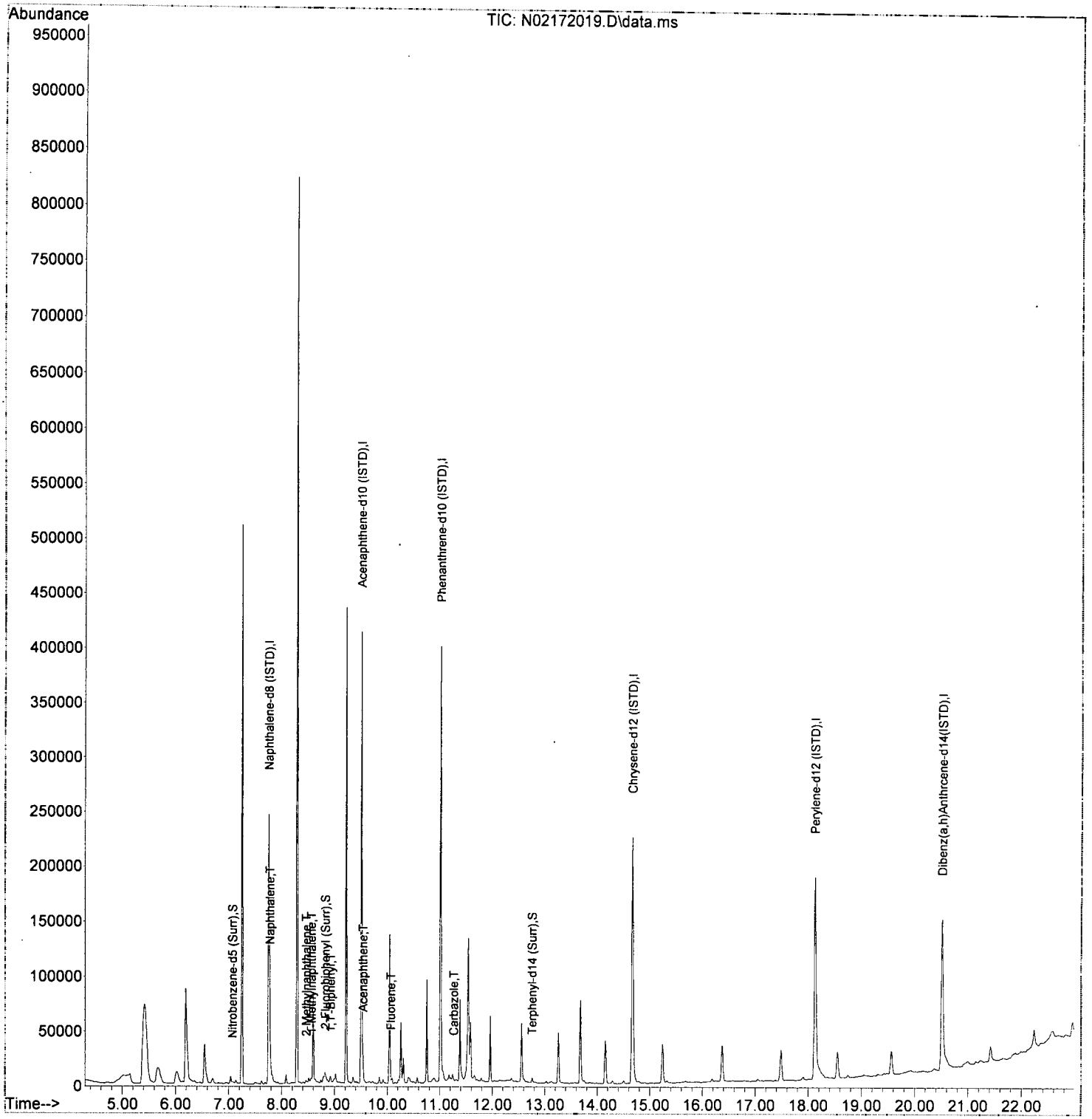
7.772min (-0.006) 23.95 ng/ml

response 47624

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

Data Path : U:\data\2020-02\0B17042\
Data File : N02172019.D
Acq On : 17 Feb 2020 19:17
Operator : JK/ AMS/ DTH
Sample : A0B0411-03RE1@50
Misc : 50x, #4
ALS Vial : 14 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 18 08:25:54 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



APEX LABORATORIES, LLC
6700 SW Sandburg St. Tigard OR 97223 phone 503-718-2323

Semivolatile Organic Compounds (PAHs) by EPA 8270D
Calibration Data

Sequence 9I06028 (Cal ID A9I1001) SV-GCMS14

ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence:	9I06028	Instrument:	SV-GCMS14
Date:	09/06/19 15:37	Calibration:	A9I1001

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
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: 9/10/19

Data Reviewed By: 9/11/19

Comments:

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

A9I1001
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

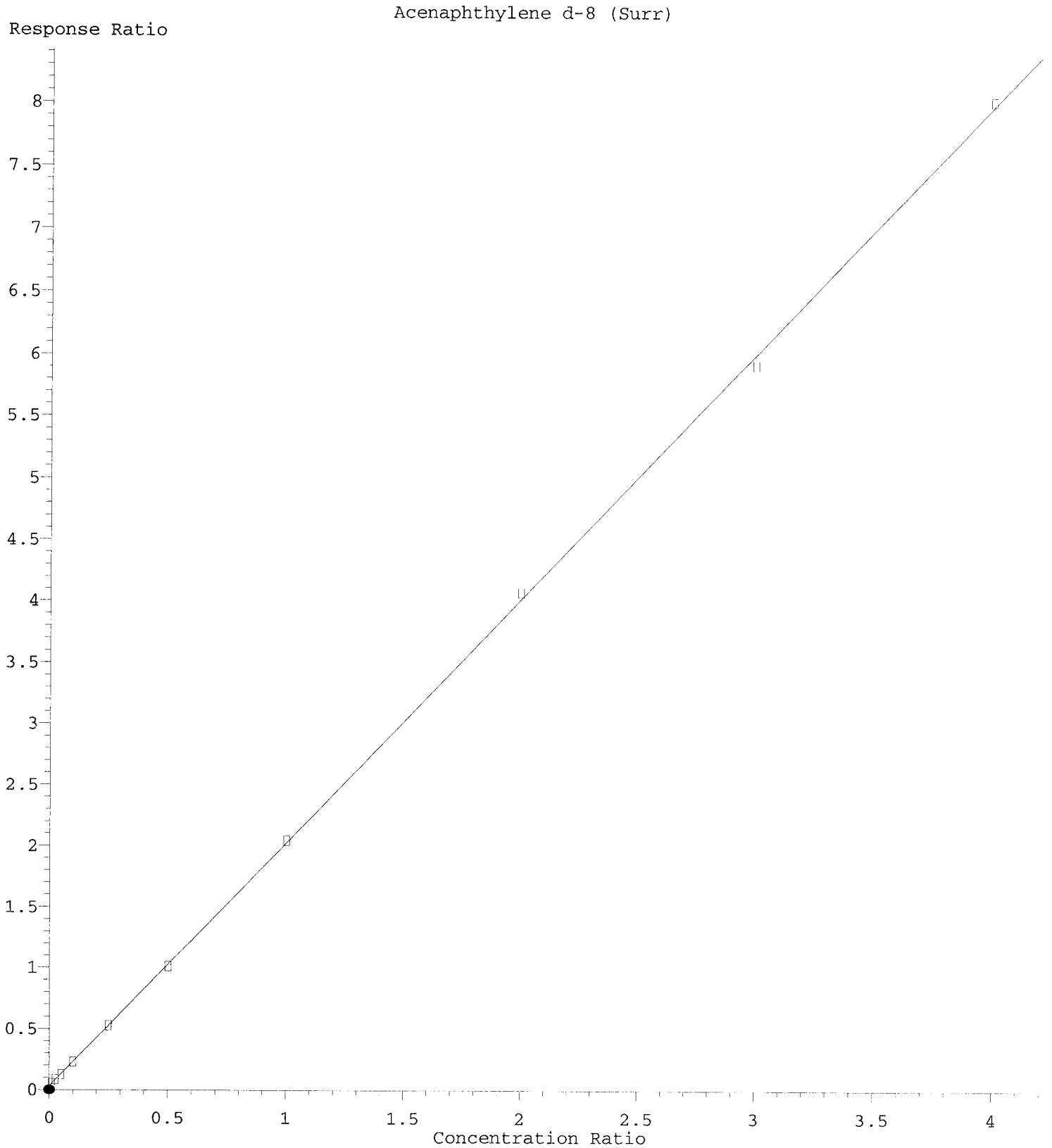
9/9/19

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)Anthrcene-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

SV14_090619_PAH.M Mon Sep 09 15:05:30 2019

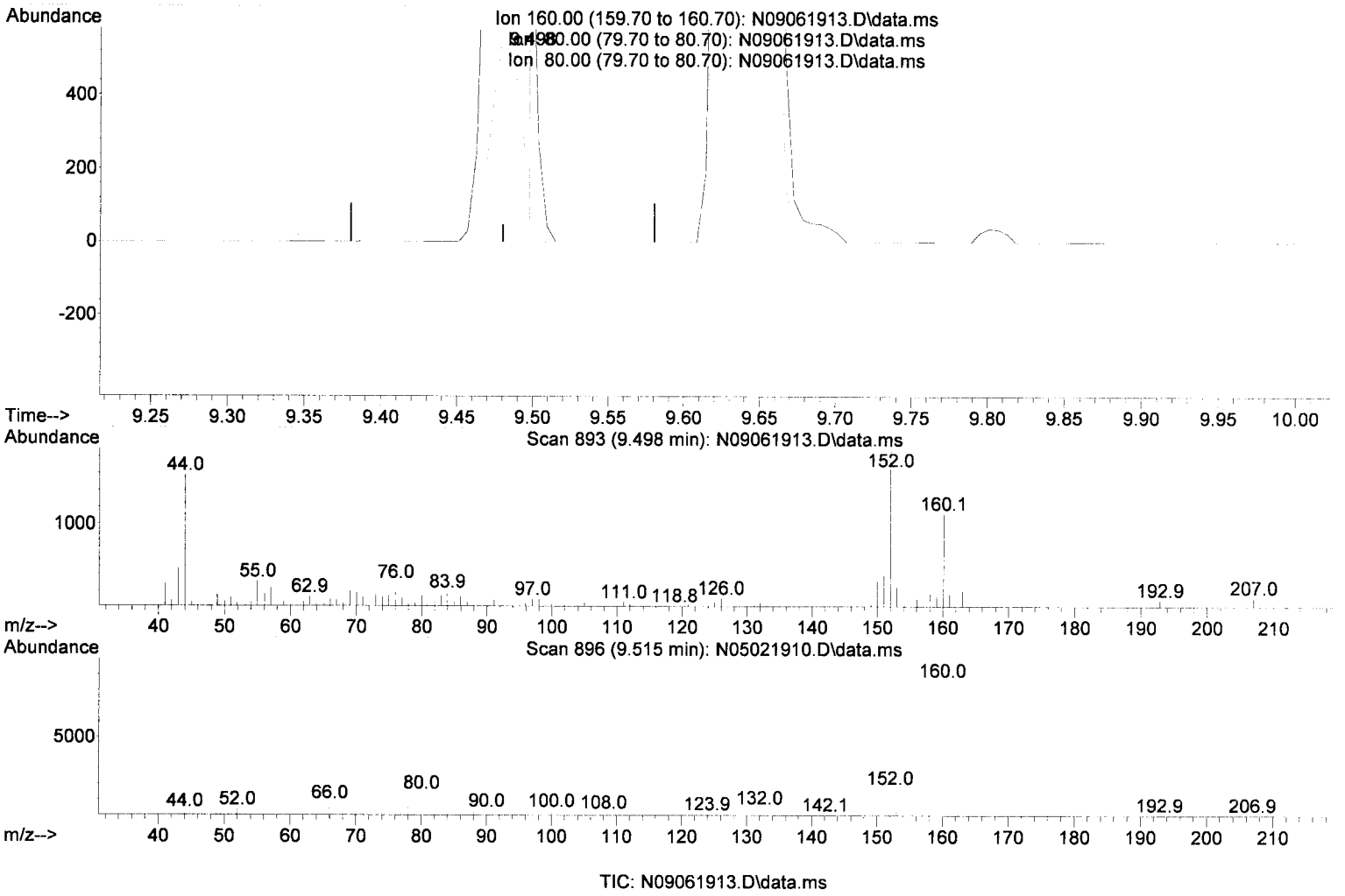


R = -2.27e-003 A*A + 2.00e+000 A + 2.92e-002
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a^2)
Method Name: N:\methods\SV14_090619_PAH.M
Calibration Table Last Updated: Mon Sep 09 15:00:15 2019

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

Response Factor 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

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	
															6.52
1)	I	Naphthalene-d8 (ISTD)	----------ISTD----------												
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
															2.97
9)	I	Acenaphthene-d10 (...	----------ISTD----------												
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	✓
															5.33
17)	I	Phenanthrene-d10 (...	----------ISTD----------												
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	✓
															15.52
24)	I	Chrysene-d12 (ISTD)	----------ISTD----------												
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	✓
															18.95
29)	I	Perylene-d12 (ISTD)	----------ISTD----------												
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

~~2.69~~ 2.60 JL 9/10/19

37)	I	Dibenz(a,h)Anthrce...	----------ISTD----------										
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

(#) = Out of Range

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 9I06028

Analysis Included
8270D LL PAH Only (Scan)

INSTRUMENT SEQUENCE LOG

SampleID	SampleName	Matrix	STDID	ISTD_ID	Analyzed
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**

9I06028-CAL1	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9I06028-CAL2	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9I06028-CAL3	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9I06028-CAL4	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9I06028-CAL5	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9I06028-CAL6	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9I06028-CAL7	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9I06028-CAL8	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9I06028-CAL9	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9I06028-CALA	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 quadatic fit compounds.

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 9I06028

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 otpion, they must be checked against the requanted 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

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	Benz(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)Anthrcene-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

Quantitation Report (Not Reviewed)

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

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						Qvalue
4) Pentachlorophenol	10.920	266	1134816	47.06	ug/mL	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

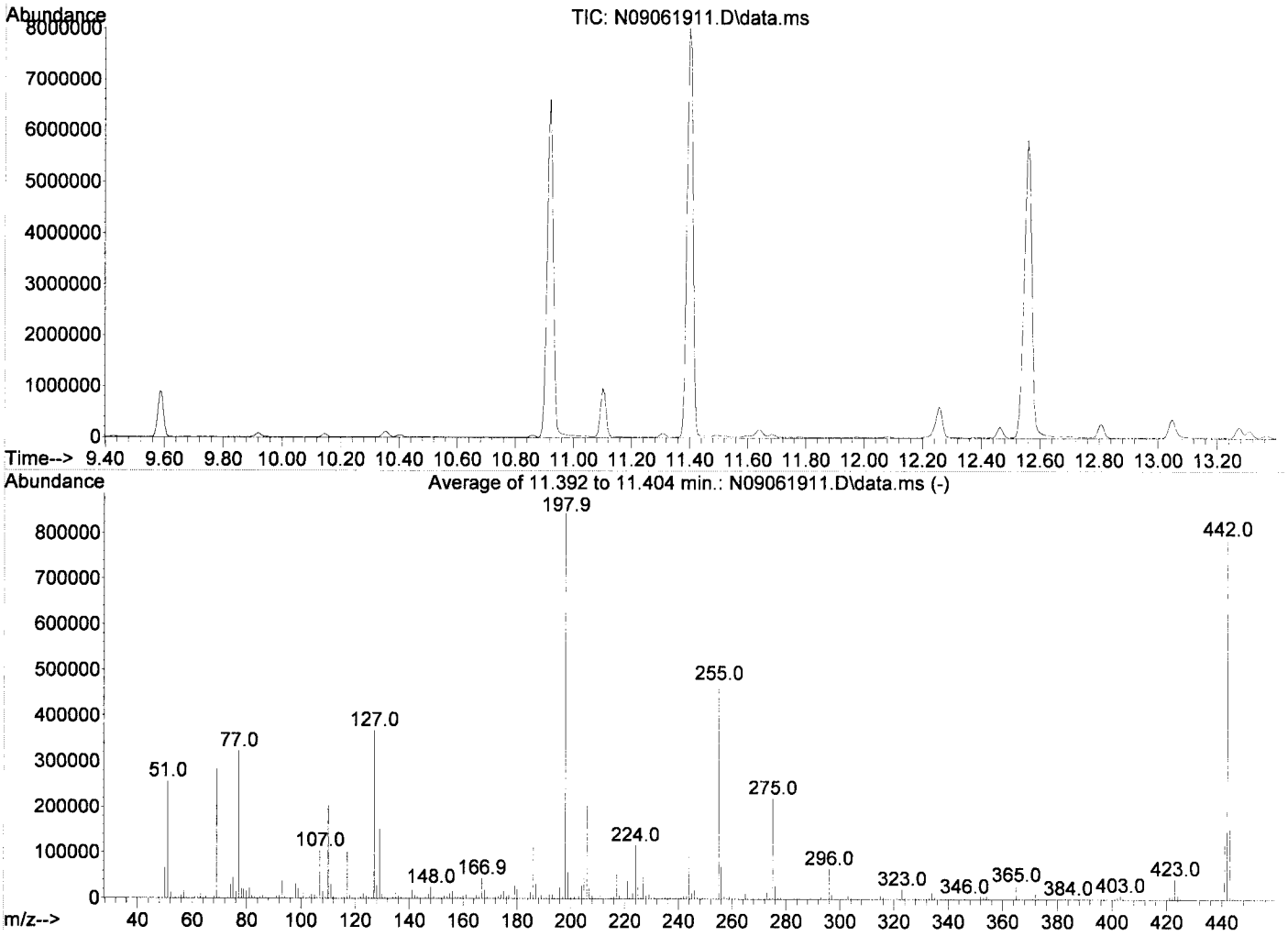
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

9/2 9/9/19



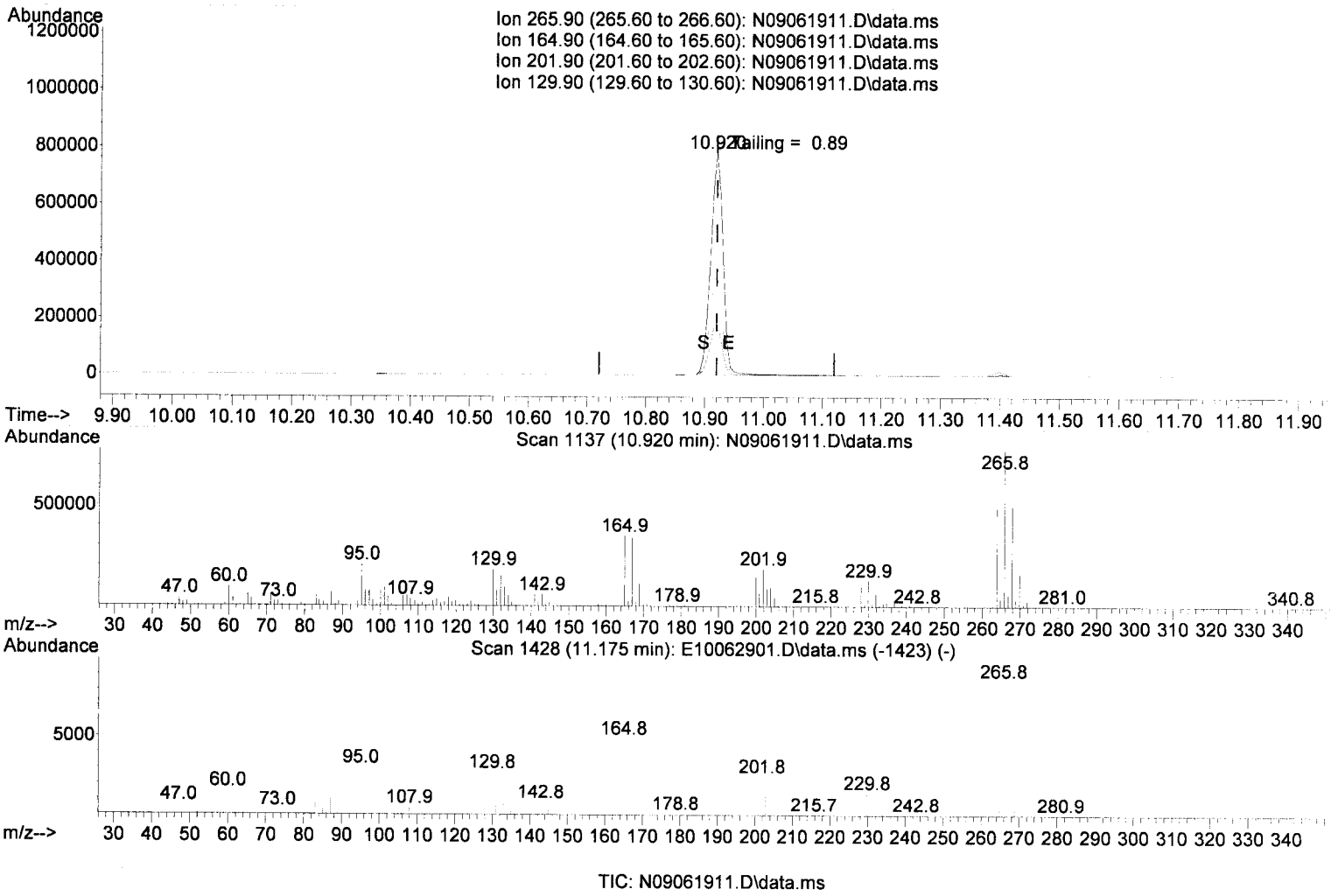
AutoFind: Scans 1218, 1219, 1220; Background Corrected with Scan 1212

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

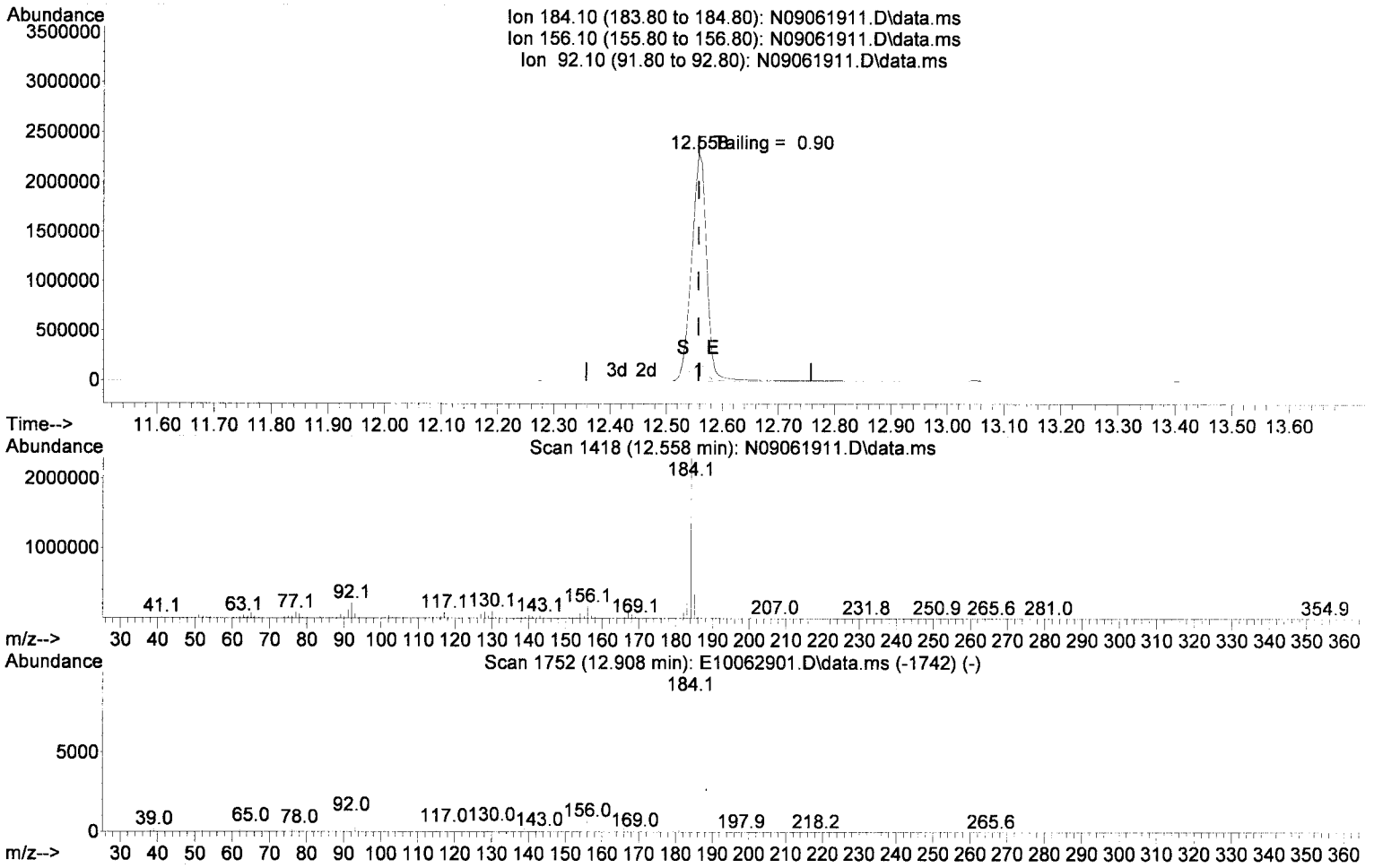
Ion	Exp%	Act%
265.90	100.00	100.00
164.90	50.60	44.95
201.90	25.80	23.85
129.90	27.30	23.19

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

9/9/19

DDT Breakdown Check (Validated 5/1/2013)

From:
9I06028-TUN1
SV-GCMS14

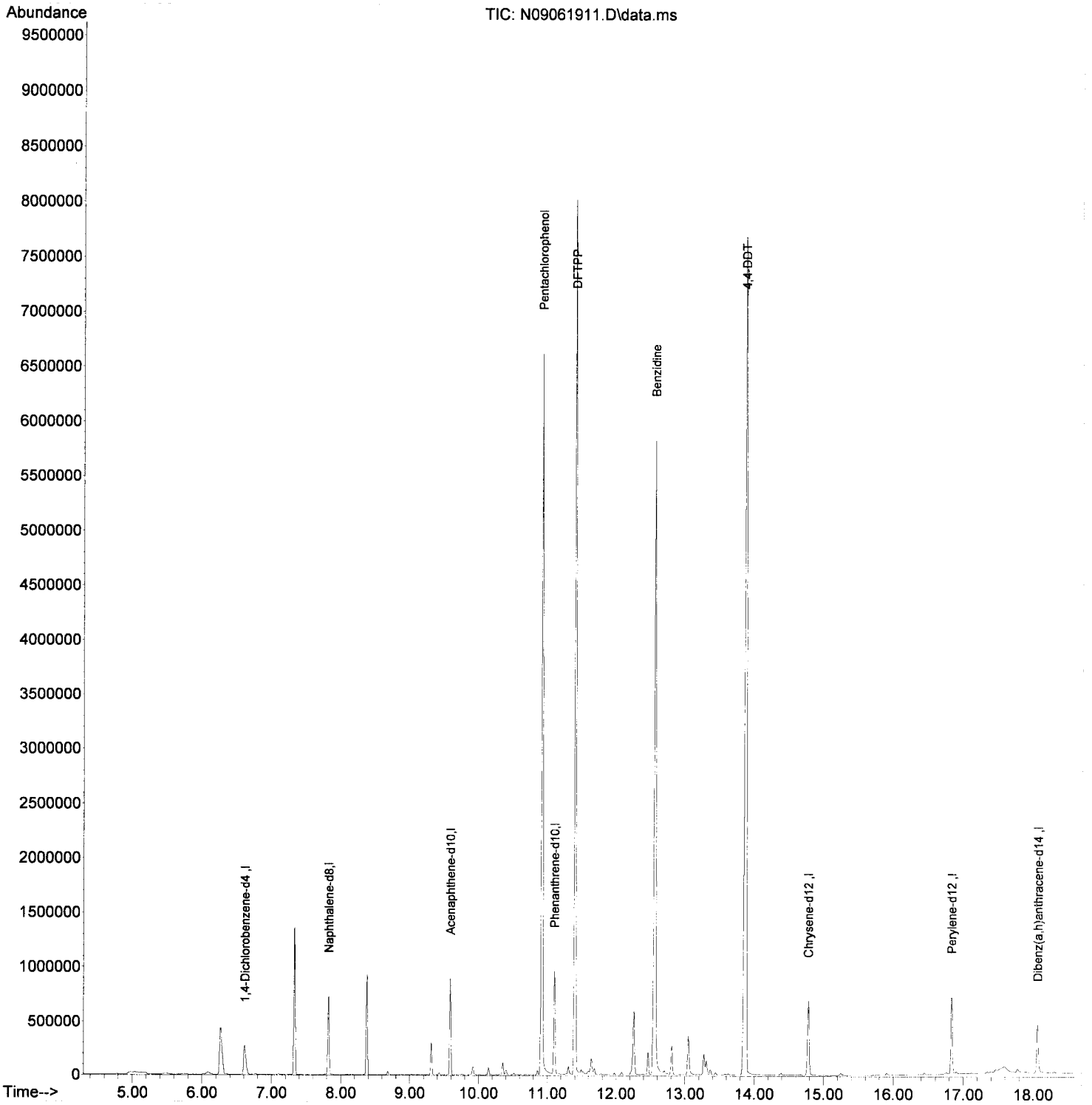
First Column Area Counts		Percent Breakdown	
DDE	375170		
DDD	188617		
DDT	15944082	**3.42**	**PASS**

Breakdown must be less than 20% to accept sample data.

Quantitation Report (Not Reviewed)

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



Quantitation Report (Not Reviewed)

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

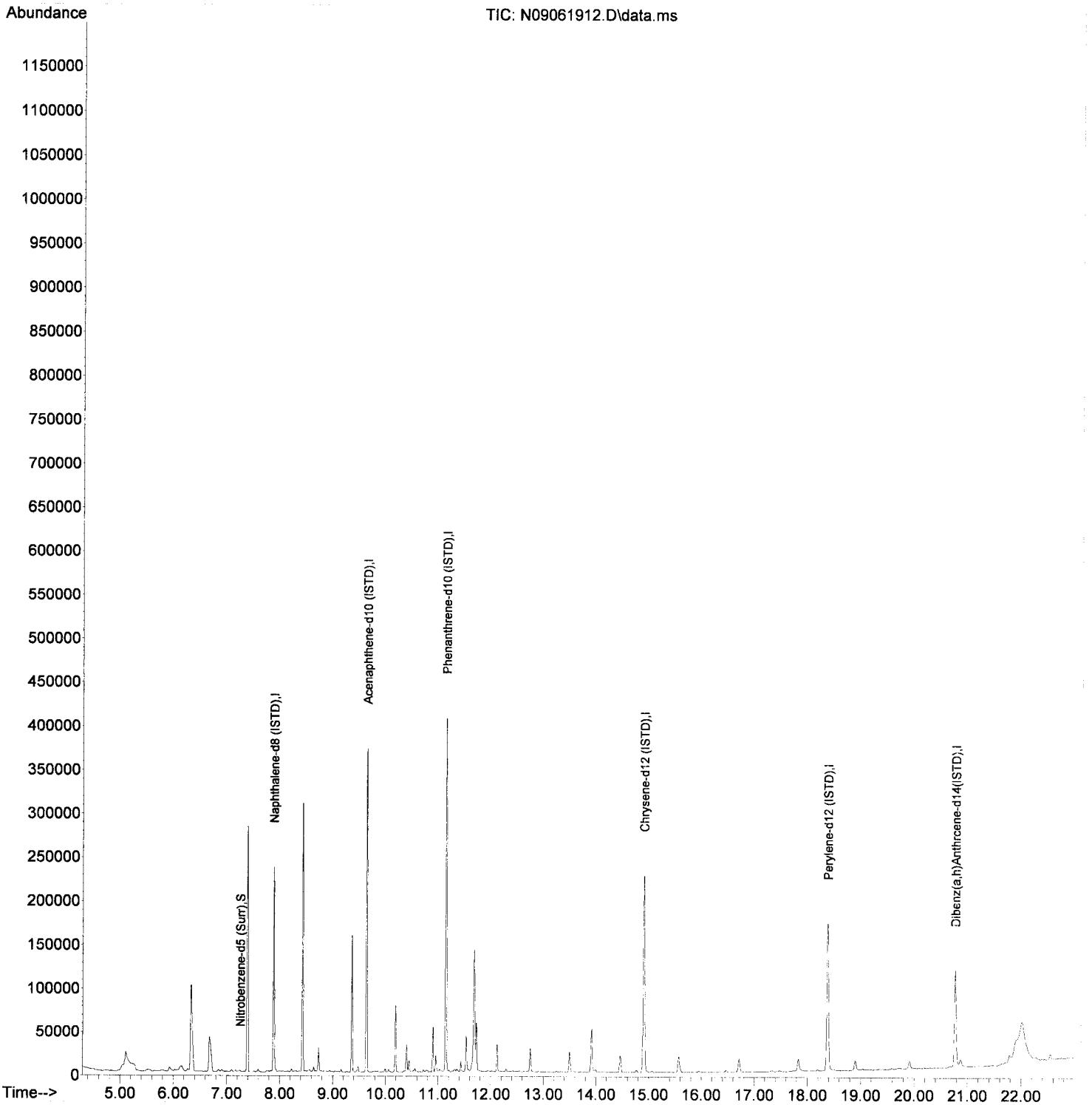
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.883	136	153621	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.643	162	109411	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.147	188	203705	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.907	240	156122	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						Qvalue
3) Decalin	0.000		0	N.D.		
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(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

Quantitation Report (Not Reviewed)

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



Quantitation Report (Not Reviewed)

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 Reagent

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

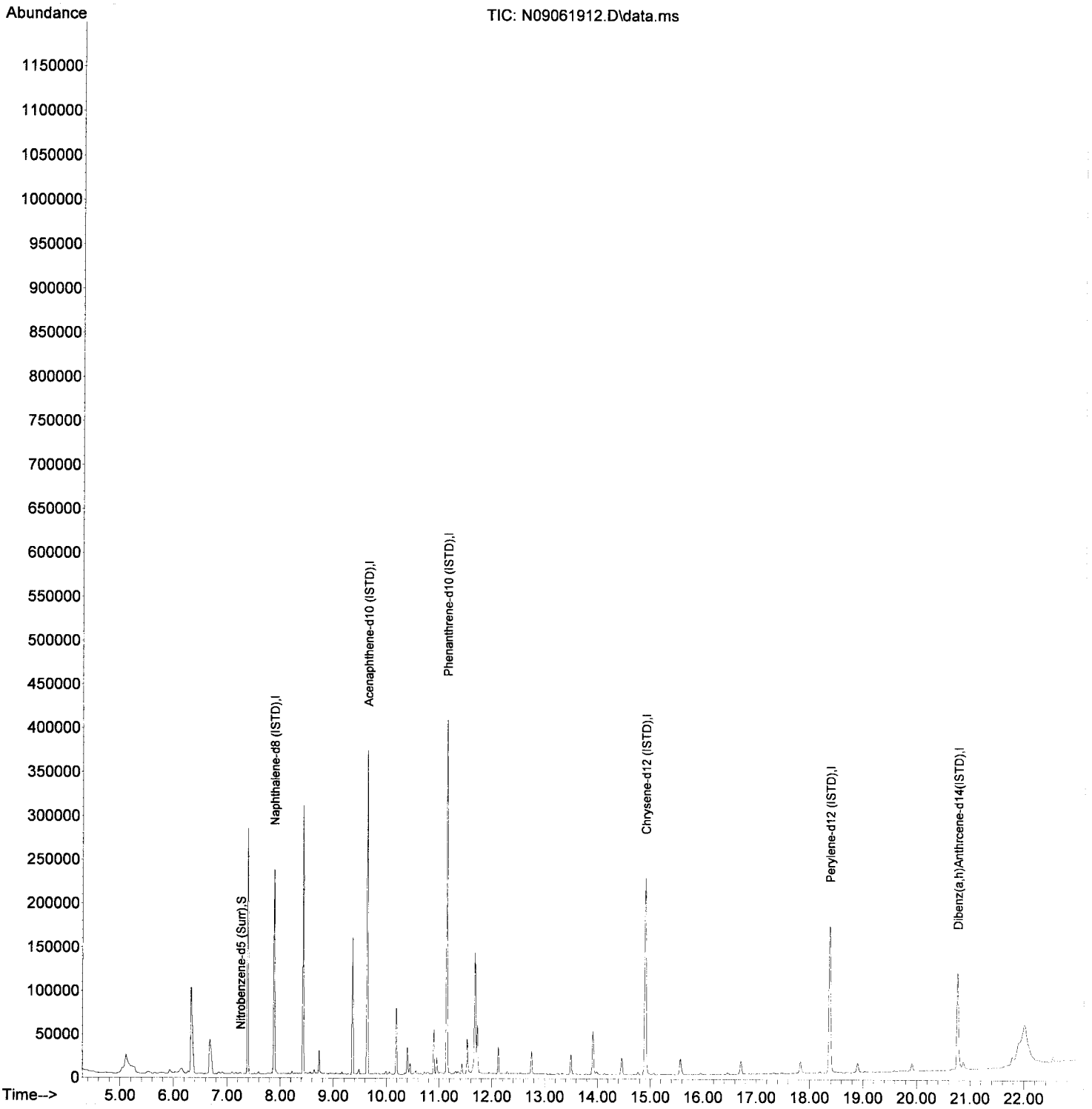
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.883	136	153621	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.643	162	109411	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.147	188	203705	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.907	240	156122	100.00	ng/ml	0.00
29) Perylene-d12 (ISTD)	18.381	264	131660	100.00	ng/ml	0.00
37) Dibenz(a,h)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						Qvalue
3) Decalin	0.000		0	N.D.		
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

Quantitation Report (Not Reviewed)

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



Quantitation Report (Not Reviewed)

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

9/9/19

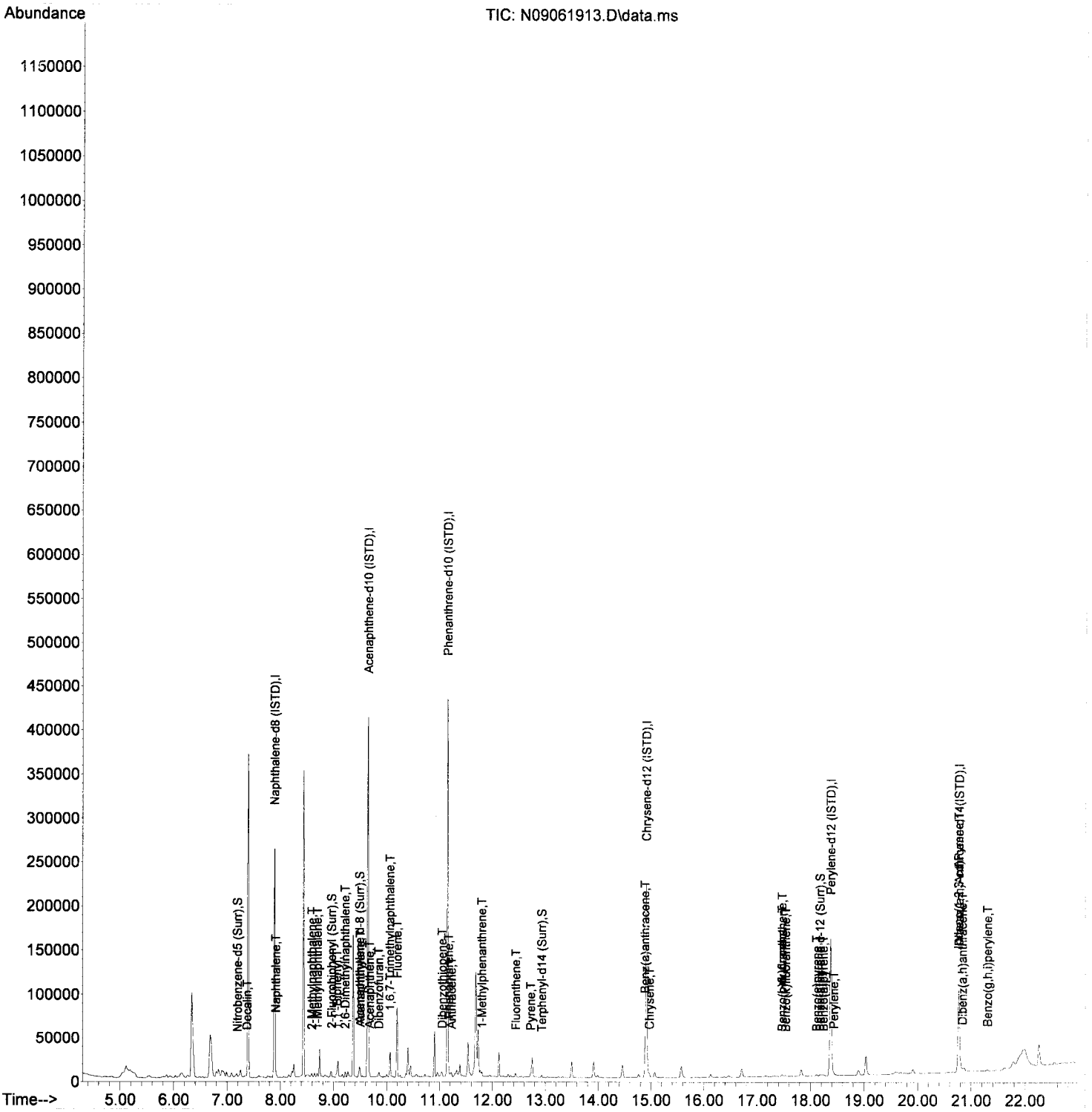
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.883	136	173610	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.643	162	119749	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.147	188	214815	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.907	240	149008	100.00	ng/ml	0.00
29) Perylene-d12 (ISTD)	18.375	264	120943	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthrcene-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

Quantitation Report (Not Reviewed)

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



Quantitation Report (Not Reviewed)

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

9/9/19

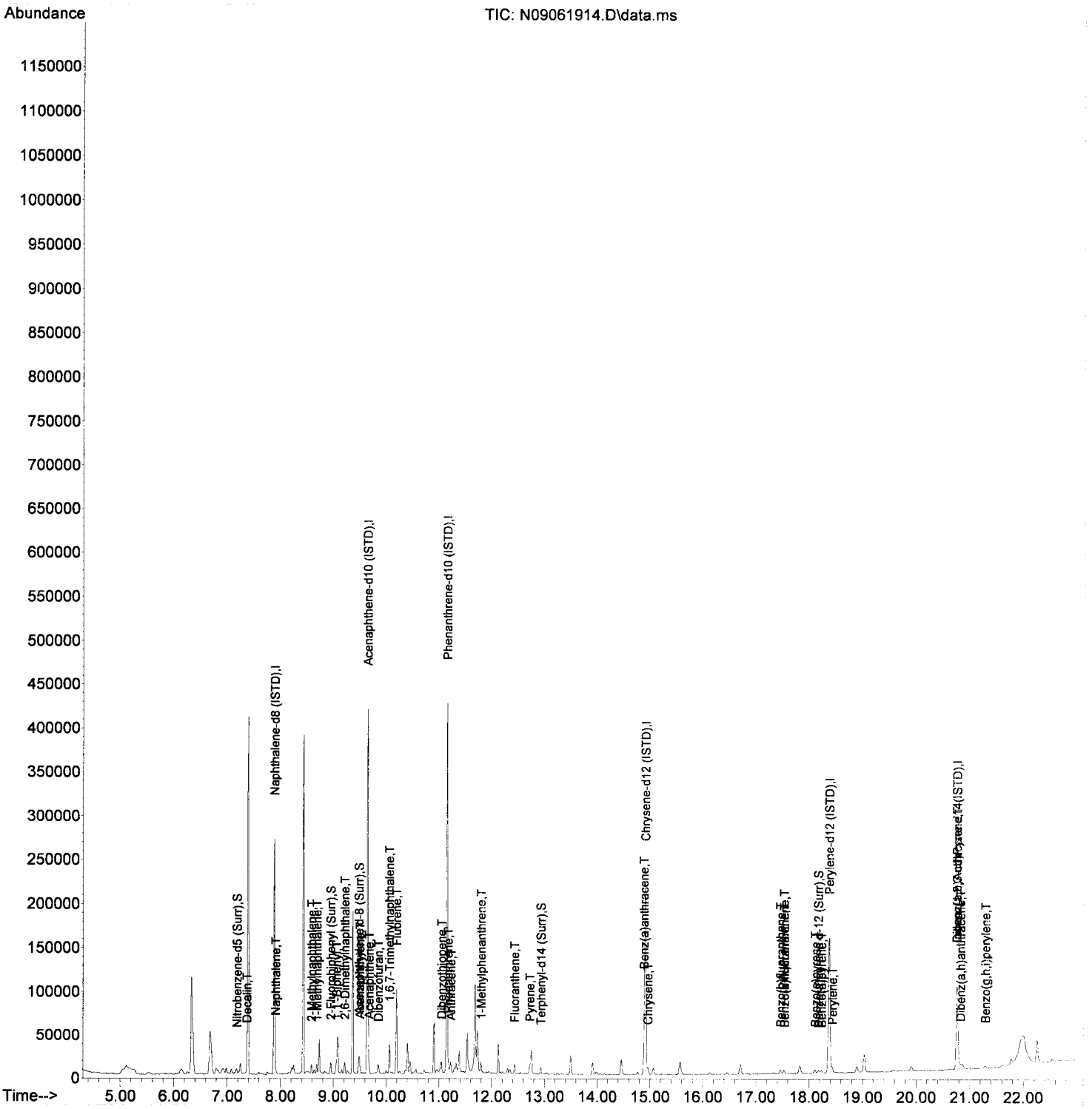
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.883	136	170471	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.638	162	119278	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.147	188	215482	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.907	240	151986	100.00	ng/ml	0.00
29) Perylene-d12 (ISTD)	18.375	264	123595	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthrcene-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

Quantitation Report (Not Reviewed)

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



Quantitation Report (Not Reviewed)

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

9/9/19

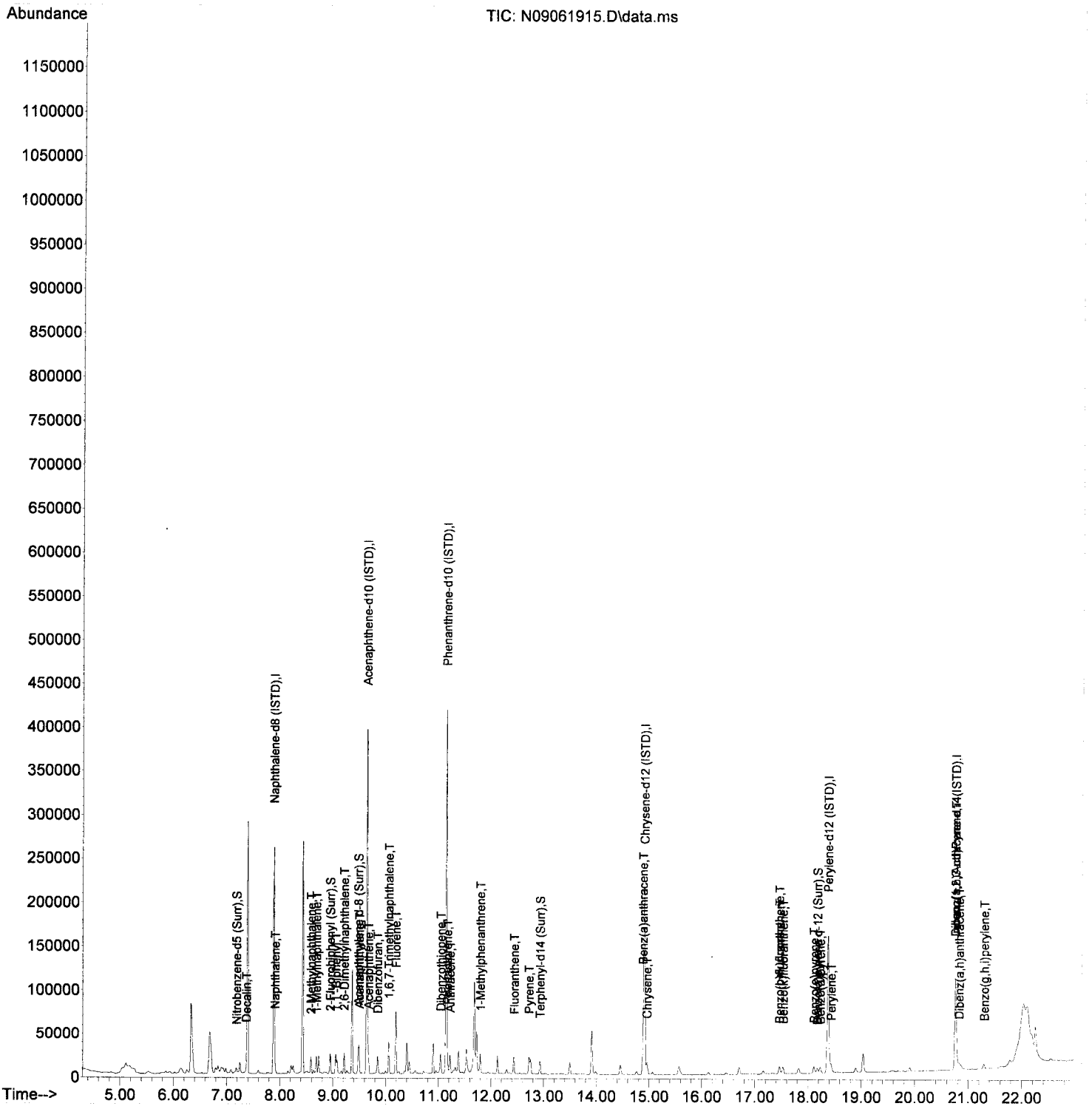
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.883	136	165670	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.638	162	115422	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.147	188	210311	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.907	240	150233	100.00	ng/ml	0.00
29) Perylene-d12 (ISTD)	18.375	264	124460	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthrcene-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	4.98	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

Quantitation Report (Not Reviewed)

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



Quantitation Report (Not Reviewed)

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

9/9/19

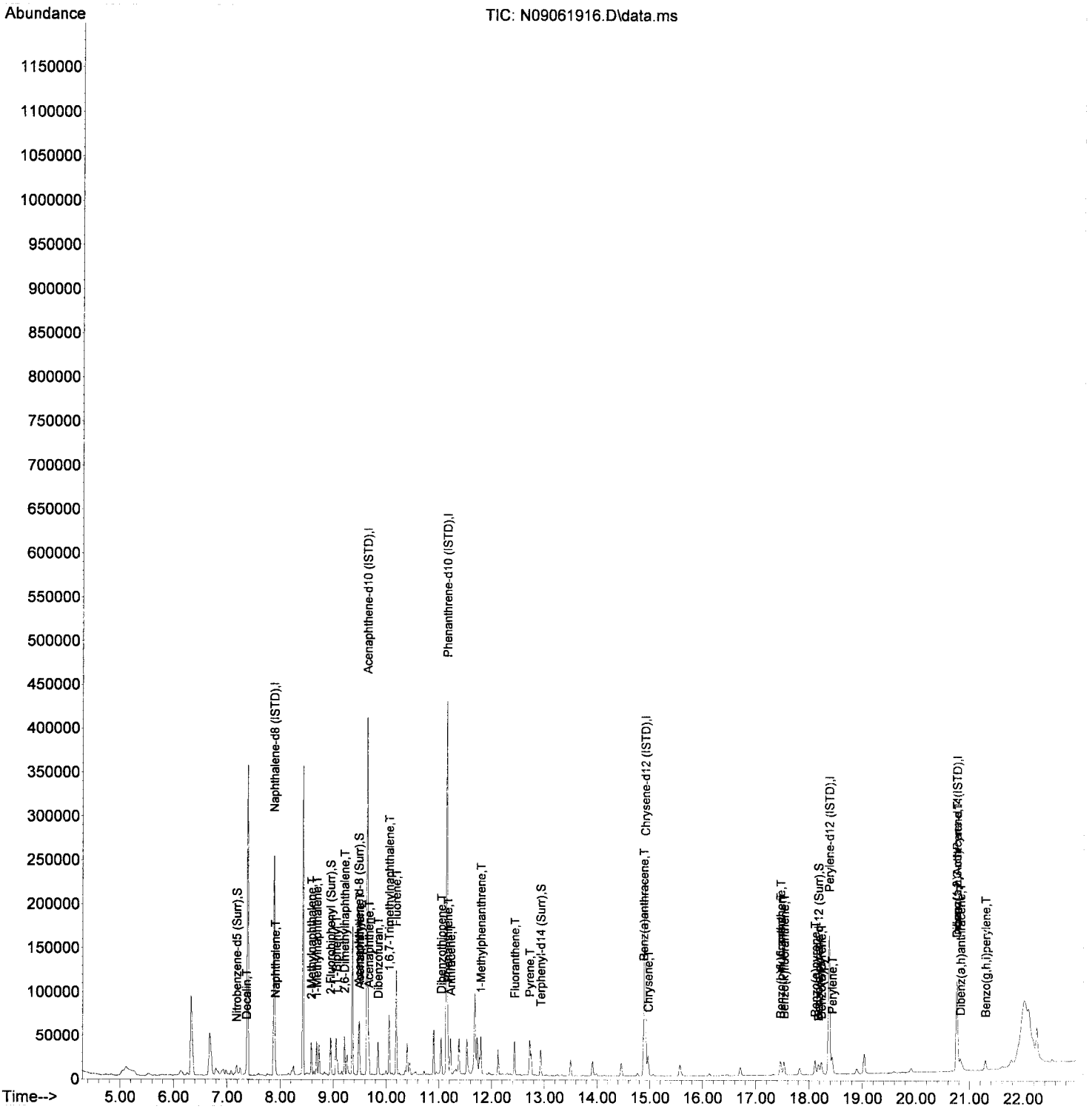
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.883	136	160906	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.638	162	118305	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.147	188	216396	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.907	240	153303	100.00	ng/ml	0.00
29) Perylene-d12 (ISTD)	18.375	264	125859	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthrcene-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						Qvalue
3) Decalin	7.365	138	1106	9.23	ng/ml	96
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

Quantitation Report (Not Reviewed)

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



Quantitation Report (Not Reviewed)

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

9/9/19

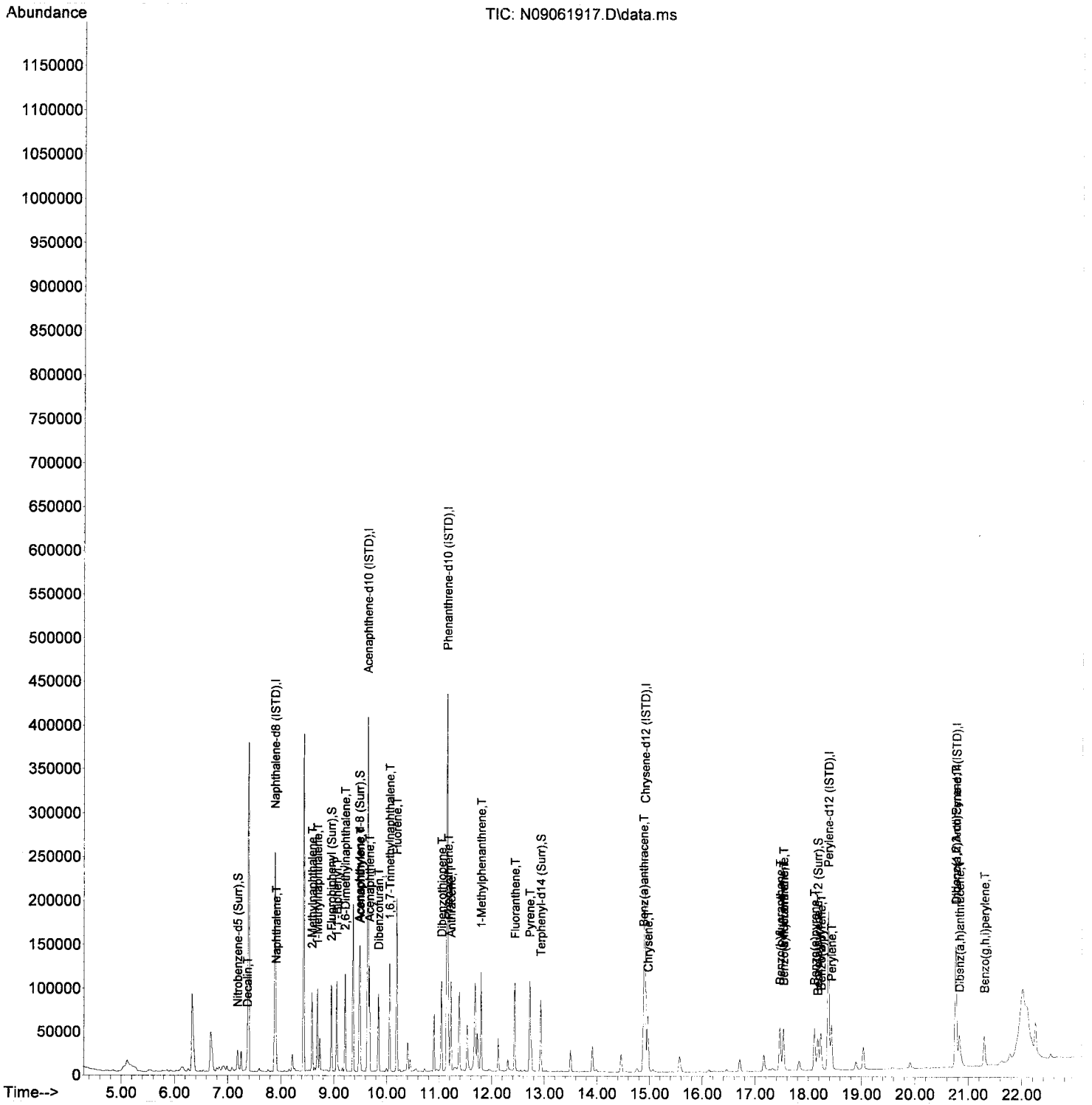
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.883	136	158689	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.638	162	118239	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.147	188	219818	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.907	240	167298	100.00	ng/ml	0.00
29) Perylene-d12 (ISTD)	18.375	264	142122	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthrcene-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

Quantitation Report (Not Reviewed)

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



Quantitation Report (Not Reviewed)

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

9/9/19

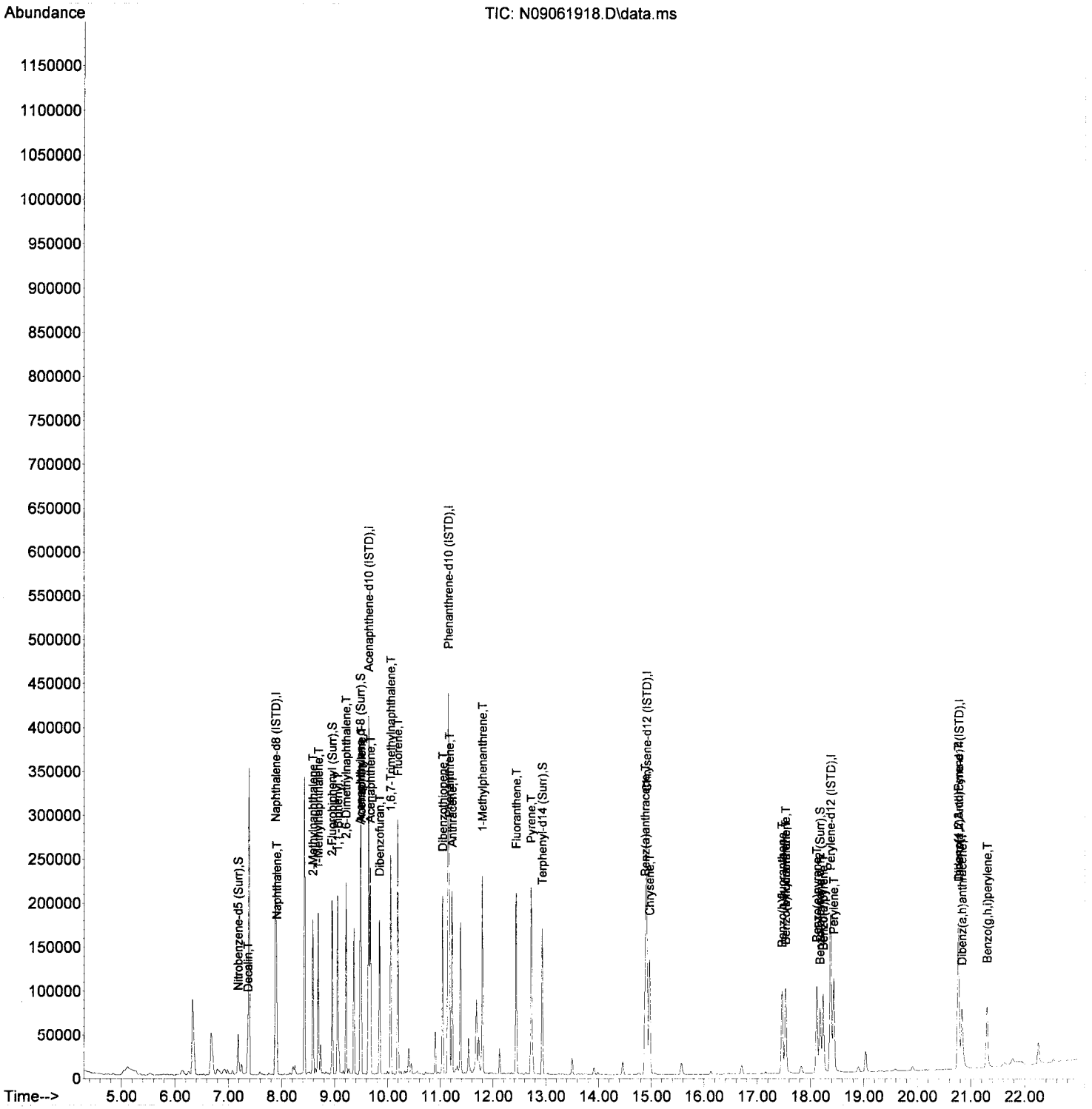
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.883	136	148351	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.638	162	117951	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.147	188	219661	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.907	240	169841	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

Quantitation Report (Not Reviewed)

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



Quantitation Report (Not Reviewed)

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

9/9/19

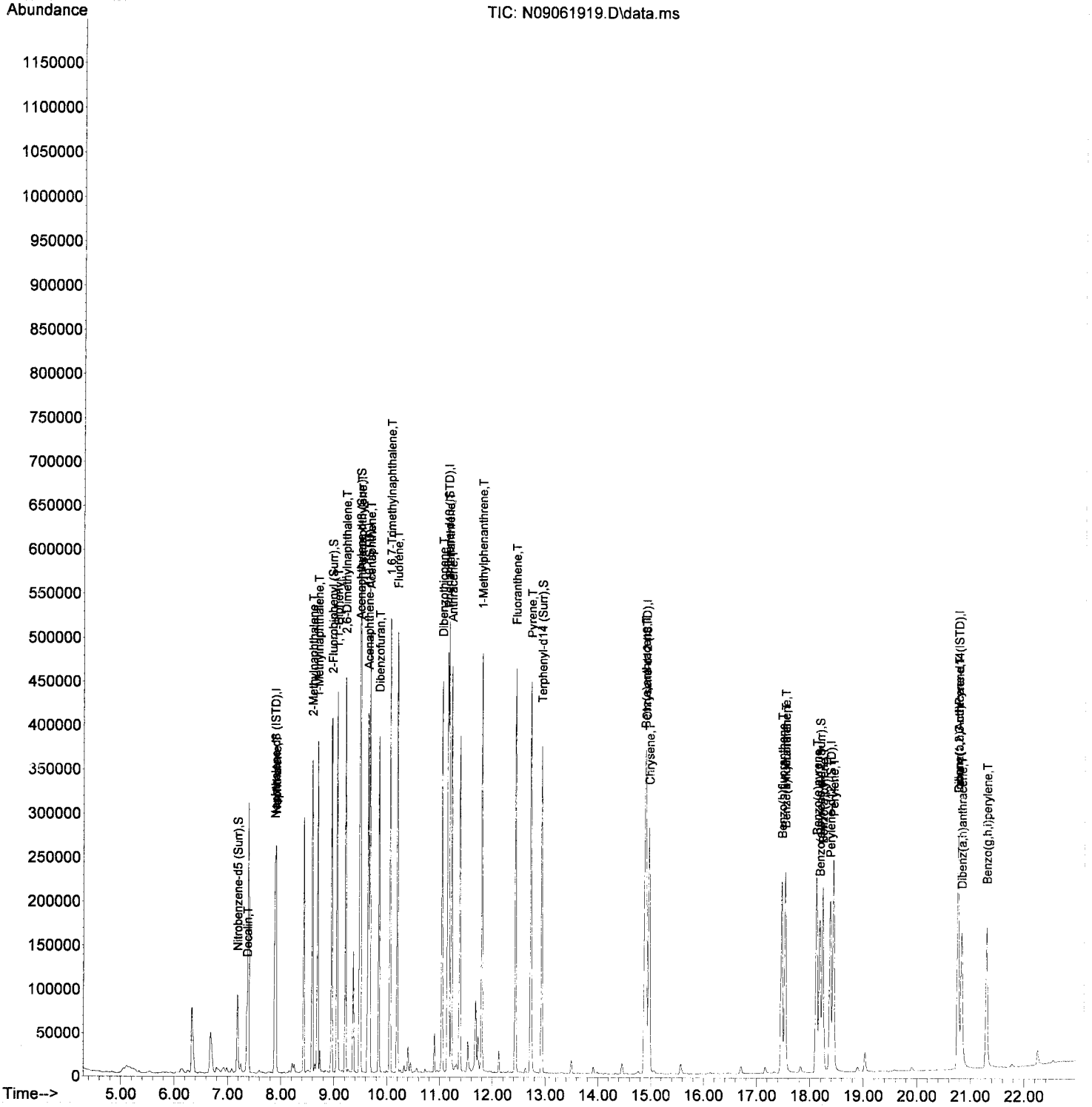
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.883	136	148917	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.638	162	121411	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.147	188	233582	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.907	240	187274	100.00	ng/ml	0.00
29) Perylene-d12 (ISTD)	18.381	264	159070	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthrcene-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	105.63	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

Quantitation Report (Not Reviewed)

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



Quantitation Report (Not Reviewed)

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

9/9/19

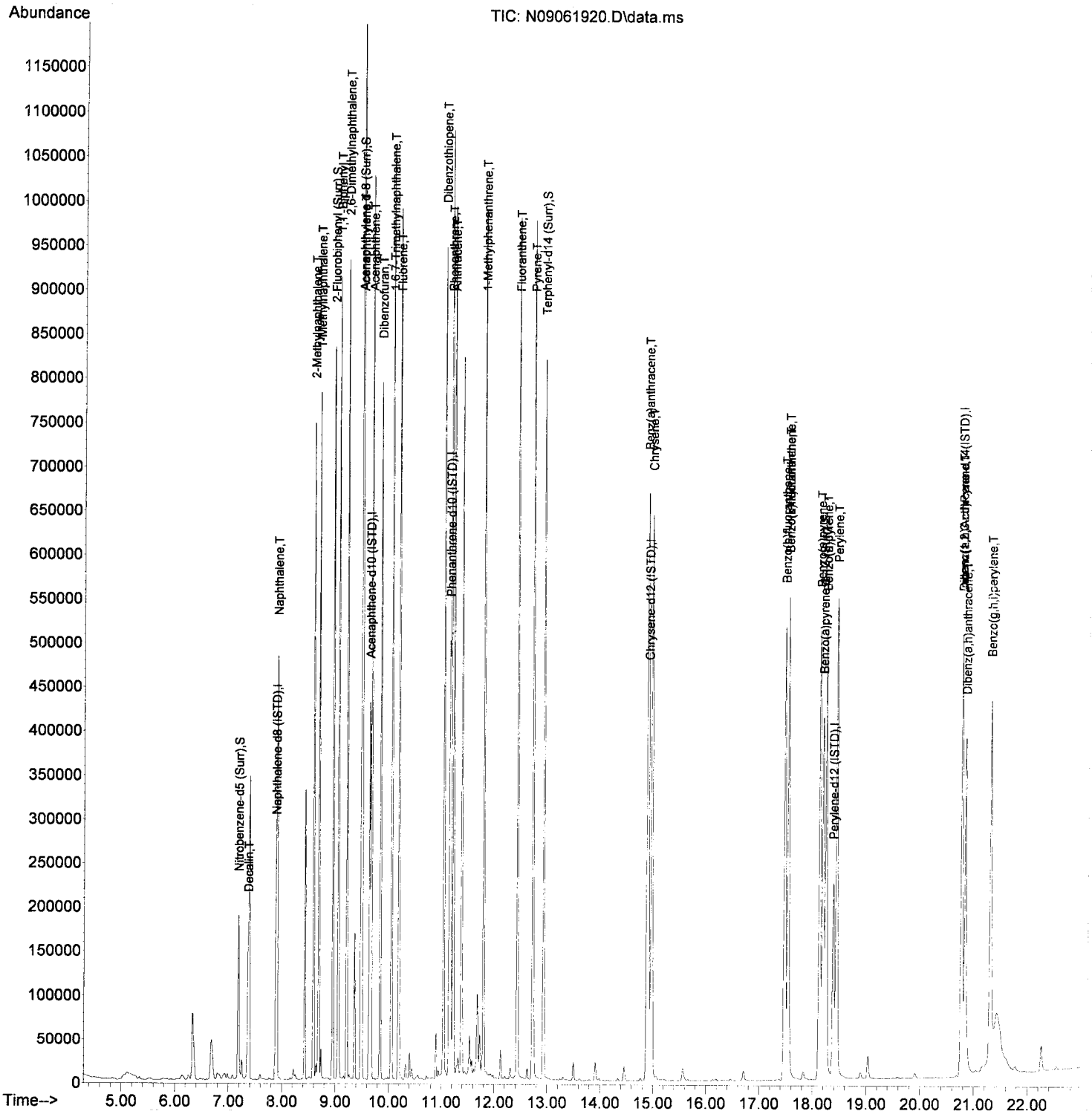
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.883	136	148783	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.638	162	126650	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.147	188	244292	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.913	240	211033	100.00	ng/ml	0.00
29) Perylene-d12 (ISTD)	18.381	264	182214	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthrcene-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	202.53	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	219.63	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

Quantitation Report (Not Reviewed)

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



Quantitation Report (Not Reviewed)

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/d 9/9/19

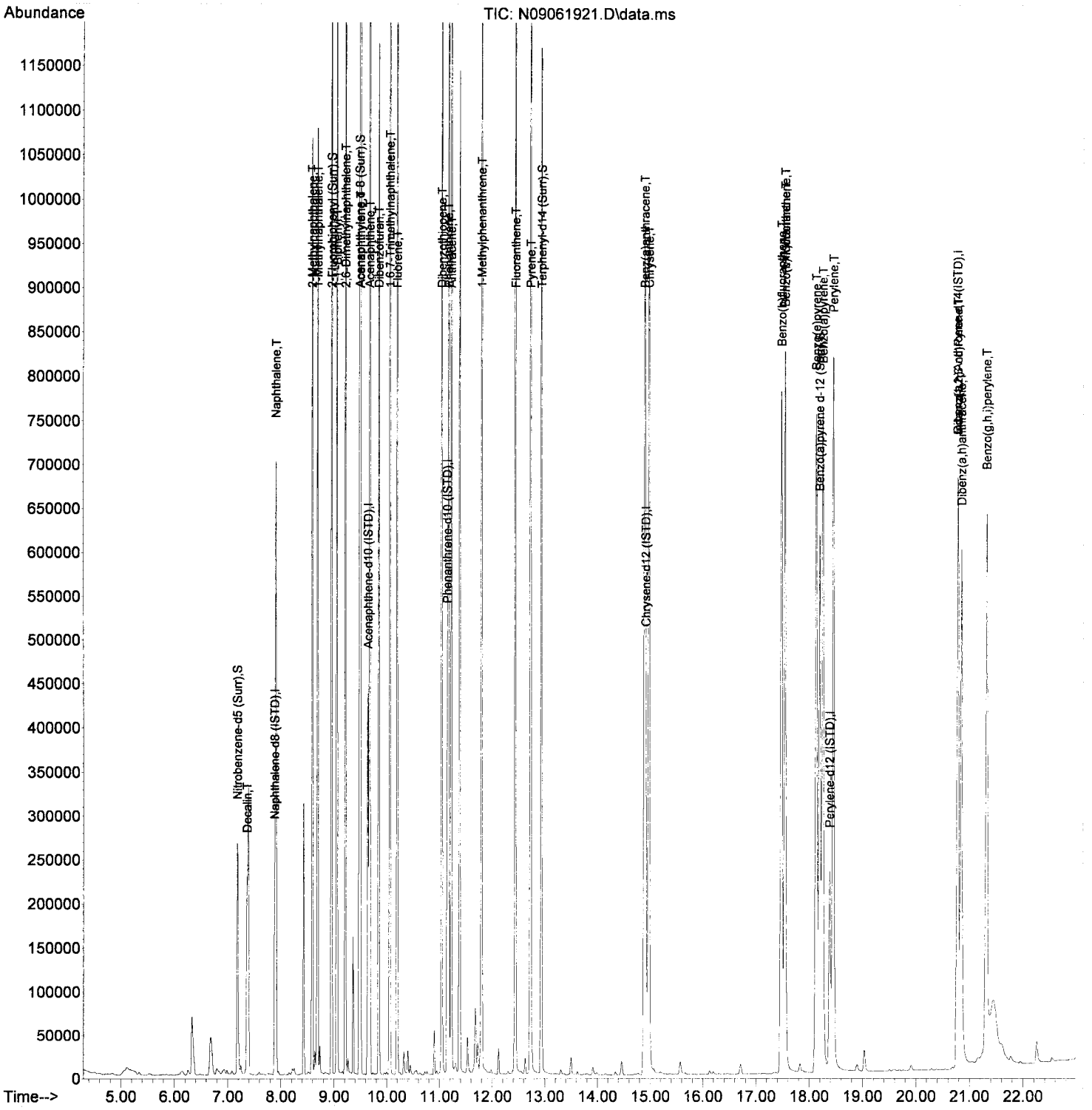
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.883	136	144322	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.643	162	126204	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.147	188	242216	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.918	240	215566	100.00	ng/ml	0.01
29) Perylene-d12 (ISTD)	18.386	264	189767	100.00	ng/ml	0.01
37) Dibenz(a,h)Anthrcene-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

Quantitation Report (Not Reviewed)

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



Quantitation Report (Not Reviewed)

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

9/9/19

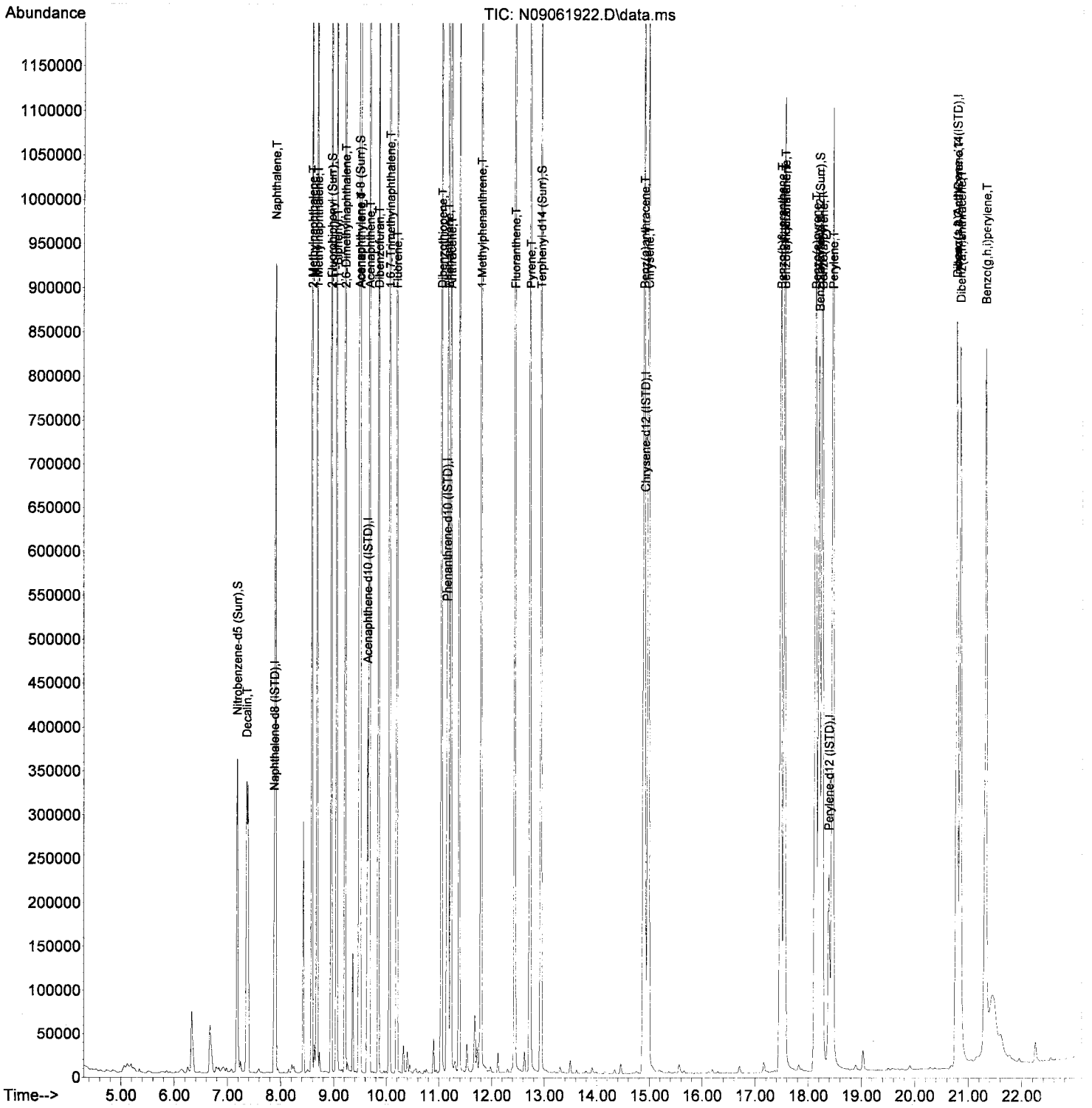
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.877	136	151798	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.638	162	120378	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.147	188	227701	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.913	240	211373	100.00	ng/ml	0.00
29) Perylene-d12 (ISTD)	18.387	264	191099	100.00	ng/ml	0.01
37) Dibenz(a,h)Anthrcene-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

Quantitation Report (Not Reviewed)

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



Quantitation Report (Not Reviewed)

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

9/9/19

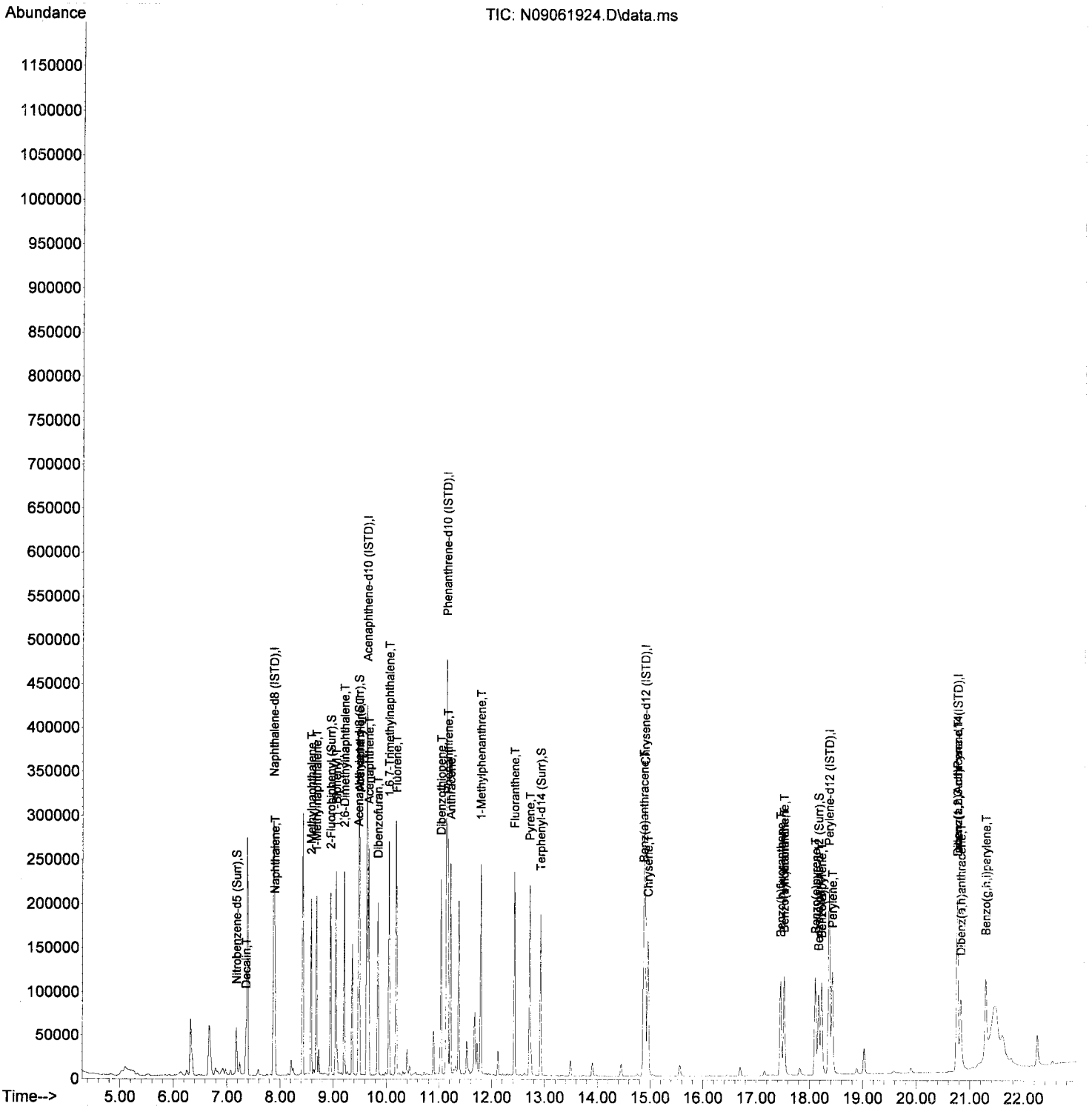
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.877	136	181748	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.638	162	125177	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.141	188	235054	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.901	240	188693	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						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	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

Quantitation Report (Not Reviewed)

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



Quantitation Report (Not Reviewed)

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 Report

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

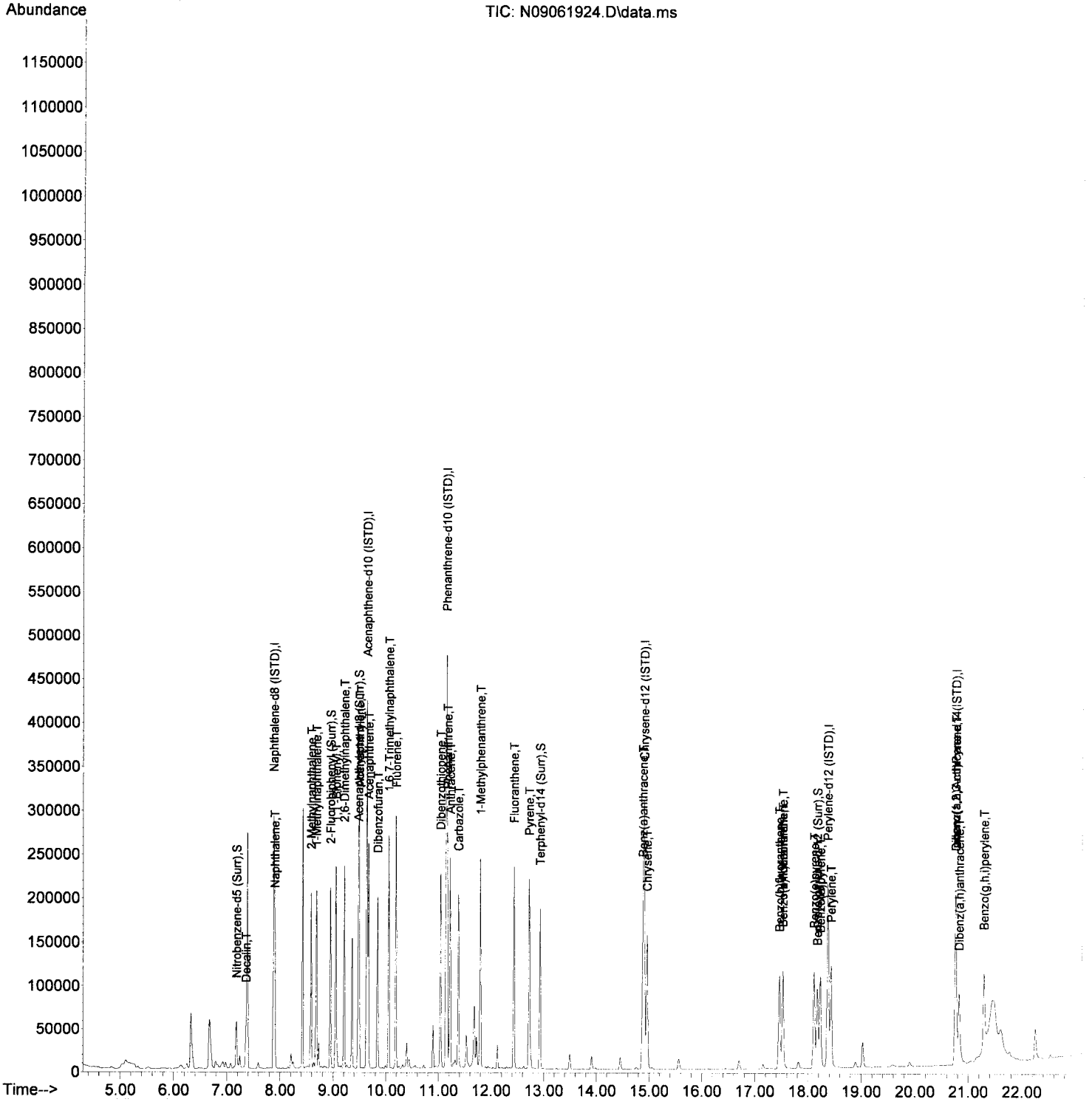
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.877	136	181748	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.638	162	125177	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.141	188	235054	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.901	240	188693	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						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

Quantitation Report (Not Reviewed)

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



APEX LABORATORIES, LLC
6700 SW Sandburg St. Tigard OR 97223 phone 503-718-2323

Conventional Chemistry Parameters
Benchsheet & Analysis Sequence Data

Total Organic Carbon- Soil (5310 B)

Batch 0020538
Sequence 0B19031 (A0B0411-01,02,03,04,05)

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0020538 (Soil)

Prep Method: PSEP-5310B TOC

#	Lab Number		Analysis	Prepared	Initial (N/A)	Final (N/A)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH <2	pH Other	pH >11
	0020538-BLK1		QC	02/18/20 10:58	0.2	0.2									
	0020538-BS1		QC	02/18/20 10:58	0.2	0.2	A19K246		1						
	A0B0411-01	A	Total Organic Carbon - Soil (5310 B)	02/18/20 10:58	0.2	0.2					PDI-100SC-J-06-07-190926				
	0020538-DUP1		QC	02/18/20 10:58	0.2	0.2		A0B0411-01							
	0020538-DUP2		QC	02/18/20 10:58	0.2	0.2		A0B0411-01				triplicate			
	A0B0411-02	A	Total Organic Carbon - Soil (5310 B)	02/18/20 10:58	0.2	0.2					PDI-100SC-J-07-08-190926				
	A0B0411-03	A	Total Organic Carbon - Soil (5310 B)	02/18/20 10:58	0.2	0.2					PDI-100SC-J-08-09-190926				
	A0B0411-04	A	Total Organic Carbon - Soil (5310 B)	02/18/20 10:58	0.2	0.2					PDI-100SC-J-09-10-190926				
	A0B0411-05	A	Total Organic Carbon - Soil (5310 B)	02/18/20 10:58	0.2	0.2					PDI-100SC-J-10-11-190926				

Standards/Reagents

Reagent(s)

Std ID	Exp. Date	Description
A19F020	06/03/29	TOC Soil Drying Oven @70oC
A19J023	11/30/23	Wet Chem Balance 4
A19J145	05/30/22	TOC Soil Blank Matrix
A19L107	06/06/20	10% Phosphoric Acid

Analyte Spike(s)

Std ID	Exp. Date	Description
A19K246	05/12/20	TOC 10k ppm secondary

Surrogate(s)

Std ID	Exp. Date	Description

CMR 2/19/2020
Prepared By: Date

Reviewed By: 2/19/20
Date

Printed: 2/18/2020 11:00:04AM

Batch ~~0020404~~ 0020537 8 DLF 2/19/20 TOC PSEP preweigh Analyst DAS
CMR 2/18/2020

Date/Time:	2/19/2020 1727	2/19/2020 0743			Effervesces?	Comments
T(°C) IN / OUT:	71.9 / 70.9	70.8 / 71.6	/	/		
Sample ID	Wt 1(g)	Wt 2(g)	Wt 3(g)	Wt 4(g)	(yes/no)	
A0B0411-01	9.1482 -	9.1479 -			No	
0020538-DUP1	12.0405 -	12.0362 -				
A0B0411-02	13.9459 -	13.9412 -				
A0B0411-03	11.2473 -	11.2438 -				
A0B0411-04	11.9910 -	11.9911 -				
A0B0411-05	11.1141 -	11.1132 -			CMR 2/19/2020	

In oven @ 71.9°C 2/18/2020 1108.
CMR 2/19/2020

Pre-drying sample aliquot > 10g. Constant wt = change of < 0.005g

ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence:	0B19031	Instrument:	TOC6
Date:	02/19/20 08:25	Calibration:	A0A0805

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0B19031-CCV1	Soil	QC	QC				A20B041
2	0B19031-CCB1	Soil	QC	QC				
3	0020538-BLK1	Soil	QC	QC		0020538		
4	0020538-BS1	Soil	QC	QC		0020538		
5	A0B0411-01	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	02/19/20	0020538		
6	0020538-DUP1	Soil	QC	QC		0020538		
7	0020538-DUP2	Soil	QC	QC		0020538		
8	A0B0411-02	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	02/21/20	0020538		
9	A0B0411-03	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	02/21/20	0020538		
10	A0B0411-04	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	02/21/20	0020538		
11	A0B0411-05	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	02/21/20	0020538		
12	0B19031-CCV2	Soil	QC	QC				A20B041
13	0B19031-CCB2	Soil	QC	QC				

Data Entered By: CMR 2/19/2020

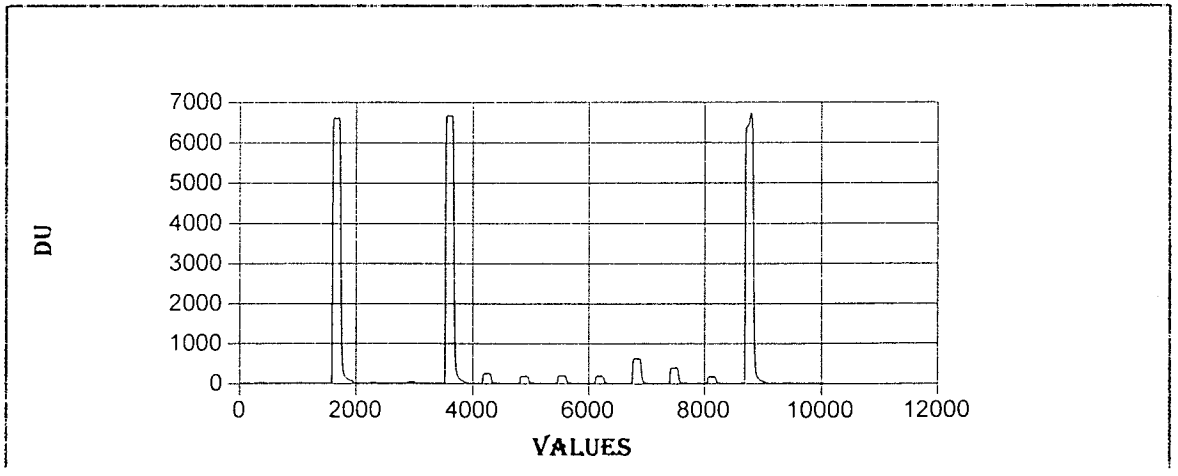
Data Reviewed By: AWF 2/19/20

Comments:

Method:	TCDirect	Run Start Time:	2/19/2020 12:21:17
Method Type:	TC_DIRECT	Run End Time:	2/19/2020 3:08:46 P
Table:	0B19031	Device ID:	TOC6
Analyst:	Administrator	Run Name:	SN10020200219A1

2/19/2020

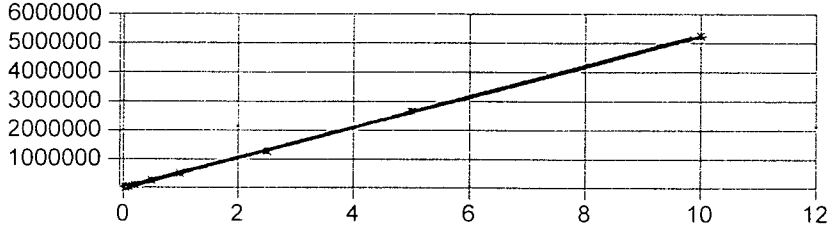
Cup Position	Sample ID	Weight (mg)	Final Result (mg/kg)	Result mg C abs	Peak Area	Analysed Date and time
A99	prime	200	40.158	0.008	3326.29	2/19/2020 12:21:27 PM
A2	blank	200	8.545	0.002	0	2/19/2020 12:32:27 PM
A1	0B19031-CCV1	200	9645.361	1.929	1013978.93	2/19/2020 12:43:20 PM
A2	0B19031-CCB1	200	46.571	0.009	4001.09	2/19/2020 12:54:06 PM
A3	0020538-BLK1	211.9	68.433	0.015	6729.74	2/19/2020 1:04:52 PM
A4	0020538-BS1	200	9695.265	1.939	1019229.8	2/19/2020 1:15:38 PM
A5	A0B0411-01	200.8	387.204	0.078	40005.22	2/19/2020 1:26:24 PM
A6	0020538-DUP1	202.6	279.628	0.057	28905.62	2/19/2020 1:37:11 PM
A7	0020538-DUP2	201.6	296.803	0.06	30580.13	2/19/2020 1:47:58 PM
A8	A0B0411-02	201.6	280.513	0.057	28852.42	2/19/2020 1:58:45 PM
A9	A0B0411-03	205	908.073	0.186	97036.39	2/19/2020 2:09:32 PM
A10	A0B0411-04	204.6	579.588	0.119	61487.395	2/19/2020 2:20:19 PM
A11	A0B0411-05	200.2	264.677	0.053	26977.9	2/19/2020 2:31:06 PM
A12	0B19031-CCV2	200	9575.199	1.915	1006596.56	2/19/2020 2:41:53 PM
A2	0B19031-CCB2	200	43.687	0.009	3697.64	2/19/2020 2:52:40 PM



SNACCESS

RUN NAME : SN10020200108A1 METHOD NAME : TCDIRECT CALIBRATION TYPE : ISO FIRST ORDER GROUP : 1

A = -899.10605459823300 B = 526096.46424181900000 R = 0.99994117364848 R-SQUARED = 0.99988235075750



APEX LABORATORIES, LLC
6700 SW Sandburg St. Tigard OR 97223 phone 503-718-2323

Conventional Chemistry Parameters
Calibration Data

Sequence 0A08052 (Cal ID A0A0805) TOC6

APEX LABORATORIES

ELEMENT SEQUENCE LOG

Apex Laboratories

JAN 13 2020

Sequence: **0A08052** Instrument: **TOC6**

Date: **01/08/20 16:29** Calibration: **A0A0805**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0A08052-CAL1	Sediment	QC	QC				
2	0A08052-CAL2	Sediment	QC	QC				A20A053
3	0A08052-CAL3	Sediment	QC	QC				A20A054
4	0A08052-CAL4	Sediment	QC	QC				A20A056
5	0A08052-CAL5	Sediment	QC	QC				A20A057
6	0A08052-CAL6	Sediment	QC	QC				A20A058
7	0A08052-CAL7	Sediment	QC	QC				A20A059
8	0A08052-CAL8	Sediment	QC	QC				A20A060
9	0A08052-CAL9	Sediment	QC	QC				A20A061
10	0A08052-ICV1	Sediment	QC	QC				A19K246
11	0A08052-ICB1	Sediment	QC	QC				

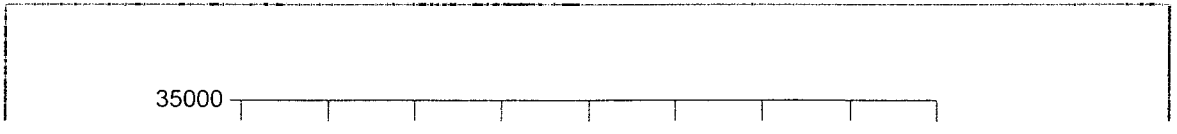
Data Entered By: CMF 1/9/2020

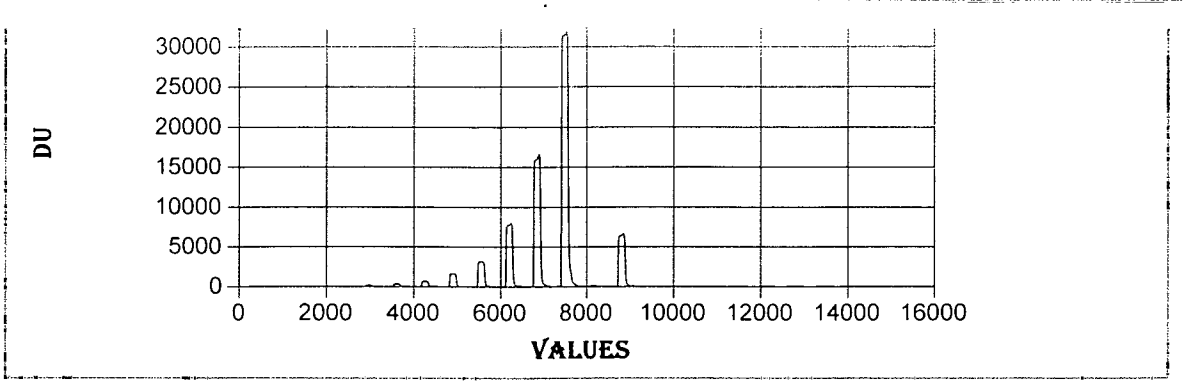
Data Reviewed By: CMF 1/10/20

Comments: SKalor ID SN 10020200108A1 CMF 1/9/2020

Method:	TCDirect	Run Start Time:	1/8/2020 6:15:14 PM
Method Type:	TC_DIRECT	Run End Time:	1/8/2020 10:40:22 P
Table:	0A08052	Device ID:	TOC6
Analyst:	Administrator	Run Name:	SN10020200108A1

Cup Position	Sample ID	Weight (mg)	Final Result (mg/kg)	Result mg C abs	Peak Area	Analysed Date and time
A98	prime	200	32.359	0.006	2505.73	1/8/2020 6:15:28 PM
A1	blank	200	8.545	0.002	0	1/8/2020 6:26:29 PM
A11	blank	200	8.545	0.002	0	1/8/2020 6:37:23 PM
A1	0A08052-CAL1	200	8.545	0.002	0	1/8/2020 6:48:17 PM
A2	0A08052-CAL2	40	1132.086	0.045/0.0002 = 225	22924.35	1/8/2020 6:59:11 PM
A3	0A08052-CAL3	100	1063.227	0.106 = 530	55036.88	1/8/2020 7:09:58 PM
A4	0A08052-CAL4	200	1039.388	0.208 = 1040	108464.545	1/8/2020 7:20:45 PM
A5	0A08052-CAL5	50	10075.077	0.504 = 2520	264124.015	1/8/2020 7:31:32 PM
A6	0A08052-CAL6	100	9827.481	0.983 = 4915	516121.2	1/8/2020 7:42:18 PM
A7	0A08052-CAL7	250	9761.05	2.44 = 12200	1282914.36	1/8/2020 7:53:05 PM
A8	0A08052-CAL8	500	10150.088	5.075 = 25375	2669063.5	1/8/2020 8:03:52 PM
A9	0A08052-CAL9	1000	9978.708	9.979 = 49875	5248863.92	1/8/2020 8:14:39 PM
A97	0A08052-IBL1	200	175.463	0.035	17562.96	1/8/2020 8:25:25 PM
A10	0A08052-ICV1	200	10013.587✓	2.003✓	1052723.4	1/8/2020 8:36:26 PM
A11	0A08052-ICB1	200	64.139✓	0.013✓	5849.56	1/8/2020 8:47:20 PM
A2	clean2	200	8.545	0.002	0	1/8/2020 8:58:06 PM
A3	clean3	200	8.545	0.002	0	1/8/2020 9:09:00 PM
A4	clean4	200	8.545	0.002	0	1/8/2020 9:19:46 PM
A5	clean5	200	8.545	0.002	0	1/8/2020 9:30:33 PM
A6	clean6	200	8.545	0.002	0	1/8/2020 9:41:20 PM
A7	clean7	200	8.545	0.002	0	1/8/2020 9:52:06 PM
A8	clean8	200	8.545	0.002	0	1/8/2020 10:02:53 PM
A9	clean9	200	49.259	0.01	4283.87	1/8/2020 10:13:40 PM
A10	clean10	200	8.545	0.002	0	1/8/2020 10:24:26 PM

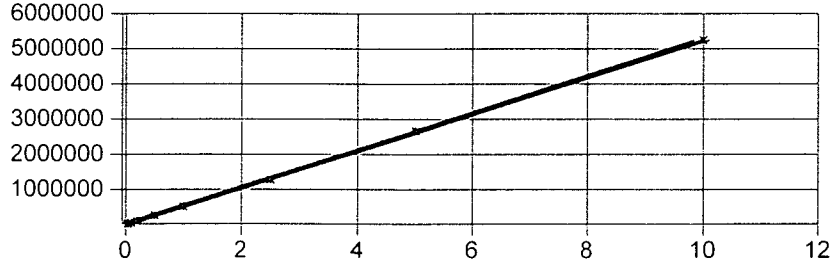




SNACCESS

METHOD NAME : TCDIRECT CALIBRATION TYPE : ISO FIRST ORDER GROUP : 1

A = -899.10605459823300 B = 526096.46424181900000 R = 0.99994117364848 R-SQUARED = 0.99988235075750



APEX LABORATORIES, LLC
6700 SW Sandburg St. Tigard OR 97223 phone 503-718-2323

Total Solids by SM2540G
Benchsheet Data

Batch 0020537 (A0B0411-01,02,03,04,05)

APEX LABORATORIES

Apex Laboratories

PREPARATION BENCH SHEET

FEB 2 7 2020

Percent Solids + Dry Weight Worksheet

BATCH #: 0020537 (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
A0B0411-01	Dry Weight		02/18/20 10:30		1.2650	29.2615	24.2563	82.1	Use Results from TS.. Make NR once completed.
A0B0411-01	Solids, Total (SM 254		02/18/20 10:30					0.0	Use Results for Dry Weight (Not for Waters)
0020537-DUP1	QC	A0B0411-01	02/18/20 10:30		1.2513	26.7616	21.8382	80.7	
A0B0411-02	Dry Weight		02/18/20 10:30		1.2637	27.3958	22.2272	80.2	Use Results from TS.. Make NR once completed.
A0B0411-02	Solids, Total (SM 254		02/18/20 10:30					0.0	Use Results for Dry Weight (Not for Waters)
A0B0411-03	Dry Weight		02/18/20 10:30		1.2580	26.7484	21.2396	78.4	Use Results from TS.. Make NR once completed.
A0B0411-03	Solids, Total (SM 254		02/18/20 10:30					0.0	Use Results for Dry Weight (Not for Waters)
A0B0411-04	Dry Weight		02/18/20 10:30		1.2547	27.1068	23.1138	84.6	Use Results from TS.. Make NR once completed.
A0B0411-04	Solids, Total (SM 254		02/18/20 10:30					0.0	Use Results for Dry Weight (Not for Waters)
A0B0411-05	Dry Weight		02/18/20 10:30		1.2487	28.3650	23.9243	83.6	Use Results from TS.. Make NR once completed.
A0B0411-05	Solids, Total (SM 254		02/18/20 10:30					0.0	Use Results for Dry Weight (Not for Waters)

UMB 2/19/20
Prepared By: Date

Reviewed By: 2/19/2020
Date

Printed: 2/19/2020 10:27:47AM

Total Solids Worksheet

Analyst: AMB Date: 02/18/20 Batch: 0020537

Sample ID	Vessel ID	Tare Weight (g)	Wet+ Tare Weight (g)	Dry Weight (g)	
				1st weighing	2nd weighing
A0B0411-01	11	1.265	29.2615	24.2563	24.2571
0020537-DUP1	12	1.2513	26.7616	21.8382	21.8391
A0B0411-02	13	1.2637	27.3958	22.2272	22.2293
A0B0411-03	14	1.258	26.7484	21.2396	21.2416
A0B0411-04	15	1.2547	27.1068	23.1138	23.1175
A0B0411-05	16	1.2487	28.365	23.9243	23.9268
			Oven Temp at Sample Introduction	103.8	103.7
			Oven Temp at sample removal	103.8	103.8
			Time/date	07:36 2/19/20	09:26 2/19/20

APEX LABORATORIES, LLC
6700 SW Sandburg St. Tigard OR 97223 phone 503-718-2323

Balance Checksheets

Extractions February 2020
Wet Chem February 2020

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.

Alternate Weight/ID used:

Date Range:

Month: February
Year: 2020

Day/Time	Initials	Weight One	Observed	Weight Two	Observed
1					
2					
3 0722	AJJ		0.50		299.97
4 0723	AJJ		0.49		299.99
5 0739	CAH		0.50		299.98
6 0725	CAH		0.49		299.99
7 0731	CAH		0.50		299.98
8					
9					
10 07:20	JAG		.51		298.99
11 07:15	CAH		.50		299.99
12 07:25	JAG		.51		299.99
13 11:35	asa		.50		299.98
14 07:23	JAG		.51		300.00
15					
16		0.50g		300.00g	
17 7:17	CAH		0.50		299.99
18 1040	AJJ		0.50		299.99
19 09:25	JAG		.50		299.99
20 0831	AJJ		0.50		299.97
21 0914	AJJ		0.49		299.97
22					
23					
24 07:05	JAG		.50		299.98
25 07:40	JAG		.49		299.97
26 07:15	JAG		.50		299.98
27 07:30	CAH		0.51		299.99
28 07:20	JAG		.51		299.99
29					
30					
31					

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: February
Year: 2020

Alternate Weight/ID used:

Date Range:

Day/Time	Initials	Weight 1	Observed	Weight 2	Observed	Weight 3	Observed
1							
2				MAS 4-20			
3 1010	MAS		99.9999	0.0998	~~0.9998~~		0.0050
4 10:40	MAS		99.9997		0.0999		0.0050
5 10:25	MAS		99.9997		0.0998		0.0050
6 10:15	MAS		99.9999		0.0999		0.0050
7 13:13	MAS		100.0002		0.1000		0.0048
8							
9							
10 1147	MAS		99.9998		0.1000		0.0050
11 1339	MAS		99.9997		0.0997		0.0051
12 1136	MAS		99.9993		0.0999		0.0051
13							
14 1036	MAS		99.9996		0.1002		0.0050
15							
16		100.0000g		0.1000g		.0050g	
17 1016	MAS		99.9993		0.1000		0.0051
18 956	AMB		99.9990		0.0999		0.0049
19 807	AMB		99.9989		0.1001		0.0051
20 1150	MAS		99.9985		0.0998		0.0053
21 1113	MAS		99.9982		0.0998		0.0049
22							
23							
24 1040	MAS		99.9981		0.0999		0.0050
25 1040	MAS		99.9981		0.1000		0.0050
26 1032	MAS		99.9981		0.1000		0.0050
27 1050	MAS		99.9982		0.1000		0.0047
28 1230	MAS		99.9985		0.0999		0.0048
29							
30							
31							