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 #:

A0B0680

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: 04/03/2020
Project: Gasco PreRD_DG 2019 – 4a-b. DOC-CAP Testing Cores
Apex Work Order Number: A0B0680

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

Tuesday, March 3, 2020

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

RE: A0B0680 - 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 A0B0680, which was received by the laboratory on 10/16/2019 at 10:00:00AM.

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	1.1 degC	Cooler #2	1.4 degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.
All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.

Apex Laboratories

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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

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**	**A0B0680 - 03 03 20 1458**

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PDI-049SC-A-03-04-191015	A0B0680-01	Sediment	10/15/19 13:29	10/16/19 10:00
PDI-049SC-A-04-05-191015	A0B0680-02	Sediment	10/15/19 13:29	10/16/19 10:00
PDI-049SC-A-05-06-191015	A0B0680-03	Sediment	10/15/19 13:29	10/16/19 10:00
PDI-049SC-A-06-07-191015	A0B0680-04	Sediment	10/15/19 13:29	10/16/19 10:00
PDI-049SC-A-07-08-191015	A0B0680-05	Sediment	10/15/19 13:29	10/16/19 10:00

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EPA ID: OR01039

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**	**A0B0680 - 03 03 20 1458**

ANALYTICAL SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
PDI-049SC-A-03-04-191015 (A0B0680-01RE3)				**Matrix: Sediment**		**Batch: 0020917**		**C-07**
Aroclor 1016	ND	5.83	11.6	ug/kg dry	5	03/02/20 16:49	EPA 8082A	
Aroclor 1221	ND	5.83	11.6	ug/kg dry	5	03/02/20 16:49	EPA 8082A	
Aroclor 1232	ND	5.83	11.6	ug/kg dry	5	03/02/20 16:49	EPA 8082A	
Aroclor 1242	**13.4**	5.83	11.6	ug/kg dry	5	03/02/20 16:49	EPA 8082A	**P-10**
Aroclor 1248	ND	5.83	11.6	ug/kg dry	5	03/02/20 16:49	EPA 8082A	
Aroclor 1254	**17.0**	5.83	11.6	ug/kg dry	5	03/02/20 16:49	EPA 8082A	**P-10**
Aroclor 1260	**16.3**	5.83	11.6	ug/kg dry	5	03/02/20 16:49	EPA 8082A	**P-10**
Aroclor 1262	ND	5.83	11.6	ug/kg dry	5	03/02/20 16:49	EPA 8082A	
Aroclor 1268	ND	5.83	11.6	ug/kg dry	5	03/02/20 16:49	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		*Recovery: 52 %*		*Limits: 43-120 %*	*5*	*03/02/20 16:49*	*EPA 8082A*	
PDI-049SC-A-04-05-191015 (A0B0680-02RE1)				**Matrix: Sediment**		**Batch: 0020809**		**C-07**
Aroclor 1016	ND	3.16	3.16	ug/kg dry	1	03/02/20 08:29	EPA 8082A	R-02
Aroclor 1221	ND	2.33	2.33	ug/kg dry	1	03/02/20 08:29	EPA 8082A	
Aroclor 1232	ND	7.71	7.71	ug/kg dry	1	03/02/20 08:29	EPA 8082A	R-02
Aroclor 1242	ND	4.21	4.21	ug/kg dry	1	03/02/20 08:29	EPA 8082A	R-02
Aroclor 1248	ND	8.59	8.59	ug/kg dry	1	03/02/20 08:29	EPA 8082A	
Aroclor 1254	**9.38**	1.17	2.33	ug/kg dry	1	03/02/20 08:29	EPA 8082A	**P-10**
Aroclor 1260	**9.26**	1.17	2.33	ug/kg dry	1	03/02/20 08:29	EPA 8082A	**P-10**
Aroclor 1262	ND	1.17	2.33	ug/kg dry	1	03/02/20 08:29	EPA 8082A	
Aroclor 1268	ND	1.17	2.33	ug/kg dry	1	03/02/20 08:29	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		*Recovery: 50 %*		*Limits: 43-120 %*	*1*	*03/02/20 08:29*	*EPA 8082A*	
PDI-049SC-A-05-06-191015 (A0B0680-03RE1)				**Matrix: Sediment**		**Batch: 0020809**		**C-07**
Aroclor 1016	ND	1.06	2.10	ug/kg dry	1	03/02/20 09:04	EPA 8082A	
Aroclor 1221	ND	1.06	2.10	ug/kg dry	1	03/02/20 09:04	EPA 8082A	
Aroclor 1232	ND	1.06	2.10	ug/kg dry	1	03/02/20 09:04	EPA 8082A	
Aroclor 1242	ND	1.06	2.10	ug/kg dry	1	03/02/20 09:04	EPA 8082A	
Aroclor 1248	ND	1.06	2.10	ug/kg dry	1	03/02/20 09:04	EPA 8082A	
Aroclor 1254	ND	2.10	2.10	ug/kg dry	1	03/02/20 09:04	EPA 8082A	Q-42
Aroclor 1260	**3.10**	1.06	2.10	ug/kg dry	1	03/02/20 09:04	EPA 8082A	**Q-42**
Aroclor 1262	ND	1.06	2.10	ug/kg dry	1	03/02/20 09:04	EPA 8082A	Q-42
Aroclor 1268	ND	1.06	2.10	ug/kg dry	1	03/02/20 09:04	EPA 8082A	Q-42

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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

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**	**A0B0680 - 03 03 20 1458**

ANALYTICAL SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
PDI-049SC-A-05-06-191015 (A0B0680-03RE1)				**Matrix: Sediment**		**Batch: 0020809**		**C-07**
Surrogate: Decachlorobiphenyl (Surr)			*Recovery: 53 %*	*Limits: 43-120 %*	*1*	*03/02/20 09:04*	*EPA 8082A*	
PDI-049SC-A-06-07-191015 (A0B0680-04)				**Matrix: Sediment**		**Batch: 0020809**		**C-07**
Aroclor 1016	ND	0.900	1.79	ug/kg dry	1	02/27/20 15:10	EPA 8082A	
Aroclor 1221	ND	0.900	1.79	ug/kg dry	1	02/27/20 15:10	EPA 8082A	
Aroclor 1232	ND	0.900	1.79	ug/kg dry	1	02/27/20 15:10	EPA 8082A	
Aroclor 1242	ND	0.900	1.79	ug/kg dry	1	02/27/20 15:10	EPA 8082A	
Aroclor 1248	ND	0.900	1.79	ug/kg dry	1	02/27/20 15:10	EPA 8082A	
Aroclor 1254	ND	0.900	1.79	ug/kg dry	1	02/27/20 15:10	EPA 8082A	
Aroclor 1260	ND	0.900	1.79	ug/kg dry	1	02/27/20 15:10	EPA 8082A	
Aroclor 1262	ND	0.900	1.79	ug/kg dry	1	02/27/20 15:10	EPA 8082A	
Aroclor 1268	ND	0.900	1.79	ug/kg dry	1	02/27/20 15:10	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)			*Recovery: 73 %*	*Limits: 43-120 %*	*1*	*02/27/20 15:10*	*EPA 8082A*	
PDI-049SC-A-07-08-191015 (A0B0680-05)				**Matrix: Sediment**		**Batch: 0020809**		**C-07**
Aroclor 1016	ND	0.818	1.62	ug/kg dry	1	02/27/20 15:45	EPA 8082A	
Aroclor 1221	ND	0.818	1.62	ug/kg dry	1	02/27/20 15:45	EPA 8082A	
Aroclor 1232	ND	0.818	1.62	ug/kg dry	1	02/27/20 15:45	EPA 8082A	
Aroclor 1242	ND	0.818	1.62	ug/kg dry	1	02/27/20 15:45	EPA 8082A	
Aroclor 1248	ND	0.818	1.62	ug/kg dry	1	02/27/20 15:45	EPA 8082A	
Aroclor 1254	ND	0.818	1.62	ug/kg dry	1	02/27/20 15:45	EPA 8082A	
Aroclor 1260	ND	0.818	1.62	ug/kg dry	1	02/27/20 15:45	EPA 8082A	
Aroclor 1262	ND	0.818	1.62	ug/kg dry	1	02/27/20 15:45	EPA 8082A	
Aroclor 1268	ND	0.818	1.62	ug/kg dry	1	02/27/20 15:45	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)			*Recovery: 92 %*	*Limits: 43-120 %*	*1*	*02/27/20 15:45*	*EPA 8082A*	

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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**	**A0B0680 - 03 03 20 1458**

ANALYTICAL SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
PDI-049SC-A-03-04-191015 (A0B0680-01RE1)				**Matrix: Sediment**		**Batch: 0020808**		**C-05, H-08**
2,4'-DDD	**39.4**	8.62	17.2	ug/kg dry	5	02/28/20 19:52	EPA 8081B	
2,4'-DDE	**18.8**	8.62	17.2	ug/kg dry	5	02/28/20 19:52	EPA 8081B	
2,4'-DDT	ND	8.62	17.2	ug/kg dry	5	02/28/20 19:52	EPA 8081B	
4,4'-DDD	**95.1**	8.62	17.2	ug/kg dry	5	02/28/20 19:52	EPA 8081B	
4,4'-DDE	**17.9**	8.62	17.2	ug/kg dry	5	02/28/20 19:52	EPA 8081B	**P-11**
4,4'-DDT	ND	8.62	17.2	ug/kg dry	5	02/28/20 19:52	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr)		*Recovery: 90 %*		*Limits: 42-129 %*	*5*	*02/28/20 19:52*	*EPA 8081B*	
Decachlorobiphenyl (Surr)		*111 %*		*55-130 %*	*5*	*02/28/20 19:52*	*EPA 8081B*	
PDI-049SC-A-04-05-191015 (A0B0680-02RE1)				**Matrix: Sediment**		**Batch: 0020808**		**C-05, H-08**
2,4'-DDD	**29.0**	8.65	17.3	ug/kg dry	5	02/28/20 20:30	EPA 8081B	
2,4'-DDE	**17.7**	8.65	17.3	ug/kg dry	5	02/28/20 20:30	EPA 8081B	
2,4'-DDT	ND	8.65	17.3	ug/kg dry	5	02/28/20 20:30	EPA 8081B	
4,4'-DDD	**80.1**	8.65	17.3	ug/kg dry	5	02/28/20 20:30	EPA 8081B	
4,4'-DDE	**14.3**	8.65	17.3	ug/kg dry	5	02/28/20 20:30	EPA 8081B	**J, P-11**
4,4'-DDT	ND	8.65	17.3	ug/kg dry	5	02/28/20 20:30	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr)		*Recovery: 87 %*		*Limits: 42-129 %*	*5*	*02/28/20 20:30*	*EPA 8081B*	
Decachlorobiphenyl (Surr)		*101 %*		*55-130 %*	*5*	*02/28/20 20:30*	*EPA 8081B*	
PDI-049SC-A-05-06-191015 (A0B0680-03RE1)				**Matrix: Sediment**		**Batch: 0020808**		**C-05, H-08, R-04**
2,4'-DDD	ND	7.71	15.4	ug/kg dry	5	02/28/20 21:07	EPA 8081B	
2,4'-DDE	ND	7.71	15.4	ug/kg dry	5	02/28/20 21:07	EPA 8081B	
2,4'-DDT	ND	7.71	15.4	ug/kg dry	5	02/28/20 21:07	EPA 8081B	
4,4'-DDD	ND	7.71	15.4	ug/kg dry	5	02/28/20 21:07	EPA 8081B	
4,4'-DDE	ND	7.71	15.4	ug/kg dry	5	02/28/20 21:07	EPA 8081B	
4,4'-DDT	ND	7.71	15.4	ug/kg dry	5	02/28/20 21:07	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr)		*Recovery: 90 %*		*Limits: 42-129 %*	*5*	*02/28/20 21:07*	*EPA 8081B*	
Decachlorobiphenyl (Surr)		*119 %*		*55-130 %*	*5*	*02/28/20 21:07*	*EPA 8081B*	
PDI-049SC-A-06-07-191015 (A0B0680-04RE1)				**Matrix: Sediment**		**Batch: 0020808**		**C-05, H-08, R-04**
2,4'-DDD	ND	2.60	5.20	ug/kg dry	2	02/28/20 17:55	EPA 8081B	
2,4'-DDE	ND	2.60	5.20	ug/kg dry	2	02/28/20 17:55	EPA 8081B	
2,4'-DDT	ND	2.60	5.20	ug/kg dry	2	02/28/20 17:55	EPA 8081B	
4,4'-DDD	ND	2.60	5.20	ug/kg dry	2	02/28/20 17:55	EPA 8081B	

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EPA ID: OR01039

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6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0B0680 - 03 03 20 1458**

ANALYTICAL SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
PDI-049SC-A-06-07-191015 (A0B0680-04RE1)				**Matrix: Sediment**		**Batch: 0020808**		**C-05, H-08, R-04**
4,4'-DDE	ND	2.60	5.20	ug/kg dry	2	02/28/20 17:55	EPA 8081B	
4,4'-DDT	ND	2.60	5.20	ug/kg dry	2	02/28/20 17:55	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr)		*Recovery: 79 %*	*Limits: 42-129 %*		*2*	*02/28/20 17:55*	*EPA 8081B*	
Decachlorobiphenyl (Surr)		*100 %*	*55-130 %*		*2*	*02/28/20 17:55*	*EPA 8081B*	
PDI-049SC-A-07-08-191015 (A0B0680-05RE1)				**Matrix: Sediment**		**Batch: 0020808**		**C-05, H-08**
2,4'-DDD	ND	1.22	2.45	ug/kg dry	1	02/28/20 15:32	EPA 8081B	
2,4'-DDE	ND	1.22	2.45	ug/kg dry	1	02/28/20 15:32	EPA 8081B	
2,4'-DDT	ND	1.22	2.45	ug/kg dry	1	02/28/20 15:32	EPA 8081B	
4,4'-DDD	ND	1.22	2.45	ug/kg dry	1	02/28/20 15:32	EPA 8081B	
4,4'-DDE	ND	1.22	2.45	ug/kg dry	1	02/28/20 15:32	EPA 8081B	
4,4'-DDT	ND	1.22	2.45	ug/kg dry	1	02/28/20 15:32	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr)		*Recovery: 68 %*	*Limits: 42-129 %*		*1*	*02/28/20 15:32*	*EPA 8081B*	
Decachlorobiphenyl (Surr)		*89 %*	*55-130 %*		*1*	*02/28/20 15:32*	*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**	**A0B0680 - 03 03 20 1458**

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-049SC-A-03-04-191015 (A0B0680-01RE1)				**Matrix: Sediment**		**Batch: 0020782**		**H-08**
Acenaphthene	**34800**	2220	4440	ug/kg dry	1000	02/27/20 18:51	EPA 8270D	
Acenaphthylene	**4550**	2220	4440	ug/kg dry	1000	02/27/20 18:51	EPA 8270D	
Anthracene	**23000**	2220	4440	ug/kg dry	1000	02/27/20 18:51	EPA 8270D	
Benz(a)anthracene	**31100**	2220	4440	ug/kg dry	1000	02/27/20 18:51	EPA 8270D	
Benzo(a)pyrene	**43200**	2220	4440	ug/kg dry	1000	02/27/20 18:51	EPA 8270D	
Benzo(b)fluoranthene	**40500**	2220	4440	ug/kg dry	1000	02/27/20 18:51	EPA 8270D	
Benzo(k)fluoranthene	**13000**	2220	4440	ug/kg dry	1000	02/27/20 18:51	EPA 8270D	**M-05**
Benzo(g,h,i)perylene	**36800**	2220	4440	ug/kg dry	1000	02/27/20 18:51	EPA 8270D	
Chrysene	**42100**	2220	4440	ug/kg dry	1000	02/27/20 18:51	EPA 8270D	
Dibenz(a,h)anthracene	**4470**	2220	4440	ug/kg dry	1000	02/27/20 18:51	EPA 8270D	
Fluoranthene	**97700**	2220	4440	ug/kg dry	1000	02/27/20 18:51	EPA 8270D	
Fluorene	**18500**	2220	4440	ug/kg dry	1000	02/27/20 18:51	EPA 8270D	
Indeno(1,2,3-cd)pyrene	**30900**	2220	4440	ug/kg dry	1000	02/27/20 18:51	EPA 8270D	
2-Methylnaphthalene	**5010**	2220	4440	ug/kg dry	1000	02/27/20 18:51	EPA 8270D	
Naphthalene	**13400**	2220	4440	ug/kg dry	1000	02/27/20 18:51	EPA 8270D	
Phenanthrene	**122000**	2220	4440	ug/kg dry	1000	02/27/20 18:51	EPA 8270D	
Pyrene	**119000**	2220	4440	ug/kg dry	1000	02/27/20 18:51	EPA 8270D	
Surrogate: 2-Fluorobiphenyl (Surr)		*Recovery:*	*150 %*	*Limits: 44-115 %*	*1000*	*02/27/20 18:51*	*EPA 8270D*	*S-05*
p-Terphenyl-d14 (Surr)			*220 %*	*54-127 %*	*1000*	*02/27/20 18:51*	*EPA 8270D*	*S-05*
PDI-049SC-A-04-05-191015 (A0B0680-02)				**Matrix: Sediment**		**Batch: 0020782**		**H-08**
Acenaphthene	**20200**	2070	4140	ug/kg dry	1000	02/27/20 11:23	EPA 8270D	
Acenaphthylene	**4280**	2070	4140	ug/kg dry	1000	02/27/20 11:23	EPA 8270D	
Anthracene	**14600**	2070	4140	ug/kg dry	1000	02/27/20 11:23	EPA 8270D	
Benz(a)anthracene	**14800**	2070	4140	ug/kg dry	1000	02/27/20 11:23	EPA 8270D	
Benzo(a)pyrene	**19400**	2070	4140	ug/kg dry	1000	02/27/20 11:23	EPA 8270D	
Benzo(b)fluoranthene	**16900**	2070	4140	ug/kg dry	1000	02/27/20 11:23	EPA 8270D	
Benzo(k)fluoranthene	**6840**	2070	4140	ug/kg dry	1000	02/27/20 11:23	EPA 8270D	**M-05**
Benzo(g,h,i)perylene	**16500**	2070	4140	ug/kg dry	1000	02/27/20 11:23	EPA 8270D	
Chrysene	**19200**	2070	4140	ug/kg dry	1000	02/27/20 11:23	EPA 8270D	
Dibenz(a,h)anthracene	ND	2070	4140	ug/kg dry	1000	02/27/20 11:23	EPA 8270D	
Fluoranthene	**55000**	2070	4140	ug/kg dry	1000	02/27/20 11:23	EPA 8270D	
Fluorene	**11700**	2070	4140	ug/kg dry	1000	02/27/20 11:23	EPA 8270D	

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Darwin Thomas, Business Development Director

Apex Laboratories, LLC

6700 S.W. Sandburg Street
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503-718-2323
EPA ID: OR01039

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**	**A0B0680 - 03 03 20 1458**

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-049SC-A-04-05-191015 (A0B0680-02)				**Matrix: Sediment**		**Batch: 0020782**		**H-08**
Indeno(1,2,3-cd)pyrene	**13900**	2070	4140	ug/kg dry	1000	02/27/20 11:23	EPA 8270D	
2-Methylnaphthalene	**4060**	2070	4140	ug/kg dry	1000	02/27/20 11:23	EPA 8270D	**J**
Naphthalene	**8470**	2070	4140	ug/kg dry	1000	02/27/20 11:23	EPA 8270D	
Phenanthrene	**85300**	2070	4140	ug/kg dry	1000	02/27/20 11:23	EPA 8270D	
Pyrene	**69500**	2070	4140	ug/kg dry	1000	02/27/20 11:23	EPA 8270D	
Surrogate: 2-Fluorobiphenyl (Surr)		*Recovery:*	*136 %*	*Limits: 44-115 %*	*1000*	*02/27/20 11:23*	*EPA 8270D*	*S-05*
p-Terphenyl-d14 (Surr)			*186 %*	*54-127 %*	*1000*	*02/27/20 11:23*	*EPA 8270D*	*S-05*
PDI-049SC-A-05-06-191015 (A0B0680-03)				**Matrix: Sediment**		**Batch: 0020782**		**H-08**
Acenaphthene	**17400**	1850	3690	ug/kg dry	1000	02/27/20 11:55	EPA 8270D	
Acenaphthylene	**3000**	1850	3690	ug/kg dry	1000	02/27/20 11:55	EPA 8270D	**J**
Anthracene	**13200**	1850	3690	ug/kg dry	1000	02/27/20 11:55	EPA 8270D	
Benz(a)anthracene	**12800**	1850	3690	ug/kg dry	1000	02/27/20 11:55	EPA 8270D	
Benzo(a)pyrene	**19700**	1850	3690	ug/kg dry	1000	02/27/20 11:55	EPA 8270D	
Benzo(b)fluoranthene	**16900**	1850	3690	ug/kg dry	1000	02/27/20 11:55	EPA 8270D	
Benzo(k)fluoranthene	**6490**	1850	3690	ug/kg dry	1000	02/27/20 11:55	EPA 8270D	**M-05**
Benzo(g,h,i)perylene	**17100**	1850	3690	ug/kg dry	1000	02/27/20 11:55	EPA 8270D	
Chrysene	**17900**	1850	3690	ug/kg dry	1000	02/27/20 11:55	EPA 8270D	
Dibenz(a,h)anthracene	ND	1850	3690	ug/kg dry	1000	02/27/20 11:55	EPA 8270D	
Fluoranthene	**56900**	1850	3690	ug/kg dry	1000	02/27/20 11:55	EPA 8270D	
Fluorene	**11100**	1850	3690	ug/kg dry	1000	02/27/20 11:55	EPA 8270D	
Indeno(1,2,3-cd)pyrene	**14300**	1850	3690	ug/kg dry	1000	02/27/20 11:55	EPA 8270D	
2-Methylnaphthalene	ND	1850	3690	ug/kg dry	1000	02/27/20 11:55	EPA 8270D	
Naphthalene	**4780**	1850	3690	ug/kg dry	1000	02/27/20 11:55	EPA 8270D	
Phenanthrene	**79600**	1850	3690	ug/kg dry	1000	02/27/20 11:55	EPA 8270D	
Pyrene	**66800**	1850	3690	ug/kg dry	1000	02/27/20 11:55	EPA 8270D	
Surrogate: 2-Fluorobiphenyl (Surr)		*Recovery:*	*87 %*	*Limits: 44-115 %*	*1000*	*02/27/20 11:55*	*EPA 8270D*	*S-05*
p-Terphenyl-d14 (Surr)			*130 %*	*54-127 %*	*1000*	*02/27/20 11:55*	*EPA 8270D*	*S-05*
PDI-049SC-A-06-07-191015 (A0B0680-04RE1)				**Matrix: Sediment**		**Batch: 0020782**		**H-08**
Acenaphthene	**1870**	166	331	ug/kg dry	100	02/27/20 19:55	EPA 8270D	
Acenaphthylene	**179**	166	331	ug/kg dry	100	02/27/20 19:55	EPA 8270D	**J**
Anthracene	**492**	166	331	ug/kg dry	100	02/27/20 19:55	EPA 8270D	

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EPA ID: OR01039

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**	**A0B0680 - 03 03 20 1458**

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-049SC-A-06-07-191015 (A0B0680-04RE1)				**Matrix: Sediment**		**Batch: 0020782**		**H-08**
Benz(a)anthracene	**1240**	166	331	ug/kg dry	100	02/27/20 19:55	EPA 8270D	
Benzo(a)pyrene	**1960**	166	331	ug/kg dry	100	02/27/20 19:55	EPA 8270D	
Benzo(b)fluoranthene	**1690**	166	331	ug/kg dry	100	02/27/20 19:55	EPA 8270D	
Benzo(k)fluoranthene	**540**	166	331	ug/kg dry	100	02/27/20 19:55	EPA 8270D	**M-05**
Benzo(g,h,i)perylene	**1890**	166	331	ug/kg dry	100	02/27/20 19:55	EPA 8270D	
Chrysene	**1790**	166	331	ug/kg dry	100	02/27/20 19:55	EPA 8270D	
Dibenz(a,h)anthracene	ND	166	331	ug/kg dry	100	02/27/20 19:55	EPA 8270D	
Fluoranthene	**5100**	166	331	ug/kg dry	100	02/27/20 19:55	EPA 8270D	
Fluorene	**1040**	166	331	ug/kg dry	100	02/27/20 19:55	EPA 8270D	
Indeno(1,2,3-cd)pyrene	**1510**	166	331	ug/kg dry	100	02/27/20 19:55	EPA 8270D	
2-Methylnaphthalene	ND	166	331	ug/kg dry	100	02/27/20 19:55	EPA 8270D	
Naphthalene	**518**	166	331	ug/kg dry	100	02/27/20 19:55	EPA 8270D	
Phenanthrene	**7360**	166	331	ug/kg dry	100	02/27/20 19:55	EPA 8270D	
Pyrene	**6000**	166	331	ug/kg dry	100	02/27/20 19:55	EPA 8270D	
Surrogate: 2-Fluorobiphenyl (Surr)		*Recovery:*	*77 %*	*Limits: 44-115 %*	*100*	*02/27/20 19:55*	*EPA 8270D*	*S-05*
p-Terphenyl-d14 (Surr)			*79 %*	*54-127 %*	*100*	*02/27/20 19:55*	*EPA 8270D*	*S-05*
PDI-049SC-A-07-08-191015 (A0B0680-05)				**Matrix: Sediment**		**Batch: 0020782**		**H-08**
Acenaphthene	**96.6**	30.9	61.8	ug/kg dry	20	02/26/20 13:28	EPA 8270D	
Acenaphthylene	ND	30.9	61.8	ug/kg dry	20	02/26/20 13:28	EPA 8270D	
Anthracene	**36.6**	30.9	61.8	ug/kg dry	20	02/26/20 13:28	EPA 8270D	**J**
Benz(a)anthracene	**76.8**	30.9	61.8	ug/kg dry	20	02/26/20 13:28	EPA 8270D	
Benzo(a)pyrene	**113**	30.9	61.8	ug/kg dry	20	02/26/20 13:28	EPA 8270D	
Benzo(b)fluoranthene	**102**	30.9	61.8	ug/kg dry	20	02/26/20 13:28	EPA 8270D	
Benzo(k)fluoranthene	**33.1**	30.9	61.8	ug/kg dry	20	02/26/20 13:28	EPA 8270D	**J**
Benzo(g,h,i)perylene	**98.6**	30.9	61.8	ug/kg dry	20	02/26/20 13:28	EPA 8270D	
Chrysene	**107**	30.9	61.8	ug/kg dry	20	02/26/20 13:28	EPA 8270D	
Dibenz(a,h)anthracene	ND	30.9	61.8	ug/kg dry	20	02/26/20 13:28	EPA 8270D	
Fluoranthene	**346**	30.9	61.8	ug/kg dry	20	02/26/20 13:28	EPA 8270D	
Fluorene	**56.6**	30.9	61.8	ug/kg dry	20	02/26/20 13:28	EPA 8270D	**J**
Indeno(1,2,3-cd)pyrene	**85.8**	30.9	61.8	ug/kg dry	20	02/26/20 13:28	EPA 8270D	
2-Methylnaphthalene	ND	30.9	61.8	ug/kg dry	20	02/26/20 13:28	EPA 8270D	
Naphthalene	**47.3**	30.9	61.8	ug/kg dry	20	02/26/20 13:28	EPA 8270D	**J**

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EPA ID: OR01039

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**	**A0B0680 - 03 03 20 1458**

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-049SC-A-07-08-191015 (A0B0680-05)				**Matrix: Sediment**		**Batch: 0020782**		**H-08**
Phenanthrene	**564**	30.9	61.8	ug/kg dry	20	02/26/20 13:28	EPA 8270D	
Pyrene	**390**	30.9	61.8	ug/kg dry	20	02/26/20 13:28	EPA 8270D	
Surrogate: 2-Fluorobiphenyl (Surr)			*Recovery: 87 %*	*Limits: 44-115 %*	*20*	*02/26/20 13:28*	*EPA 8270D*	
p-Terphenyl-d14 (Surr)			*86 %*	*54-127 %*	*20*	*02/26/20 13:28*	*EPA 8270D*	

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Portland, OR 97219	Project Manager: **Ryan Barth**	**A0B0680 - 03 03 20 1458**

ANALYTICAL SAMPLE RESULTS

Demand Parameters

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
PDI-049SC-A-03-04-191015 (A0B0680-01)				**Matrix: Sediment**				
Batch: 0020837								
Total Organic Carbon	**4.3**	0.020	0.020	% by Weight	1	02/27/20 23:58	SM 5310 B MOD	**H-08**
PDI-049SC-A-04-05-191015 (A0B0680-02)				**Matrix: Sediment**				
Batch: 0020837								
Total Organic Carbon	**3.6**	0.020	0.020	% by Weight	1	02/28/20 00:30	SM 5310 B MOD	**H-08**
PDI-049SC-A-05-06-191015 (A0B0680-03)				**Matrix: Sediment**				
Batch: 0020837								
Total Organic Carbon	**2.9**	0.020	0.020	% by Weight	1	02/28/20 00:41	SM 5310 B MOD	**H-08**
PDI-049SC-A-06-07-191015 (A0B0680-04)				**Matrix: Sediment**				
Batch: 0020837								
Total Organic Carbon	**0.41**	0.020	0.020	% by Weight	1	02/28/20 00:52	SM 5310 B MOD	**H-08**
PDI-049SC-A-07-08-191015 (A0B0680-05)				**Matrix: Sediment**				
Batch: 0020837								
Total Organic Carbon	**0.068**	0.020	0.020	% by Weight	1	02/28/20 01:03	SM 5310 B MOD	**H-08**

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6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0B0680 - 03 03 20 1458**

ANALYTICAL SAMPLE RESULTS

Solid and Moisture Determinations

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
PDI-049SC-A-03-04-191015 (A0B0680-01)				**Matrix: Sediment**				
Batch: 0020800								
Total Solids	**56.2**	1.00	1.00	% by Weight	1	02/27/20 18:17	SM 2540 G	
PDI-049SC-A-04-05-191015 (A0B0680-02)				**Matrix: Sediment**				
Batch: 0020800								
Total Solids	**56.5**	1.00	1.00	% by Weight	1	02/27/20 18:17	SM 2540 G	
PDI-049SC-A-05-06-191015 (A0B0680-03)				**Matrix: Sediment**				
Batch: 0020800								
Total Solids	**62.0**	1.00	1.00	% by Weight	1	02/27/20 18:17	SM 2540 G	
PDI-049SC-A-06-07-191015 (A0B0680-04)				**Matrix: Sediment**				
Batch: 0020800								
Total Solids	**73.7**	1.00	1.00	% by Weight	1	02/27/20 18:17	SM 2540 G	
PDI-049SC-A-07-08-191015 (A0B0680-05)				**Matrix: Sediment**				
Batch: 0020800								
Total Solids	**80.0**	1.00	1.00	% by Weight	1	02/27/20 18:17	SM 2540 G	

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6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0B0680 - 03 03 20 1458**

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 0020809 - EPA 3546							**Sediment**					
Blank (0020809-BLK1)			Prepared: 02/26/20 12:42		Analyzed: 02/27/20 08:24							**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	---	---	---	---	---	---	
Surr: Decachlorobiphenyl (Surr)			*Recovery: 92 %*		*Limits: 43-120 %*			*Dilution: 1x*				
LCS (0020809-BS1)			Prepared: 02/26/20 12:42		Analyzed: 02/27/20 08:42							**C-07**
EPA 8082A												
Aroclor 1016	57.3	0.670	1.33	ug/kg wet	1	83.3	---	69	47-134%	---	---	
Aroclor 1260	67.8	0.670	1.33	ug/kg wet	1	83.3	---	81	53-140%	---	---	
Surr: Decachlorobiphenyl (Surr)			*Recovery: 91 %*		*Limits: 43-120 %*			*Dilution: 1x*				
Duplicate (0020809-DUP1)			Prepared: 02/26/20 12:42		Analyzed: 02/27/20 10:45							**C-07**
QC Source Sample: Non-SDG (A0B0679-03)												
Aroclor 1016	ND	0.722	1.43	ug/kg dry	1	---	ND	---	---	---	30%	
Aroclor 1221	ND	0.722	1.43	ug/kg dry	1	---	ND	---	---	---	30%	
Aroclor 1232	ND	0.722	1.43	ug/kg dry	1	---	ND	---	---	---	30%	
Aroclor 1242	ND	0.722	1.43	ug/kg dry	1	---	ND	---	---	---	30%	
Aroclor 1248	ND	0.722	1.43	ug/kg dry	1	---	ND	---	---	---	30%	
Aroclor 1254	ND	0.722	1.43	ug/kg dry	1	---	ND	---	---	---	30%	
Aroclor 1260	ND	0.722	1.43	ug/kg dry	1	---	ND	---	---	---	30%	
Surr: Decachlorobiphenyl (Surr)			*Recovery: 88 %*		*Limits: 43-120 %*			*Dilution: 1x*				
Matrix Spike (0020809-MS2)			Prepared: 02/26/20 12:42		Analyzed: 03/02/20 09:40							**C-07**
QC Source Sample: PDI-049SC-A-05-06-191015 (A0B0680-03)												
EPA 8082A												
Aroclor 1016	64.1	1.06	2.10	ug/kg dry	1	131	ND	49	47-134%	---	---	
Aroclor 1260	63.9	1.06	2.10	ug/kg dry	1	131	ND	**49**	**53-140%**	---	---	Q-01
Surr: Decachlorobiphenyl (Surr)			*Recovery: 57 %*		*Limits: 43-120 %*			*Dilution: 1x*				

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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**	**A0B0680 - 03 03 20 1458**

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 0020809 - EPA 3546							**Sediment**					
Matrix Spike Dup (0020809-MSD2)			Prepared: 02/26/20 12:45		Analyzed: 03/02/20 10:15							**C-07**
QC Source Sample: PDI-049SC-A-05-06-191015 (A0B0680-03)												
EPA 8082A												
Aroclor 1016	65.0	1.06	2.10	ug/kg dry	1	132	ND	49	47-134%	1	30%	
Aroclor 1260	66.9	1.06	2.10	ug/kg dry	1	132	ND	**51**	**53-140%**	4	30%	Q-01
Surr: Decachlorobiphenyl (Surr)			*Recovery: 54 %*		*Limits: 43-120 %*		*Dilution: 1x*					

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6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0B0680 - 03 03 20 1458**

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 0020917 - EPA 3546							**Sediment**					
Blank (0020917-BLK1)			Prepared: 03/02/20 07:03		Analyzed: 03/02/20 12:41							**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: 88 %*		*Limits: 43-120 %*			*Dilution: 1x*				
LCS (0020917-BS1)			Prepared: 03/02/20 07:03		Analyzed: 03/02/20 12:58							**C-07**
EPA 8082A												
Aroclor 1016	59.1	0.670	1.33	ug/kg wet	1	83.3	---	71	47-134%	---	---	
Aroclor 1260	74.3	0.670	1.33	ug/kg wet	1	83.3	---	89	53-140%	---	---	
Surr: Decachlorobiphenyl (Surr)			*Recovery: 98 %*		*Limits: 43-120 %*			*Dilution: 1x*				
Duplicate (0020917-DUP2)			Prepared: 03/02/20 07:03		Analyzed: 03/02/20 17:24							**C-07**
QC Source Sample: PDI-049SC-A-03-04-191015 (A0B0680-01RE3)												
EPA 8082A												
Aroclor 1016	ND	5.94	11.8	ug/kg dry	5	---	ND	---	---	---	30%	
Aroclor 1221	ND	5.94	11.8	ug/kg dry	5	---	ND	---	---	---	30%	
Aroclor 1232	ND	5.94	11.8	ug/kg dry	5	---	ND	---	---	---	30%	
Aroclor 1242	**10.7**	5.94	11.8	ug/kg dry	5	---	13.4	---	---	22	30%	J
Aroclor 1248	ND	5.94	11.8	ug/kg dry	5	---	ND	---	---	---	30%	
Aroclor 1254	**11.5**	5.94	11.8	ug/kg dry	5	---	17.0	---	---	**39**	**30%**	J, Q-05
Aroclor 1260	**11.1**	5.94	11.8	ug/kg dry	5	---	16.3	---	---	**38**	**30%**	J, Q-05
Surr: Decachlorobiphenyl (Surr)			*Recovery: 32 %*		*Limits: 43-120 %*			*Dilution: 5x*				S-03
Matrix Spike (0020917-MS1)			Prepared: 03/02/20 07:03		Analyzed: 03/02/20 13:16							**C-07**
QC Source Sample: Non-SDG (A0B0681-03RE1)												
EPA 8082A												

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503-718-2323
EPA ID: OR01039

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**	**A0B0680 - 03 03 20 1458**

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 0020917 - EPA 3546							**Sediment**					
Matrix Spike (0020917-MS1)			Prepared: 03/02/20 07:03		Analyzed: 03/02/20 13:16							**C-07**
QC Source Sample: Non-SDG (A0B0681-03RE1)												
Aroclor 1016	49.4	0.668	1.33	ug/kg wet	1	83.1	ND	59	47-134%	---	---	
Aroclor 1260	70.3	0.668	1.33	ug/kg wet	1	83.1	ND	85	53-140%	---	---	
Surr: Decachlorobiphenyl (Surr)			*Recovery: 92 %*		*Limits: 43-120 %*		*Dilution: 1x*					
Matrix Spike Dup (0020917-MSD1)			Prepared: 03/02/20 07:03		Analyzed: 03/02/20 13:51							**C-07**
QC Source Sample: Non-SDG (A0B0681-03RE1)												
Aroclor 1016	51.6	0.669	1.33	ug/kg wet	1	83.2	ND	62	47-134%	4	30%	
Aroclor 1260	70.9	0.669	1.33	ug/kg wet	1	83.2	ND	85	53-140%	0.9	30%	
Surr: Decachlorobiphenyl (Surr)			*Recovery: 92 %*		*Limits: 43-120 %*		*Dilution: 1x*					

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EPA ID: OR01039

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**	**A0B0680 - 03 03 20 1458**

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 0020808 - EPA 3546/3640A (GPC)							**Sediment**					
Blank (0020808-BLK1)			Prepared: 02/26/20 08:03		Analyzed: 02/27/20 15:09							**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: 59 %*		*Limits: 42-129 %*			*Dilution: 1x*				
Decachlorobiphenyl (Surr)			*102 %*		*55-130 %*			*"*				
LCS (0020808-BS1)			Prepared: 02/26/20 08:03		Analyzed: 02/27/20 15:26							**C-05**
EPA 8081B												
2,4'-DDD	44.4	1.00	2.00	ug/kg wet	1	50.0	---	89	50-150%	---	---	
2,4'-DDE	38.3	1.00	2.00	ug/kg wet	1	50.0	---	77	50-150%	---	---	
2,4'-DDT	42.1	1.00	2.00	ug/kg wet	1	50.0	---	84	50-150%	---	---	
4,4'-DDD	46.7	1.00	2.00	ug/kg wet	1	50.0	---	93	50-150%	---	---	
4,4'-DDE	43.1	1.00	2.00	ug/kg wet	1	50.0	---	86	50-150%	---	---	
4,4'-DDT	44.6	1.00	2.00	ug/kg wet	1	50.0	---	89	50-150%	---	---	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 55 %*		*Limits: 42-129 %*			*Dilution: 1x*				
Decachlorobiphenyl (Surr)			*87 %*		*55-130 %*			*"*				
Duplicate (0020808-DUP1)			Prepared: 02/26/20 08:03		Analyzed: 02/27/20 16:16							**C-05, H-08**
QC Source Sample: Non-SDG (A0B0679-02RE1)												
2,4'-DDD	ND	1.26	2.52	ug/kg dry	1	---	ND	---	---	---	30%	
2,4'-DDE	ND	1.26	2.52	ug/kg dry	1	---	ND	---	---	---	30%	
2,4'-DDT	ND	1.26	2.52	ug/kg dry	1	---	ND	---	---	---	30%	
4,4'-DDD	ND	1.26	2.52	ug/kg dry	1	---	ND	---	---	---	30%	
4,4'-DDE	ND	1.26	2.52	ug/kg dry	1	---	ND	---	---	---	30%	
4,4'-DDT	ND	1.26	2.52	ug/kg dry	1	---	ND	---	---	---	30%	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 58 %*		*Limits: 42-129 %*			*Dilution: 1x*				
Decachlorobiphenyl (Surr)			*89 %*		*55-130 %*			*"*				
Matrix Spike (0020808-MS1)			Prepared: 02/26/20 08:03		Analyzed: 02/28/20 18:33							**C-05, H-08, R-04**

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EPA ID: OR01039

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**	**A0B0680 - 03 03 20 1458**

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 0020808 - EPA 3546/3640A (GPC)							**Sediment**					
Matrix Spike (0020808-MS1)			Prepared: 02/26/20 08:03		Analyzed: 02/28/20 18:33							**C-05, H-08, R-04**
QC Source Sample: PDI-049SC-A-06-07-191015 (A0B0680-04RE1)												
EPA 8081B												
2,4'-DDD	62.5	2.61	5.23	ug/kg dry	2	65.3	ND	96	50-150%	---	---	
2,4'-DDE	60.8	2.61	5.23	ug/kg dry	2	65.3	ND	93	50-150%	---	---	
2,4'-DDT	65.5	2.61	5.23	ug/kg dry	2	65.3	ND	100	50-150%	---	---	
4,4'-DDD	71.6	2.61	5.23	ug/kg dry	2	65.3	ND	110	50-150%	---	---	
4,4'-DDE	69.7	2.61	5.23	ug/kg dry	2	65.3	ND	107	50-150%	---	---	
4,4'-DDT	67.9	2.61	5.23	ug/kg dry	2	65.3	ND	104	50-150%	---	---	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 84 %*		*Limits: 42-129 %*							
Decachlorobiphenyl (Surr)			*104 %*		*55-130 %*							
Matrix Spike Dup (0020808-MSD1)			Prepared: 02/26/20 08:03		Analyzed: 02/28/20 19:15							**C-05, H-08, R-04**
QC Source Sample: PDI-049SC-A-06-07-191015 (A0B0680-04RE1)												
EPA 8081B												
2,4'-DDD	66.9	2.59	5.19	ug/kg dry	2	64.8	ND	103	50-150%	7	35%	
2,4'-DDE	62.7	2.59	5.19	ug/kg dry	2	64.8	ND	97	50-150%	3	35%	
2,4'-DDT	67.9	2.59	5.19	ug/kg dry	2	64.8	ND	105	50-150%	4	35%	
4,4'-DDD	71.3	2.59	5.19	ug/kg dry	2	64.8	ND	110	50-150%	0.5	30%	
4,4'-DDE	67.5	2.59	5.19	ug/kg dry	2	64.8	ND	104	50-150%	3	30%	
4,4'-DDT	68.6	2.59	5.19	ug/kg dry	2	64.8	ND	106	50-150%	1	30%	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 84 %*		*Limits: 42-129 %*							
Decachlorobiphenyl (Surr)			*109 %*		*55-130 %*							

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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**	**A0B0680 - 03 03 20 1458**

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 0020782 - EPA 3546							**Sediment**					
Blank (0020782-BLK1)			Prepared: 02/26/20 07:50		Analyzed: 02/26/20 11:19							
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: 103 %*		*Limits: 44-115 %*			*Dilution: 1x*				
p-Terphenyl-d14 (Surr)			*110 %*		*54-127 %*			*"*				
LCS (0020782-BS1)			Prepared: 02/26/20 07:50		Analyzed: 02/26/20 11:52							
EPA 8270D												
Acenaphthene	19.0	1.25	2.50	ug/kg wet	1	20.0	---	95	40-122%	---	---	
Acenaphthylene	17.9	1.25	2.50	ug/kg wet	1	20.0	---	90	32-132%	---	---	
Anthracene	18.4	1.25	2.50	ug/kg wet	1	20.0	---	92	47-123%	---	---	
Benz(a)anthracene	17.4	1.25	2.50	ug/kg wet	1	20.0	---	87	49-126%	---	---	
Benzo(a)pyrene	18.2	1.25	2.50	ug/kg wet	1	20.0	---	91	45-129%	---	---	
Benzo(b)fluoranthene	18.5	1.25	2.50	ug/kg wet	1	20.0	---	93	45-132%	---	---	
Benzo(k)fluoranthene	18.3	1.25	2.50	ug/kg wet	1	20.0	---	91	47-132%	---	---	
Benzo(g,h,i)perylene	18.0	1.25	2.50	ug/kg wet	1	20.0	---	90	43-134%	---	---	
Chrysene	19.0	1.25	2.50	ug/kg wet	1	20.0	---	95	50-124%	---	---	
Dibenz(a,h)anthracene	17.7	1.25	2.50	ug/kg wet	1	20.0	---	89	45-134%	---	---	
Fluoranthene	20.0	1.25	2.50	ug/kg wet	1	20.0	---	100	50-127%	---	---	

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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**	**A0B0680 - 03 03 20 1458**

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 0020782 - EPA 3546							**Sediment**					
LCS (0020782-BS1)			Prepared: 02/26/20 07:50		Analyzed: 02/26/20 11:52							
Fluorene	18.2	1.25	2.50	ug/kg wet	1	20.0	---	91	43-125%	---	---	
Indeno(1,2,3-cd)pyrene	17.4	1.25	2.50	ug/kg wet	1	20.0	---	87	45-133%	---	---	
2-Methylnaphthalene	17.8	1.25	2.50	ug/kg wet	1	20.0	---	89	38-122%	---	---	
Naphthalene	19.1	1.25	2.50	ug/kg wet	1	20.0	---	96	35-123%	---	---	
Phenanthrene	18.7	1.25	2.50	ug/kg wet	1	20.0	---	94	50-121%	---	---	
Pyrene	18.9	1.25	2.50	ug/kg wet	1	20.0	---	95	47-127%	---	---	
Surr: 2-Fluorobiphenyl (Surr)			*Recovery: 105 %*		*Limits: 44-115 %*				*Dilution: 1x*			
p-Terphenyl-d14 (Surr)			*104 %*		*54-127 %*				*"*			
Duplicate (0020782-DUP1)			Prepared: 02/26/20 07:50		Analyzed: 02/26/20 12:56							**H-08**
QC Source Sample: Non-SDG (A0B0679-01)												
Acenaphthene	**25.3**	1.40	2.79	ug/kg dry	1	---	25.6	---	---	0.8	30%	
Acenaphthylene	**1.74**	1.40	2.79	ug/kg dry	1	---	2.00	---	---	14	30%	J
Anthracene	**6.63**	1.40	2.79	ug/kg dry	1	---	7.58	---	---	13	30%	
Benz(a)anthracene	**11.6**	1.40	2.79	ug/kg dry	1	---	13.7	---	---	17	30%	
Benzo(a)pyrene	**8.47**	1.40	2.79	ug/kg dry	1	---	8.49	---	---	0.3	30%	
Benzo(b)fluoranthene	**7.53**	1.40	2.79	ug/kg dry	1	---	7.55	---	---	0.3	30%	
Benzo(k)fluoranthene	**3.23**	1.40	2.79	ug/kg dry	1	---	3.23	---	---	0.2	30%	M-05
Benzo(g,h,i)perylene	**5.14**	1.40	2.79	ug/kg dry	1	---	5.38	---	---	5	30%	
Chrysene	**15.2**	1.40	2.79	ug/kg dry	1	---	17.8	---	---	16	30%	
Dibenz(a,h)anthracene	ND	1.40	2.79	ug/kg dry	1	---	ND	---	---	---	30%	
Fluoranthene	**48.2**	1.40	2.79	ug/kg dry	1	---	56.5	---	---	16	30%	
Fluorene	**12.2**	1.40	2.79	ug/kg dry	1	---	12.9	---	---	6	30%	
Indeno(1,2,3-cd)pyrene	**5.01**	1.40	2.79	ug/kg dry	1	---	5.06	---	---	1	30%	
2-Methylnaphthalene	**1.55**	1.40	2.79	ug/kg dry	1	---	1.43	---	---	9	30%	J
Naphthalene	**8.26**	1.40	2.79	ug/kg dry	1	---	9.14	---	---	10	30%	
Phenanthrene	**19.9**	1.40	2.79	ug/kg dry	1	---	20.7	---	---	4	30%	
Pyrene	**59.4**	1.40	2.79	ug/kg dry	1	---	70.4	---	---	17	30%	
Surr: 2-Fluorobiphenyl (Surr)			*Recovery: 94 %*		*Limits: 44-115 %*				*Dilution: 1x*			
p-Terphenyl-d14 (Surr)			*93 %*		*54-127 %*				*"*			
Matrix Spike (0020782-MS1)			Prepared: 02/26/20 07:50		Analyzed: 02/26/20 14:00							**H-08**
QC Source Sample: PDI-049SC-A-07-08-191015 (A0B0680-05)												

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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**	**A0B0680 - 03 03 20 1458**

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 0020782 - EPA 3546							**Sediment**					
Matrix Spike (0020782-MS1)			Prepared: 02/26/20 07:50		Analyzed: 02/26/20 14:00							**H-08**
QC Source Sample: PDI-049SC-A-07-08-191015 (A0B0680-05)												
EPA 8270D												
Acenaphthene	106	31.0	62.0	ug/kg dry	20	24.8	96.6	**37**	**40-122%**	---	---	Q-11
Acenaphthylene	36.5	31.0	62.0	ug/kg dry	20	24.8	ND	**147**	**32-132%**	---	---	Q-11, J
Anthracene	56.1	31.0	62.0	ug/kg dry	20	24.8	36.6	78	47-123%	---	---	Q-11, J
Benz(a)anthracene	132	31.0	62.0	ug/kg dry	20	24.8	76.8	**222**	**49-126%**	---	---	Q-11
Benzo(a)pyrene	194	31.0	62.0	ug/kg dry	20	24.8	113	**327**	**45-129%**	---	---	Q-11
Benzo(b)fluoranthene	163	31.0	62.0	ug/kg dry	20	24.8	102	**247**	**45-132%**	---	---	Q-11
Benzo(k)fluoranthene	85.0	31.0	62.0	ug/kg dry	20	24.8	33.1	**210**	**47-132%**	---	---	Q-11
Benzo(g,h,i)perylene	186	31.0	62.0	ug/kg dry	20	24.8	98.6	**352**	**43-134%**	---	---	Q-11
Chrysene	186	31.0	62.0	ug/kg dry	20	24.8	107	**318**	**50-124%**	---	---	Q-11
Dibenz(a,h)anthracene	33.8	31.0	62.0	ug/kg dry	20	24.8	ND	**136**	**45-134%**	---	---	Q-11, J
Fluoranthene	472	31.0	62.0	ug/kg dry	20	24.8	346	**508**	**50-127%**	---	---	Q-11
Fluorene	71.2	31.0	62.0	ug/kg dry	20	24.8	56.6	59	43-125%	---	---	Q-11
Indeno(1,2,3-cd)pyrene	164	31.0	62.0	ug/kg dry	20	24.8	85.8	**315**	**45-133%**	---	---	Q-11
2-Methylnaphthalene	ND	31.0	62.0	ug/kg dry	20	24.8	ND		**38-122%**	---	---	Q-11
Naphthalene	65.3	31.0	62.0	ug/kg dry	20	24.8	47.3	73	35-123%	---	---	Q-11
Phenanthrene	668	31.0	62.0	ug/kg dry	20	24.8	564	**420**	**50-121%**	---	---	Q-11
Pyrene	579	31.0	62.0	ug/kg dry	20	24.8	390	**763**	**47-127%**	---	---	Q-11
Surr: 2-Fluorobiphenyl (Surr)			*Recovery: 86 %*		*Limits: 44-115 %*			*Dilution: 20x*				
p-Terphenyl-d14 (Surr)			*83 %*		*54-127 %*			*"*				
Matrix Spike Dup (0020782-MSD1)			Prepared: 02/26/20 07:50		Analyzed: 02/26/20 14:32							**H-08**
QC Source Sample: PDI-049SC-A-07-08-191015 (A0B0680-05)												
EPA 8270D												
Acenaphthene	154	30.9	61.8	ug/kg dry	20	24.7	96.6	**233**	**40-122%**	**37**	**30%**	Q-11
Acenaphthylene	35.7	30.9	61.8	ug/kg dry	20	24.7	ND	**144**	**32-132%**	2	30%	Q-11, J
Anthracene	62.4	30.9	61.8	ug/kg dry	20	24.7	36.6	104	47-123%	11	30%	Q-11
Benz(a)anthracene	115	30.9	61.8	ug/kg dry	20	24.7	76.8	**154**	**49-126%**	14	30%	Q-11
Benzo(a)pyrene	160	30.9	61.8	ug/kg dry	20	24.7	113	**192**	**45-129%**	19	30%	Q-11
Benzo(b)fluoranthene	143	30.9	61.8	ug/kg dry	20	24.7	102	**165**	**45-132%**	13	30%	Q-11
Benzo(k)fluoranthene	65.3	30.9	61.8	ug/kg dry	20	24.7	33.1	130	47-132%	26	30%	Q-11
Benzo(g,h,i)perylene	152	30.9	61.8	ug/kg dry	20	24.7	98.6	**216**	**43-134%**	20	30%	Q-11
Chrysene	156	30.9	61.8	ug/kg dry	20	24.7	107	**195**	**50-124%**	18	30%	Q-11

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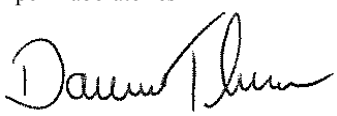

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Darwin Thomas, Business Development Director

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

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**	**A0B0680 - 03 03 20 1458**

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 0020782 - EPA 3546							**Sediment**					
Matrix Spike Dup (0020782-MSD1)			Prepared: 02/26/20 07:50		Analyzed: 02/26/20 14:32							**H-08**
QC Source Sample: PDI-049SC-A-07-08-191015 (A0B0680-05)												
Dibenz(a,h)anthracene	ND	30.9	61.8	ug/kg dry	20	24.7	ND		**45-134%**	**200**	**30%**	Q-11
Fluoranthene	457	30.9	61.8	ug/kg dry	20	24.7	346	**448**	**50-127%**	3	30%	Q-11
Fluorene	89.5	30.9	61.8	ug/kg dry	20	24.7	56.6	**133**	**43-125%**	23	30%	Q-11
Indeno(1,2,3-cd)pyrene	141	30.9	61.8	ug/kg dry	20	24.7	85.8	**224**	**45-133%**	15	30%	Q-11
2-Methylnaphthalene	36.2	30.9	61.8	ug/kg dry	20	24.7	ND	**146**	**38-122%**	**200**	**30%**	Q-11, J
Naphthalene	124	30.9	61.8	ug/kg dry	20	24.7	47.3	**309**	**35-123%**	**62**	**30%**	Q-11
Phenanthrene	730	30.9	61.8	ug/kg dry	20	24.7	564	**671**	**50-121%**	9	30%	Q-11
Pyrene	562	30.9	61.8	ug/kg dry	20	24.7	390	**696**	**47-127%**	3	30%	Q-11
Surr: 2-Fluorobiphenyl (Surr)			*Recovery: 88 %*		*Limits: 44-115 %*				*Dilution: 20x*			
p-Terphenyl-d14 (Surr)			*88 %*		*54-127 %*				*"*			

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Portland, OR 97219	Project Manager: **Ryan Barth**	**A0B0680 - 03 03 20 1458**

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 0020837 - PSEP-5310B TOC							**Sediment**					
Blank (0020837-BLK1)			Prepared: 02/26/20 12:20		Analyzed: 02/27/20 23:36							
SM 5310 B MOD												
Total Organic Carbon	ND	0.020	0.020	% by Weight	1	---	---	---	---	---	---	
LCS (0020837-BS1)			Prepared: 02/26/20 12:20		Analyzed: 02/27/20 23:47							
SM 5310 B MOD												
Total Organic Carbon	9700			mg/kg	1	10000	---	97	90-110%	---	---	
Duplicate (0020837-DUP1)			Prepared: 02/26/20 17:00		Analyzed: 02/28/20 00:09							
QC Source Sample: PDI-049SC-A-03-04-191015 (A0B0680-01)												
SM 5310 B MOD												
Total Organic Carbon	**3.9**	0.020	0.020	% by Weight	1	---	4.3	---	---	9	20%	H-08
Duplicate (0020837-DUP2)			Prepared: 02/26/20 17:00		Analyzed: 02/28/20 00:20							
QC Source Sample: PDI-049SC-A-03-04-191015 (A0B0680-01)												
SM 5310 B MOD												
Total Organic Carbon	**4.2**	0.020	0.020	% by Weight	1	---	4.3	---	---	2	20%	H-08
Duplicate (0020837-DUP3)			Prepared: 02/26/20 12:20		Analyzed: 02/28/20 01:46							
QC Source Sample: Non-SDG (A0B0681-01)												
Total Organic Carbon	**0.068**	0.020	0.020	% by Weight	1	---	0.074	---	---	8	20%	H-08

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Portland, OR 97219	Project Manager: **Ryan Barth**	**A0B0680 - 03 03 20 1458**

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 0020800 - Total Solids (SM2540G/PSEP)							**Sediment**					
Duplicate (0020800-DUP1)			Prepared: 02/26/20 10:29		Analyzed: 02/27/20 18:17							
QC Source Sample: PDI-049SC-A-03-04-191015 (A0B0680-01)												
SM 2540 G												
Total Solids	**57.6**	1.00	1.00	% by Weight	1	---	56.2	---	---	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: 0020809							
A0B0680-02RE1	Sediment	EPA 8082A	10/15/19 13:29	02/26/20 12:42	30.29g/2mL	30g/2mL	0.99
A0B0680-03RE1	Sediment	EPA 8082A	10/15/19 13:29	02/26/20 12:42	30.67g/2mL	30g/2mL	0.98
A0B0680-04	Sediment	EPA 8082A	10/15/19 13:29	02/26/20 12:42	30.28g/2mL	30g/2mL	0.99
A0B0680-05	Sediment	EPA 8082A	10/15/19 13:29	02/26/20 12:42	30.71g/2mL	30g/2mL	0.98
Batch: 0020917							
A0B0680-01RE3	Sediment	EPA 8082A	10/15/19 13:29	03/02/20 07:03	30.7g/2mL	30g/2mL	0.98

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: 0020808							
A0B0680-01RE1	Sediment	EPA 8081B	10/15/19 13:29	02/26/20 08:03	10.33g/10mL	10g/5mL	1.94
A0B0680-02RE1	Sediment	EPA 8081B	10/15/19 13:29	02/26/20 08:03	10.23g/10mL	10g/5mL	1.96
A0B0680-03RE1	Sediment	EPA 8081B	10/15/19 13:29	02/26/20 08:03	10.47g/10mL	10g/5mL	1.91
A0B0680-04RE1	Sediment	EPA 8081B	10/15/19 13:29	02/26/20 08:03	10.43g/10mL	10g/5mL	1.92
A0B0680-05RE1	Sediment	EPA 8081B	10/15/19 13:29	02/26/20 08:03	10.21g/10mL	10g/5mL	1.96

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: 0020782							
A0B0680-01RE1	Sediment	EPA 8270D	10/15/19 13:29	02/26/20 07:50	10.03g/5mL	10g/5mL	1.00
A0B0680-02	Sediment	EPA 8270D	10/15/19 13:29	02/26/20 07:50	10.69g/5mL	10g/5mL	0.94
A0B0680-03	Sediment	EPA 8270D	10/15/19 13:29	02/26/20 07:50	10.92g/5mL	10g/5mL	0.92
A0B0680-04RE1	Sediment	EPA 8270D	10/15/19 13:29	02/26/20 07:50	10.24g/5mL	10g/5mL	0.98
A0B0680-05	Sediment	EPA 8270D	10/15/19 13:29	02/26/20 07:50	10.12g/5mL	10g/5mL	0.99

Demand Parameters

Prep: PSEP-5310B TOC

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 0020837							
A0B0680-01	Sediment	SM 5310 B MOD	10/15/19 13:29	02/26/20 17:00			NA
A0B0680-02	Sediment	SM 5310 B MOD	10/15/19 13:29	02/26/20 17:00			NA

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6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0B0680 - 03 03 20 1458**

SAMPLE PREPARATION INFORMATION

Demand Parameters

Prep: PSEP-5310B TOC

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A0B0680-03	Sediment	SM 5310 B MOD	10/15/19 13:29	02/26/20 17:00			NA
A0B0680-04	Sediment	SM 5310 B MOD	10/15/19 13:29	02/26/20 17:00			NA
A0B0680-05	Sediment	SM 5310 B MOD	10/15/19 13:29	02/26/20 17:00			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: 0020800							
A0B0680-01	Sediment	SM 2540 G	10/15/19 13:29	02/26/20 10:29			NA
A0B0680-02	Sediment	SM 2540 G	10/15/19 13:29	02/26/20 10:29			NA
A0B0680-03	Sediment	SM 2540 G	10/15/19 13:29	02/26/20 10:29			NA
A0B0680-04	Sediment	SM 2540 G	10/15/19 13:29	02/26/20 10:29			NA
A0B0680-05	Sediment	SM 2540 G	10/15/19 13:29	02/26/20 10:29			NA

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Portland, OR 97219	Project Manager: **Ryan Barth**	**A0B0680 - 03 03 20 1458**

QUALIFIER DEFINITIONS

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

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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.
P-10	Result estimated due to the presence of multiple PCB Aroclors and/or matrix interference.
P-11	Result estimated. Secondary column confirmation does not meet method criteria due to matrix interference.
Q-01	Spike recovery and/or RPD is outside acceptance limits.
Q-05	Analyses are not controlled on RPD values from sample and duplicate concentrations that are below 5 times the reporting level.
Q-11	Spike recovery cannot be accurately quantified due to sample dilution required for high analyte concentration and/or matrix interference.
Q-42	Matrix Spike and/or Duplicate analysis was performed on this sample. % Recovery or RPD for this analyte is outside laboratory control limits. (Refer to the QC Section of Analytical Report.)
R-02	The Reporting Limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.
R-04	Reporting levels elevated due to preparation and/or analytical dilution necessary for analysis.
S-03	Reextraction and analysis, or analysis of laboratory duplicate, confirms surrogate failure due to sample matrix effect.
S-05	Surrogate recovery is estimated due to sample dilution required for high analyte concentration and/or matrix interference.

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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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Portland, OR 97219	Project Manager: **Ryan Barth**	**A0B0680 - 03 03 20 1458**

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.

Apex Laboratories

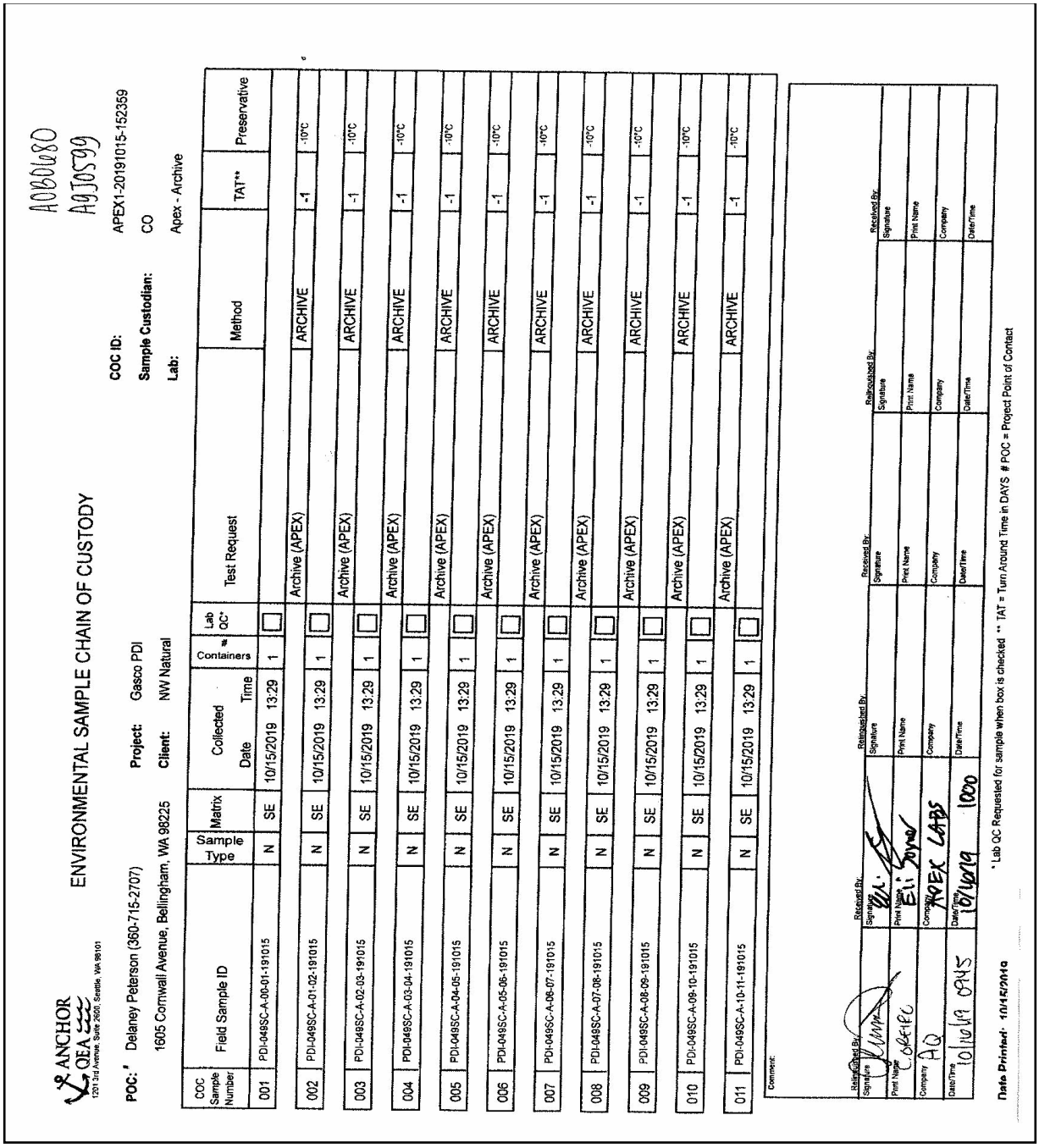
The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director

Apex Laboratories, LLC

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

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**	**A0B0680 - 03 03 20 1458**



ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

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

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

Project: Gasco PDI
Client: NW Natural

COC ID: APEX1-20191015-152359
Sample Custodian: CO
Lab: Apex - Archive

A0B0680
AJ10599

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Collected Time	Containers	Lab QC* #	Test Request	Method	TAT**	Preservative
001	PDI-049SC-A-00-01-191015	N	SE	10/15/2019	13:29	1		Archive (APEX)	ARCHIVE	-1	-10°C
002	PDI-049SC-A-01-02-191015	N	SE	10/15/2019	13:29	1		Archive (APEX)	ARCHIVE	-1	-10°C
003	PDI-049SC-A-02-03-191015	N	SE	10/15/2019	13:29	1		Archive (APEX)	ARCHIVE	-1	-10°C
004	PDI-049SC-A-03-04-191015	N	SE	10/15/2019	13:29	1		Archive (APEX)	ARCHIVE	-1	-10°C
005	PDI-049SC-A-04-05-191015	N	SE	10/15/2019	13:29	1		Archive (APEX)	ARCHIVE	-1	-10°C
006	PDI-049SC-A-05-06-191015	N	SE	10/15/2019	13:29	1		Archive (APEX)	ARCHIVE	-1	-10°C
007	PDI-049SC-A-06-07-191015	N	SE	10/15/2019	13:29	1		Archive (APEX)	ARCHIVE	-1	-10°C
008	PDI-049SC-A-07-08-191015	N	SE	10/15/2019	13:29	1		Archive (APEX)	ARCHIVE	-1	-10°C
009	PDI-049SC-A-08-09-191015	N	SE	10/15/2019	13:29	1		Archive (APEX)	ARCHIVE	-1	-10°C
010	PDI-049SC-A-09-10-191015	N	SE	10/15/2019	13:29	1		Archive (APEX)	ARCHIVE	-1	-10°C
011	PDI-049SC-A-10-11-191015	N	SE	10/15/2019	13:29	1		Archive (APEX)	ARCHIVE	-1	-10°C

Comments:

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: Colette / Company: AQ / Date/Time: 10/15/19 0945
Received By: Signature / Print Name: Eli Boyer / Company: APEX LABS / Date/Time: 10/15/19 1000

Date Printed: 10/15/2019

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

Apex Laboratories

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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

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**	**A0B0680 - 03 03 20 1458**

APEX LABS COOLER RECEIPT FORM

A0B0680

Client: Anchor -QEA Element WO#: A9 J0599

Project/Project #: Gasco PDI Archive

Delivery Info:

Date/time received: 10/16/19 @ 1000 By: EJ

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

Cooler Inspection Date/time inspected: 10/16/19 @ 1048 By: EJ

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

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)	1.1	1.4					
Received on ice? (Y/N)	Y	Y					
Temp. blanks? (Y/N)	Y	Y					
Ice type: (Gel/Real/Other)	Real	Real					
Condition:	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/N(NA)

Out of temperature samples form initiated? Yes/N(NA)

Samples Inspection: Date/time inspected: 10/16/19 @ 2137 By: EJ

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 X 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: 8) Witness: CM Cooler Inspected by: 8) 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)

A0B0680

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: 02/28/20 17:00 (92 day TAT)

Received By: Eli S. Joyner
Date Received: 10/16/19 10:00

Logged In By: Susan L. Treat
Date Logged In: 02/25/20 16:17

Cooler #1 received at 1.1°C

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

Analysis	Due	TAT	Expires	Comments
A0B0680-01 PDI-049SC-A-03-04-191015 [Sediment] Sampled 10/15/19 13:29 (GMT-08:00) Pacific Time (US & Canada) 1 Containers				**A9J0599-04**
Dry Weight				
Dry Weight	02/28/20 17:00	3	04/12/20 13:29	Use Results from TS.. Make NR once completed.
Project Mgmt				
Data Package	03/27/20 17:00	3	01/22/20 13:29	
Semivols (ECD)				
8081B 2,4+4,4-DDx Only (+Add)	02/28/20 17:00	3	10/29/19 13:29	MDL. Use Custom Spike.
8082 PCBs - Low Level (30g/2mL)	02/28/20 17:00	3	10/14/20 13:29	+1262,1268
Semivols (Scan)				
8270D LL PAH Only (Scan)	02/28/20 17:00	3	10/29/19 13:29	
Wet Chem				
Solids, Total (SM 2540 G,B)	02/28/20 17:00	3	04/12/20 13:29	Use Results for Dry Weight (Not for Waters)
Total Organic Carbon - Soil (5310 B)	02/28/20 17:00	3	11/12/19 13:29	

A0B0680

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

A0B0680-02 PDI-049SC-A-04-05-191015 [Sediment] Sampled 10/15/19 13:29 (GMT-08:00) Pacific Time (US & Canada) 1 Containers

A9J0599-05

Dry Weight				
Dry Weight	02/28/20 17:00	3	04/12/20 13:29	Use Results from TS.. Make NR once completed.
Semivols (ECD)				
8081B 2,4+4,4-DDx Only (+Add)	02/28/20 17:00	3	10/29/19 13:29	MDL. Use Custom Spike.
8082 PCBs - Low Level (30g/2mL)	02/28/20 17:00	3	10/14/20 13:29	+1262,1268
Semivols (Scan)				
8270D LL PAH Only (Scan)	02/28/20 17:00	3	10/29/19 13:29	
Wet Chem				
Solids, Total (SM 2540 G,B)	02/28/20 17:00	3	04/12/20 13:29	Use Results for Dry Weight (Not for Waters)
Total Organic Carbon - Soil (5310 B)	02/28/20 17:00	3	11/12/19 13:29	

A0B0680-03 PDI-049SC-A-05-06-191015 [Sediment] Sampled 10/15/19 13:29 (GMT-08:00) Pacific Time (US & Canada) 1 Containers

A9J0599-06

Dry Weight				
Dry Weight	02/28/20 17:00	3	04/12/20 13:29	Use Results from TS.. Make NR once completed.
Semivols (ECD)				
8081B 2,4+4,4-DDx Only (+Add)	02/28/20 17:00	3	10/29/19 13:29	MDL. Use Custom Spike.
8082 PCBs - Low Level (30g/2mL)	02/28/20 17:00	3	10/14/20 13:29	+1262,1268
Semivols (Scan)				
8270D LL PAH Only (Scan)	02/28/20 17:00	3	10/29/19 13:29	
Wet Chem				
Solids, Total (SM 2540 G,B)	02/28/20 17:00	3	04/12/20 13:29	Use Results for Dry Weight (Not for Waters)
Total Organic Carbon - Soil (5310 B)	02/28/20 17:00	3	11/12/19 13:29	

A0B0680-04 PDI-049SC-A-06-07-191015 [Sediment] Sampled 10/15/19 13:29 (GMT-08:00) Pacific Time (US & Canada) 1 Containers

A9J0599--07

Dry Weight				
Dry Weight	02/28/20 17:00	3	04/12/20 13:29	Use Results from TS.. Make NR once completed.
Semivols (ECD)				
8081B 2,4+4,4-DDx Only (+Add)	02/28/20 17:00	3	10/29/19 13:29	MDL. Use Custom Spike.
8082 PCBs - Low Level (30g/2mL)	02/28/20 17:00	3	10/14/20 13:29	+1262,1268
Semivols (Scan)				
8270D LL PAH Only (Scan)	02/28/20 17:00	3	10/29/19 13:29	
Wet Chem				
Solids, Total (SM 2540 G,B)	02/28/20 17:00	3	04/12/20 13:29	Use Results for Dry Weight (Not for Waters)
Total Organic Carbon - Soil (5310 B)	02/28/20 17:00	3	11/12/19 13:29	

A0B0680

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**
A0B0680-05 PDI-049SC-A-07-08-191015 [Sediment] Sampled 10/15/19 13:29 (GMT-08:00) Pacific Time (US & Canada) 1 Containers				**A9J0599-08**
Dry Weight				
Dry Weight	02/28/20 17:00	3	04/12/20 13:29	Use Results from TS.. Make NR once completed.
Semivols (ECD)				
8081B 2,4+4,4-DDx Only (+Add)	02/28/20 17:00	3	10/29/19 13:29	MDL. Use Custom Spike.
8082 PCBs - Low Level (30g/2mL)	02/28/20 17:00	3	10/14/20 13:29	+1262,1268
Semivols (Scan)				
8270D LL PAH Only (Scan)	02/28/20 17:00	3	10/29/19 13:29	
Wet Chem				
Solids, Total (SM 2540 G,B)	02/28/20 17:00	3	04/12/20 13:29	Use Results for Dry Weight (Not for Waters)
Total Organic Carbon - Soil (5310 B)	02/28/20 17:00	3	11/12/19 13:29	

Reviewed By

Date

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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

A0B0680
AGJ0599

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

Project: Gasco PDI
Client: NW Natural

COC ID: APEX1-20191015-152359
Sample Custodian: CO
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-049SC-A-00-01-191015	N	SE	10/15/2019	13:29	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
002	PDI-049SC-A-01-02-191015	N	SE	10/15/2019	13:29	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
003	PDI-049SC-A-02-03-191015	N	SE	10/15/2019	13:29	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
004	PDI-049SC-A-03-04-191015	N	SE	10/15/2019	13:29	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
005	PDI-049SC-A-04-05-191015	N	SE	10/15/2019	13:29	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
006	PDI-049SC-A-05-06-191015	N	SE	10/15/2019	13:29	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
007	PDI-049SC-A-06-07-191015	N	SE	10/15/2019	13:29	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
008	PDI-049SC-A-07-08-191015	N	SE	10/15/2019	13:29	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
009	PDI-049SC-A-08-09-191015	N	SE	10/15/2019	13:29	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
010	PDI-049SC-A-09-10-191015	N	SE	10/15/2019	13:29	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
011	PDI-049SC-A-10-11-191015	N	SE	10/15/2019	13:29	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 COREPC	Print Name Eli Joyner	Print Name	Print Name	Print Name	Print Name
Company AQ	Company APEX LABS	Company	Company	Company	Company
Date/Time 10/16/19 0945	Date/Time 10/16/19 1000	Date/Time	Date/Time	Date/Time	Date/Time

Date Printed: 10/15/2019

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

APEX LABS COOLER RECEIPT FORM

AOB0680

Client: Anchor -QEA Element WO#: A9 J0599

Project/Project #: Gasco PDI Archive

Delivery Info:

Date/time received: 10/16/19 @ 1000 By: EJ

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

Cooler Inspection Date/time inspected: 10/16/19 @ 1048 By: EJ

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

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)	1.1	1.4					
Received on ice? (Y/N)	Y	Y					
Temp. blanks? (Y/N)	Y	Y					
Ice type: (Gel/Real/Other)	Real	Real					
Condition:	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/(N)/NA

Out of temperature samples form initiated? Yes/(N)/NA

Samples Inspection: Date/time inspected: 10/16/19 @ 2137 By: EJ

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 X 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: EJ Witness: [illegible] Cooler Inspected by: EJ 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

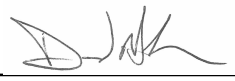
Client: Anchor QEA, LLC

SDG: Gasco PreRD_DG 2019

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

Client Sample Id:	Lab Sample Id:	Matrix
PDI-049SC-A-03-04-191015	A0B0680-01	Sediment
PDI-049SC-A-04-05-191015	A0B0680-02	Sediment
PDI-049SC-A-05-06-191015	A0B0680-03	Sediment
PDI-049SC-A-06-07-191015	A0B0680-04	Sediment
PDI-049SC-A-07-08-191015	A0B0680-05	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 12:43PM

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-049SC-A-03-04-191015

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:	A0B0680-01RE3	File ID:	ECD2F028.D
Sampled:	10/15/19 13:29	Prepared:	03/02/20 07:03	Analyzed:	03/02/20 16:49
Solids:	56.15	Preparation:	EPA 3546	Initial/Final:	30.7 g / 2 mL
Batch:	0020917	Sequence:	0C02025	Calibration:	A0B1902
Instrument:	DUALECD2F				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
12674-11-2	Aroclor 1016	5	5.83	U
11104-28-2	Aroclor 1221	5	5.83	U
11141-16-5	Aroclor 1232	5	5.83	U
53469-21-9	Aroclor 1242	5	13.4	D
12672-29-6	Aroclor 1248	5	5.83	U
11097-69-1	Aroclor 1254	5	17.0	D
11096-82-5	Aroclor 1260	5	16.3	D
37324-23-5	Aroclor 1262	5	5.83	U
11100-14-4	Aroclor 1268	5	5.83	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl (Surr)	29.0	15.2	52	43 - 120	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

PDI-049SC-A-04-05-191015

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:	A0B0680-02RE1	File ID:	ECD2F004.D
Sampled:	10/15/19 13:29	Prepared:	02/26/20 12:42	Analyzed:	03/02/20 08:29
Solids:	56.51	Preparation:	EPA 3546	Initial/Final:	30.29 g / 2 mL
Batch:	0020809	Sequence:	0C02025	Calibration:	A0B1902
Instrument:	DUALECD2F				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
12674-11-2	Aroclor 1016	1	3.16	U
11104-28-2	Aroclor 1221	1	2.33	U
11141-16-5	Aroclor 1232	1	7.71	U
53469-21-9	Aroclor 1242	1	4.21	U
12672-29-6	Aroclor 1248	1	8.59	U
11097-69-1	Aroclor 1254	1	9.38	
11096-82-5	Aroclor 1260	1	9.26	
37324-23-5	Aroclor 1262	1	1.17	U
11100-14-4	Aroclor 1268	1	1.17	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl (Surr)	29.2	14.5	50	43 - 120	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

PDI-049SC-A-05-06-191015

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:	A0B0680-03RE1	File ID:	ECD2F006.D
Sampled:	10/15/19 13:29	Prepared:	02/26/20 12:42	Analyzed:	03/02/20 09:04
Solids:	61.97	Preparation:	EPA 3546	Initial/Final:	30.67 g / 2 mL
Batch:	0020809	Sequence:	0C02025	Calibration:	A0B1902
Instrument:	DUALECD2F				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
12674-11-2	Aroclor 1016	1	1.06	U
11104-28-2	Aroclor 1221	1	1.06	U
11141-16-5	Aroclor 1232	1	1.06	U
53469-21-9	Aroclor 1242	1	1.06	U
12672-29-6	Aroclor 1248	1	1.06	U
11097-69-1	Aroclor 1254	1	2.10	U
11096-82-5	Aroclor 1260	1	3.10	
37324-23-5	Aroclor 1262	1	1.06	U
11100-14-4	Aroclor 1268	1	1.06	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl (Surr)	26.3	13.9	53	43 - 120	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

PDI-049SC-A-06-07-191015

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:	A0B0680-04	File ID:	ECD2R027.D
Sampled:	10/15/19 13:29	Prepared:	02/26/20 12:42	Analyzed:	02/27/20 15:10
Solids:	73.74	Preparation:	EPA 3546	Initial/Final:	30.28 g / 2 mL
Batch:	0020809	Sequence:	0B27017	Calibration:	A0A1501
Instrument:	DUALECD2R				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.900	U
11104-28-2	Aroclor 1221	1	0.900	U
11141-16-5	Aroclor 1232	1	0.900	U
53469-21-9	Aroclor 1242	1	0.900	U
12672-29-6	Aroclor 1248	1	0.900	U
11097-69-1	Aroclor 1254	1	0.900	U
11096-82-5	Aroclor 1260	1	0.900	U
37324-23-5	Aroclor 1262	1	0.900	U
11100-14-4	Aroclor 1268	1	0.900	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl (Surr)	22.4	16.5	73	43 - 120	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

PDI-049SC-A-07-08-191015

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:	A0B0680-05	File ID:	ECD2R029.D
Sampled:	10/15/19 13:29	Prepared:	02/26/20 12:42	Analyzed:	02/27/20 15:45
Solids:	79.99	Preparation:	EPA 3546	Initial/Final:	30.71 g / 2 mL
Batch:	0020809	Sequence:	0B27017	Calibration:	A0A1501
Instrument:	DUALECD2R				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.818	U
11104-28-2	Aroclor 1221	1	0.818	U
11141-16-5	Aroclor 1232	1	0.818	U
53469-21-9	Aroclor 1242	1	0.818	U
12672-29-6	Aroclor 1248	1	0.818	U
11097-69-1	Aroclor 1254	1	0.818	U
11096-82-5	Aroclor 1260	1	0.818	U
37324-23-5	Aroclor 1262	1	0.818	U
11100-14-4	Aroclor 1268	1	0.818	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl (Surr)	20.4	18.7	92	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: 0020809 Batch Matrix: Sediment Preparation: EPA 3546

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	0020809-BLK1	ECD2F004.D	02/26/20 12:42	
LCS	0020809-BS1	ECD2F005.D	02/26/20 12:42	
PDI-049SC-A-05-06-191015 (MS)	0020809-MS2	ECD2F008.D	02/26/20 12:42	
PDI-049SC-A-05-06-191015 (MSD)	0020809-MSD2	ECD2F010.D	02/26/20 12:45	
PDI-049SC-A-04-05-191015	A0B0680-02RE1	ECD2F004.D	02/26/20 12:42	
PDI-049SC-A-05-06-191015	A0B0680-03RE1	ECD2F006.D	02/26/20 12:42	
PDI-049SC-A-06-07-191015	A0B0680-04	ECD2R027.D	02/26/20 12:42	
PDI-049SC-A-07-08-191015	A0B0680-05	ECD2R029.D	02/26/20 12:42	

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

PREPARATION BATCH SUMMARY

EPA 8082A

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cc
Batch: 0020917 Batch Matrix: Sediment Preparation: EPA 3546

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	0020917-BLK1	ECD2F014.D	03/02/20 07:03	
LCS	0020917-BS1	ECD2F015.D	03/02/20 07:03	
PDI-049SC-A-03-04-191015 (Dup)	0020917-DUP2	ECD2F030.D	03/02/20 07:03	
PDI-049SC-A-03-04-191015	A0B0680-01RE3	ECD2F028.D	03/02/20 07:03	

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

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:	0020809-BLK1	File ID:	ECD2F004.D
Prepared:	02/26/20 12:42	Preparation:	EPA 3546	Initial/Final:	31 g / 2 mL
Analyzed:	02/27/20 08:24	Instrument:	DUALECD2F		
Batch:	0020809	Sequence:	0B27016	Calibration:	A0B1902

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

SYSTEM MONITORING COMPOUND	ADDED (ug/kg wet)	CONC (ug/kg wet)	% REC	QC LIMITS	Q
Decachlorobiphenyl (Surr)	16.1	14.8	92	43 - 120	

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:	0020917-BLK1	File ID:	ECD2F014.D
Prepared:	03/02/20 07:03	Preparation:	EPA 3546	Initial/Final:	31 g / 2 mL
Analyzed:	03/02/20 12:41	Instrument:	DUALECD2F		
Batch:	0020917	Sequence:	0C02025	Calibration:	A0B1902

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	14.2	88	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:	0020809	Laboratory ID:	0020809-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	57.3	69	47 - 134
Aroclor 1260	83.3	67.8	81	53 - 140

* = Values outside of QC limits

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:	0020917	Laboratory ID:	0020917-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	59.1	71	47 - 134
Aroclor 1260	83.3	74.3	89	53 - 140

* = Values outside of QC limits

PDI-049SC-A-03-04-191015

DUPLICATES

EPA 8082A

Laboratory: Apex Laboratories
Client: Anchor QEA, LLC
Matrix: Sediment
Batch: 0020917
Preparation: EPA 3546
Source Sample Name: PDI-049SC-A-03-04-191015

SDG: Gasco_PreRD_DG 2019
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP T
Laboratory ID: 0020917-DUP2
Lab Source ID: A0B0680-01RE3
Initial/Final: 30.15 g / 2 mL
% Solids: 56.15

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	13.4		10.7		22		EPA 8082A
Aroclor 1248	30	0.00		ND				EPA 8082A
Aroclor 1254	30	17.0		11.5		39	*	EPA 8082A
Aroclor 1260	30	16.3		11.1		38	*	EPA 8082A

* Values outside of QC limits

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8082A

PDI-049SC-A-05-06-191015

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:	0020809	Laboratory ID:	0020809-MS2
Preparation:	EPA 3546	Initial/Final:	30.69 g / 2 mL

Source Sample Name: PDI-049SC-A-05-06-191015

COMPOUND	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC. (*=Out)	QC LIMITS REC.
Aroclor 1016	131	ND	64.1	49	47 - 134
Aroclor 1260	131	ND	63.9	49 *	53 - 140

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8082A

PDI-049SC-A-05-06-191015

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:	0020809	Laboratory ID:	0020809-MSD2
Preparation:	EPA 3546	Initial/Final:	30.65 g / 2 mL

Source Sample Name: PDI-049SC-A-05-06-191015

COMPOUND	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % RECOVERY	% RPD	QC LIMITS RPD	QC LIMITS REC.
Aroclor 1016	132	65.0	49	1	30	47 - 134
Aroclor 1260	132	66.9	51 *	4	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:	0B18016	Instrument:	DUALECD2F
Matrix:	Sediment	Calibration:	A0B1902

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Blank	0B18016-ICB1	ECD2F007.D	02/18/20 09:21
Cal Standard	0B18016-CAL1	ECD2F008.D	02/18/20 09:47
Cal Standard	0B18016-CAL2	ECD2F009.D	02/18/20 10:04
Cal Standard	0B18016-CAL3	ECD2F010.D	02/18/20 10:22
Cal Standard	0B18016-CAL4	ECD2F011.D	02/18/20 10:40
Cal Standard	0B18016-CAL5	ECD2F012.D	02/18/20 10:57
Cal Standard	0B18016-CAL6	ECD2F013.D	02/18/20 11:15
Cal Standard	0B18016-CAL7	ECD2F014.D	02/18/20 11:32
Initial Cal Check	0B18016-ICV1	ECD2F016.D	02/18/20 12:08
Cal Standard	0B18016-CAL8	ECD2F017.D	02/18/20 12:25
Cal Standard	0B18016-CAL9	ECD2F018.D	02/18/20 12:43
Cal Standard	0B18016-CALA	ECD2F019.D	02/18/20 13:00
Cal Standard	0B18016-CALB	ECD2F020.D	02/18/20 13:18
Cal Standard	0B18016-CALC	ECD2F021.D	02/18/20 13:36
Cal Standard	0B18016-CALD	ECD2F022.D	02/18/20 13:53
Cal Standard	0B18016-CALE	ECD2F023.D	02/18/20 14:11
Initial Cal Check	0B18016-ICV2	ECD2F024.D	02/18/20 14:29
Initial Cal Check	0B18016-ICV3	ECD2F025.D	02/18/20 14:46
Initial Cal Check	0B18016-ICV4	ECD2F026.D	02/18/20 15:04
Initial Cal Check	0B18016-ICV5	ECD2F027.D	02/18/20 15:21

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:	0B27016	Instrument:	DUALECD2F
Matrix:	Sediment	Calibration:	A0B1902

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	0B27016-CCV1	ECD2F002.D	02/27/20 07:49
Calibration Blank	0B27016-CCB1	ECD2F003.D	02/27/20 08:07
Blank	0020809-BLK1	ECD2F004.D	02/27/20 08:24
LCS	0020809-BS1	ECD2F005.D	02/27/20 08:42
Calibration Check	0B27016-CCV2	ECD2F016.D	02/27/20 11:56
Calibration Blank	0B27016-CCB2	ECD2F017.D	02/27/20 12:14
Calibration Check	0B27016-CCV3	ECD2F030.D	02/27/20 16:03
Calibration Blank	0B27016-CCB3	ECD2F031.D	02/27/20 16:20

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

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:	0B27017	Instrument:	DUALECD2R
Matrix:	Sediment	Calibration:	A0A1501

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	0B27017-CCV1	ECD2R002.D	02/27/20 07:49
Calibration Blank	0B27017-CCB1	ECD2R003.D	02/27/20 08:07
Calibration Check	0B27017-CCV2	ECD2R017.D	02/27/20 12:14
Calibration Blank	0B27017-CCB2	ECD2R018.D	02/27/20 12:31
PDI-049SC-A-06-07-191015	A0B0680-04	ECD2R027.D	02/27/20 15:10
PDI-049SC-A-07-08-191015	A0B0680-05	ECD2R029.D	02/27/20 15:45
Calibration Check	0B27017-CCV3	ECD2R031.D	02/27/20 16:20
Calibration Blank	0B27017-CCB3	ECD2R032.D	02/27/20 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.

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:	0C02025	Instrument:	DUALECD2F
Matrix:	Sediment	Calibration:	A0B1902

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	0C02025-CCV1	ECD2F002.D	03/02/20 07:54
Calibration Blank	0C02025-CCB1	ECD2F003.D	03/02/20 08:12
PDI-049SC-A-04-05-191015	A0B0680-02RE1	ECD2F004.D	03/02/20 08:29
PDI-049SC-A-05-06-191015	A0B0680-03RE1	ECD2F006.D	03/02/20 09:04
PDI-049SC-A-05-06-191015 (MS)	0020809-MS2	ECD2F008.D	03/02/20 09:40
PDI-049SC-A-05-06-191015 (MSD)	0020809-MSD2	ECD2F010.D	03/02/20 10:15
Calibration Check	0C02025-CCV2	ECD2F012.D	03/02/20 10:50
Calibration Blank	0C02025-CCB2	ECD2F013.D	03/02/20 11:08
Blank	0020917-BLK1	ECD2F014.D	03/02/20 12:41
LCS	0020917-BS1	ECD2F015.D	03/02/20 12:58
Calibration Check	0C02025-CCV3	ECD2F026.D	03/02/20 16:12
Calibration Blank	0C02025-CCB3	ECD2F027.D	03/02/20 16:29
PDI-049SC-A-03-04-191015	A0B0680-01RE3	ECD2F028.D	03/02/20 16:49
PDI-049SC-A-03-04-191015 (Dup)	0020917-DUP2	ECD2F030.D	03/02/20 17:24
Calibration Check	0C02025-CCV4	ECD2F032.D	03/02/20 18:00
Calibration Blank	0C02025-CCB4	ECD2F033.D	03/02/20 18:17

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.

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~~								

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: A0B1902 Date: 02/19/20 15:43 Instrument: DUALECD2F

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)	135840	Ave	2.695045	9.528143	0.0252844			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: A0B1902

SDG: Gasco_PreRD_DG 2019

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

Instrument: DUALECD2F

Calibration Date: 02/19/20 15:43

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
1232 (1)											500	2365.858
1232 (2)											500	3587.288
1232 (3)											500	1968.208
1232 (4)											500	1519.344
1232 (5)											500	1930.388
1232 (6)											500	1574.962
Aroclor 1232											500	ϴ
1268 (1)	500	6426.198										
1268 (2)	500	29682.62										
1268 (3)	500	24978.24										
1268 (4)	500	23062.92										
1268 (5)	500	9210.042										
1268 (6)	500	64860.54										
Aroclor 1268	500	ϴ										
Decachlorobiphenyl (Surr)	200	ϴ	200	ϴ	200	ϴ	200	ϴ	200	ϴ	200	ϴ

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:	A0B1902	Instrument:	DUALECD2F
Matrix:		Calibration Date:	02/19/20 15:43

	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
Compound	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF
1016 (1)			1500	4018.075	1000	4174.752	500	4285.75	200	4404.455	100	4485.08
1016 (2)			1500	8554.88	1000	8442.266	500	8488.43	200	8512.72	100	8745.1
1016 (3)			1500	4422.315	1000	4576.954	500	4573.756	200	4661.27	100	4617.65
1016 (4)			1500	3962.802	1000	3930.132	500	4075.976	200	4174.15	100	4614.93
1016 (5)			1500	4725.073	1000	4405.368	500	4730.844	200	5040.315	100	5065.92
1016 (6)			1500	3364.844	1000	3181.732	500	3526.794	200	3629.52	100	3702.35
Aroclor 1016			1500	0	1000	0	500	0	200	0	100	0
1221 (1)	500	1363.314										
1221 (2)	500	921.216										
1221 (3)	500	2837.11										
Aroclor 1221	500	0										
1260 (1)			1500	9498.634	1000	9172.675	500	9594.234	200	10265.79	100	10317
1260 (2)			1500	12273.97	1000	11766.08	500	11919.62	200	12798.38	100	12085.68
1260 (3)			1500	8821.366	1000	8969.606	500	9279.888	200	8977.575	100	9674.18
1260 (4)			1500	22190.41	1000	21418.04	500	22697.26	200	22454.01	100	21697.81
1260 (5)			1500	14858.92	1000	14311.65	500	14754	200	15330.34	100	15044.17
1260 (6)			1500	6027.334	1000	5645.108	500	5916.79	200	6034.095	100	6109.9
Aroclor 1260			1500	0	1000	0	500	0	200	0	100	0
Decachlorobiphenyl (Surr)	200	0	800	141025.5	500	136484	250	129321.2	100	136526.7	50	136754.5

INITIAL CALIBRATION DATA (Continued)

EPA 8082A

Laboratory: Apex Laboratories
Client: Anchor QEA, LLC
Calibration: A0B1902
Matrix:

SDG: Gasco_PreRD_DG 2019
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Te
Instrument: DUALECD2F
Calibration Date: 02/19/20 15:43

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
1016 (1)	50	5164.96	20	5721.15								
1016 (2)	50	9100.16	20	9758.1								
1016 (3)	50	5168.66	20	5486.6								
1016 (4)	50	4832.64	20	5435								
1016 (5)	50	5608.28	20	6225.55								
1016 (6)	50	3942.66	20	4528.8								
Aroclor 1016	50	~~0~~	20	~~0~~								
1260 (1)	50	10667.86	20	11687.75								
1260 (2)	50	13177.74	20	14473.75								
1260 (3)	50	9872.66	20	10926.05								
1260 (4)	50	23236.68	20	23776.8								
1260 (5)	50	15740.06	20	16350.25								
1260 (6)	50	6206.96	20	7031.95								
Aroclor 1260	50	~~0~~	20	~~0~~								
Decachlorobiphenyl (Surr)	25	133275.3	10	137492.5								

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 T
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

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:	DUALECD2F	Calibration:	A0B1902
Lab File ID:	ECD2F016.D		
Sequence:	0B18016	Inject Date:	02/18/20
Lab Sample ID:	0B18016-ICV1	Inject Time:	12:08

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
Aroclor 1016	500	478	-4.5	70 - 130
Aroclor 1260	500	474	-5.3	70 - 130
Decachlorobiphenyl (Surr)	200	190	-4.9	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:	DUALECD2F	Calibration:	A0B1902
Lab File ID:	ECD2F024.D		
Sequence:	0B18016	Inject Date:	02/18/20
Lab Sample ID:	0B18016-ICV2	Inject Time:	14:29

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
Aroclor 1221	1000	1000	0.2	70 - 130
Aroclor 1254	500	455	-9.0	70 - 130
Decachlorobiphenyl (Surr)	80.0	89.0	11.2	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:	DUALECD2F	Calibration:	A0B1902
Lab File ID:	ECD2F025.D		
Sequence:	0B18016	Inject Date:	02/18/20
Lab Sample ID:	0B18016-ICV3	Inject Time:	14:46

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
Aroclor 1232	500	547	9.4	70 - 130
Aroclor 1262	500	489	-2.3	70 - 130
Decachlorobiphenyl (Surr)	80.0	88.5	10.6	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:	DUALECD2F	Calibration:	A0B1902
Lab File ID:	ECD2F026.D		
Sequence:	0B18016	Inject Date:	02/18/20
Lab Sample ID:	0B18016-ICV4	Inject Time:	15:04

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
Aroclor 1242	500	527	5.4	70 - 130
Aroclor 1268	500	529	5.7	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 T
Instrument ID:	DUALECD2F	Calibration:	A0B1902
Lab File ID:	ECD2F027.D		
Sequence:	0B18016	Inject Date:	02/18/20
Lab Sample ID:	0B18016-ICV5	Inject Time:	15:21

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
Aroclor 1248	500	501	0.2	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:	DUALECD2F	Calibration:	A0B1902
Lab File ID:	ECD2F002.D	Calibration Date:	02/19/20 15:43
Sequence:	0B27016	Injection Date:	02/27/20
Lab Sample ID:	0B27016-CCV1	Injection Time:	07:49

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	453				-9.5	20
Aroclor 1260	Ave	500	479				-4.3	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:	DUALECD2F	Calibration:	A0B1902
Lab File ID:	ECD2F016.D	Calibration Date:	02/19/20 15:43
Sequence:	0B27016	Injection Date:	02/27/20
Lab Sample ID:	0B27016-CCV2	Injection Time:	11:56

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	430				-14.1	20
Aroclor 1260	Ave	500	442				-11.5	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:	DUALECD2F	Calibration:	A0B1902
Lab File ID:	ECD2F030.D	Calibration Date:	02/19/20 15:43
Sequence:	0B27016	Injection Date:	02/27/20
Lab Sample ID:	0B27016-CCV3	Injection Time:	16:03

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	476				-4.8	20
Aroclor 1260	Ave	500	494				-1.3	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:	ECD2R002.D	Calibration Date:	01/15/20 08:26
Sequence:	0B27017	Injection Date:	02/27/20
Lab Sample ID:	0B27017-CCV1	Injection Time:	07:49

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	456				-8.8	20
Aroclor 1260	Ave	500	526				5.2	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:	ECD2R017.D	Calibration Date:	01/15/20 08:26
Sequence:	0B27017	Injection Date:	02/27/20
Lab Sample ID:	0B27017-CCV2	Injection Time:	12:14

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	474				-5.3	20
Aroclor 1260	Ave	500	538				7.5	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:	ECD2R031.D	Calibration Date:	01/15/20 08:26
Sequence:	0B27017	Injection Date:	02/27/20
Lab Sample ID:	0B27017-CCV3	Injection Time:	16:20

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	519				3.8	20
Aroclor 1260	Ave	500	613				22.6	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:	DUALECD2F	Calibration:	A0B1902
Lab File ID:	ECD2F002.D	Calibration Date:	02/19/20 15:43
Sequence:	0C02025	Injection Date:	03/02/20
Lab Sample ID:	0C02025-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	450				-10.0	20
Aroclor 1260	Ave	500	471				-5.8	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:	DUALECD2F	Calibration:	A0B1902
Lab File ID:	ECD2F012.D	Calibration Date:	02/19/20 15:43
Sequence:	0C02025	Injection Date:	03/02/20
Lab Sample ID:	0C02025-CCV2	Injection Time:	10:50

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	462				-7.6	20
Aroclor 1260	Ave	500	472				-5.7	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:	DUALECD2F	Calibration:	A0B1902
Lab File ID:	ECD2F026.D	Calibration Date:	02/19/20 15:43
Sequence:	0C02025	Injection Date:	03/02/20
Lab Sample ID:	0C02025-CCV3	Injection Time:	16:12

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	491				-1.7	20
Aroclor 1260	Ave	500	518				3.6	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:	DUALECD2F	Calibration:	A0B1902
Lab File ID:	ECD2F032.D	Calibration Date:	02/19/20 15:43
Sequence:	0C02025	Injection Date:	03/02/20
Lab Sample ID:	0C02025-CCV4	Injection Time:	18:00

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	443				-11.5	20
Aroclor 1260	Ave	500	469				-6.2	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:	0B18016	Instrument:	DUALECD2F
Matrix:	Sediment	Calibration:	A0B1902

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Initial Cal Check (0B18016-ICV1)			Lab File ID: ECD2F016.D		Analyzed: 02/18/20 12:08			
Decachlorobiphenyl (Surr)	200	95	70 - 130	9.527	9.528143	-0.0011	+/-1.0	
Initial Cal Check (0B18016-ICV2)			Lab File ID: ECD2F024.D		Analyzed: 02/18/20 14:29			
Decachlorobiphenyl (Surr)	80.0	111	70 - 130	9.527	9.528143	-0.0011	+/-1.0	
Initial Cal Check (0B18016-ICV3)			Lab File ID: ECD2F025.D		Analyzed: 02/18/20 14:46			
Decachlorobiphenyl (Surr)	80.0	111	70 - 130	9.527	9.528143	-0.0011	+/-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:	0B27016	Instrument:	DUALECD2F
Matrix:	Sediment	Calibration:	A0B1902

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (0B27016-CCV1)			Lab File ID: ECD2F002.D		Analyzed: 02/27/20 07:49			
Decachlorobiphenyl (Surr)	250	103	80 - 120	9.529	9.528143	0.0009	+/-1.0	
Calibration Blank (0B27016-CCB1)			Lab File ID: ECD2F003.D		Analyzed: 02/27/20 08:07			
Decachlorobiphenyl (Surr)	100	98	43 - 120	9.527	9.528143	-0.0011	+/-1.0	
Blank (0020809-BLK1)			Lab File ID: ECD2F004.D		Analyzed: 02/27/20 08:24			
Decachlorobiphenyl (Surr)	16.1	92	43 - 120	9.524	9.528143	-0.0041	+/-1.0	
LCS (0020809-BS1)			Lab File ID: ECD2F005.D		Analyzed: 02/27/20 08:42			
Decachlorobiphenyl (Surr)	16.7	91	43 - 120	9.523	9.528143	-0.0051	+/-1.0	
Calibration Check (0B27016-CCV2)			Lab File ID: ECD2F016.D		Analyzed: 02/27/20 11:56			
Decachlorobiphenyl (Surr)	250	94	80 - 120	9.523	9.528143	-0.0051	+/-1.0	
Calibration Blank (0B27016-CCB2)			Lab File ID: ECD2F017.D		Analyzed: 02/27/20 12:14			
Decachlorobiphenyl (Surr)	100	99	43 - 120	9.524	9.528143	-0.0041	+/-1.0	
Calibration Check (0B27016-CCV3)			Lab File ID: ECD2F030.D		Analyzed: 02/27/20 16:03			
Decachlorobiphenyl (Surr)	250	105	80 - 120	9.526	9.528143	-0.0021	+/-1.0	
Calibration Blank (0B27016-CCB3)			Lab File ID: ECD2F031.D		Analyzed: 02/27/20 16:20			
Decachlorobiphenyl (Surr)	100	100	43 - 120	9.524	9.528143	-0.0041	+/-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:	0B27017	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 (0B27017-CCV1)			Lab File ID: ECD2R002.D		Analyzed: 02/27/20 07:49			
Decachlorobiphenyl (Surr)	250	114	80 - 120	10.536	10.55114	-0.0151	+/-1.0	
Calibration Blank (0B27017-CCB1)			Lab File ID: ECD2R003.D		Analyzed: 02/27/20 08:07			
Decachlorobiphenyl (Surr)	100	103	43 - 120	10.536	10.55114	-0.0151	+/-1.0	
Calibration Check (0B27017-CCV2)			Lab File ID: ECD2R017.D		Analyzed: 02/27/20 12:14			
Decachlorobiphenyl (Surr)	250	114	80 - 120	10.535	10.55114	-0.0161	+/-1.0	
Calibration Blank (0B27017-CCB2)			Lab File ID: ECD2R018.D		Analyzed: 02/27/20 12:31			
Decachlorobiphenyl (Surr)	100	104	43 - 120	10.535	10.55114	-0.0161	+/-1.0	
PDI-049SC-A-06-07-191015 (A0B0680-04)			Lab File ID: ECD2R027.D		Analyzed: 02/27/20 15:10			
Decachlorobiphenyl (Surr)	22.4	73	43 - 120	10.534	10.55114	-0.0171	+/-1.0	
PDI-049SC-A-07-08-191015 (A0B0680-05)			Lab File ID: ECD2R029.D		Analyzed: 02/27/20 15:45			
Decachlorobiphenyl (Surr)	20.4	92	43 - 120	10.535	10.55114	-0.0161	+/-1.0	
Calibration Check (0B27017-CCV3)			Lab File ID: ECD2R031.D		Analyzed: 02/27/20 16:20			
Decachlorobiphenyl (Surr)	250	124	80 - 120	10.536	10.55114	-0.0151	+/-1.0	*
Calibration Blank (0B27017-CCB3)			Lab File ID: ECD2R032.D		Analyzed: 02/27/20 16:38			
Decachlorobiphenyl (Surr)	100	120	43 - 120	10.536	10.55114	-0.0151	+/-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:	0C02025	Instrument:	DUALECD2F
Matrix:	Sediment	Calibration:	A0B1902

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (0C02025-CCV1)			Lab File ID: ECD2F002.D		Analyzed: 03/02/20 07:54			
Decachlorobiphenyl (Surr)	250	101	80 - 120	9.526	9.528143	-0.0021	+/-1.0	
Calibration Blank (0C02025-CCB1)			Lab File ID: ECD2F003.D		Analyzed: 03/02/20 08:12			
Decachlorobiphenyl (Surr)	100	99	43 - 120	9.526	9.528143	-0.0021	+/-1.0	
PDI-049SC-A-04-05-191015 (A0B0680-02RE1)			Lab File ID: ECD2F004.D		Analyzed: 03/02/20 08:29			
Decachlorobiphenyl (Surr)	29.2	50	43 - 120	9.526	9.528143	-0.0021	+/-1.0	
PDI-049SC-A-05-06-191015 (A0B0680-03RE1)			Lab File ID: ECD2F006.D		Analyzed: 03/02/20 09:04			
Decachlorobiphenyl (Surr)	26.3	53	43 - 120	9.526	9.528143	-0.0021	+/-1.0	
Matrix Spike (0020809-MS2)			Lab File ID: ECD2F008.D		Analyzed: 03/02/20 09:40			
Decachlorobiphenyl (Surr)	26.3	57	43 - 120	9.527	9.528143	-0.0011	+/-1.0	
Matrix Spike Dup (0020809-MSD2)			Lab File ID: ECD2F010.D		Analyzed: 03/02/20 10:15			
Decachlorobiphenyl (Surr)	26.3	54	43 - 120	9.527	9.528143	-0.0011	+/-1.0	
Calibration Check (0C02025-CCV2)			Lab File ID: ECD2F012.D		Analyzed: 03/02/20 10:50			
Decachlorobiphenyl (Surr)	250	99	80 - 120	9.523	9.528143	-0.0051	+/-1.0	
Calibration Blank (0C02025-CCB2)			Lab File ID: ECD2F013.D		Analyzed: 03/02/20 11:08			
Decachlorobiphenyl (Surr)	100	98	43 - 120	9.524	9.528143	-0.0041	+/-1.0	
Blank (0020917-BLK1)			Lab File ID: ECD2F014.D		Analyzed: 03/02/20 12:41			
Decachlorobiphenyl (Surr)	16.1	88	43 - 120	9.535	9.528143	0.0069	+/-1.0	
LCS (0020917-BS1)			Lab File ID: ECD2F015.D		Analyzed: 03/02/20 12:58			
Decachlorobiphenyl (Surr)	16.7	98	43 - 120	9.526	9.528143	-0.0021	+/-1.0	
Calibration Check (0C02025-CCV3)			Lab File ID: ECD2F026.D		Analyzed: 03/02/20 16:12			
Decachlorobiphenyl (Surr)	250	115	80 - 120	9.526	9.528143	-0.0021	+/-1.0	
Calibration Blank (0C02025-CCB3)			Lab File ID: ECD2F027.D		Analyzed: 03/02/20 16:29			
Decachlorobiphenyl (Surr)	100	105	43 - 120	9.523	9.528143	-0.0051	+/-1.0	
PDI-049SC-A-03-04-191015 (A0B0680-01RE3)			Lab File ID: ECD2F028.D		Analyzed: 03/02/20 16:49			
Decachlorobiphenyl (Surr)	29.0	52	43 - 120	9.526	9.528143	-0.0021	+/-1.0	
Duplicate (0020917-DUP2)			Lab File ID: ECD2F030.D		Analyzed: 03/02/20 17:24			
Decachlorobiphenyl (Surr)	29.5	32	43 - 120	9.524	9.528143	-0.0041	+/-1.0	*
Calibration Check (0C02025-CCV4)			Lab File ID: ECD2F032.D		Analyzed: 03/02/20 18:00			
Decachlorobiphenyl (Surr)	250	101	80 - 120	9.524	9.528143	-0.0041	+/-1.0	
Calibration Blank (0C02025-CCB4)			Lab File ID: ECD2F033.D		Analyzed: 03/02/20 18:17			
Decachlorobiphenyl (Surr)	100	97	43 - 120	9.525	9.528143	-0.0031	+/-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-049SC-A-03-04-191015	10/15/19 13:29	10/16/19 10:00	03/02/20 07:03	138.73	365.00	03/02/20 16:49	0.41	40.00	
PDI-049SC-A-04-05-191015	10/15/19 13:29	10/16/19 10:00	02/26/20 12:42	133.97	365.00	03/02/20 08:29	4.82	40.00	
PDI-049SC-A-05-06-191015	10/15/19 13:29	10/16/19 10:00	02/26/20 12:42	133.97	365.00	03/02/20 09:04	4.85	40.00	
PDI-049SC-A-06-07-191015	10/15/19 13:29	10/16/19 10:00	02/26/20 12:42	133.97	365.00	02/27/20 15:10	1.10	40.00	
PDI-049SC-A-07-08-191015	10/15/19 13:29	10/16/19 10:00	02/26/20 12:42	133.97	365.00	02/27/20 15:45	1.13	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-049SC-A-03-04-191015	A0B0680-01	Sediment
PDI-049SC-A-04-05-191015	A0B0680-02	Sediment
PDI-049SC-A-05-06-191015	A0B0680-03	Sediment
PDI-049SC-A-06-07-191015	A0B0680-04	Sediment
PDI-049SC-A-07-08-191015	A0B0680-05	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 12:43PM
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 [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-049SC-A-03-04-191015

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:	A0B0680-01RE1	File ID:	ECD8-02282028.D
Sampled:	10/15/19 13:29	Prepared:	02/26/20 08:03	Analyzed:	02/28/20 19:52
Solids:	56.15	Preparation:	EPA 3546/3640A (GPC)	Initial/Final:	10.33 g / 10 mL
Batch:	0020808	Sequence:	0B28030	Calibration:	A0B0404
Instrument:	DUALECD8				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
53-19-0	2,4'-DDD	5	39.4	D
3424-82-6	2,4'-DDE [2C]	5	18.8	D
789-02-6	2,4'-DDT [2C]	5	8.62	U
72-54-8	4,4'-DDD	5	95.1	D
72-55-9	4,4'-DDE	5	17.9	D
50-29-3	4,4'-DDT [2C]	5	8.62	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX (Surr) [2C]	86.2	77.3	90	42 - 129	
Decachlorobiphenyl (Surr) [2C]	86.2	95.7	111	55 - 130	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

PDI-049SC-A-04-05-191015

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:	A0B0680-02RE1	File ID:	ECD8-02282030.D
Sampled:	10/15/19 13:29	Prepared:	02/26/20 08:03	Analyzed:	02/28/20 20:30
Solids:	56.51	Preparation:	EPA 3546/3640A (GPC)	Initial/Final:	10.23 g / 10 mL
Batch:	0020808	Sequence:	0B28030	Calibration:	A0B0404
Instrument:	DUALECD8				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
53-19-0	2,4'-DDD	5	29.0	D
3424-82-6	2,4'-DDE [2C]	5	17.7	D
789-02-6	2,4'-DDT	5	8.65	U
72-54-8	4,4'-DDD	5	80.1	D
72-55-9	4,4'-DDE	5	14.3	JD
50-29-3	4,4'-DDT [2C]	5	8.65	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX (Surr) [2C]	86.5	75.4	87	42 - 129	
Decachlorobiphenyl (Surr)	86.5	87.7	101	55 - 130	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

PDI-049SC-A-05-06-191015

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:	A0B0680-03RE1	File ID:	ECD8-02282032.D
Sampled:	10/15/19 13:29	Prepared:	02/26/20 08:03	Analyzed:	02/28/20 21:07
Solids:	61.97	Preparation:	EPA 3546/3640A (GPC)	Initial/Final:	10.47 g / 10 mL
Batch:	0020808	Sequence:	0B28030	Calibration:	A0B0404
Instrument:	DUALECD8				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
53-19-0	2,4'-DDD	5	7.71	U
3424-82-6	2,4'-DDE	5	7.71	U
789-02-6	2,4'-DDT [2C]	5	7.71	U
72-54-8	4,4'-DDD [2C]	5	7.71	U
72-55-9	4,4'-DDE	5	7.71	U
50-29-3	4,4'-DDT [2C]	5	7.71	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX (Surr) [2C]	77.1	69.4	90	42 - 129	
Decachlorobiphenyl (Surr) [2C]	77.1	91.5	119	55 - 130	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

PDI-049SC-A-06-07-191015

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:	A0B0680-04RE1	File ID:	ECD8-02282022.D
Sampled:	10/15/19 13:29	Prepared:	02/26/20 08:03	Analyzed:	02/28/20 17:55
Solids:	73.74	Preparation:	EPA 3546/3640A (GPC)	Initial/Final:	10.43 g / 10 mL
Batch:	0020808	Sequence:	0B28030	Calibration:	A0B0404
Instrument:	DUALECD8				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
53-19-0	2,4'-DDD [2C]	2	2.60	U
3424-82-6	2,4'-DDE [2C]	2	2.60	U
789-02-6	2,4'-DDT [2C]	2	2.60	U
72-54-8	4,4'-DDD [2C]	2	2.60	U
72-55-9	4,4'-DDE [2C]	2	2.60	U
50-29-3	4,4'-DDT [2C]	2	2.60	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX (Surr) [2C]	65.0	51.5	79	42 - 129	
Decachlorobiphenyl (Surr) [2C]	65.0	64.8	100	55 - 130	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

PDI-049SC-A-07-08-191015

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:	A0B0680-05RE1	File ID:	ECD8-02282014.D
Sampled:	10/15/19 13:29	Prepared:	02/26/20 08:03	Analyzed:	02/28/20 15:32
Solids:	79.99	Preparation:	EPA 3546/3640A (GPC)	Initial/Final:	10.21 g / 10 mL
Batch:	0020808	Sequence:	0B28030	Calibration:	A0B0404
Instrument:	DUALECD8				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
53-19-0	2,4'-DDD [2C]	1	1.22	U
3424-82-6	2,4'-DDE [2C]	1	1.22	U
789-02-6	2,4'-DDT [2C]	1	1.22	U
72-54-8	4,4'-DDD [2C]	1	1.22	U
72-55-9	4,4'-DDE [2C]	1	1.22	U
50-29-3	4,4'-DDT [2C]	1	1.22	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX (Surr) [2C]	61.2	41.5	68	42 - 129	
Decachlorobiphenyl (Surr) [2C]	61.2	54.4	89	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: 0020808 Batch Matrix: Sediment Preparation: EPA 3546/3640A (GPC)

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	0020808-BLK1	ECD8-02272012.D	02/26/20 08:03	
LCS	0020808-BS1	ECD8-02272013.D	02/26/20 08:03	
PDI-049SC-A-06-07-191015 (MS)	0020808-MS1	ECD8-02282024.D	02/26/20 08:03	
PDI-049SC-A-06-07-191015 (MSD)	0020808-MSD1	ECD8-02282026.D	02/26/20 08:03	
PDI-049SC-A-03-04-191015	A0B0680-01RE1	ECD8-02282028.D	02/26/20 08:03	
PDI-049SC-A-04-05-191015	A0B0680-02RE1	ECD8-02282030.D	02/26/20 08:03	
PDI-049SC-A-05-06-191015	A0B0680-03RE1	ECD8-02282032.D	02/26/20 08:03	
PDI-049SC-A-06-07-191015	A0B0680-04RE1	ECD8-02282022.D	02/26/20 08:03	
PDI-049SC-A-07-08-191015	A0B0680-05RE1	ECD8-02282014.D	02/26/20 08:03	

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

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:	0020808-BLK1	File ID:	ECD8-02272012.D
Prepared:	02/26/20 08:03	Preparation:	EPA 3546/3640A (GPC)	Initial/Final:	11 g / 10 mL
Analyzed:	02/27/20 15:09	Instrument:	DUALECD8		
Batch:	0020808	Sequence:	0B27037	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	26.9	59	42 - 129	
Decachlorobiphenyl (Surr) [2C]	45.5	46.4	102	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:	0020808	Laboratory ID:	0020808-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	44.4	89	50 - 150
2,4'-DDE [2C]	50.0	38.3	77	50 - 150
2,4'-DDT [2C]	50.0	42.1	84	50 - 150
4,4'-DDD [2C]	50.0	46.7	93	50 - 150
4,4'-DDE [2C]	50.0	43.1	86	50 - 150
4,4'-DDT [2C]	50.0	44.6	89	50 - 150

* = Values outside of QC limits

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8081B

PDI-049SC-A-06-07-191015

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:	0020808	Laboratory ID:	0020808-MS1
Preparation:	EPA 3546/3640A (GPC)	Initial/Final:	10.38 g / 10 mL

Source Sample Name: PDI-049SC-A-06-07-191015

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]	65.3	ND	62.5	96	50 - 150
2,4'-DDE [2C]	65.3	ND	60.8	93	50 - 150
2,4'-DDT [2C]	65.3	ND	65.5	100	50 - 150
4,4'-DDD [2C]	65.3	ND	71.6	110	50 - 150
4,4'-DDE [2C]	65.3	ND	69.7	107	50 - 150
4,4'-DDT [2C]	65.3	ND	67.9	104	50 - 150

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8081B

PDI-049SC-A-06-07-191015

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:	0020808	Laboratory ID:	0020808-MSD1
Preparation:	EPA 3546/3640A (GPC)	Initial/Final:	10.46 g / 10 mL

Source Sample Name: PDI-049SC-A-06-07-191015

COMPOUND	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % RECOVERY	% RPD	QC LIMITS RPD	QC LIMITS REC.
2,4'-DDD [2C]	64.8	66.9	103	7	35	50 - 150
2,4'-DDE [2C]	64.8	62.7	97	3	35	50 - 150
2,4'-DDT [2C]	64.8	67.9	105	4	35	50 - 150
4,4'-DDD [2C]	64.8	71.3	110	0.5	30	50 - 150
4,4'-DDE [2C]	64.8	67.5	104	3	30	50 - 150
4,4'-DDT [2C]	64.8	68.6	106	1	30	50 - 150

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:	0B27037	Instrument:	DUALECD8
Matrix:	Sediment	Calibration:	A0B0404

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	0B27037-CCV3	ECD8-02272009.D	02/27/20 14:18
Calibration Check	0B27037-CCV4	ECD8-02272010.D	02/27/20 14:35
Calibration Blank	0B27037-CCB2	ECD8-02272011.D	02/27/20 14:52
Blank	0020808-BLK1	ECD8-02272012.D	02/27/20 15:09
LCS	0020808-BS1	ECD8-02272013.D	02/27/20 15:26
Calibration Check	0B27037-CCV5	ECD8-02272018.D	02/27/20 16:50
Calibration Check	0B27037-CCV6	ECD8-02272019.D	02/27/20 17:07
Calibration Blank	0B27037-CCB3	ECD8-02272020.D	02/27/20 17:24
Calibration Check	0B27037-CCV7	ECD8-02272035.D	02/27/20 22:03
Calibration Check	0B27037-CCV8	ECD8-02272036.D	02/27/20 22:20
Calibration Blank	0B27037-CCB4	ECD8-02272037.D	02/27/20 22:37

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

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:	0B28030	Instrument:	DUALECD8
Matrix:	Sediment	Calibration:	A0B0404

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	0B28030-CCV2	ECD8-02282008.D	02/28/20 13:51
Calibration Check	0B28030-CCV3	ECD8-02282009.D	02/28/20 14:08
Calibration Blank	0B28030-CCB1	ECD8-02282010.D	02/28/20 14:24
PDI-049SC-A-07-08-191015	A0B0680-05RE1	ECD8-02282014.D	02/28/20 15:32
Calibration Check	0B28030-CCV4	ECD8-02282019.D	02/28/20 17:04
Calibration Check	0B28030-CCV5	ECD8-02282020.D	02/28/20 17:21
Calibration Blank	0B28030-CCB2	ECD8-02282021.D	02/28/20 17:38
PDI-049SC-A-06-07-191015	A0B0680-04RE1	ECD8-02282022.D	02/28/20 17:55
PDI-049SC-A-06-07-191015 (MS)	0020808-MS1	ECD8-02282024.D	02/28/20 18:33
PDI-049SC-A-06-07-191015 (MSD)	0020808-MSD1	ECD8-02282026.D	02/28/20 19:15
PDI-049SC-A-03-04-191015	A0B0680-01RE1	ECD8-02282028.D	02/28/20 19:52
PDI-049SC-A-04-05-191015	A0B0680-02RE1	ECD8-02282030.D	02/28/20 20:30
PDI-049SC-A-05-06-191015	A0B0680-03RE1	ECD8-02282032.D	02/28/20 21:07
Calibration Check	0B28030-CCV6	ECD8-02282035.D	02/28/20 22:01
Calibration Check	0B28030-CCV7	ECD8-02282036.D	02/28/20 22:18
Calibration Blank	0B28030-CCB3	ECD8-02282037.D	02/28/20 22:35

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

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 [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)	2973623	XXX	18.55769	9.506889	9.712043E-03				
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:	ECD8-02272009.D	Calibration Date:	02/04/20 14:02
Sequence:	0B27037	Injection Date:	02/27/20
Lab Sample ID:	0B27037-CCV3	Injection Time:	14:18

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
4,4'-DDD	Ave	50.0	60.3		2544986	3070606	20.7*	20
4,4'-DDD [2C]	XXX	50.0	59.0	18.0				20
4,4'-DDE	Ave	50.0	58.1		3320795	3861198	16.3	20
4,4'-DDE [2C]	XXX	50.0	57.4	14.9				20
4,4'-DDT	Ave	50.0	55.8		2688249	3000510	11.6	20
4,4'-DDT [2C]	XXX	50.0	54.4	8.8				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:	ECD8-02272010.D	Calibration Date:	02/04/20 14:02
Sequence:	0B27037	Injection Date:	02/27/20
Lab Sample ID:	0B27037-CCV4	Injection Time:	14:35

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
2,4'-DDD	Ave	50.0	48.1		1936798	1862296	-3.8	20
2,4'-DDD [2C]	Ave	50.0	46.1		1914280	1764956	-7.8	20
2,4'-DDE	Ave	50.0	46.8		2312095	2162014	-6.5	20
2,4'-DDE [2C]	Ave	50.0	48.8		2273013	2219826	-2.3	20
2,4'-DDT	Ave	50.0	44.1		2393139	2109024	-11.9	20
2,4'-DDT [2C]	XXX	50.0	44.0	-12.0				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:	ECD8-02272018.D	Calibration Date:	02/04/20 14:02
Sequence:	0B27037	Injection Date:	02/27/20
Lab Sample ID:	0B27037-CCV5	Injection Time:	16:50

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
4,4'-DDD	Ave	100	117		2544986	2971848	16.8	20
4,4'-DDD [2C]	XXX	100	105	5.4				20
4,4'-DDE	Ave	100	114		3320795	3772129	13.6	20
4,4'-DDE [2C]	XXX	100	103	3.5				20
4,4'-DDT	Ave	100	115		2688249	3093192	15.1	20
4,4'-DDT [2C]	XXX	100	106	6.0				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:	ECD8-02272019.D	Calibration Date:	02/04/20 14:02
Sequence:	0B27037	Injection Date:	02/27/20
Lab Sample ID:	0B27037-CCV6	Injection Time:	17:07

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
2,4'-DDD	Ave	100	102		1936798	1969362	1.7	20
2,4'-DDD [2C]	Ave	100	109		1914280	2090778	9.2	20
2,4'-DDE	Ave	100	99.6		2312095	2303832	-0.4	20
2,4'-DDE [2C]	Ave	100	107		2273013	2421187	6.5	20
2,4'-DDT	Ave	100	96.4		2393139	2306080	-3.6	20
2,4'-DDT [2C]	XXX	100	97.9	-2.1				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:	ECD8-02272035.D	Calibration Date:	02/04/20 14:02
Sequence:	0B27037	Injection Date:	02/27/20
Lab Sample ID:	0B27037-CCV7	Injection Time:	22:03

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
4,4'-DDD	Ave	50.0	60.1		2544986	3060260	20.2*	20
4,4'-DDD [2C]	XXX	50.0	66.4	32.8 *				20
4,4'-DDE	Ave	50.0	56.8		3320795	3772416	13.6	20
4,4'-DDE [2C]	XXX	50.0	62.9	25.7 *				20
4,4'-DDT	Ave	50.0	58.3		2688249	3132552	16.5	20
4,4'-DDT [2C]	XXX	50.0	62.8	25.7 *				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:	ECD8-02272036.D	Calibration Date:	02/04/20 14:02
Sequence:	0B27037	Injection Date:	02/27/20
Lab Sample ID:	0B27037-CCV8	Injection Time:	22:20

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
2,4'-DDD	Ave	50.0	47.6		1936798	1845255	-4.7	20
2,4'-DDD [2C]	Ave	50.0	50.0		1914280	1915791	0.08	20
2,4'-DDE	Ave	50.0	46.5		2312095	2150424	-7.0	20
2,4'-DDE [2C]	Ave	50.0	49.6		2273013	2256368	-0.7	20
2,4'-DDT	Ave	50.0	46.8		2393139	2238170	-6.5	20
2,4'-DDT [2C]	XXX	50.0	48.8	-2.3				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:	ECD8-02282008.D	Calibration Date:	02/04/20 14:02
Sequence:	0B28030	Injection Date:	02/28/20
Lab Sample ID:	0B28030-CCV2	Injection Time:	13:51

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
4,4'-DDD	Ave	50.0	44.6		2544986	2270844	-10.8	20
4,4'-DDD [2C]	XXX	50.0	48.5	-2.9				20
4,4'-DDE	Ave	50.0	48.6		3320795	3230638	-2.7	20
4,4'-DDE [2C]	XXX	50.0	51.3	2.6				20
4,4'-DDT	Ave	50.0	47.7		2688249	2564182	-4.6	20
4,4'-DDT [2C]	XXX	50.0	50.7	1.5				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:	ECD8-02282009.D	Calibration Date:	02/04/20 14:02
Sequence:	0B28030	Injection Date:	02/28/20
Lab Sample ID:	0B28030-CCV3	Injection Time:	14:08

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
2,4'-DDD	Ave	50.0	39.6		1936798	1535941	-20.7*	20
2,4'-DDD [2C]	Ave	50.0	42.1		1914280	1610783	-15.9	20
2,4'-DDE	Ave	50.0	40.7		2312095	1881526	-18.6	20
2,4'-DDE [2C]	Ave	50.0	43.4		2273013	1972163	-13.2	20
2,4'-DDT	Ave	50.0	38.8		2393139	1857244	-22.4*	20
2,4'-DDT [2C]	XXX	50.0	41.8	-16.5				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:	ECD8-02282019.D	Calibration Date:	02/04/20 14:02
Sequence:	0B28030	Injection Date:	02/28/20
Lab Sample ID:	0B28030-CCV4	Injection Time:	17:04

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
4,4'-DDD	Ave	100	102		2544986	2596172	2.0	20
4,4'-DDD [2C]	XXX	100	98.8	-1.2				20
4,4'-DDE	Ave	100	102		3320795	3393507	2.2	20
4,4'-DDE [2C]	XXX	100	103	3.0				20
4,4'-DDT	Ave	100	104		2688249	2795883	4.0	20
4,4'-DDT [2C]	XXX	100	97.5	-2.5				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:	ECD8-02282020.D	Calibration Date:	02/04/20 14:02
Sequence:	0B28030	Injection Date:	02/28/20
Lab Sample ID:	0B28030-CCV5	Injection Time:	17:21

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
2,4'-DDD	Ave	100	90.4		1936798	1750141	-9.6	20
2,4'-DDD [2C]	Ave	100	102		1914280	1961694	2.5	20
2,4'-DDE	Ave	100	91.3		2312095	2109971	-8.7	20
2,4'-DDE [2C]	Ave	100	101		2273013	2302840	1.3	20
2,4'-DDT	Ave	100	85.4		2393139	2044225	-14.6	20
2,4'-DDT [2C]	XXX	100	91.7	-8.3				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:	ECD8-02282035.D	Calibration Date:	02/04/20 14:02
Sequence:	0B28030	Injection Date:	02/28/20
Lab Sample ID:	0B28030-CCV6	Injection Time:	22:01

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
4,4'-DDD	Ave	50.0	52.6		2544986	2676292	5.2	20
4,4'-DDD [2C]	XXX	50.0	57.0	14.1				20
4,4'-DDE	Ave	50.0	52.0		3320795	3455030	4.0	20
4,4'-DDE [2C]	XXX	50.0	56.9	13.7				20
4,4'-DDT	Ave	50.0	52.4		2688249	2818892	4.9	20
4,4'-DDT [2C]	XXX	50.0	56.1	12.2				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:	ECD8-02282036.D	Calibration Date:	02/04/20 14:02
Sequence:	0B28030	Injection Date:	02/28/20
Lab Sample ID:	0B28030-CCV7	Injection Time:	22:18

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
2,4'-DDD	Ave	50.0	41.9		1936798	1624707	-16.1	20
2,4'-DDD [2C]	Ave	50.0	47.0		1914280	1798027	-6.1	20
2,4'-DDE	Ave	50.0	43.7		2312095	2018822	-12.7	20
2,4'-DDE [2C]	Ave	50.0	46.9		2273013	2134052	-6.1	20
2,4'-DDT	Ave	50.0	43.8		2393139	2095430	-12.4	20
2,4'-DDT [2C]	XXX	50.0	47.8	-4.5				20

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

* = Values outside of QC limits

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8081B

Laboratory:	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:	0B27037	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 (0B27037-CCV3)			Lab File ID: ECD8-02272009.D		Analyzed: 02/27/20 14:18			
2,4,5,6-TCMX (Surr)	50.0	94	80 - 120	5.324	5.297333	0.0267	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	50.0	109	80 - 120	6.025	5.981444	0.0436	+/-1.0	
Decachlorobiphenyl (Surr)	50.0	111	80 - 120	9.517	9.506889	0.0101	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	50.0	110	80 - 120	10.573	10.53678	0.0362	+/-1.0	
Calibration Blank (0B27037-CCB2)			Lab File ID: ECD8-02272011.D		Analyzed: 02/27/20 14:52			
2,4,5,6-TCMX (Surr) [2C]	100	100	42 - 129	6.026	5.981444	0.0446	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	98	55 - 130	10.573	10.53678	0.0362	+/-1.0	
Blank (0020808-BLK1)			Lab File ID: ECD8-02272012.D		Analyzed: 02/27/20 15:09			
2,4,5,6-TCMX (Surr) [2C]	45.5	59	42 - 129	6.026	5.981444	0.0446	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	45.5	102	55 - 130	10.573	10.53678	0.0362	+/-1.0	
LCS (0020808-BS1)			Lab File ID: ECD8-02272013.D		Analyzed: 02/27/20 15:26			
2,4,5,6-TCMX (Surr) [2C]	50.0	55	42 - 129	6.026	5.981444	0.0446	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	50.0	87	55 - 130	10.572	10.53678	0.0352	+/-1.0	
Calibration Check (0B27037-CCV5)			Lab File ID: ECD8-02272018.D		Analyzed: 02/27/20 16:50			
2,4,5,6-TCMX (Surr)	100	91	80 - 120	5.324	5.297333	0.0267	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	100	109	80 - 120	6.026	5.981444	0.0446	+/-1.0	
Decachlorobiphenyl (Surr)	100	105	80 - 120	9.516	9.506889	0.0091	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	109	80 - 120	10.573	10.53678	0.0362	+/-1.0	
Calibration Blank (0B27037-CCB3)			Lab File ID: ECD8-02272020.D		Analyzed: 02/27/20 17:24			
2,4,5,6-TCMX (Surr) [2C]	100	98	42 - 129	6.025	5.981444	0.0436	+/-1.0	
Decachlorobiphenyl (Surr)	100	95	55 - 130	9.516	9.506889	0.0091	+/-1.0	
Calibration Check (0B27037-CCV7)			Lab File ID: ECD8-02272035.D		Analyzed: 02/27/20 22:03			
2,4,5,6-TCMX (Surr)	50.0	98	80 - 120	5.318	5.297333	0.0207	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	50.0	118	80 - 120	6.021	5.981444	0.0396	+/-1.0	
Decachlorobiphenyl (Surr)	50.0	112	80 - 120	9.508	9.506889	0.0011	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	50.0	142	80 - 120	10.565	10.53678	0.0282	+/-1.0	*
Calibration Blank (0B27037-CCB4)			Lab File ID: ECD8-02272037.D		Analyzed: 02/27/20 22:37			
2,4,5,6-TCMX (Surr) [2C]	100	109	42 - 129	6.021	5.981444	0.0396	+/-1.0	
Decachlorobiphenyl (Surr)	100	101	55 - 130	9.509	9.506889	0.0021	+/-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:	0B28030	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 (0B28030-CCV2)			Lab File ID: ECD8-02282008.D		Analyzed: 02/28/20 13:51			
2,4,5,6-TCMX (Surr)	50.0	82	80 - 120	5.322	5.297333	0.0247	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	50.0	99	80 - 120	6.023	5.981444	0.0416	+/-1.0	
Decachlorobiphenyl (Surr)	50.0	102	80 - 120	9.52	9.506889	0.0131	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	50.0	116	80 - 120	10.572	10.53678	0.0352	+/-1.0	
Calibration Blank (0B28030-CCB1)			Lab File ID: ECD8-02282010.D		Analyzed: 02/28/20 14:24			
2,4,5,6-TCMX (Surr) [2C]	100	95	42 - 129	6.024	5.981444	0.0426	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	100	55 - 130	10.572	10.53678	0.0352	+/-1.0	
PDI-049SC-A-07-08-191015 (A0B0680-05RE1)			Lab File ID: ECD8-02282014.D		Analyzed: 02/28/20 15:32			
2,4,5,6-TCMX (Surr) [2C]	61.2	68	42 - 129	6.022	5.981444	0.0406	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	61.2	89	55 - 130	10.57	10.53678	0.0332	+/-1.0	
Calibration Check (0B28030-CCV4)			Lab File ID: ECD8-02282019.D		Analyzed: 02/28/20 17:04			
2,4,5,6-TCMX (Surr)	100	86	80 - 120	5.322	5.297333	0.0247	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	100	107	80 - 120	6.023	5.981444	0.0416	+/-1.0	
Decachlorobiphenyl (Surr)	100	104	80 - 120	9.519	9.506889	0.0121	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	110	80 - 120	10.569	10.53678	0.0322	+/-1.0	
Calibration Blank (0B28030-CCB2)			Lab File ID: ECD8-02282021.D		Analyzed: 02/28/20 17:38			
2,4,5,6-TCMX (Surr) [2C]	100	93	42 - 129	6.022	5.981444	0.0406	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	98	55 - 130	10.57	10.53678	0.0332	+/-1.0	
PDI-049SC-A-06-07-191015 (A0B0680-04RE1)			Lab File ID: ECD8-02282022.D		Analyzed: 02/28/20 17:55			
2,4,5,6-TCMX (Surr) [2C]	65.0	79	42 - 129	6.021	5.981444	0.0396	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	65.0	100	55 - 130	10.57	10.53678	0.0332	+/-1.0	
Matrix Spike (0020808-MS1)			Lab File ID: ECD8-02282024.D		Analyzed: 02/28/20 18:33			
2,4,5,6-TCMX (Surr) [2C]	65.3	84	42 - 129	6.021	5.981444	0.0396	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	65.3	104	55 - 130	10.567	10.53678	0.0302	+/-1.0	
Matrix Spike Dup (0020808-MSD1)			Lab File ID: ECD8-02282026.D		Analyzed: 02/28/20 19:15			
2,4,5,6-TCMX (Surr) [2C]	64.8	84	42 - 129	6.02	5.981444	0.0386	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	64.8	109	55 - 130	10.566	10.53678	0.0292	+/-1.0	
PDI-049SC-A-03-04-191015 (A0B0680-01RE1)			Lab File ID: ECD8-02282028.D		Analyzed: 02/28/20 19:52			
2,4,5,6-TCMX (Surr) [2C]	86.2	90	42 - 129	6.02	5.981444	0.0386	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	86.2	111	55 - 130	10.565	10.53678	0.0282	+/-1.0	
PDI-049SC-A-04-05-191015 (A0B0680-02RE1)			Lab File ID: ECD8-02282030.D		Analyzed: 02/28/20 20:30			
2,4,5,6-TCMX (Surr) [2C]	86.5	87	42 - 129	6.018	5.981444	0.0366	+/-1.0	
Decachlorobiphenyl (Surr)	86.5	101	55 - 130	9.515	9.506889	0.0081	+/-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:	0B28030	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
PDI-049SC-A-05-06-191015 (A0B0680-03RE1)			Lab File ID: ECD8-02282032.D		Analyzed: 02/28/20 21:07			
2,4,5,6-TCMX (Surr) [2C]	77.1	90	42 - 129	6.019	5.981444	0.0376	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	77.1	119	55 - 130	10.564	10.53678	0.0272	+/-1.0	
Calibration Check (0B28030-CCV6)			Lab File ID: ECD8-02282035.D		Analyzed: 02/28/20 22:01			
2,4,5,6-TCMX (Surr)	50.0	89	80 - 120	5.317	5.297333	0.0197	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	50.0	110	80 - 120	6.018	5.981444	0.0366	+/-1.0	
Decachlorobiphenyl (Surr)	50.0	109	80 - 120	9.517	9.506889	0.0101	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	50.0	122	80 - 120	10.566	10.53678	0.0292	+/-1.0	*
Calibration Blank (0B28030-CCB3)			Lab File ID: ECD8-02282037.D		Analyzed: 02/28/20 22:35			
2,4,5,6-TCMX (Surr) [2C]	100	100	42 - 129	6.016	5.981444	0.0346	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	104	55 - 130	10.565	10.53678	0.0282	+/-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-049SC-A-03-04-191015	10/15/19 13:29	10/16/19 10:00	02/26/20 08:03	133.77	14.00	02/28/20 19:52	2.49	40.00	*
PDI-049SC-A-04-05-191015	10/15/19 13:29	10/16/19 10:00	02/26/20 08:03	133.77	14.00	02/28/20 20:30	2.52	40.00	*
PDI-049SC-A-05-06-191015	10/15/19 13:29	10/16/19 10:00	02/26/20 08:03	133.77	14.00	02/28/20 21:07	2.54	40.00	*
PDI-049SC-A-06-07-191015	10/15/19 13:29	10/16/19 10:00	02/26/20 08:03	133.77	14.00	02/28/20 17:55	2.41	40.00	*
PDI-049SC-A-07-08-191015	10/15/19 13:29	10/16/19 10:00	02/26/20 08:03	133.77	14.00	02/28/20 15:32	2.31	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-049SC-A-03-04-191015	A0B0680-01	Sediment
PDI-049SC-A-04-05-191015	A0B0680-02	Sediment
PDI-049SC-A-05-06-191015	A0B0680-03	Sediment
PDI-049SC-A-06-07-191015	A0B0680-04	Sediment
PDI-049SC-A-07-08-191015	A0B0680-05	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 12:43PM
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-049SC-A-03-04-191015

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:	A0B0680-01RE1	File ID:	N02272021.D
Sampled:	10/15/19 13:29	Prepared:	02/26/20 07:50	Analyzed:	02/27/20 18:51
Solids:	56.15	Preparation:	EPA 3546	Initial/Final:	10.03 g / 5 mL
Batch:	0020782	Sequence:	0B27023	Calibration:	A9I1001
Instrument:	SV-GCMS14				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
83-32-9	Acenaphthene	1000	34800	D
208-96-8	Acenaphthylene	1000	4550	D
120-12-7	Anthracene	1000	23000	D
56-55-3	Benz(a)anthracene	1000	31100	D
50-32-8	Benzo(a)pyrene	1000	43200	D
205-99-2	Benzo(b)fluoranthene	1000	40500	D
207-08-9	Benzo(k)fluoranthene	1000	13000	D
191-24-2	Benzo(g,h,i)perylene	1000	36800	D
218-01-9	Chrysene	1000	42100	D
53-70-3	Dibenz(a,h)anthracene	1000	4470	D
206-44-0	Fluoranthene	1000	97700	D
86-73-7	Fluorene	1000	18500	D
193-39-5	Indeno(1,2,3-cd)pyrene	1000	30900	D
91-57-6	2-Methylnaphthalene	1000	5010	D
91-20-3	Naphthalene	1000	13400	D
85-01-8	Phenanthrene	1000	122000	D
129-00-0	Pyrene	1000	119000	D

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl (Surr)	88.8	133	150	44 - 115	D
p-Terphenyl-d14 (Surr)	88.8	195	220	54 - 127	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8 (ISTD)	160886	7.755	187473	7.749	
Acenaphthene-d10 (ISTD)	110867	9.503	111892	9.504	
Phenanthrene-d10 (ISTD)	189528	11.013	200242	11.013	
Chrysene-d12 (ISTD)	150796	14.662	136715	14.662	
Perylene-d12 (ISTD)	147747	18.124	118815	18.124	
Dibenz(a,h)anthracene-d14 (ISTD)	107135	20.508	80611	20.508	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

PDI-049SC-A-04-05-191015

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:	A0B0680-02	File ID:	N02272007.D
Sampled:	10/15/19 13:29	Prepared:	02/26/20 07:50	Analyzed:	02/27/20 11:23
Solids:	56.51	Preparation:	EPA 3546	Initial/Final:	10.69 g / 5 mL
Batch:	0020782	Sequence:	0B27023	Calibration:	A9I1001
Instrument:	SV-GCMS14				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
83-32-9	Acenaphthene	1000	20200	D
208-96-8	Acenaphthylene	1000	4280	D
120-12-7	Anthracene	1000	14600	D
56-55-3	Benz(a)anthracene	1000	14800	D
50-32-8	Benzo(a)pyrene	1000	19400	D
205-99-2	Benzo(b)fluoranthene	1000	16900	D
207-08-9	Benzo(k)fluoranthene	1000	6840	D
191-24-2	Benzo(g,h,i)perylene	1000	16500	D
218-01-9	Chrysene	1000	19200	D
53-70-3	Dibenz(a,h)anthracene	1000	2070	U
206-44-0	Fluoranthene	1000	55000	D
86-73-7	Fluorene	1000	11700	D
193-39-5	Indeno(1,2,3-cd)pyrene	1000	13900	D
91-57-6	2-Methylnaphthalene	1000	4060	JD
91-20-3	Naphthalene	1000	8470	D
85-01-8	Phenanthrene	1000	85300	D
129-00-0	Pyrene	1000	69500	D

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl (Surr)	82.8	113	136	44 - 115	D
p-Terphenyl-d14 (Surr)	82.8	154	186	54 - 127	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8 (ISTD)	159469	7.755	187473	7.749	
Acenaphthene-d10 (ISTD)	99289	9.503	111892	9.504	
Phenanthrene-d10 (ISTD)	165572	11.013	200242	11.013	
Chrysene-d12 (ISTD)	125592	14.662	136715	14.662	
Perylene-d12 (ISTD)	121237	18.124	118815	18.124	
Dibenz(a,h)anthracene-d14 (ISTD)	92192	20.508	80611	20.508	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

PDI-049SC-A-05-06-191015

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:	A0B0680-03	File ID:	N02272008.D
Sampled:	10/15/19 13:29	Prepared:	02/26/20 07:50	Analyzed:	02/27/20 11:55
Solids:	61.97	Preparation:	EPA 3546	Initial/Final:	10.92 g / 5 mL
Batch:	0020782	Sequence:	0B27023	Calibration:	A9I1001
Instrument:	SV-GCMS14				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
83-32-9	Acenaphthene	1000	17400	D
208-96-8	Acenaphthylene	1000	3000	JD
120-12-7	Anthracene	1000	13200	D
56-55-3	Benz(a)anthracene	1000	12800	D
50-32-8	Benzo(a)pyrene	1000	19700	D
205-99-2	Benzo(b)fluoranthene	1000	16900	D
207-08-9	Benzo(k)fluoranthene	1000	6490	D
191-24-2	Benzo(g,h,i)perylene	1000	17100	D
218-01-9	Chrysene	1000	17900	D
53-70-3	Dibenz(a,h)anthracene	1000	1850	U
206-44-0	Fluoranthene	1000	56900	D
86-73-7	Fluorene	1000	11100	D
193-39-5	Indeno(1,2,3-cd)pyrene	1000	14300	D
91-57-6	2-Methylnaphthalene	1000	1850	U
91-20-3	Naphthalene	1000	4780	D
85-01-8	Phenanthrene	1000	79600	D
129-00-0	Pyrene	1000	66800	D

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl (Surr)	73.9	64.3	87	44 - 115	D
p-Terphenyl-d14 (Surr)	73.9	96.0	130	54 - 127	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8 (ISTD)	164502	7.755	187473	7.749	
Acenaphthene-d10 (ISTD)	105963	9.503	111892	9.504	
Phenanthrene-d10 (ISTD)	182592	11.013	200242	11.013	
Chrysene-d12 (ISTD)	145087	14.662	136715	14.662	
Perylene-d12 (ISTD)	138396	18.124	118815	18.124	
Dibenz(a,h)anthracene-d14 (ISTD)	107765	20.508	80611	20.508	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

PDI-049SC-A-06-07-191015

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:	A0B0680-04RE1	File ID:	N02272023.D
Sampled:	10/15/19 13:29	Prepared:	02/26/20 07:50	Analyzed:	02/27/20 19:55
Solids:	73.74	Preparation:	EPA 3546	Initial/Final:	10.24 g / 5 mL
Batch:	0020782	Sequence:	0B27023	Calibration:	A9I1001
Instrument:	SV-GCMS14				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
83-32-9	Acenaphthene	100	1870	D
208-96-8	Acenaphthylene	100	179	JD
120-12-7	Anthracene	100	492	D
56-55-3	Benz(a)anthracene	100	1240	D
50-32-8	Benzo(a)pyrene	100	1960	D
205-99-2	Benzo(b)fluoranthene	100	1690	D
207-08-9	Benzo(k)fluoranthene	100	540	D
191-24-2	Benzo(g,h,i)perylene	100	1890	D
218-01-9	Chrysene	100	1790	D
53-70-3	Dibenz(a,h)anthracene	100	166	U
206-44-0	Fluoranthene	100	5100	D
86-73-7	Fluorene	100	1040	D
193-39-5	Indeno(1,2,3-cd)pyrene	100	1510	D
91-57-6	2-Methylnaphthalene	100	166	U
91-20-3	Naphthalene	100	518	D
85-01-8	Phenanthrene	100	7360	D
129-00-0	Pyrene	100	6000	D

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl (Surr)	66.2	51.0	77	44 - 115	D
p-Terphenyl-d14 (Surr)	66.2	52.3	79	54 - 127	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8 (ISTD)	164217	7.749	187473	7.749	
Acenaphthene-d10 (ISTD)	116376	9.504	111892	9.504	
Phenanthrene-d10 (ISTD)	198968	11.013	200242	11.013	
Chrysene-d12 (ISTD)	161687	14.662	136715	14.662	
Perylene-d12 (ISTD)	164127	18.124	118815	18.124	
Dibenz(a,h)anthracene-d14 (ISTD)	121141	20.508	80611	20.508	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

PDI-049SC-A-07-08-191015

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:	A0B0680-05	File ID:	N02262008.D
Sampled:	10/15/19 13:29	Prepared:	02/26/20 07:50	Analyzed:	02/26/20 13:28
Solids:	79.99	Preparation:	EPA 3546	Initial/Final:	10.12 g / 5 mL
Batch:	0020782	Sequence:	0B26029	Calibration:	A9I1001
Instrument:	SV-GCMS14				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
83-32-9	Acenaphthene	20	96.6	D
208-96-8	Acenaphthylene	20	30.9	U
120-12-7	Anthracene	20	36.6	JD
56-55-3	Benz(a)anthracene	20	76.8	D
50-32-8	Benzo(a)pyrene	20	113	D
205-99-2	Benzo(b)fluoranthene	20	102	D
207-08-9	Benzo(k)fluoranthene	20	33.1	JD
191-24-2	Benzo(g,h,i)perylene	20	98.6	D
218-01-9	Chrysene	20	107	D
53-70-3	Dibenz(a,h)anthracene	20	30.9	U
206-44-0	Fluoranthene	20	346	D
86-73-7	Fluorene	20	56.6	JD
193-39-5	Indeno(1,2,3-cd)pyrene	20	85.8	D
91-57-6	2-Methylnaphthalene	20	30.9	U
91-20-3	Naphthalene	20	47.3	JD
85-01-8	Phenanthrene	20	564	D
129-00-0	Pyrene	20	390	D

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl (Surr)	61.8	53.9	87	44 - 115	
p-Terphenyl-d14 (Surr)	61.8	53.2	86	54 - 127	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8 (ISTD)	170144	7.755	191979	7.755	
Acenaphthene-d10 (ISTD)	113573	9.509	119599	9.509	
Phenanthrene-d10 (ISTD)	204753	11.013	223968	11.013	
Chrysene-d12 (ISTD)	167529	14.662	189183	14.668	
Perylene-d12 (ISTD)	161658	18.124	175118	18.13	
Dibenz(a,h)anthracene-d14 (ISTD)	130270	20.508	139402	20.514	

* 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 Cc
Batch: 0020782 Batch Matrix: Sediment Preparation: EPA 3546

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	0020782-BLK1	N02262004.D	02/26/20 07:50	
LCS	0020782-BS1	N02262005.D	02/26/20 07:50	
PDI-049SC-A-07-08-191015 (MS)	0020782-MS1	N02262009.D	02/26/20 07:50	
PDI-049SC-A-07-08-191015 (MSD)	0020782-MSD1	N02262010.D	02/26/20 07:50	
PDI-049SC-A-03-04-191015	A0B0680-01RE1	N02272021.D	02/26/20 07:50	
PDI-049SC-A-04-05-191015	A0B0680-02	N02272007.D	02/26/20 07:50	
PDI-049SC-A-05-06-191015	A0B0680-03	N02272008.D	02/26/20 07:50	
PDI-049SC-A-06-07-191015	A0B0680-04RE1	N02272023.D	02/26/20 07:50	
PDI-049SC-A-07-08-191015	A0B0680-05	N02262008.D	02/26/20 07:50	

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

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:	0020782-BLK1	File ID:	N02262004.D
Prepared:	02/26/20 07:50	Preparation:	EPA 3546	Initial/Final:	11 g / 5 mL
Analyzed:	02/26/20 11:19	Instrument:	SV-GCMS14		
Batch:	0020782	Sequence:	0B26029	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	46.9	103	44 - 115	
p-Terphenyl-d14 (Surr)	45.5	50.1	110	54 - 127	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8 (ISTD)	160733	7.749	191979	7.755	
Acenaphthene-d10 (ISTD)	102790	9.504	119599	9.509	
Phenanthrene-d10 (ISTD)	185236	11.013	223968	11.013	
Chrysene-d12 (ISTD)	137274	14.662	189183	14.668	
Perylene-d12 (ISTD)	121160	18.118	175118	18.13	
Dibenz(a,h)anthracene-d14 (ISTD)	94462	20.508	139402	20.514	

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:	0020782	Laboratory ID:	0020782-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	19.0	95	40 - 122
Acenaphthylene	20.0	17.9	90	32 - 132
Anthracene	20.0	18.4	92	47 - 123
Benz(a)anthracene	20.0	17.4	87	49 - 126
Benzo(a)pyrene	20.0	18.2	91	45 - 129
Benzo(b)fluoranthene	20.0	18.5	93	45 - 132
Benzo(k)fluoranthene	20.0	18.3	91	47 - 132
Benzo(g,h,i)perylene	20.0	18.0	90	43 - 134
Chrysene	20.0	19.0	95	50 - 124
Dibenz(a,h)anthracene	20.0	17.7	89	45 - 134
Fluoranthene	20.0	20.0	100	50 - 127
Fluorene	20.0	18.2	91	43 - 125
Indeno(1,2,3-cd)pyrene	20.0	17.4	87	45 - 133
2-Methylnaphthalene	20.0	17.8	89	38 - 122
Naphthalene	20.0	19.1	96	35 - 123
Phenanthrene	20.0	18.7	94	50 - 121
Pyrene	20.0	18.9	95	47 - 127

* = Values outside of QC limits

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8270D

PDI-049SC-A-07-08-191015

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:	0020782	Laboratory ID:	0020782-MS1
Preparation:	EPA 3546	Initial/Final:	10.09 g / 5 mL

Source Sample Name: PDI-049SC-A-07-08-191015

COMPOUND	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC. (*=Out)	QC LIMITS REC.
Acenaphthene	24.8	96.6	106	37 *	40 - 122
Acenaphthylene	24.8	ND	36.5	147 *	32 - 132
Anthracene	24.8	36.6	56.1	78	47 - 123
Benz(a)anthracene	24.8	76.8	132	222 *	49 - 126
Benzo(a)pyrene	24.8	113	194	327 *	45 - 129
Benzo(b)fluoranthene	24.8	102	163	247 *	45 - 132
Benzo(k)fluoranthene	24.8	33.1	85.0	210 *	47 - 132
Benzo(g,h,i)perylene	24.8	98.6	186	352 *	43 - 134
Chrysene	24.8	107	186	318 *	50 - 124
Dibenz(a,h)anthracene	24.8	ND	33.8	136 *	45 - 134
Fluoranthene	24.8	346	472	508 *	50 - 127
Fluorene	24.8	56.6	71.2	59	43 - 125
Indeno(1,2,3-cd)pyrene	24.8	85.8	164	315 *	45 - 133
2-Methylnaphthalene	24.8	ND	ND	*	38 - 122
Naphthalene	24.8	47.3	65.3	73	35 - 123
Phenanthrene	24.8	564	668	420 *	50 - 121
Pyrene	24.8	390	579	763 *	47 - 127

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8270D

PDI-049SC-A-07-08-191015

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:	0020782	Laboratory ID:	0020782-MSD1
Preparation:	EPA 3546	Initial/Final:	10.11 g / 5 mL

Source Sample Name: PDI-049SC-A-07-08-191015

COMPOUND	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % RECOVERY	% RPD	QC LIMITS RPD	QC LIMITS REC.
Acenaphthene	24.7	154	233 *	37 *	30	40 - 122
Acenaphthylene	24.7	35.7	144 *	2	30	32 - 132
Anthracene	24.7	62.4	104	11	30	47 - 123
Benz(a)anthracene	24.7	115	154 *	14	30	49 - 126
Benzo(a)pyrene	24.7	160	192 *	19	30	45 - 129
Benzo(b)fluoranthene	24.7	143	165 *	13	30	45 - 132
Benzo(k)fluoranthene	24.7	65.3	130	26	30	47 - 132
Benzo(g,h,i)perylene	24.7	152	216 *	20	30	43 - 134
Chrysene	24.7	156	195 *	18	30	50 - 124
Dibenz(a,h)anthracene	24.7	ND	*	200 *	30	45 - 134
Fluoranthene	24.7	457	448 *	3	30	50 - 127
Fluorene	24.7	89.5	133 *	23	30	43 - 125
Indeno(1,2,3-cd)pyrene	24.7	141	224 *	15	30	45 - 133
2-Methylnaphthalene	24.7	36.2	146 *	200 *	30	38 - 122
Naphthalene	24.7	124	309 *	62 *	30	35 - 123
Phenanthrene	24.7	730	671 *	9	30	50 - 121
Pyrene	24.7	562	696 *	3	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:	0B26029	Instrument:	SV-GCMS14
Matrix:	Sediment	Calibration:	A9I1001

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	0B26029-TUN1	N02262001.D	02/26/20 09:47
Calibration Check	0B26029-CCV1	N02262002.D	02/26/20 10:15
Calibration Blank	0B26029-CCB1	N02262003.D	02/26/20 10:47
Blank	0020782-BLK1	N02262004.D	02/26/20 11:19
LCS	0020782-BS1	N02262005.D	02/26/20 11:52
PDI-049SC-A-07-08-191015	A0B0680-05	N02262008.D	02/26/20 13:28
PDI-049SC-A-07-08-191015 (MS)	0020782-MS1	N02262009.D	02/26/20 14:00
PDI-049SC-A-07-08-191015 (MSD)	0020782-MSD1	N02262010.D	02/26/20 14:32

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:	0B27023	Instrument:	SV-GCMS14
Matrix:	Sediment	Calibration:	A9I1001

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	0B27023-TUN1	N02272001.D	02/27/20 08:16
Calibration Check	0B27023-CCV1	N02272002.D	02/27/20 08:43
Calibration Blank	0B27023-CCB1	N02272003.D	02/27/20 09:15
PDI-049SC-A-04-05-191015	A0B0680-02	N02272007.D	02/27/20 11:23
PDI-049SC-A-05-06-191015	A0B0680-03	N02272008.D	02/27/20 11:55
PDI-049SC-A-03-04-191015	A0B0680-01RE1	N02272021.D	02/27/20 18:51
PDI-049SC-A-06-07-191015	A0B0680-04RE1	N02272023.D	02/27/20 19:55

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:	N02262001.D	Injection Date:	02/26/20
Instrument ID:	SV-GCMS14	Injection Time:	09:47
Sequence:	0B26029	Lab Sample ID:	0B26029-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
m/z 68	Less than 2% of m/z 69	1.57	PASS
m/z 69	Base peak, 100% relative abundance	100.00	PASS
m/z 70	Less than 2% of m/z 69	0.50	PASS
m/z 197	Less than 2% of m/z 198	0.51	PASS
m/z 198	Base peak, 100% relative abundance	100.00	PASS
m/z 199	5 - 9% of m/z 198	6.69	PASS
m/z 365	1 - 100% of m/z 198	4.22	PASS
m/z 441	Less than 150% of m/z 443	78.23	PASS
m/z 442	0.1 - 200% of m/z 198	137.19	PASS
m/z 443	15 - 24% of m/z 442	19.29	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:	N02272001.D	Injection Date:	02/27/20
Instrument ID:	SV-GCMS14	Injection Time:	08:16
Sequence:	0B27023	Lab Sample ID:	0B27023-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
m/z 68	Less than 2% of m/z 69	1.62	PASS
m/z 69	Base peak, 100% relative abundance	100.00	PASS
m/z 70	Less than 2% of m/z 69	0.54	PASS
m/z 197	Less than 2% of m/z 198	0.49	PASS
m/z 198	Base peak, 100% relative abundance	100.00	PASS
m/z 199	5 - 9% of m/z 198	6.73	PASS
m/z 365	1 - 100% of m/z 198	3.97	PASS
m/z 441	Less than 150% of m/z 443	77.97	PASS
m/z 442	0.1 - 200% of m/z 198	126.10	PASS
m/z 443	15 - 24% of m/z 442	19.43	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:	N02262002.D	Calibration Date:	09/10/19 10:37
Sequence:	0B26029	Injection Date:	02/26/20
Lab Sample ID:	0B26029-CCV1	Injection Time:	10:15

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	47.9		1.421956	1.361533	-4.2	20
Acenaphthylene	Ave	50.0	47.2		2.170985	2.05102	-5.5	20
Anthracene	Ave	50.0	47.2		1.088444	1.027683	-5.6	20
Benz(a)anthracene	Ave	50.0	44.1		1.161023	1.023009	-11.9	20
Benzo(a)pyrene	Ave	50.0	46.5		0.9876419	0.9187976	-7.0	20
Benzo(b)fluoranthene	Ave	50.0	46.2		1.153887	1.066321	-7.6	20
Benzo(k)fluoranthene	Ave	50.0	45.6		1.136093	1.036296	-8.8	20
Benzo(g,h,i)perylene	Ave	50.0	44.8		1.308305	1.172064	-10.4	20
Chrysene	Ave	50.0	46.2		1.098706	1.014816	-7.6	20
Dibenz(a,h)anthracene	Ave	50.0	47.4		1.158853	1.099611	-5.1	20
Fluoranthene	Ave	50.0	49.0		1.178979	1.155469	-2.0	20
Fluorene	Ave	50.0	48.6		1.455085	1.413992	-2.8	20
Indeno(1,2,3-cd)pyrene	Ave	50.0	43.8		1.233305	1.081089	-12.3	20
2-Methylnaphthalene	Ave	50.0	42.0		0.9346173	0.784242	-16.1	20
Naphthalene	Ave	50.0	48.3		1.102926	1.066294	-3.3	20
Phenanthrene	Ave	50.0	47.6		1.170171	1.113963	-4.8	20
Pyrene	Ave	50.0	45.5		1.562337	1.42294	-8.9	20

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

* = Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8270D

Laboratory:	Apex Laboratories	SDG:	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:	N02272002.D	Calibration Date:	09/10/19 10:37
Sequence:	0B27023	Injection Date:	02/27/20
Lab Sample ID:	0B27023-CCV1	Injection Time:	08:43

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	47.8		1.421956	1.359936	-4.4	20
Acenaphthylene	Ave	50.0	45.9		2.170985	1.993529	-8.2	20
Anthracene	Ave	50.0	44.2		1.088444	0.9613967	-11.7	20
Benz(a)anthracene	Ave	50.0	42.2		1.161023	0.978927	-15.7	20
Benzo(a)pyrene	Ave	50.0	43.3		0.9876419	0.8553802	-13.4	20
Benzo(b)fluoranthene	Ave	50.0	45.2		1.153887	1.043151	-9.6	20
Benzo(k)fluoranthene	Ave	50.0	45.2		1.136093	1.027547	-9.6	20
Benzo(g,h,i)perylene	Ave	50.0	46.3		1.308305	1.211646	-7.4	20
Chrysene	Ave	50.0	45.2		1.098706	0.9942435	-9.5	20
Dibenz(a,h)anthracene	Ave	50.0	47.7		1.158853	1.105234	-4.6	20
Fluoranthene	Ave	50.0	48.4		1.178979	1.141669	-3.2	20
Fluorene	Ave	50.0	46.5		1.455085	1.354663	-6.9	20
Indeno(1,2,3-cd)pyrene	Ave	50.0	44.8		1.233305	1.105556	-10.4	20
2-Methylnaphthalene	Ave	50.0	40.5		0.9346173	0.7565249	-19.1	20
Naphthalene	Ave	50.0	48.5		1.102926	1.070682	-2.9	20
Phenanthrene	Ave	50.0	47.5		1.170171	1.111925	-5.0	20
Pyrene	Ave	50.0	55.7		1.562337	1.73978	11.4	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:	0B26029	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 (0B26029-CCV1)			Lab File ID: N02262002.D		Analyzed: 02/26/20 10:15			
2-Fluorobiphenyl (Surr)	50.0	103	80 - 120	8.822	8.9523	-0.1303	+/-1.0	
p-Terphenyl-d14 (Surr)	50.0	92	80 - 120	12.756	12.9315	-0.1755	+/-1.0	
Calibration Blank (0B26029-CCB1)			Lab File ID: N02262003.D		Analyzed: 02/26/20 10:47			
2-Fluorobiphenyl (Surr)			44 - 115	0	8.9523	-8.9523	+/-1.0	
p-Terphenyl-d14 (Surr)			54 - 127	12.762	12.9315	-0.1695	+/-1.0	
Blank (0020782-BLK1)			Lab File ID: N02262004.D		Analyzed: 02/26/20 11:19			
2-Fluorobiphenyl (Surr)	45.5	103	44 - 115	8.822	8.9523	-0.1303	+/-1.0	
p-Terphenyl-d14 (Surr)	45.5	110	54 - 127	12.756	12.9315	-0.1755	+/-1.0	
LCS (0020782-BS1)			Lab File ID: N02262005.D		Analyzed: 02/26/20 11:52			
2-Fluorobiphenyl (Surr)	50.0	105	44 - 115	8.816	8.9523	-0.1363	+/-1.0	
p-Terphenyl-d14 (Surr)	50.0	104	54 - 127	12.75	12.9315	-0.1815	+/-1.0	
PDI-049SC-A-07-08-191015 (A0B0680-05)			Lab File ID: N02262008.D		Analyzed: 02/26/20 13:28			
2-Fluorobiphenyl (Surr)	61.8	87	44 - 115	8.822	8.9523	-0.1303	+/-1.0	
p-Terphenyl-d14 (Surr)	61.8	86	54 - 127	12.756	12.9315	-0.1755	+/-1.0	
Matrix Spike (0020782-MS1)			Lab File ID: N02262009.D		Analyzed: 02/26/20 14:00			
2-Fluorobiphenyl (Surr)	62.0	86	44 - 115	8.821	8.9523	-0.1313	+/-1.0	
p-Terphenyl-d14 (Surr)	62.0	83	54 - 127	12.756	12.9315	-0.1755	+/-1.0	
Matrix Spike Dup (0020782-MSD1)			Lab File ID: N02262010.D		Analyzed: 02/26/20 14:32			
2-Fluorobiphenyl (Surr)	61.8	88	44 - 115	8.822	8.9523	-0.1303	+/-1.0	
p-Terphenyl-d14 (Surr)	61.8	88	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:	0B27023	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 (0B27023-CCV1)			Lab File ID: N02272002.D		Analyzed: 02/27/20 08:43			
2-Fluorobiphenyl (Surr)	50.0	105	80 - 120	8.816	8.9523	-0.1363	+/-1.0	
p-Terphenyl-d14 (Surr)	50.0	95	80 - 120	12.756	12.9315	-0.1755	+/-1.0	
Calibration Blank (0B27023-CCB1)			Lab File ID: N02272003.D		Analyzed: 02/27/20 09:15			
2-Fluorobiphenyl (Surr)			44 - 115	0	8.9523	-8.9523	+/-1.0	
p-Terphenyl-d14 (Surr)			54 - 127	0	12.9315	-12.9315	+/-1.0	
PDI-049SC-A-04-05-191015 (A0B0680-02)			Lab File ID: N02272007.D		Analyzed: 02/27/20 11:23			
2-Fluorobiphenyl (Surr)	82.8	136	44 - 115	8.821	8.9523	-0.1313	+/-1.0	*
p-Terphenyl-d14 (Surr)	82.8	186	54 - 127	12.756	12.9315	-0.1755	+/-1.0	*
PDI-049SC-A-05-06-191015 (A0B0680-03)			Lab File ID: N02272008.D		Analyzed: 02/27/20 11:55			
2-Fluorobiphenyl (Surr)	73.9	87	44 - 115	8.827	8.9523	-0.1253	+/-1.0	
p-Terphenyl-d14 (Surr)	73.9	130	54 - 127	12.756	12.9315	-0.1755	+/-1.0	*
PDI-049SC-A-03-04-191015 (A0B0680-01RE1)			Lab File ID: N02272021.D		Analyzed: 02/27/20 18:51			
2-Fluorobiphenyl (Surr)	88.8	150	44 - 115	8.822	8.9523	-0.1303	+/-1.0	*
p-Terphenyl-d14 (Surr)	88.8	220	54 - 127	12.756	12.9315	-0.1755	+/-1.0	*
PDI-049SC-A-06-07-191015 (A0B0680-04RE1)			Lab File ID: N02272023.D		Analyzed: 02/27/20 19:55			
2-Fluorobiphenyl (Surr)	66.2	77	44 - 115	8.822	8.9523	-0.1303	+/-1.0	
p-Terphenyl-d14 (Surr)	66.2	79	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:	0B26029	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 (0B26029-CCV1)			Lab File ID: N02262002.D			Analyzed: 02/26/20 10:15			
Naphthalene-d8 (ISTD)	191979	7.755	148351	7.883	129	50 - 200	-0.1280	+/-0.50	
Acenaphthene-d10 (ISTD)	119599	9.509	117951	9.638	101	50 - 200	-0.1290	+/-0.50	
Phenanthrene-d10 (ISTD)	223968	11.013	219661	11.147	102	50 - 200	-0.1340	+/-0.50	
Chrysene-d12 (ISTD)	189183	14.668	169841	14.907	111	50 - 200	-0.2390	+/-0.50	
Perylene-d12 (ISTD)	175118	18.13	142416	18.375	123	50 - 200	-0.2450	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	139402	20.514	93265	20.765	149	50 - 200	-0.2510	+/-0.50	
Calibration Blank (0B26029-CCB1)			Lab File ID: N02262003.D			Analyzed: 02/26/20 10:47			
Naphthalene-d8 (ISTD)	194915	7.749	191979	7.755	102	50 - 200	-0.0060	+/-0.50	
Acenaphthene-d10 (ISTD)	122421	9.503	119599	9.509	102	50 - 200	-0.0060	+/-0.50	
Phenanthrene-d10 (ISTD)	210431	11.007	223968	11.013	94	50 - 200	-0.0060	+/-0.50	
Chrysene-d12 (ISTD)	143289	14.662	189183	14.668	76	50 - 200	-0.0060	+/-0.50	
Perylene-d12 (ISTD)	124720	18.118	175118	18.13	71	50 - 200	-0.0120	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	94957	20.508	139402	20.514	68	50 - 200	-0.0060	+/-0.50	
Blank (0020782-BLK1)			Lab File ID: N02262004.D			Analyzed: 02/26/20 11:19			
Naphthalene-d8 (ISTD)	160733	7.749	191979	7.755	84	50 - 200	-0.0060	+/-0.50	
Acenaphthene-d10 (ISTD)	102790	9.504	119599	9.509	86	50 - 200	-0.0050	+/-0.50	
Phenanthrene-d10 (ISTD)	185236	11.013	223968	11.013	83	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	137274	14.662	189183	14.668	73	50 - 200	-0.0060	+/-0.50	
Perylene-d12 (ISTD)	121160	18.118	175118	18.13	69	50 - 200	-0.0120	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	94462	20.508	139402	20.514	68	50 - 200	-0.0060	+/-0.50	
LCS (0020782-BS1)			Lab File ID: N02262005.D			Analyzed: 02/26/20 11:52			
Naphthalene-d8 (ISTD)	157410	7.749	191979	7.755	82	50 - 200	-0.0060	+/-0.50	
Acenaphthene-d10 (ISTD)	109554	9.504	119599	9.509	92	50 - 200	-0.0050	+/-0.50	
Phenanthrene-d10 (ISTD)	197719	11.007	223968	11.013	88	50 - 200	-0.0060	+/-0.50	
Chrysene-d12 (ISTD)	160163	14.662	189183	14.668	85	50 - 200	-0.0060	+/-0.50	
Perylene-d12 (ISTD)	145030	18.118	175118	18.13	83	50 - 200	-0.0120	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	110684	20.502	139402	20.514	79	50 - 200	-0.0120	+/-0.50	
Duplicate (0020782-DUP1)			Lab File ID: N02262007.D			Analyzed: 02/26/20 12:56			
Naphthalene-d8 (ISTD)	171054	7.749	191979	7.755	89	50 - 200	-0.0060	+/-0.50	
Acenaphthene-d10 (ISTD)	116081	9.504	119599	9.509	97	50 - 200	-0.0050	+/-0.50	
Phenanthrene-d10 (ISTD)	217943	11.007	223968	11.013	97	50 - 200	-0.0060	+/-0.50	
Chrysene-d12 (ISTD)	188073	14.662	189183	14.668	99	50 - 200	-0.0060	+/-0.50	
Perylene-d12 (ISTD)	173043	18.118	175118	18.13	99	50 - 200	-0.0120	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	136083	20.502	139402	20.514	98	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:	0B26029	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-049SC-A-07-08-191015 (A0B0680-05)			Lab File ID: N02262008.D			Analyzed: 02/26/20 13:28			
Naphthalene-d8 (ISTD)	170144	7.755	191979	7.755	89	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	113573	9.509	119599	9.509	95	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	204753	11.013	223968	11.013	91	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	167529	14.662	189183	14.668	89	50 - 200	-0.0060	+/-0.50	
Perylene-d12 (ISTD)	161658	18.124	175118	18.13	92	50 - 200	-0.0060	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	130270	20.508	139402	20.514	93	50 - 200	-0.0060	+/-0.50	
Matrix Spike (0020782-MS1)			Lab File ID: N02262009.D			Analyzed: 02/26/20 14:00			
Naphthalene-d8 (ISTD)	163467	7.755	191979	7.755	85	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	101900	9.503	119599	9.509	85	50 - 200	-0.0060	+/-0.50	
Phenanthrene-d10 (ISTD)	173614	11.013	223968	11.013	78	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	132368	14.662	189183	14.668	70	50 - 200	-0.0060	+/-0.50	
Perylene-d12 (ISTD)	127413	18.124	175118	18.13	73	50 - 200	-0.0060	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	102189	20.508	139402	20.514	73	50 - 200	-0.0060	+/-0.50	
Matrix Spike Dup (0020782-MSD1)			Lab File ID: N02262010.D			Analyzed: 02/26/20 14:32			
Naphthalene-d8 (ISTD)	167947	7.755	191979	7.755	87	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	107540	9.504	119599	9.509	90	50 - 200	-0.0050	+/-0.50	
Phenanthrene-d10 (ISTD)	185245	11.013	223968	11.013	83	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	139664	14.662	189183	14.668	74	50 - 200	-0.0060	+/-0.50	
Perylene-d12 (ISTD)	130529	18.124	175118	18.13	75	50 - 200	-0.0060	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	100956	20.508	139402	20.514	72	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 C
Sequence:	0B27023	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 (0B27023-CCV1)			Lab File ID: N02272002.D			Analyzed: 02/27/20 08:43			
Naphthalene-d8 (ISTD)	187473	7.749	148351	7.883	126	50 - 200	-0.1340	+/-0.50	
Acenaphthene-d10 (ISTD)	111892	9.504	117951	9.638	95	50 - 200	-0.1340	+/-0.50	
Phenanthrene-d10 (ISTD)	200242	11.013	219661	11.147	91	50 - 200	-0.1340	+/-0.50	
Chrysene-d12 (ISTD)	136715	14.662	169841	14.907	80	50 - 200	-0.2450	+/-0.50	
Perylene-d12 (ISTD)	118815	18.124	142416	18.375	83	50 - 200	-0.2510	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	80611	20.508	93265	20.765	86	50 - 200	-0.2570	+/-0.50	
Calibration Blank (0B27023-CCB1)			Lab File ID: N02272003.D			Analyzed: 02/27/20 09:15			
Naphthalene-d8 (ISTD)	148558	7.755	187473	7.749	79	50 - 200	0.0060	+/-0.50	
Acenaphthene-d10 (ISTD)	87602	9.504	111892	9.504	78	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	131216	11.013	200242	11.013	66	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	87572	14.662	136715	14.662	64	50 - 200	0.0000	+/-0.50	
Perylene-d12 (ISTD)	81236	18.124	118815	18.124	68	50 - 200	0.0000	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	62457	20.508	80611	20.508	77	50 - 200	0.0000	+/-0.50	
PDI-049SC-A-04-05-191015 (A0B0680-02)			Lab File ID: N02272007.D			Analyzed: 02/27/20 11:23			
Naphthalene-d8 (ISTD)	159469	7.755	187473	7.749	85	50 - 200	0.0060	+/-0.50	
Acenaphthene-d10 (ISTD)	99289	9.503	111892	9.504	89	50 - 200	-0.0010	+/-0.50	
Phenanthrene-d10 (ISTD)	165572	11.013	200242	11.013	83	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	125592	14.662	136715	14.662	92	50 - 200	0.0000	+/-0.50	
Perylene-d12 (ISTD)	121237	18.124	118815	18.124	102	50 - 200	0.0000	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	92192	20.508	80611	20.508	114	50 - 200	0.0000	+/-0.50	
PDI-049SC-A-05-06-191015 (A0B0680-03)			Lab File ID: N02272008.D			Analyzed: 02/27/20 11:55			
Naphthalene-d8 (ISTD)	164502	7.755	187473	7.749	88	50 - 200	0.0060	+/-0.50	
Acenaphthene-d10 (ISTD)	105963	9.503	111892	9.504	95	50 - 200	-0.0010	+/-0.50	
Phenanthrene-d10 (ISTD)	182592	11.013	200242	11.013	91	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	145087	14.662	136715	14.662	106	50 - 200	0.0000	+/-0.50	
Perylene-d12 (ISTD)	138396	18.124	118815	18.124	116	50 - 200	0.0000	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	107765	20.508	80611	20.508	134	50 - 200	0.0000	+/-0.50	
PDI-049SC-A-03-04-191015 (A0B0680-01RE1)			Lab File ID: N02272021.D			Analyzed: 02/27/20 18:51			
Naphthalene-d8 (ISTD)	160886	7.755	187473	7.749	86	50 - 200	0.0060	+/-0.50	
Acenaphthene-d10 (ISTD)	110867	9.503	111892	9.504	99	50 - 200	-0.0010	+/-0.50	
Phenanthrene-d10 (ISTD)	189528	11.013	200242	11.013	95	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	150796	14.662	136715	14.662	110	50 - 200	0.0000	+/-0.50	
Perylene-d12 (ISTD)	147747	18.124	118815	18.124	124	50 - 200	0.0000	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	107135	20.508	80611	20.508	133	50 - 200	0.0000	+/-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 C
Sequence:	0B27023	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-049SC-A-06-07-191015 (A0B0680-04RE1)			Lab File ID: N02272023.D			Analyzed: 02/27/20 19:55			
Naphthalene-d8 (ISTD)	164217	7.749	187473	7.749	88	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	116376	9.504	111892	9.504	104	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	198968	11.013	200242	11.013	99	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	161687	14.662	136715	14.662	118	50 - 200	0.0000	+/-0.50	
Perylene-d12 (ISTD)	164127	18.124	118815	18.124	138	50 - 200	0.0000	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	121141	20.508	80611	20.508	150	50 - 200	0.0000	+/-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-049SC-A-03-04-191015	10/15/19 13:29	10/16/19 10:00	02/26/20 07:50	133.76	14.00	02/27/20 18:51	1.46	40.00	*
PDI-049SC-A-04-05-191015	10/15/19 13:29	10/16/19 10:00	02/26/20 07:50	133.76	14.00	02/27/20 11:23	1.15	40.00	*
PDI-049SC-A-05-06-191015	10/15/19 13:29	10/16/19 10:00	02/26/20 07:50	133.76	14.00	02/27/20 11:55	1.17	40.00	*
PDI-049SC-A-06-07-191015	10/15/19 13:29	10/16/19 10:00	02/26/20 07:50	133.76	14.00	02/27/20 19:55	1.50	40.00	*
PDI-049SC-A-07-08-191015	10/15/19 13:29	10/16/19 10:00	02/26/20 07:50	133.76	14.00	02/26/20 13:28	0.23	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

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-049SC-A-03-04-191015	A0B0680-01	Sediment
PDI-049SC-A-04-05-191015	A0B0680-02	Sediment
PDI-049SC-A-05-06-191015	A0B0680-03	Sediment
PDI-049SC-A-06-07-191015	A0B0680-04	Sediment
PDI-049SC-A-07-08-191015	A0B0680-05	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 12:43PM

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	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-049SC-A-03-04-191015

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: A0B0680-01
File ID: 0B27057.txt-029
Sampled: 10/15/19 13:29
Prepared: 02/26/20 17:00
Analyzed: 02/27/20 23:58
Solids: 56.15
Preparation: PSEP-5310B TOC
Initial/Final: 0.2 N/A / 0.2 N/A
Batch: 0020837
Sequence: 0B27057
Calibration: A0A0805
Instrument: TOC6

CAS NO.	Analyte	Concentration (% by Weight)	Dilution Factor	Q	Method
TOC	Total Organic Carbon	4.3	1		SM 5310 B MOD

INORGANIC ANALYSIS DATA SHEET

SM 5310 B MOD

PDI-049SC-A-04-05-191015

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: A0B0680-02
File ID: 0B27057.txt-032
Sampled: 10/15/19 13:29
Prepared: 02/26/20 17:00
Analyzed: 02/28/20 00:30
Solids: 56.51
Preparation: PSEP-5310B TOC
Initial/Final: 0.2 N/A / 0.2 N/A
Batch: 0020837
Sequence: 0B27057
Calibration: A0A0805
Instrument: TOC6

CAS NO.	Analyte	Concentration (% by Weight)	Dilution Factor	Q	Method
TOC	Total Organic Carbon	3.6	1		SM 5310 B MOD

INORGANIC ANALYSIS DATA SHEET

SM 5310 B MOD

PDI-049SC-A-05-06-191015

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: A0B0680-03
File ID: 0B27057.txt-033
Sampled: 10/15/19 13:29
Prepared: 02/26/20 17:00
Analyzed: 02/28/20 00:41
Solids: 61.97
Preparation: PSEP-5310B TOC
Initial/Final: 0.2 N/A / 0.2 N/A
Batch: 0020837
Sequence: 0B27057
Calibration: A0A0805
Instrument: TOC6

CAS NO.	Analyte	Concentration (% by Weight)	Dilution Factor	Q	Method
TOC	Total Organic Carbon	2.9	1		SM 5310 B MOD

INORGANIC ANALYSIS DATA SHEET

SM 5310 B MOD

PDI-049SC-A-06-07-191015

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: A0B0680-04
File ID: 0B27057.txt-034
Sampled: 10/15/19 13:29
Prepared: 02/26/20 17:00
Analyzed: 02/28/20 00:52
Solids: 73.74
Preparation: PSEP-5310B TOC
Initial/Final: 0.2 N/A / 0.2 N/A
Batch: 0020837
Sequence: 0B27057
Calibration: A0A0805
Instrument: TOC6

CAS NO.	Analyte	Concentration (% by Weight)	Dilution Factor	Q	Method
TOC	Total Organic Carbon	0.41	1		SM 5310 B MOD

INORGANIC ANALYSIS DATA SHEET

SM 5310 B MOD

PDI-049SC-A-07-08-191015

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: A0B0680-05
File ID: 0B27057.txt-035
Sampled: 10/15/19 13:29
Prepared: 02/26/20 17:00
Analyzed: 02/28/20 01:03
Solids: 79.99
Preparation: PSEP-5310B TOC
Initial/Final: 0.2 N/A / 0.2 N/A
Batch: 0020837
Sequence: 0B27057
Calibration: A0A0805
Instrument: TOC6

CAS NO.	Analyte	Concentration (% by Weight)	Dilution Factor	Q	Method
TOC	Total Organic Carbon	0.068	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: 0020837 Batch Matrix: Sediment Preparation: PSEP-5310B TOC

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	0020837-BLK1	0B27057.txt-027	02/26/20 12:20	
LCS	0020837-BS1	0B27057.txt-028	02/26/20 12:20	
PDI-049SC-A-03-04-191015 (Dup)	0020837-DUP1	0B27057.txt-030	02/26/20 17:00	
PDI-049SC-A-03-04-191015 (Dup)	0020837-DUP2	0B27057.txt-031	02/26/20 17:00	
PDI-049SC-A-03-04-191015	A0B0680-01	0B27057.txt-029	02/26/20 17:00	
PDI-049SC-A-04-05-191015	A0B0680-02	0B27057.txt-032	02/26/20 17:00	
PDI-049SC-A-05-06-191015	A0B0680-03	0B27057.txt-033	02/26/20 17:00	
PDI-049SC-A-06-07-191015	A0B0680-04	0B27057.txt-034	02/26/20 17:00	
PDI-049SC-A-07-08-191015	A0B0680-05	0B27057.txt-035	02/26/20 17:00	

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:	Sediment	Laboratory ID:	0020837-BLK1	File ID:	0B27057.txt-027
Prepared:	02/26/20 12:20	Preparation:	PSEP-5310B TOC	Initial/Final:	0.2 N/A / 0.2 N/A
Analyzed:	02/27/20 23:36	Instrument:	TOC6		
Batch:	0020837	Sequence:	0B27057	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:	Sediment		
Batch:	0020837	Laboratory ID:	0020837-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-049SC-A-03-04-191015

DUPLICATES

SM 5310 B MOD

Laboratory: Apex Laboratories
Client: Anchor QEA, LLC
Matrix: Sediment
Batch: 0020837
Preparation: PSEP-5310B TOC
Source Sample Name: PDI-049SC-A-03-04-191015

SDG: Gasco_PreRD_DG 2019
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP
Laboratory ID: 0020837-DUP1
Lab Source ID: A0B0680-01
Initial/Final: 0.2 N/A / 0.2 N/A
% Solids: 56.15

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (% by Weight)	C	DUPLICATE CONCENTRATION (% by Weight)	C	RPD %	Q	METHOD
Total Organic Carbon	20	4.3		3.9		9		SM 5310 B MOD

* Values outside of QC limits

PDI-049SC-A-03-04-191015

DUPLICATES

SM 5310 B MOD

Laboratory: Apex Laboratories
Client: Anchor QEA, LLC
Matrix: Sediment
Batch: 0020837
Preparation: PSEP-5310B TOC
Source Sample Name: PDI-049SC-A-03-04-191015

SDG: Gasco_PreRD_DG 2019
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP
Laboratory ID: 0020837-DUP2
Lab Source ID: A0B0680-01
Initial/Final: 0.2 N/A / 0.2 N/A
% Solids: 56.15

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (% by Weight)	C	DUPLICATE CONCENTRATION (% by Weight)	C	RPD %	Q	METHOD
Total Organic Carbon	20	4.3		4.2		2		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:	0B27057	Instrument:	TOC6
Matrix:	Sediment	Calibration:	A0A0805

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	0B27057-CCV1	0B27057.txt-003	02/27/20 19:17
Calibration Blank	0B27057-CCB1	0B27057.txt-004	02/27/20 19:28
Calibration Check	0B27057-CCV2	0B27057.txt-015	02/27/20 21:27
Calibration Blank	0B27057-CCB2	0B27057.txt-016	02/27/20 21:37
Calibration Check	0B27057-CCV3	0B27057.txt-025	02/27/20 23:15
Calibration Blank	0B27057-CCB3	0B27057.txt-026	02/27/20 23:26
Blank	0020837-BLK1	0B27057.txt-027	02/27/20 23:36
LCS	0020837-BS1	0B27057.txt-028	02/27/20 23:47
PDI-049SC-A-03-04-191015	A0B0680-01	0B27057.txt-029	02/27/20 23:58
PDI-049SC-A-03-04-191015 (Dup)	0020837-DUP1	0B27057.txt-030	02/28/20 00:09
PDI-049SC-A-03-04-191015 (Dup)	0020837-DUP2	0B27057.txt-031	02/28/20 00:20
PDI-049SC-A-04-05-191015	A0B0680-02	0B27057.txt-032	02/28/20 00:30
PDI-049SC-A-05-06-191015	A0B0680-03	0B27057.txt-033	02/28/20 00:41
PDI-049SC-A-06-07-191015	A0B0680-04	0B27057.txt-034	02/28/20 00:52
PDI-049SC-A-07-08-191015	A0B0680-05	0B27057.txt-035	02/28/20 01:03
Calibration Check	0B27057-CCV4	0B27057.txt-037	02/28/20 01:24
Calibration Blank	0B27057-CCB4	0B27057.txt-038	02/28/20 01:35
Calibration Check	0B27057-CCV5	0B27057.txt-044	02/28/20 02:40
Calibration Blank	0B27057-CCB5	0B27057.txt-045	02/28/20 02:51

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: 0B27057

Lab Sample ID	Analyte	True	Found	%R	Units	Method
0B27057-CCV1	Total Organic Carbon	10000	9500	95	mg/kg	SM 5310 B MOD
0B27057-CCV2	Total Organic Carbon	10000	9800	98	mg/kg	SM 5310 B MOD
0B27057-CCV3	Total Organic Carbon	10000	9800	98	mg/kg	SM 5310 B MOD
0B27057-CCV4	Total Organic Carbon	10000	9700	97	mg/kg	SM 5310 B MOD
0B27057-CCV5	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: 0B27057
Calibration: A0A0805

Lab Sample ID	Analyte	Found	RL	Units	C	Method
0B27057-CCB1	Total Organic Carbon	ND	200 (Inst)	mg/kg		SM 5310 B MOD
0B27057-CCB2	Total Organic Carbon	ND	200 (Inst)	mg/kg		SM 5310 B MOD
0B27057-CCB3	Total Organic Carbon	ND	200 (Inst)	mg/kg		SM 5310 B MOD
0B27057-CCB4	Total Organic Carbon	ND	200 (Inst)	mg/kg		SM 5310 B MOD
0B27057-CCB5	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-049SC-A-03-04-191015	10/15/19 13:29	10/16/19 10:00	02/26/20 17:00	134.15	28.00	02/27/20 23:58	135.44	28.00	*
PDI-049SC-A-04-05-191015	10/15/19 13:29	10/16/19 10:00	02/26/20 17:00	134.15	28.00	02/28/20 00:30	135.46	28.00	*
PDI-049SC-A-05-06-191015	10/15/19 13:29	10/16/19 10:00	02/26/20 17:00	134.15	28.00	02/28/20 00:41	135.47	28.00	*
PDI-049SC-A-06-07-191015	10/15/19 13:29	10/16/19 10:00	02/26/20 17:00	134.15	28.00	02/28/20 00:52	135.47	28.00	*
PDI-049SC-A-07-08-191015	10/15/19 13:29	10/16/19 10:00	02/26/20 17:00	134.15	28.00	02/28/20 01:03	135.48	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-049SC-A-03-04-191015	A0B0680-01	Sediment
PDI-049SC-A-04-05-191015	A0B0680-02	Sediment
PDI-049SC-A-05-06-191015	A0B0680-03	Sediment
PDI-049SC-A-06-07-191015	A0B0680-04	Sediment
PDI-049SC-A-07-08-191015	A0B0680-05	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 12:43PM

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-049SC-A-03-04-191015

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: A0B0680-01
Sampled: 10/15/19 13:29
Prepared: 02/26/20 10:29
Analyzed: 02/27/20 18:17
Solids: 56.15
Preparation: Total Solids (SM2540G/PSEP)
Initial/Final: 1 N/A / 1 N/A
Batch: 0020800
Calibration:
Instrument: Inst

CAS NO.	Analyte	Concentration (% by Weight)	Dilution Factor	Q	Method
TS	Total Solids	56.2	1		SM 2540 G

INORGANIC ANALYSIS DATA SHEET

SM 2540 G

PDI-049SC-A-04-05-191015

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: A0B0680-02
Sampled: 10/15/19 13:29
Prepared: 02/26/20 10:29
Analyzed: 02/27/20 18:17
Solids: 56.51
Preparation: Total Solids (SM2540G/PSEP)
Initial/Final: 1 N/A / 1 N/A
Batch: 0020800
Calibration:
Instrument: Inst

CAS NO.	Analyte	Concentration (% by Weight)	Dilution Factor	Q	Method
TS	Total Solids	56.5	1		SM 2540 G

INORGANIC ANALYSIS DATA SHEET

SM 2540 G

PDI-049SC-A-05-06-191015

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: A0B0680-03
Sampled: 10/15/19 13:29
Prepared: 02/26/20 10:29
Analyzed: 02/27/20 18:17
Solids: 61.97
Preparation: Total Solids (SM2540G/PSEP)
Initial/Final: 1 N/A / 1 N/A
Batch: 0020800
Calibration:
Instrument: Inst

CAS NO.	Analyte	Concentration (% by Weight)	Dilution Factor	Q	Method
TS	Total Solids	62.0	1		SM 2540 G

INORGANIC ANALYSIS DATA SHEET

SM 2540 G

PDI-049SC-A-06-07-191015

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: A0B0680-04
Sampled: 10/15/19 13:29
Prepared: 02/26/20 10:29
Analyzed: 02/27/20 18:17
Solids: 73.74
Preparation: Total Solids (SM2540G/PSEP)
Initial/Final: 1 N/A / 1 N/A
Batch: 0020800
Calibration:
Instrument: Inst

CAS NO.	Analyte	Concentration (% by Weight)	Dilution Factor	Q	Method
TS	Total Solids	73.7	1		SM 2540 G

INORGANIC ANALYSIS DATA SHEET

SM 2540 G

PDI-049SC-A-07-08-191015

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: A0B0680-05
Sampled: 10/15/19 13:29
Prepared: 02/26/20 10:29
Analyzed: 02/27/20 18:17
Solids: 79.99
Preparation: Total Solids (SM2540G/PSEP)
Initial/Final: 1 N/A / 1 N/A
Batch: 0020800
Calibration:
Instrument: Inst

CAS NO.	Analyte	Concentration (% by Weight)	Dilution Factor	Q	Method
TS	Total Solids	80.0	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: 0020800 Batch Matrix: Sediment Preparation: Total Solids (SM2540G/PSEP)

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
PDI-049SC-A-03-04-191015 (Dup)	0020800-DUP1		02/26/20 10:29	
PDI-049SC-A-03-04-191015	A0B0680-01		02/26/20 10:29	
PDI-049SC-A-04-05-191015	A0B0680-02		02/26/20 10:29	
PDI-049SC-A-05-06-191015	A0B0680-03		02/26/20 10:29	
PDI-049SC-A-06-07-191015	A0B0680-04		02/26/20 10:29	
PDI-049SC-A-07-08-191015	A0B0680-05		02/26/20 10:29	

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-049SC-A-03-04-191015

DUPLICATES

SM 2540 G

Laboratory: Apex Laboratories
Client: Anchor QEA, LLC
Matrix: Sediment
Batch: 0020800
Preparation: Total Solids (SM2540G/PSEP)
Source Sample Name: PDI-049SC-A-03-04-191015

SDG: Gasco_PreRD_DG 2019
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP
Laboratory ID: 0020800-DUP1
Lab Source ID: A0B0680-01
Initial/Final: 1 N/A / 1 N/A
% Solids: 56.15

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (% by Weight)	C	DUPLICATE CONCENTRATION (% by Weight)	C	RPD %	Q	METHOD
Total Solids	10	56.2		57.6		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-049SC-A-03-04-191015	10/15/19 13:29	10/16/19 10:00	02/26/20 10:29	133.88	180.00	02/27/20 18:17	1.33		
PDI-049SC-A-04-05-191015	10/15/19 13:29	10/16/19 10:00	02/26/20 10:29	133.88	180.00	02/27/20 18:17	1.33		
PDI-049SC-A-05-06-191015	10/15/19 13:29	10/16/19 10:00	02/26/20 10:29	133.88	180.00	02/27/20 18:17	1.33		
PDI-049SC-A-06-07-191015	10/15/19 13:29	10/16/19 10:00	02/26/20 10:29	133.88	180.00	02/27/20 18:17	1.33		
PDI-049SC-A-07-08-191015	10/15/19 13:29	10/16/19 10:00	02/26/20 10:29	133.88	180.00	02/27/20 18:17	1.33		

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 0020809
Batch 0020917
Sequence 0B27017 (A0B0680-04,05)

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0020809 (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
	0020809-BLK1		QC	02/26/20 12:42	31	2				100					
	0020809-BS1		QC	02/26/20 12:42	30	2	A20B283		100	100					
	A0B0679-01	A	8082 PCBs - Low Level (30g/2mL)	02/26/20 12:42	30.69	2				100	PDI-014SC-A-04-05-191003	+1262,1268			
	A0B0679-02	A	8082 PCBs - Low Level (30g/2mL)	02/26/20 12:42	30.42	2				100	PDI-014SC-A-05-06-191003	+1262,1268			
	A0B0679-03	A	8082 PCBs - Low Level (30g/2mL)	02/26/20 12:42	30.51	2				100	PDI-014SC-A-06-07-191003	+1262,1268			
	0020809-DUP1		QC	02/26/20 12:42	30.59	2		A0B0679-03		100					
	A0B0679-04	A	8082 PCBs - Low Level (30g/2mL)	02/26/20 12:42	30.87	2				100	PDI-084SC-A-03-04-191002	+1262,1268			
	A0B0679-04RE1	A	8082 PCBs - Low Level (30g/2mL)	02/26/20 12:42	30.87	2				100	PDI-084SC-A-03-04-191002	Run on 2R. Added 2/28/2020 By KAK			
	A0B0679-05	A	8082 PCBs - Low Level (30g/2mL)	02/26/20 12:42	30.3	2				100	PDI-084SC-A-04-05-191002	+1262,1268			
	A0B0679-06	A	8082 PCBs - Low Level (30g/2mL)	02/26/20 12:42	30.34	2				100	PDI-084SC-A-05-06-191002	+1262,1268			
	A0B0679-07	A	8082 PCBs - Low Level (30g/2mL)	02/26/20 12:42	30.38	2				100	PDI-084SC-A-06-07-191002	+1262,1268			
	A0B0679-08	A	8082 PCBs - Low Level (30g/2mL)	02/26/20 12:42	30.86	2				100	PDI-084SC-A-07-08-191002	+1262,1268			
	A0B0679-09	A	8082 PCBs - Low Level (30g/2mL)	02/26/20 12:42	30.71	2				100	PDI-084SC-A-08-09-191002	+1262,1268			
	A0B0679-10	A	8082 PCBs - Low Level (30g/2mL)	02/26/20 12:42	30.71	2				100	PDI-084SC-A-09-10-191002	+1262,1268			
	A0B0679-11	A	8082 PCBs - Low Level (30g/2mL)	02/26/20 12:42	30.76	2				100	PDI-084SC-A-10-11-191002	+1262,1268			
	A0B0679-11RE1	A	8082 PCBs - Low Level (30g/2mL)	02/26/20 12:42	30.76	2				100	PDI-084SC-A-10-11-191002	Added 2/28/2020 By KAK			
	A0B0679-12	A	8082 PCBs - Low Level (30g/2mL)	02/26/20 12:42	30.29	2				100	PDI-084SC-A-11-12-191002	+1262,1268			
	A0B0679-13	A	8082 PCBs - Low Level (30g/2mL)	02/26/20 12:42	30.56	2				100	PDI-084SC-A-12-13-191002	+1262,1268			
	A0B0679-14	A	8082 PCBs - Low Level (30g/2mL)	02/26/20 12:42	30.37	2				100	PDI-084SC-A-13-14-191002	+1262,1268			

Prepared By: _____ Date _____

Reviewed By: _____ Date 3/3/20

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0020809 (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
	A0B0679-14RE1	A	8082 PCBs - Low Level (30g/2mL)	02/26/20 12:42	30.37	2				100	PDI-084SC-A-13-14-191002	Added 2/28/2020 By KAK			
	A0B0679-15	A	8082 PCBs - Low Level (30g/2mL)	02/26/20 12:42	30.9	2				100	PDI-084SC-A-14-15-191002	+1262,1268			
	A0B0680-01	A	8082 PCBs - Low Level (30g/2mL)	02/26/20 12:42	30.64	2				100	PDI-049SC-A-03-04-191015	+1262,1268			
	A0B0680-02	A	8082 PCBs - Low Level (30g/2mL)	02/26/20 12:42	30.29	2				100	PDI-049SC-A-04-05-191015	+1262,1268			
	A0B0680-02RE1	A	8082 PCBs - Low Level (30g/2mL)	02/26/20 12:42	30.29	2				100	PDI-049SC-A-04-05-191015	Added 3/2/2020 By KAK			
	A0B0680-03	A	8082 PCBs - Low Level (30g/2mL)	02/26/20 12:42	30.67	2				100	PDI-049SC-A-05-06-191015	+1262,1268			
	0020809-MS1		QC	02/26/20 12:42	30.69	2	A20B283	A0B0680-03	100	100					
	0020809-MS2		QC	02/26/20 12:42	30.69	2	A20B283	A0B0680-03	100	100		Added 3/2/2020 by KAK			
	0020809-MSD1		QC	02/26/20 12:45	30.65	2	A20B283	A0B0680-03	100	100					
	0020809-MSD2		QC	02/26/20 12:45	30.65	2	A20B283	A0B0680-03	100	100		Added 3/2/2020 by KAK			
	A0B0680-03RE1	A	8082 PCBs - Low Level (30g/2mL)	02/26/20 12:42	30.67	2				100	PDI-049SC-A-05-06-191015	Added 3/2/2020 By KAK			
	A0B0680-04	A	8082 PCBs - Low Level (30g/2mL)	02/26/20 12:42	30.28	2				100	PDI-049SC-A-06-07-191015	+1262,1268			
	A0B0680-05	A	8082 PCBs - Low Level (30g/2mL)	02/26/20 12:42	30.71	2				100	PDI-049SC-A-07-08-191015	+1262,1268			

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
A20B283	08/24/20	8082 PCB Matrix Spike

Surrogate(s)

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

Prepared By: Date

Reviewed By: Date

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0020809 (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

Method 3546 digestion time and temperture achieved.
Initial:

Witness:_____

Prepared By: Date

Reviewed By: Date

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0020809 (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	0020809-BLK1		QC	02/26/20 12:42	~~30~~ 31	2				100					
3/4	0020809-BS1		QC	02/26/20 12:42	30	2	A20B283		100	100					
5/6	A0B0679-01	A	8082 PCBs - Low Level (30g/2mL)	02/26/20 12:42	~~30~~ 30.69	2				100	PDI-014SC-A-04-05-191003	+1262,1268 Soil (sand), odor			
7/8	A0B0679-02	A	8082 PCBs - Low Level (30g/2mL)	02/26/20 12:42	~~30~~ 30.42	2				100	PDI-014SC-A-05-06-191003	+1262,1268 Soil (sand), odor			
9/10	A0B0679-03	A	8082 PCBs - Low Level (30g/2mL)	02/26/20 12:42	~~30~~ 30.51	2				100	PDI-014SC-A-06-07-191003	+1262,1268 dirt			
11/12	0020809-DUP1		QC	02/26/20 12:42	~~30~~ 30.54	2		A0B0679-03		100					
13/14	A0B0679-04	A	8082 PCBs - Low Level (30g/2mL)	02/26/20 12:42	~~30~~ 30.87	2				100	PDI-084SC-A-03-04-191002	+1262,1268 Mud, S, P			
15/16	A0B0679-05	A	8082 PCBs - Low Level (30g/2mL)	02/26/20 12:42	~~30~~ 30.30	2				100	PDI-084SC-A-04-05-191002	+1262,1268 Mud, S, P			
17/18	A0B0679-06	A	8082 PCBs - Low Level (30g/2mL)	02/26/20 12:42	~~30~~ 30.34	2				100	PDI-084SC-A-05-06-191002	+1262,1268 Mud, S, P			
19/20	A0B0679-07	A/B	8082 PCBs - Low Level (30g/2mL)	02/26/20 12:42	~~30~~ 30.38	2				100	PDI-084SC-A-06-07-191002	+1262,1268 Mud, S, P			
21/22	A0B0679-08	A	8082 PCBs - Low Level (30g/2mL)	02/26/20 12:42	~~30~~ 30.86	2				100	PDI-084SC-A-07-08-191002	+1262,1268 Mud, S, P			
23/24	A0B0679-09	A	8082 PCBs - Low Level (30g/2mL)	02/26/20 12:42	~~30~~ 30.71	2				100	PDI-084SC-A-08-09-191002	+1262,1268 Mud, S, P			
25/26	A0B0679-10	A	8082 PCBs - Low Level (30g/2mL)	02/26/20 12:42	~~30~~ 30.71	2				100	PDI-084SC-A-09-10-191002	+1262,1268 Mud S			
27/28	A0B0679-11	A	8082 PCBs - Low Level (30g/2mL)	02/26/20 12:42	~~30~~ 30.78	2				100	PDI-084SC-A-10-11-191002	+1262,1268 dirt S P			
29/30	A0B0679-12	A	8082 PCBs - Low Level (30g/2mL)	02/26/20 12:42	~~30~~ 30.29	2				100	PDI-084SC-A-11-12-191002	+1262,1268 Mud S P			
31/32	A0B0679-13	A	8082 PCBs - Low Level (30g/2mL)	02/26/20 12:42	~~30~~ 30.56	2				100	PDI-084SC-A-12-13-191002	+1262,1268 E Mud S			
33/34	A0B0679-14	A	8082 PCBs - Low Level (30g/2mL)	02/26/20 12:42	~~30~~ 30.37	2				100	PDI-084SC-A-13-14-191002	+1262,1268 E Mud S			
35/36	A0B0679-15	A	8082 PCBs - Low Level (30g/2mL)	02/26/20 12:42	~~30~~ 30.90	2				100	PDI-084SC-A-14-15-191002	+1262,1268 E Mud S			
37/38	A0B0680-01	A	8082 PCBs - Low Level (30g/2mL)	02/26/20 12:42	~~30~~ 30.64	2				100	PDI-049SC-A-03-04-191015	+1262,1268 Mud S			

Prepared By: SCG — Date: 2/26/20 (02/26/2020) — Reviewed By: CAS — Date: 02/26/2020

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0020809 (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
39/40	A0B0680-02	A	8082 PCBs - Low Level (30g/2mL)	02/26/20 12:42	~~30~~ 30.29	2				100	PDI-049SC-A-04-05-191015	+1262,1268 Mud S			
41/42	A0B0680-03	A	8082 PCBs - Low Level (30g/2mL)	02/26/20 12:42	~~30~~ 30.67	2				100	PDI-049SC-A-05-06-191015	+1262,1268 Mud Odor S	P		
43/44	0020809-MS1		QC	02/26/20 12:42	~~30~~ 30.69	2	A20B283	A0B0680-03	100	100		S	P		
45/46	0020809-MSD1		QC	02/26/20 12:45	~~30~~ 30.65	2	A20B283	A0B0680-03	100	100		S	P		
47/48	A0B0680-04	A	8082 PCBs - Low Level (30g/2mL)	02/26/20 12:42	~~30~~ 30.25	2				100	PDI-049SC-A-06-07-191015	+1262,1268 Mud Sand Water S			
49/50	A0B0680-05	A	8082 PCBs - Low Level (30g/2mL)	02/26/20 12:42	~~30~~ 30.71	2				100	PDI-049SC-A-07-08-191015	+1262,1268 Mud S			

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
A20B283	08/24/20	8082 PCB Matrix Spike

Surrogate(s)

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

S: Staining on turbovap after hexane exchange

P: precipitate formed after hexane exchange

E: Emulsion during Acid cleanup

Method 3546 digestion time and temperture achieved.
Initial: Cmt

Witness: Cmt 2/26/20

Prepared By: Date

Reviewed By: Date

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0020917 (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
	0020917-BLK1		QC	03/02/20 07:03	31	2				100					
	0020917-BS1		QC	03/02/20 07:03	30	2	A20B283		100	100					
	A0B0680-01RE1	A	8082 PCBs - Low Level (30g/2mL)	03/02/20 07:03	30.7	2				100	PDI-049SC-A-03-04-191015	Low Surrogate. Re-extract added 2/28/2020 by KAK			
	A0B0680-01RE2	A	8082 PCBs - Low Level (30g/2mL)	03/02/20 07:03	30.7	2				100	PDI-049SC-A-03-04-191015	Low Surrogate. Re-extract added 2/28/2020 by KAK			
	0020917-DUP1		QC	03/02/20 07:03	30.15	2		A0B0680-01RE2		100					
	A0B0680-01RE3	A	8082 PCBs - Low Level (30g/2mL)	03/02/20 07:03	30.7	2				100	PDI-049SC-A-03-04-191015	Low Surrogate. Re-extract added 2/28/2020 by KAK			
	0020917-DUP2		QC	03/02/20 07:03	30.15	2		A0B0680-01RE3		100					
	A0B0681-01RE1	A	8082 PCBs - Low Level (30g/2mL)	03/02/20 07:03	30.32	2				100	PDI-022SC-A-03-04-191016	Re-extract added 2/28/2020 by KAK			
	A0B0681-02RE1	A	8082 PCBs - Low Level (30g/2mL)	03/02/20 07:03	30.83	2				100	PDI-022SC-A-04-05-191016	Re-extract added 2/28/2020 by KAK			
	A0B0681-03RE1	A	8082 PCBs - Low Level (30g/2mL)	03/02/20 07:03	30.05	2				100	PDI-022SC-A-05-06-191016	Re-extract added 2/28/2020 by KAK			
	0020917-MS1		QC	03/02/20 07:03	30.1	2	A20B283	A0B0681-03RE1	100	100					
	0020917-MSD1		QC	03/02/20 07:03	30.05	2	A20B283	A0B0681-03RE1	100	100					
	A0B0681-04RE1	A	8082 PCBs - Low Level (30g/2mL)	03/02/20 07:03	30.16	2				100	PDI-022SC-A-06-07-191016	Re-extract added 2/28/2020 by KAK			
	A0B0681-05RE1	A	8082 PCBs - Low Level (30g/2mL)	03/02/20 07:03	30.27	2				100	PDI-059SC-A-11-12-191016	Re-extract added 2/28/2020 by KAK			

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
A20B283	08/24/20	8082 PCB Matrix Spike

Surrogate(s)

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

Prepared By: Date

Reviewed By: 3/3/20 Date

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0020917 (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

-Method 3546 digestion time and temperture achieved.

-Initial:

Witness:

Prepared By: Date

Reviewed By: Date

APEX LABORATORIES

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0020917 (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	0020917-BLK1		QC	03/02/20 07:03	~~30~~ 31	2				100					
3/4	0020917-BS1		QC	03/02/20 07:03	30	2	A20B283		100	100					
5/6	A0B0680-01RE1	A	8082 PCBs - Low Level (30g/2mL)	03/02/20 07:03	~~30~~ 30.70	2				100	PDI-049SC-A-03-04-191015	Low Surrogate. Re-extract added 2/28/2020 by KAK soil			
7/8	0020917-DUP1		QC	03/02/20 07:03	~~30~~ 30.15	2		A0B0680-01RE1		100		mud soil #(P)			
9/10	A0B0681-01RE1	A	8082 PCBs - Low Level (30g/2mL)	03/02/20 07:03	~~30~~ 30.32	2				100	PDI-022SC-A-03-04-191016	Re-extract added 2/28/2020 by KAK soil (P)			
11/12	A0B0681-02RE1	A	8082 PCBs - Low Level (30g/2mL)	03/02/20 07:03	~~30~~ 30.83	2				100	PDI-022SC-A-04-05-191016	Re-extract added 2/28/2020 by KAK soil #(P)			
13/14	A0B0681-03RE1	A	8082 PCBs - Low Level (30g/2mL)	03/02/20 07:03	~~30~~ 30.05	2				100	PDI-022SC-A-05-06-191016	Re-extract added 2/28/2020 by KAK soil			
15/16	0020917-MS1		QC	03/02/20 07:03	~~30~~ 30.10	2	A20B283	A0B0681-03RE1	100	100		soil			
17/18	0020917-MSD1		QC	03/02/20 07:03	~~30~~ 30.05	2	A20B283	A0B0681-03RE1	100	100		soil			
19/20	A0B0681-04RE1	A	8082 PCBs - Low Level (30g/2mL)	03/02/20 07:03	~~30~~ 30.16	2				100	PDI-022SC-A-06-07-191016	Re-extract added 2/28/2020 by KAK soil			
21/22	A0B0681-05RE1	A	8082 PCBs - Low Level (30g/2mL)	03/02/20 07:03	~~30~~ 30.27	2				100	PDI-059SC-A-11-12-191016	Re-extract added 2/28/2020 by KAK E soil, odor #(P)			

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
A20B283	08/24/20	8082 PCB Matrix Spike

CAH

Surrogate(s)

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

CAH

= staining on turbovap.
(P) = precipitate formed during solvent exchange
E = Emulsion during H_2SO_4 cleanup.

Method 3546 digestion time and temperture achieved.
Initial: CAH

Witness: JAG 3/2/2020

CAH — Prepared By: JAG — Date: 03/02/20 — 3/2/2020

SCG — Reviewed By: — Date: 03/02/2020

ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence: **0B27017** Instrument: **DUALECD2R**

Date: **02/27/20 07:20** Calibration: **A0A1501**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0B27017-CCV1	Sediment	QC	QC				A20A394
2	0B27017-CCB1	Sediment	QC	QC				A20A395
3	A0B0679-05	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	02/28/20	0020809		
4	0B27017-IBL1	Sediment	QC	QC				
5	A0B0679-06	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	02/28/20	0020809		
6	0B27017-IBL2	Sediment	QC	QC				
7	A0B0679-07	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	02/28/20	0020809		
8	0B27017-IBL3	Sediment	QC	QC				
9	A0B0679-08	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	02/28/20	0020809		
10	0B27017-IBL4	Sediment	QC	QC				
11	A0B0679-09	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	02/28/20	0020809		
12	0B27017-IBL5	Sediment	QC	QC				
13	0B27017-IBL6	Sediment	QC	QC				
14	A0B0679-10	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	02/28/20	0020809		
15	0B27017-IBL7	Sediment	QC	QC				
16	0B27017-CCV2	Sediment	QC	QC				A20A394
17	0B27017-CCB2	Sediment	QC	QC				A20A395
18	A0B0680-02	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	02/28/20	0020809		
19	0B27017-IBL8	Sediment	QC	QC				
20	A0B0680-03	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	02/28/20	0020809		
21	0B27017-IBL9	Sediment	QC	QC				
22	0020809-MS1	Sediment	QC	QC		0020809		
23	0B27017-IBLA	Sediment	QC	QC				
24	0020809-MSD1	Sediment	QC	QC		0020809		
25	0B27017-IBLB	Sediment	QC	QC				
26	A0B0680-04	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	02/28/20	0020809		
27	0B27017-IBLC	Sediment	QC	QC				
28	A0B0680-05	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	02/28/20	0020809		
29	0B27017-IBLD	Sediment	QC	QC				
30	0B27017-CCV3	Sediment	QC	QC				A20A394
31	0B27017-CCB3	Sediment	QC	QC				A20A395

Comments: CCV3 was high

Data Entered By: 3/2/20

Data Reviewed By: MA 3/2/20

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.

0B27017-CCV1

Aroclor 1016

Peak	Initial Res
1016 (1)	472.76
1016 (2)	424.63
1016 (3)	408.06
1016 (4)	485.74
1016 (5)	480.63
1016 (6)	465.63
Average:	**456.24**

Aroclor 1260

Peak	Initial Res
1260 (1)	524.67
1260 (2)	523.85
1260 (3)	512.94
1260 (4)	524.90
1260 (5)	542.84
1260 (6)	525.29
Average:	**525.75**

0B27017-CCV2

Aroclor 1016

Peak	Initial Res
1016 (1)	485.21
1016 (2)	441.23
1016 (3)	418.54
1016 (4)	507.60
1016 (5)	507.18
1016 (6)	481.41
Average:	**473.53**

Aroclor 1260

Peak	Initial Res
1260 (1)	521.64
1260 (2)	552.44
1260 (3)	529.29
1260 (4)	553.64
1260 (5)	531.30
1260 (6)	536.83
Average:	**537.52**

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.

0020809-MS1

Aroclor 1016

Peak	Initial Res
1016 (1)	649.07
1016 (2)	679.25
1016 (3)	567.75
1016 (4)	645.45
1016 (5)	640.00
1016 (6)	590.32
Average:	**628.64**

Aroclor 1260

Peak	Initial Res
1260 (1)	704.17
1260 (2)	926.50
1260 (3)	692.54
1260 (4)	760.69
1260 (5)	731.48
1260 (6)	663.11
Average:	**746.42**

0020809-MSD1

Aroclor 1016

Peak	Initial Res
1016 (1)	687.79
1016 (2)	679.94
1016 (3)	580.33
1016 (4)	643.30
1016 (5)	696.35
1016 (6)	597.32
Average:	**647.51**

Aroclor 1260

Peak	Initial Res
1260 (1)	740.82
1260 (2)	913.63
1260 (3)	744.68
1260 (4)	797.48
1260 (5)	724.93
1260 (6)	715.84
Average:	**772.90**

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.

0B27017-CCV3

Aroclor 1016

Peak	Initial Res
1016 (1)	546.28
1016 (2)	479.28
1016 (3)	455.41
1016 (4)	562.19
1016 (5)	537.20
1016 (6)	534.72
Average:	**519.18**

Aroclor 1260

Peak	Initial Res
1260 (1)	595.79
1260 (2)	614.90
1260 (3)	604.46
1260 (4)	619.33
1260 (5)	636.79
1260 (6)	605.92
Average:	**612.87**

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B27017\
Data File : ECD2R002.D
Signal(s) : ECD2B.CH
Acq On : 27 Feb 2020 7:49
Operator : MJB / KAK
Sample : 0B27017-CCV1
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 28 09:37:59 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

2/28/20

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	5.625	53004961	234.924	ng/ml
62)	S DCBP (S)	10.536	31631746	284.398	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.295	2922611	472.763	ng/ml
3)	Aroclor 1016 (2)	6.786	4858349	424.631	ng/ml
4)	Aroclor 1016 (3)	6.913	2185786	408.062	ng/ml
5)	Aroclor 1016 (4)	6.998	2399937	485.743	ng/ml ✓
6)	Aroclor 1016 (5)	7.044	2665337	480.629	ng/ml
7)	Aroclor 1016 (6)	7.169	2659941	465.629	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.785	248901	143.251	ng/ml
10)	Aroclor 1221 (2)	5.873	398741	232.234	ng/ml
11)	Aroclor 1221 (3)	5.961	1657560	290.443	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.961	1657560	362.705	ng/ml
14)	Aroclor 1232 (2)	6.295	2922611	1122.901	ng/ml
15)	Aroclor 1232 (3)	6.786	4858349	993.129	ng/ml
16)	Aroclor 1232 (4)	6.998	2399937	1418.539	ng/ml
17)	Aroclor 1232 (5)	7.044	2665337	1280.892	ng/ml
18)	Aroclor 1232 (6)	7.169	2659941	1225.963	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.295	2922611	642.850	ng/ml
21)	Aroclor 1242 (2)	6.786	4858349	550.680	ng/ml
22)	Aroclor 1242 (3)	6.913	2185786	570.676	ng/ml
23)	Aroclor 1242 (4)	6.998	2399937	726.463	ng/ml
24)	Aroclor 1242 (5)	7.044	2665337	667.347	ng/ml
25)	Aroclor 1242 (6)	7.169	2659941	637.752	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.758	4273224	827.819	ng/ml
28)	Aroclor 1248 (2)	6.998	2399937	377.387	ng/ml
29)	Aroclor 1248 (3)	7.044	2665337	449.029	ng/ml
30)	Aroclor 1248 (4)	7.169	2659941	364.600	ng/ml
31)	Aroclor 1248 (5)	7.534	612968	68.859	ng/ml
32)	Aroclor 1248 (6)	7.693	2240075	275.152	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.510	1888967	222.917	ng/ml
35)	Aroclor 1254 (2)	7.693	2240075	161.043	ng/ml
36)	Aroclor 1254 (3)	8.003	1262352	83.190	ng/ml
37)	Aroclor 1254 (4)	8.242	907148	83.099	ng/ml
38)	Aroclor 1254 (5)	8.576	6802212	604.713	ng/ml
39)	Aroclor 1254 (6)	8.821	5075538	1438.978	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	8.137	5523630	524.668	ng/ml
42)	Aroclor 1260 (2)	8.343	6685561	523.846	ng/ml
43)	Aroclor 1260 (3)	8.576	6802212	512.942	ng/ml
44)	Aroclor 1260 (4)	9.058	11102840	524.896	ng/ml ✓
45)	Aroclor 1260 (5)	9.316	6641488	542.839	ng/ml
46)	Aroclor 1260 (6)	9.879	2563393	525.290	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B27017\
Data File : ECD2R002.D
Signal(s) : ECD2B.CH
Acq On : 27 Feb 2020 7:49
Operator : MJB / KAK
Sample : 0B27017-CCV1
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 28 09:37:59 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

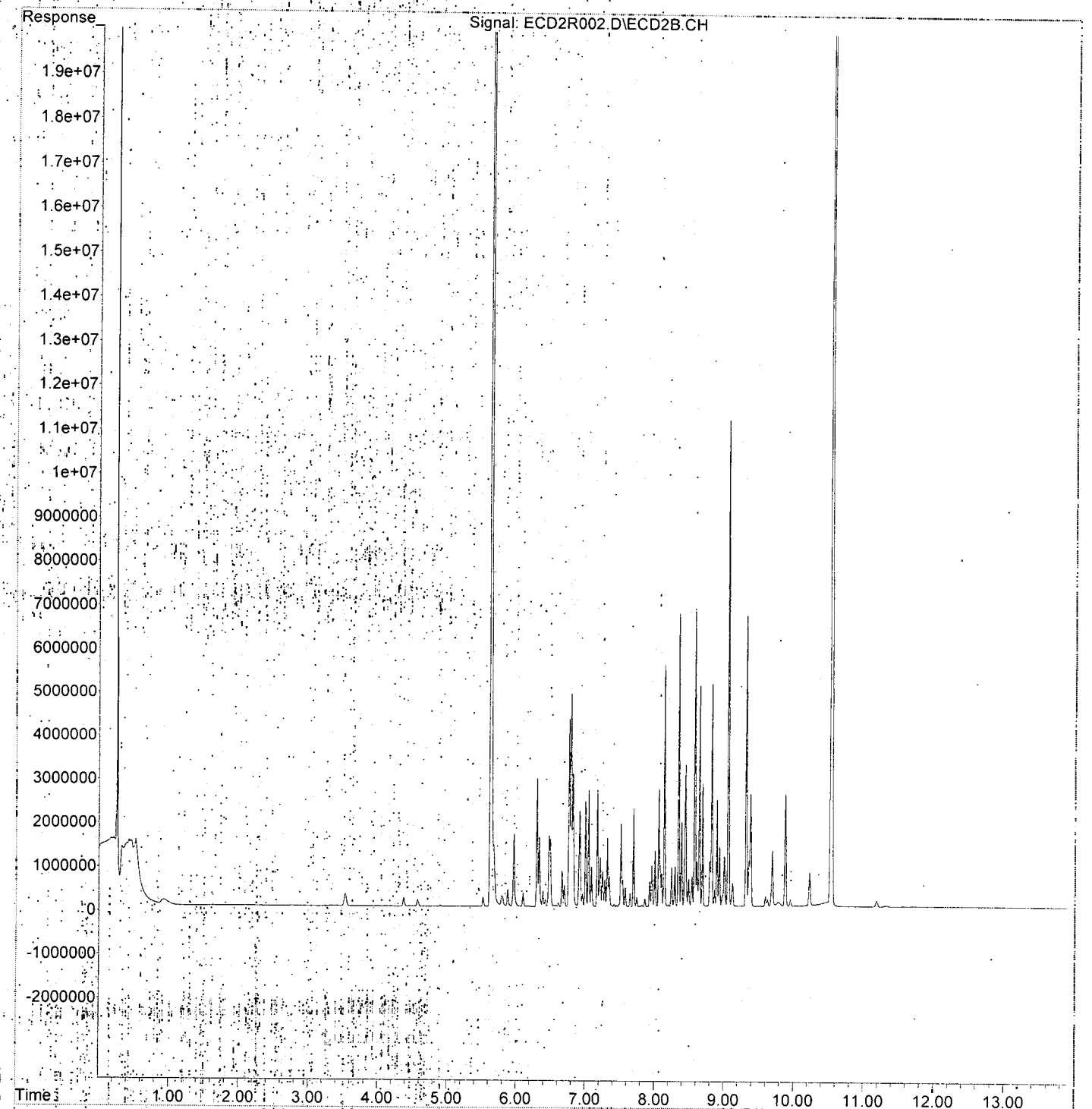
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	8.343	6685561	632.402	ng/ml
49)	Aroclor 1262 (2)	8.644	5040487	329.929	ng/ml
50)	Aroclor 1262 (3)	8.821	5075538	396.396	ng/ml
51)	Aroclor 1262 (4)	9.058	11102840	403.379	ng/ml
52)	Aroclor 1262 (5)	9.316	6641488	404.487	ng/ml
53)	Aroclor 1262 (6)	9.879	2563393	356.001	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	8.862	389630	62.519	ng/ml
56)	Aroclor 1268 (2)	9.316	6641488	239.190	ng/ml
57)	Aroclor 1268 (3)	9.379	2570576	114.165	ng/ml
58)	Aroclor 1268 (4)	9.594	239455	12.437	ng/ml
59)	Aroclor 1268 (5)	9.879	2563393	327.666	ng/ml
60)	Aroclor 1268 (6)	10.226	780802	15.426	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\0B27017\
Data File : ECD2R002.D
Signal(s) : ECD2B.CH
Acq On : 27 Feb 2020 7:49
Operator : MJB / KAK
Sample : 0B27017-CCV1
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 28 09:37:59 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\0B27017\
Data File : ECD2R003.D
Signal(s) : ECD2B.CH
Acq On : 27 Feb 2020 8:07
Operator : MJB / KAK
Sample : 0B27017-CCB1
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 28 09:38:20 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)	5.624	19558873	86.687	ng/ml
62)	S DCBP (S)	10.536	11440170	102.857	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.300	1124	0.182	ng/ml
3)	Aroclor 1016 (2)	6.798	1457	0.127	ng/ml
4)	Aroclor 1016 (3)	6.914	1125	0.210	ng/ml
5)	Aroclor 1016 (4)	7.006	1525	0.309	ng/ml
6)	Aroclor 1016 (5)	7.042	1420	0.256	ng/ml
7)	Aroclor 1016 (6)	7.173	1769	0.310	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.840	9686	5.575	ng/ml
10)	Aroclor 1221 (2)	5.875	8095	4.715	ng/ml
11)	Aroclor 1221 (3)	5.945	31098	5.449	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.945	31098	6.805	ng/ml
14)	Aroclor 1232 (2)	6.300	1124	0.432	ng/ml
15)	Aroclor 1232 (3)	6.798	1457	0.298	ng/ml
16)	Aroclor 1232 (4)	6.999	1603	0.947	ng/ml
17)	Aroclor 1232 (5)	7.042	1420	0.682	ng/ml
18)	Aroclor 1232 (6)	7.173	1769	0.815	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.300	1124	0.247	ng/ml
21)	Aroclor 1242 (2)	6.798	1457	0.165	ng/ml
22)	Aroclor 1242 (3)	6.914	1125	0.294	ng/ml
23)	Aroclor 1242 (4)	7.006	1525	0.462	ng/ml
24)	Aroclor 1242 (5)	7.042	1420	0.355	ng/ml
25)	Aroclor 1242 (6)	7.173	1769	0.424	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.765	936	0.181	ng/ml
28)	Aroclor 1248 (2)	7.006	1525	0.240	ng/ml
29)	Aroclor 1248 (3)	7.042	1420	0.239	ng/ml
30)	Aroclor 1248 (4)	7.173	1769	0.242	ng/ml
31)	Aroclor 1248 (5)	7.538	884	0.099	ng/ml
32)	Aroclor 1248 (6)	7.711	2071	0.254	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.514	1071	0.126	ng/ml
35)	Aroclor 1254 (2)	7.711	2071	0.149	ng/ml
36)	Aroclor 1254 (3)	8.004	7761	0.511	ng/ml
37)	Aroclor 1254 (4)	8.250	4458	0.408	ng/ml
38)	Aroclor 1254 (5)	8.578	7010	0.623	ng/ml
39)	Aroclor 1254 (6)	8.813	5780	1.639	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	8.134	5891	0.560	ng/ml
42)	Aroclor 1260 (2)	8.343	7836	0.614	ng/ml
43)	Aroclor 1260 (3)	8.578	7010	0.529	ng/ml
44)	Aroclor 1260 (4)	9.059	8507	0.402	ng/ml
45)	Aroclor 1260 (5)	9.319	9292	0.759	ng/ml
46)	Aroclor 1260 (6)	9.888	11113	2.277	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B27017\
Data File : ECD2R003.D
Signal(s) : ECD2B.CH
Acq On : 27 Feb 2020 8:07
Operator : MJB / KAK
Sample : 0B27017-CCB1
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 28 09:38:20 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

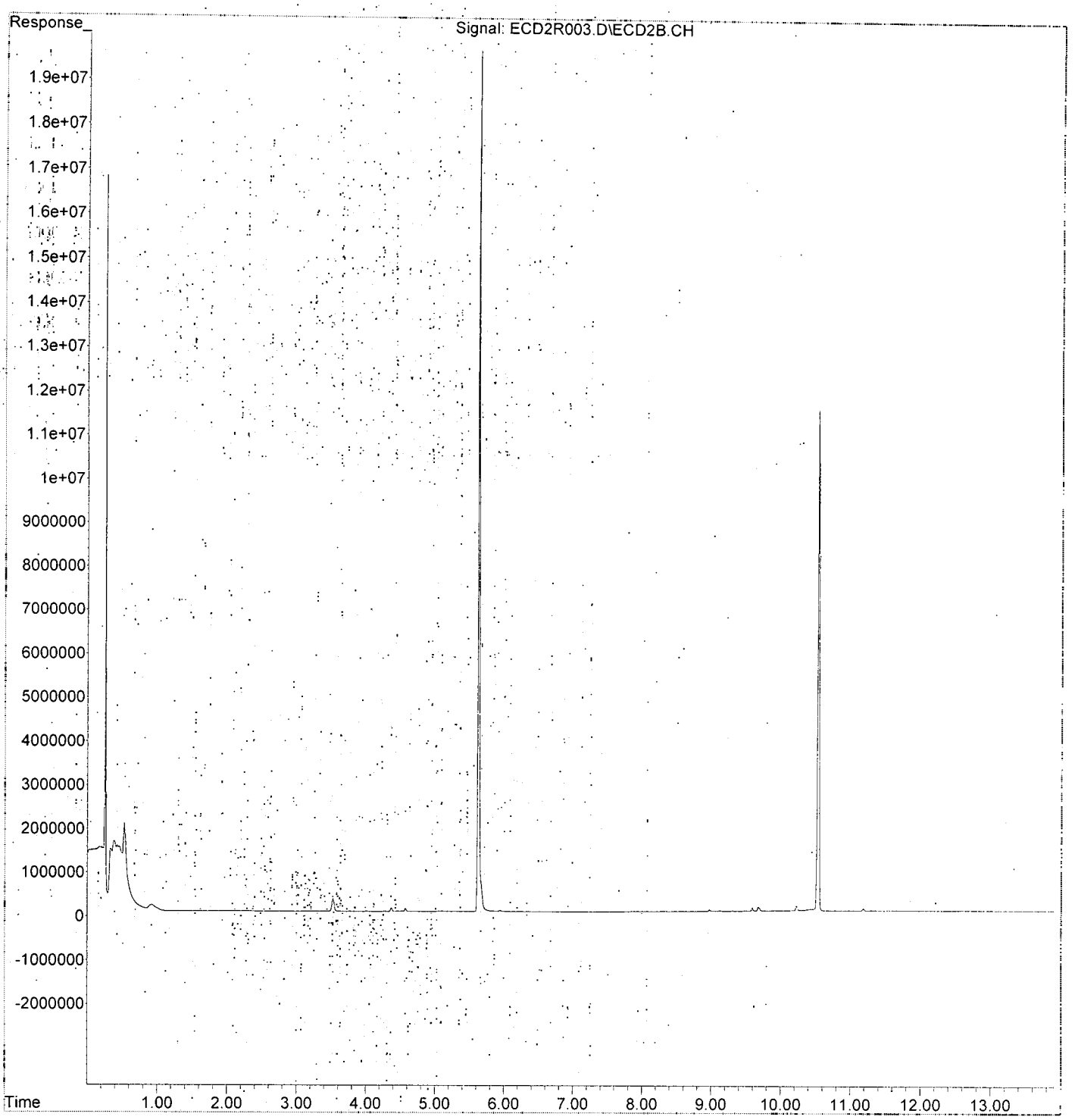
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	8.343	7836	0.741 ng/ml
49)	Aroclor 1262 (2)	8.641	5700	0.373 ng/ml
50)	Aroclor 1262 (3)	8.826	5769	0.451 ng/ml
51)	Aroclor 1262 (4)	9.059	8507	0.309 ng/ml
52)	Aroclor 1262 (5)	9.319	9292	0.566 ng/ml
53)	Aroclor 1262 (6)	9.888	11113	1.543 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.864	5174	0.830 ng/ml
56)	Aroclor 1268 (2)	9.319	9292	0.335 ng/ml
57)	Aroclor 1268 (3)	9.398	5615	0.249 ng/ml
58)	Aroclor 1268 (4)	9.595	81650	4.241 ng/ml
59)	Aroclor 1268 (5)	9.888	11113	1.420 ng/ml
60)	Aroclor 1268 (6)	10.229	122351	2.417 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\0B27017\
Data File : ECD2R003.D
Signal(s) : ECD2B.CH
Acq On : 27 Feb 2020 8:07
Operator : MJB / KAK
Sample : 0B27017-CCB1
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 28 09:38:20 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\0B27017\
Data File : ECD2R017.D
Signal(s) : ECD2B.CH
Acq On : 27 Feb 2020 12:14
Operator : MJB / KAK
Sample : 0B27017-CCV2
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 28 09:40:47 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)	5.625	56316439	249.601	ng/ml
62)	S DCBP (S)	10.535	31583064	283.960	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.296	2999530	485.205	ng/ml
3)	Aroclor 1016 (2)	6.787	5048266	441.230	ng/ml
4)	Aroclor 1016 (3)	6.914	2241936	418.544	ng/ml
5)	Aroclor 1016 (4)	6.999	2507913	507.597	ng/ml
6)	Aroclor 1016 (5)	7.043	2812598	507.184	ng/ml
7)	Aroclor 1016 (6)	7.169	2750079	481.408	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.800	232618	133.880	ng/ml
10)	Aroclor 1221 (2)	5.874	402962	234.693	ng/ml
11)	Aroclor 1221 (3)	5.961	1781393	312.141	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.961	1781393	389.802	ng/ml
14)	Aroclor 1232 (2)	6.296	2999530	1152.454	ng/ml
15)	Aroclor 1232 (3)	6.787	5048266	1031.952	ng/ml
16)	Aroclor 1232 (4)	6.999	2507913	1482.360	ng/ml
17)	Aroclor 1232 (5)	7.043	2812598	1351.661	ng/ml
18)	Aroclor 1232 (6)	7.169	2750079	1267.507	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.296	2999530	659.769	ng/ml
21)	Aroclor 1242 (2)	6.787	5048266	572.207	ng/ml
22)	Aroclor 1242 (3)	6.914	2241936	585.336	ng/ml
23)	Aroclor 1242 (4)	6.999	2507913	759.147	ng/ml
24)	Aroclor 1242 (5)	7.043	2812598	704.218	ng/ml
25)	Aroclor 1242 (6)	7.169	2750079	659.363	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.759	4443268	860.760	ng/ml
28)	Aroclor 1248 (2)	6.999	2507913	394.366	ng/ml
29)	Aroclor 1248 (3)	7.043	2812598	473.838	ng/ml
30)	Aroclor 1248 (4)	7.169	2750079	376.955	ng/ml
31)	Aroclor 1248 (5)	7.535	622505	69.931	ng/ml
32)	Aroclor 1248 (6)	7.692	2225473	273.359	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.511	1929842	227.741	ng/ml
35)	Aroclor 1254 (2)	7.692	2225473	159.993	ng/ml
36)	Aroclor 1254 (3)	8.002	1287868	84.871	ng/ml
37)	Aroclor 1254 (4)	8.241	857662	78.566	ng/ml
38)	Aroclor 1254 (5)	8.575	7018984	623.984	ng/ml
39)	Aroclor 1254 (6)	8.821	5137762	1456.619	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	8.137	5491782	521.643	ng/ml
42)	Aroclor 1260 (2)	8.343	7050461	552.437	ng/ml
43)	Aroclor 1260 (3)	8.575	7018984	529.289	ng/ml
44)	Aroclor 1260 (4)	9.058	11710920	553.643	ng/ml
45)	Aroclor 1260 (5)	9.316	6500312	531.300	ng/ml
46)	Aroclor 1260 (6)	9.878	2619701	536.828	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B27017\
Data File : ECD2R017.D
Signal(s) : ECD2B.CH
Acq On : 27 Feb 2020 12:14
Operator : MJB / KAK
Sample : 0B27017-CCV2
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 28 09:40:47 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

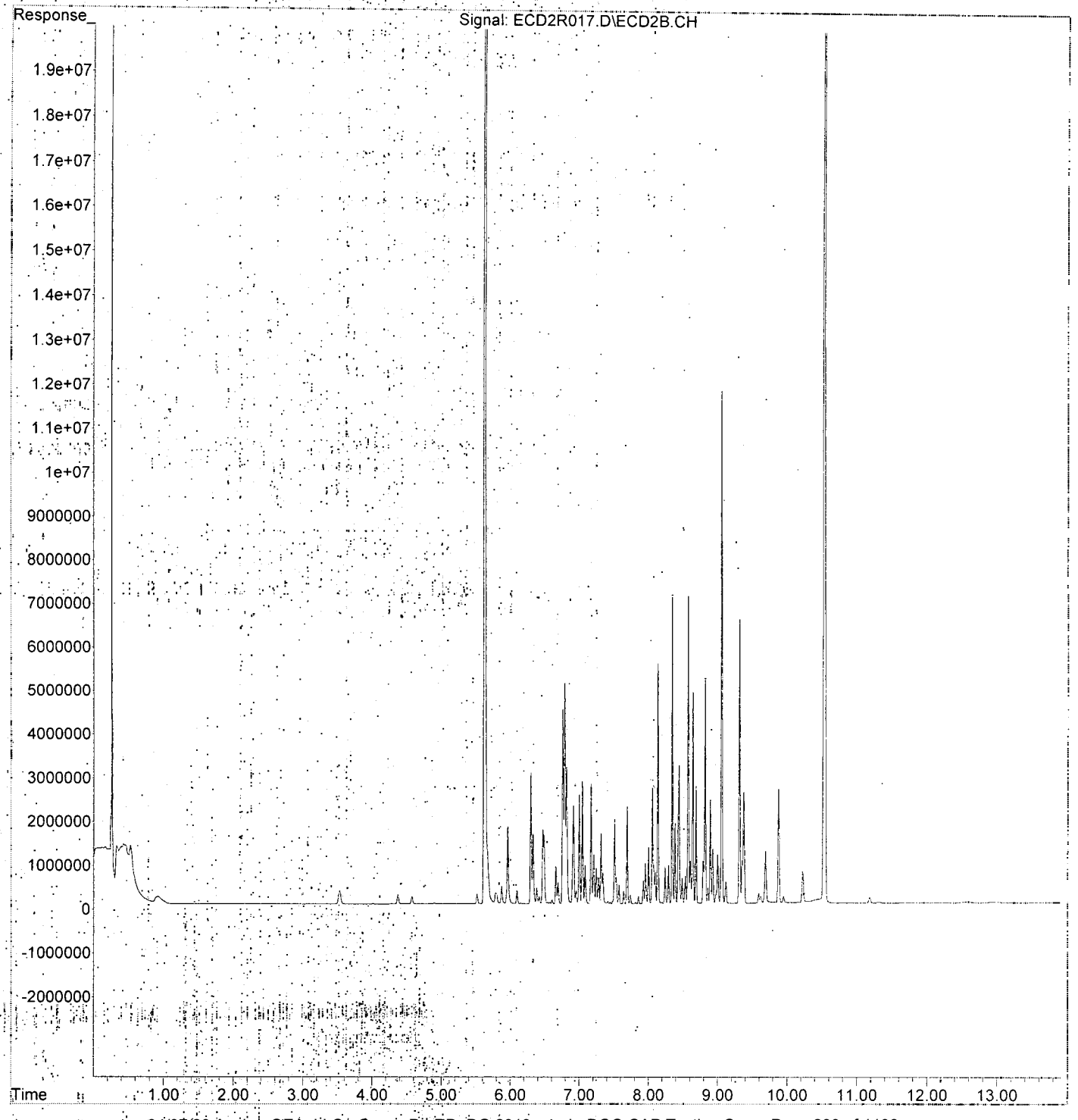
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	8.343	7050461	666.919 ng/ml
49)	Aroclor 1262 (2)	8.644	4844098	317.074 ng/ml
50)	Aroclor 1262 (3)	8.821	5137762	401.256 ng/ml
51)	Aroclor 1262 (4)	9.058	11710920	425.471 ng/ml
52)	Aroclor 1262 (5)	9.316	6500312	395.888 ng/ml
53)	Aroclor 1262 (6)	9.878	2619701	363.820 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.861	359683	57.714 ng/ml
56)	Aroclor 1268 (2)	9.316	6500312	234.106 ng/ml
57)	Aroclor 1268 (3)	9.378	2552279	113.353 ng/ml
58)	Aroclor 1268 (4)	9.593	225702	11.723 ng/ml
59)	Aroclor 1268 (5)	9.878	2619701	334.864 ng/ml
60)	Aroclor 1268 (6)	10.225	736762	14.556 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\0B27017\
Data File : ECD2R017.D
Signal(s) : ECD2B.CH
Acq On : 27 Feb 2020 12:14
Operator : MJB / KAK
Sample : 0B27017-CCV2
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 28 09:40:47 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\0B27017\
Data File : ECD2R018.D
Signal(s) : ECD2B.CH
Acq On : 27 Feb 2020 12:31
Operator : MJB / KAK
Sample : 0B27017-CCB2
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 28 09:41:08 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)	5.624	20897758	92.621	ng/ml
62)	S DCBP (S)	10.535	11547859	103.826	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.296	1896	0.307	ng/ml
3)	Aroclor 1016 (2)	6.783	1883	0.165	ng/ml
4)	Aroclor 1016 (3)	6.914	1566	0.292	ng/ml
5)	Aroclor 1016 (4)	7.002	1741	0.352	ng/ml
6)	Aroclor 1016 (5)	7.046	1584	0.286	ng/ml
7)	Aroclor 1016 (6)	7.169	1150	0.201	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.856f	9401	5.410	ng/ml
10)	Aroclor 1221 (2)	5.871	8820	5.137	ng/ml
11)	Aroclor 1221 (3)	5.945	33495	5.869	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.945	33495	7.329	ng/ml
14)	Aroclor 1232 (2)	6.296	1896	0.729	ng/ml
15)	Aroclor 1232 (3)	6.783	1883	0.385	ng/ml
16)	Aroclor 1232 (4)	7.002	1741	1.029	ng/ml
17)	Aroclor 1232 (5)	7.046	1584	0.761	ng/ml
18)	Aroclor 1232 (6)	7.169	1150	0.530	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.296	1896	0.417	ng/ml
21)	Aroclor 1242 (2)	6.783	1883	0.213	ng/ml
22)	Aroclor 1242 (3)	6.914	1566	0.409	ng/ml
23)	Aroclor 1242 (4)	7.002	1741	0.527	ng/ml
24)	Aroclor 1242 (5)	7.046	1584	0.397	ng/ml
25)	Aroclor 1242 (6)	7.169	1150	0.276	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.768	2071	0.401	ng/ml
28)	Aroclor 1248 (2)	7.002	1741	0.274	ng/ml
29)	Aroclor 1248 (3)	7.046	1584	0.267	ng/ml
30)	Aroclor 1248 (4)	7.169	1150	0.158	ng/ml
31)	Aroclor 1248 (5)	7.535	1333	0.150	ng/ml
32)	Aroclor 1248 (6)	7.688	3050	0.375	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.511	1513	0.179	ng/ml
35)	Aroclor 1254 (2)	7.688	3050	0.219	ng/ml
36)	Aroclor 1254 (3)	8.011	5804	0.382	ng/ml
37)	Aroclor 1254 (4)	8.242	1759	0.161	ng/ml
38)	Aroclor 1254 (5)	8.576	3534	0.314	ng/ml
39)	Aroclor 1254 (6)	8.821	5074	1.439	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	8.136	3038	0.289	ng/ml
42)	Aroclor 1260 (2)	8.345	6151	0.482	ng/ml
43)	Aroclor 1260 (3)	8.576	3534	0.266	ng/ml
44)	Aroclor 1260 (4)	9.058	7988	0.378	ng/ml
45)	Aroclor 1260 (5)	9.318	9817	0.802	ng/ml
46)	Aroclor 1260 (6)	9.880	27749	5.686	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B27017\
Data File : ECD2R018.D
Signal(s) : ECD2B.CH
Acq On : 27 Feb 2020 12:31
Operator : MJB / KAK
Sample : 0B27017-CCB2
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 28 09:41:08 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

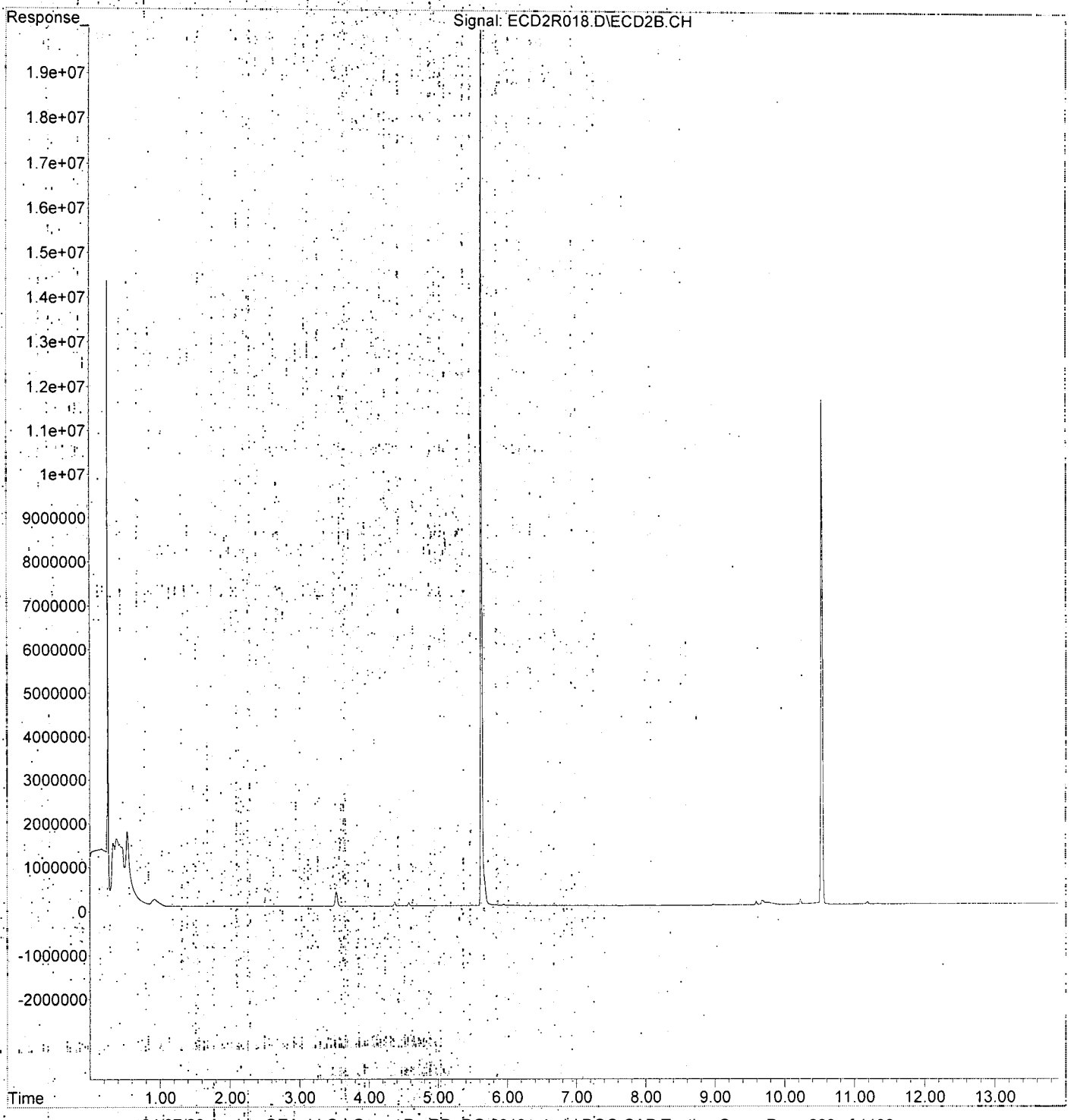
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	8.345	6151	0.582 ng/ml
49)	Aroclor 1262 (2)	8.641	2331	0.153 ng/ml
50)	Aroclor 1262 (3)	8.833	4038	0.315 ng/ml
51)	Aroclor 1262 (4)	9.058	7988	0.290 ng/ml
52)	Aroclor 1262 (5)	9.318	9817	0.598 ng/ml
53)	Aroclor 1262 (6)	9.880	27749	3.854 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.867	1994	0.320 ng/ml
56)	Aroclor 1268 (2)	9.318	9817	0.354 ng/ml
57)	Aroclor 1268 (3)	9.382	8733	0.388 ng/ml
58)	Aroclor 1268 (4)	9.594	89400	4.643 ng/ml
59)	Aroclor 1268 (5)	9.880	27749	3.547 ng/ml
60)	Aroclor 1268 (6)	10.227	135094	2.669 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\0B27017\
Data File : ECD2R018.D
Signal(s) : ECD2B.CH
Acq On : 27 Feb 2020 12:31
Operator : MJB / KAK
Sample : 0B27017-CCB2
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 28 09:41:08 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\0B27017\
Data File : ECD2R019.D
Signal(s) : ECD2B.CH
Acq On : 27 Feb 2020 12:49
Operator : MJB / KAK
Sample : A0B0680-02
Misc :
ALS Vial : 60 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 28 09:41:29 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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Q-A

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	5.623	27002985	119.680	ng/ml
62)	S DCBP (S)	10.534	14543340	130.758	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.294	80004	12.941	ng/ml
3)	Aroclor 1016 (2)	6.783	306384	26.779	ng/ml
4)	Aroclor 1016 (3)	6.910	246853	46.085	ng/ml
5)	Aroclor 1016 (4)	6.997	461463	93.399	ng/ml
6)	Aroclor 1016 (5)	7.042	414676	74.777	ng/ml
7)	Aroclor 1016 (6)	7.166	331471	58.025	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.831	134234	77.256	ng/ml
10)	Aroclor 1221 (2)	5.884	33565	19.549	ng/ml
11)	Aroclor 1221 (3)	5.968	125155	21.930	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.968	125155	27.386	ng/ml
14)	Aroclor 1232 (2)	6.294	80004	30.738	ng/ml
15)	Aroclor 1232 (3)	6.783	306384	62.630	ng/ml
16)	Aroclor 1232 (4)	6.997	461463	272.758	ng/ml
17)	Aroclor 1232 (5)	7.042	414676	199.282	ng/ml
18)	Aroclor 1232 (6)	7.166	331471	152.775	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.294	80004	17.597	ng/ml
21)	Aroclor 1242 (2)	6.783	306384	34.728	ng/ml
22)	Aroclor 1242 (3)	6.910	246853	64.450	ng/ml
23)	Aroclor 1242 (4)	6.997	461463	139.685	ng/ml
24)	Aroclor 1242 (5)	7.042	414676	103.827	ng/ml
25)	Aroclor 1242 (6)	7.166	331471	79.474	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.755	232832	45.105	ng/ml
28)	Aroclor 1248 (2)	6.997	461463	72.564	ng/ml
29)	Aroclor 1248 (3)	7.042	414676	69.860	ng/ml
30)	Aroclor 1248 (4)	7.166	331471	45.435	ng/ml
31)	Aroclor 1248 (5)	7.515	924776	103.887	ng/ml
32)	Aroclor 1248 (6)	7.683	13756653	1689.754	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.515	924776	109.133	ng/ml
35)	Aroclor 1254 (2)	7.683	13756653	988.988	ng/ml
36)	Aroclor 1254 (3)	7.988	12693672	836.522	ng/ml
37)	Aroclor 1254 (4)	8.239	964186	88.324	ng/ml
38)	Aroclor 1254 (5)	8.573	1990100	176.919	ng/ml
39)	Aroclor 1254 (6)	8.821	913835	259.083	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	8.136	1438939	136.679	ng/ml
42)	Aroclor 1260 (2)	8.341	2883676	225.950	ng/ml
43)	Aroclor 1260 (3)	8.573	1990100	150.070	ng/ml
44)	Aroclor 1260 (4)	9.057	2100255	99.291	ng/ml
45)	Aroclor 1260 (5)	9.314	1313588	107.365	ng/ml
46)	Aroclor 1260 (6)	9.878	415302	85.104	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B27017\
Data File : ECD2R019.D
Signal(s) : ECD2B.CH
Acq On : 27 Feb 2020 12:49
Operator : MJB / KAK
Sample : A0B0680-02
Misc :
ALS Vial : 60 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 28 09:41:29 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

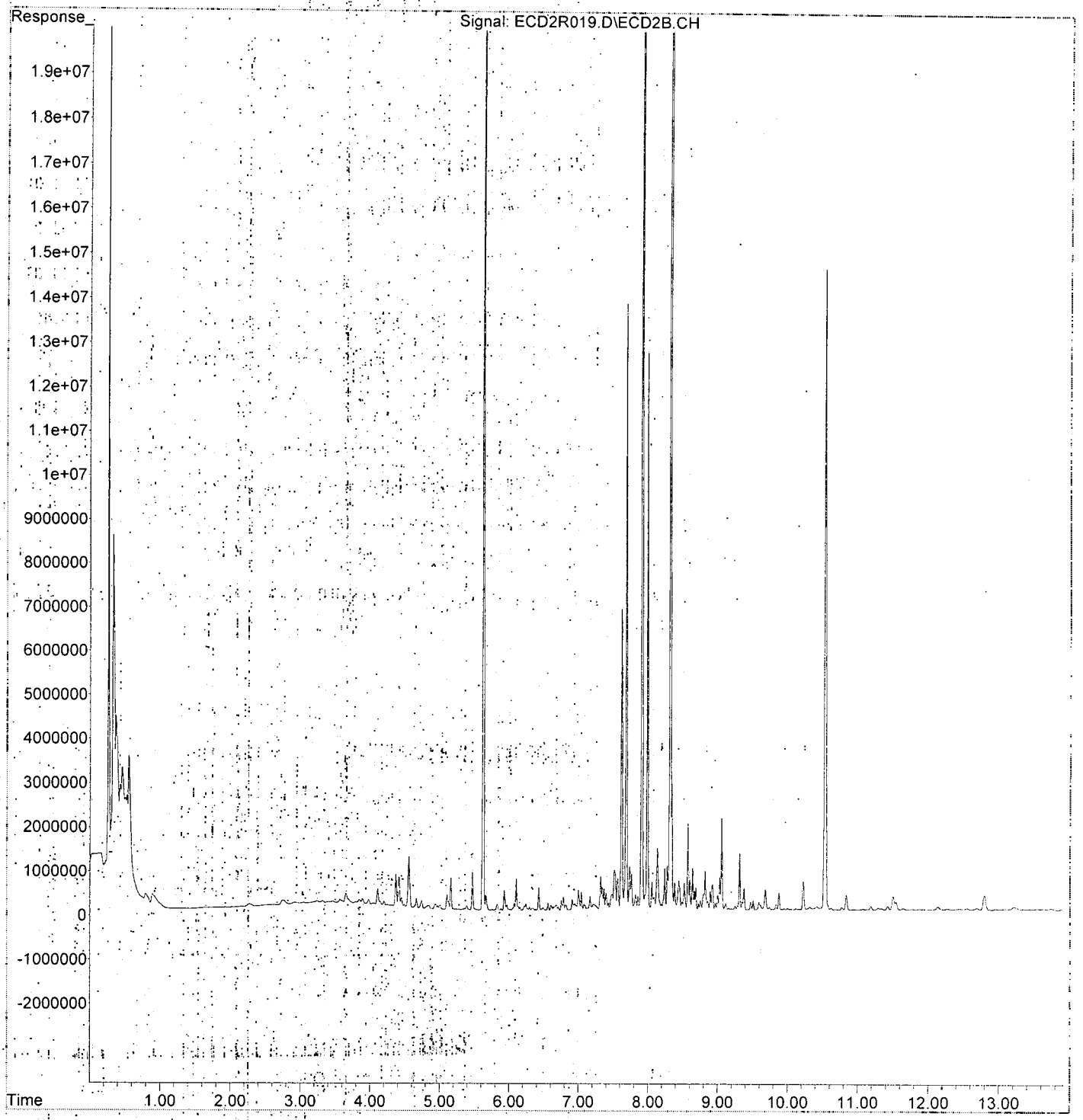
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	8.341	2883676	272.773 ng/ml
49)	Aroclor 1262 (2)	8.642	969433	63.455 ng/ml
50)	Aroclor 1262 (3)	8.821	913835	71.370 ng/ml
51)	Aroclor 1262 (4)	9.057	2100255	76.305 ng/ml
52)	Aroclor 1262 (5)	9.314	1313588	80.001 ng/ml
53)	Aroclor 1262 (6)	9.878	415302	57.677 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.859	233175	37.415 ng/ml
56)	Aroclor 1268 (2)	9.314	1313588	47.308 ng/ml
57)	Aroclor 1268 (3)	9.378	520560	23.119 ng/ml
58)	Aroclor 1268 (4)	9.592	199497	10.362 ng/ml
59)	Aroclor 1268 (5)	9.878	415302	53.086 ng/ml
60)	Aroclor 1268 (6)	10.225	684533	13.524 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\0B27017\
Data File : ECD2R019.D
Signal(s) : ECD2B.CH
Acq On : 27 Feb 2020 12:49
Operator : MJB / KAK
Sample : A0B0680-02
Misc :
ALS Vial : 60 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 28 09:41:29 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\0B27017\
Data File : ECD2R021.D
Signal(s) : ECD2B.CH
Acq On : 27 Feb 2020 13:24
Operator : MJB / KAK
Sample : A0B0680-03
Misc :
ALS Vial : 61 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 28 09:41:50 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

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Q-14

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	5.623	29718442	131.716	ng/ml
62)	S DCBP (S)	10.536	16006383	143.912	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.293	5375	0.870	ng/ml
3)	Aroclor 1016 (2)	6.784	10161	0.888	ng/ml
4)	Aroclor 1016 (3)	6.914	14814	2.766	ng/ml
5)	Aroclor 1016 (4)	7.011	133368	26.994	ng/ml
6)	Aroclor 1016 (5)	7.043	61735	11.132	ng/ml
7)	Aroclor 1016 (6)	7.167	19783	3.463	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.802	7453	4.289	ng/ml
10)	Aroclor 1221 (2)	5.870	1919	1.118	ng/ml
11)	Aroclor 1221 (3)	5.980	10457	1.832	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.980	10457	2.288	ng/ml
14)	Aroclor 1232 (2)	6.293	5375	2.065	ng/ml
15)	Aroclor 1232 (3)	6.784	10161	2.077	ng/ml
16)	Aroclor 1232 (4)	7.011	133368	78.831	ng/ml
17)	Aroclor 1232 (5)	7.043	61735	29.668	ng/ml
18)	Aroclor 1232 (6)	7.167	19783	9.118	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.293	5375	1.182	ng/ml
21)	Aroclor 1242 (2)	6.784	10161	1.152	ng/ml
22)	Aroclor 1242 (3)	6.914	14814	3.868	ng/ml
23)	Aroclor 1242 (4)	7.011	133368	40.371	ng/ml
24)	Aroclor 1242 (5)	7.043	61735	15.457	ng/ml
25)	Aroclor 1242 (6)	7.167	19783	4.743	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.753	13147	2.547	ng/ml
28)	Aroclor 1248 (2)	7.011	133368	20.972	ng/ml
29)	Aroclor 1248 (3)	7.043	61735	10.401	ng/ml
30)	Aroclor 1248 (4)	7.167	19783	2.712	ng/ml
31)	Aroclor 1248 (5)	7.511	127245	14.294	ng/ml
32)	Aroclor 1248 (6)	7.691	214198	26.310	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.511	127245	15.016	ng/ml
35)	Aroclor 1254 (2)	7.691	214198	15.399	ng/ml
36)	Aroclor 1254 (3)	8.001	165688	10.919	ng/ml
37)	Aroclor 1254 (4)	8.239	143996	13.191	ng/ml
38)	Aroclor 1254 (5)	8.574	477024	42.407	ng/ml
39)	Aroclor 1254 (6)	8.820	258809	73.376	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	8.124	1197341	113.731	ng/ml
42)	Aroclor 1260 (2)	8.342	2004824	157.088	ng/ml
43)	Aroclor 1260 (3)	8.574	477024	35.971	ng/ml
44)	Aroclor 1260 (4)	9.057	705484	33.352	ng/ml
45)	Aroclor 1260 (5)	9.316	582847	47.639	ng/ml
46)	Aroclor 1260 (6)	9.878	188383	38.603	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B27017\
Data File : ECD2R021.D
Signal(s) : ECD2B:CH
Acq On : 27 Feb 2020 13:24
Operator : MJB / KAK
Sample : A0B0680-03
Misc :
ALS Vial : 61 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 28 09:41:50 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

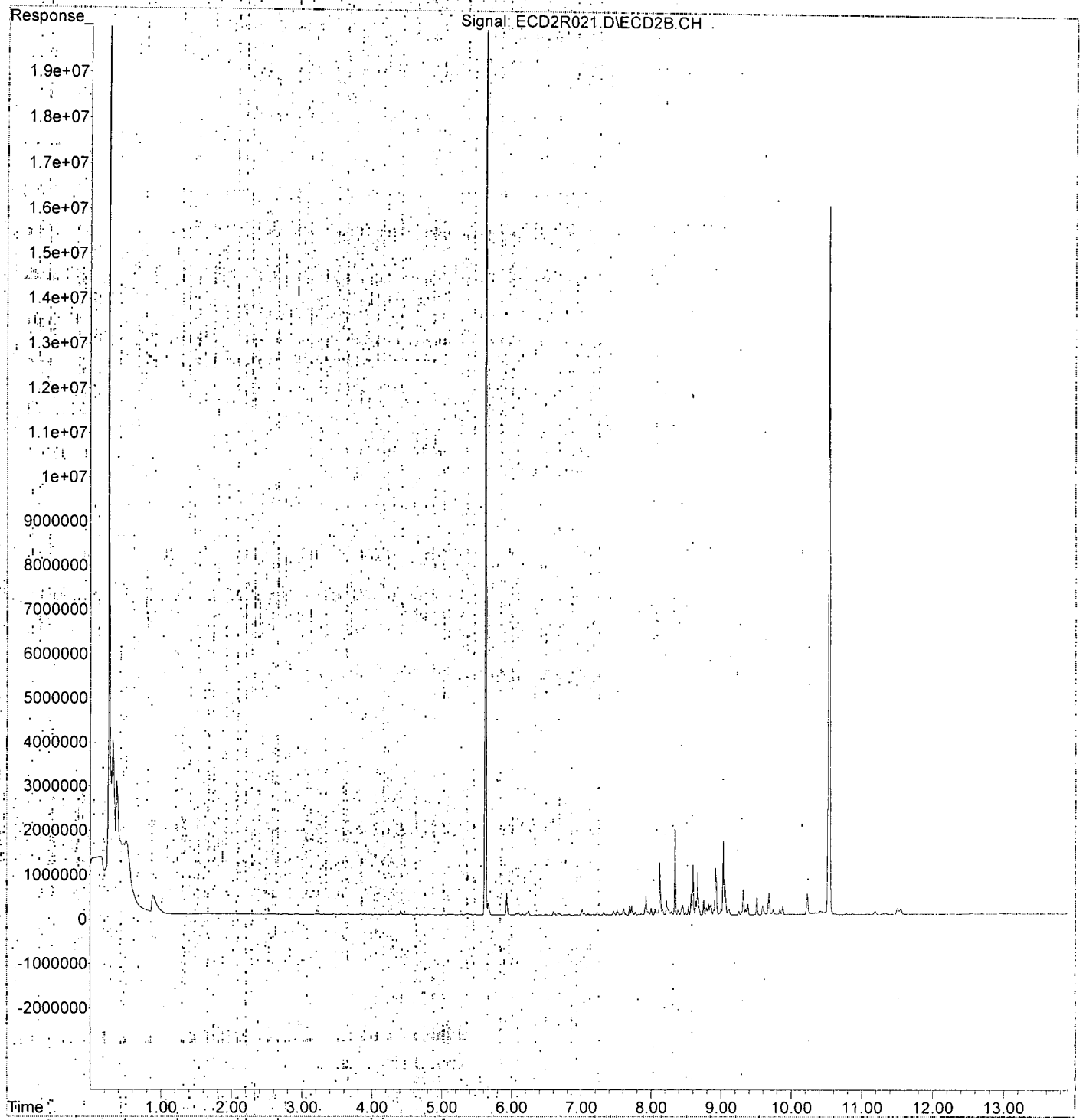
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	8.342	2004824	189.641	ng/ml
49)	Aroclor 1262 (2)	8.643	331820	21.720	ng/ml
50)	Aroclor 1262 (3)	8.820	258809	20.213	ng/ml
51)	Aroclor 1262 (4)	9.057	705484	25.631	ng/ml
52)	Aroclor 1262 (5)	9.316	582847	35.497	ng/ml
53)	Aroclor 1262 (6)	9.878	188383	26.162	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	8.860	255510	40.999	ng/ml
56)	Aroclor 1268 (2)	9.316	582847	20.991	ng/ml
57)	Aroclor 1268 (3)	9.380	253895	11.276	ng/ml
58)	Aroclor 1268 (4)	9.593	216483	11.244	ng/ml
59)	Aroclor 1268 (5)	9.878	188383	24.080	ng/ml
60)	Aroclor 1268 (6)	10.227	478941	9.462	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\0B27017\
Data File : ECD2R021.D
Signal(s) : ECD2B.CH
Acq On : 27 Feb 2020 13:24
Operator : MJB / KAK
Sample : A0B0680-03
Misc :
ALS Vial : 61 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 28 09:41:50 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\0B27017\
Data File : ECD2R023.D
Signal(s) : ECD2B.CH
Acq On : 27 Feb 2020 13:59
Operator : MJB / KAK
Sample : 0020809-MS1
Misc :
ALS Vial : 62 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 28 09:42:12 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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Q-A

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
1)	S TCMX (S)	5.623	30656140	135.872	ng/ml	
62)	S DCBP (S)	10.535	16014505	143.985	ng/ml	
	Target Compounds					
2)	Aroclor 1016 (1)	6.295	4012517	649.066	ng/ml	
3)	Aroclor 1016 (2)	6.784	7771518	679.248	ng/ml	
4)	Aroclor 1016 (3)	6.910	3041147	567.748	ng/ml	✓
5)	Aroclor 1016 (4)	6.997	3189002	645.448	ng/ml	
6)	Aroclor 1016 (5)	7.042	3549135	640.001	ng/ml	
7)	Aroclor 1016 (6)	7.167	3372222	590.315	ng/ml	
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml	
9)	Aroclor 1221 (1)	5.799	240646	138.500	ng/ml	
10)	Aroclor 1221 (2)	5.872	472959	275.460	ng/ml	
11)	Aroclor 1221 (3)	5.959	2595631	454.814	ng/ml	
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml	
13)	Aroclor 1232 (1)	5.959	2595631	567.972	ng/ml	
14)	Aroclor 1232 (2)	6.295	4012517	1541.655	ng/ml	
15)	Aroclor 1232 (3)	6.784	7771518	1588.631	ng/ml	
16)	Aroclor 1232 (4)	6.997	3189002	1884.934	ng/ml	
17)	Aroclor 1232 (5)	7.042	3549135	1705.622	ng/ml	
18)	Aroclor 1232 (6)	7.167	3372222	1554.252	ng/ml	
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml	
20)	Aroclor 1242 (1)	6.295	4012517	882.584	ng/ml	
21)	Aroclor 1242 (2)	6.784	7771518	880.880	ng/ml	
22)	Aroclor 1242 (3)	6.910	3041147	793.998	ng/ml	
23)	Aroclor 1242 (4)	6.997	3189002	965.314	ng/ml	
24)	Aroclor 1242 (5)	7.042	3549135	888.632	ng/ml	
25)	Aroclor 1242 (6)	7.167	3372222	808.529	ng/ml	
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml	
27)	Aroclor 1248 (1)	6.756	6303130	1221.056	ng/ml	
28)	Aroclor 1248 (2)	6.997	3189002	501.467	ng/ml	
29)	Aroclor 1248 (3)	7.042	3549135	597.923	ng/ml	
30)	Aroclor 1248 (4)	7.167	3372222	462.233	ng/ml	
31)	Aroclor 1248 (5)	7.532	766526	86.110	ng/ml	
32)	Aroclor 1248 (6)	7.690	3079766	378.293	ng/ml	
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml	
34)	Aroclor 1254 (1)	7.509	2488879	293.713	ng/ml	
35)	Aroclor 1254 (2)	7.690	3079766	221.409	ng/ml	
36)	Aroclor 1254 (3)	8.000	1647178	108.550	ng/ml	
37)	Aroclor 1254 (4)	8.239	1219902	111.749	ng/ml	
38)	Aroclor 1254 (5)	8.574	9183859	816.440	ng/ml	
39)	Aroclor 1254 (6)	8.820	6459592	1831.374	ng/ml	
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml	
41)	Aroclor 1260 (1)	8.136	7413408	704.170	ng/ml	
42)	Aroclor 1260 (2)	8.343	11824376	926.497	ng/ml	
43)	Aroclor 1260 (3)	8.574	9183859	692.538	ng/ml	
44)	Aroclor 1260 (4)	9.058	16090451	760.689	ng/ml	✓
45)	Aroclor 1260 (5)	9.315	8949475	731.481	ng/ml	
46)	Aroclor 1260 (6)	9.878	3235956	663.111	ng/ml	
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml	

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B27017\
Data File : ECD2R023.D
Signal(s) : ECD2B.CH
Acq On : 27 Feb 2020 13:59
Operator : MJB / KAK
Sample : 0020809-MS1
Misc :
ALS Vial : 62 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 28 09:42:12 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

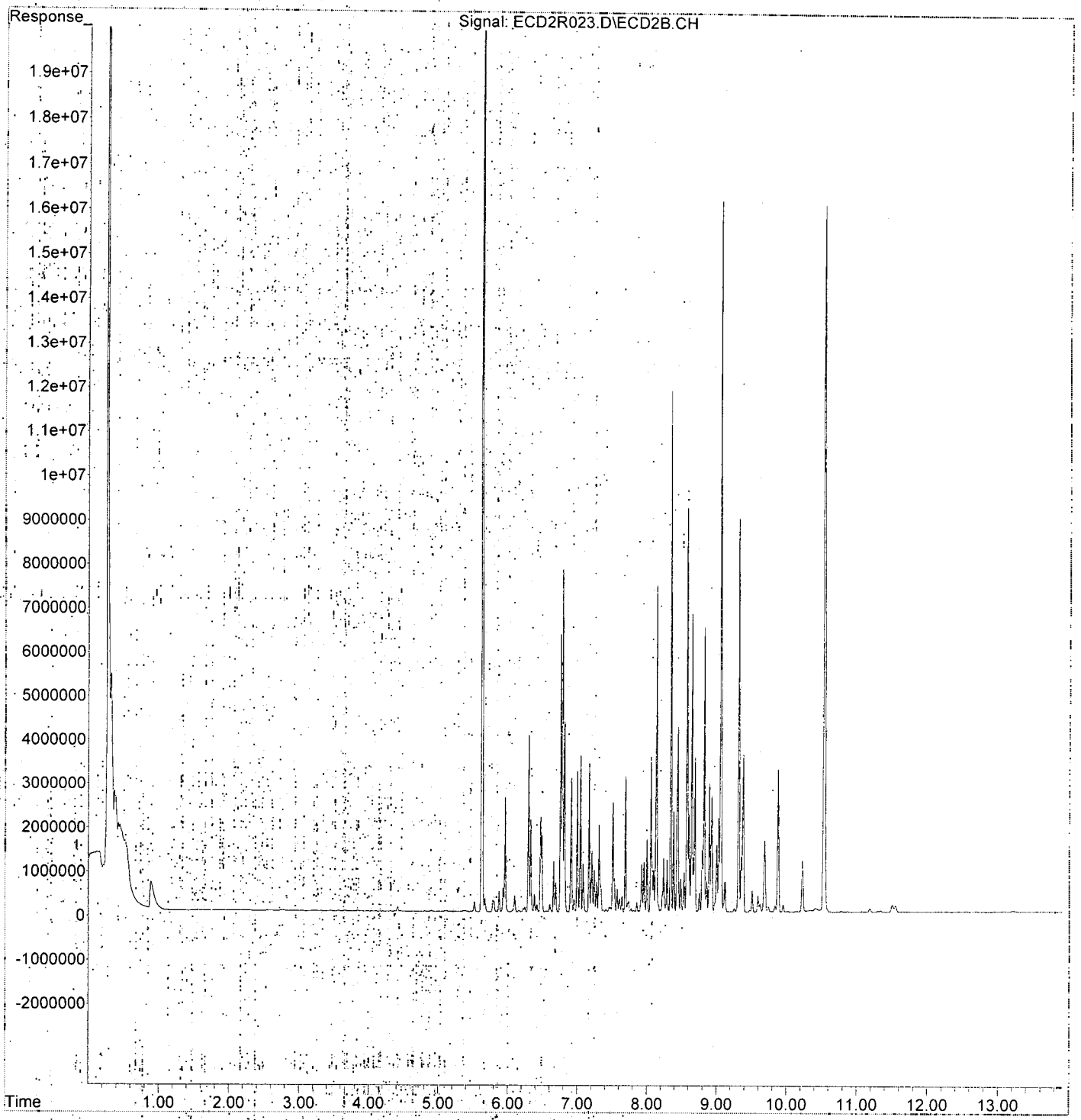
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	8.343	11824376	1118.494	ng/ml
49)	Aroclor 1262 (2)	8.643	6773408	443.358	ng/ml
50)	Aroclor 1262 (3)	8.820	6459592	504.490	ng/ml
51)	Aroclor 1262 (4)	9.058	16090451	584.584	ng/ml
52)	Aroclor 1262 (5)	9.315	8949475	545.050	ng/ml
53)	Aroclor 1262 (6)	9.878	3235956	449.405	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	8.860	704412	113.029	ng/ml
56)	Aroclor 1268 (2)	9.315	8949475	322.312	ng/ml
57)	Aroclor 1268 (3)	9.379	3586084	159.266	ng/ml
58)	Aroclor 1268 (4)	9.592	373802	19.415	ng/ml
59)	Aroclor 1268 (5)	9.878	3235956	413.637	ng/ml
60)	Aroclor 1268 (6)	10.225	1174173	23.198	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\0B27017\
Data File : ECD2R023.D
Signal(s) : ECD2B.CH
Acq On : 27 Feb 2020 13:59
Operator : MJB / KAK
Sample : 0020809-MS1
Misc :
ALS Vial : 62 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 28 09:42:12 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\0B27017\
Data File : ECD2R025.D
Signal(s) : ECD2B.CH
Acq On : 27 Feb 2020 14:35
Operator : MJB / KAK
Sample : 0020809-MSD1
Misc :
ALS Vial : 63 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 28 09:42:27 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

2/28/20
Q-A

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	5.623	32441127	143.783	ng/ml
62)	S DCBP (S)	10.535	16976843	152.637	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.295	4251902	687.789	ng/ml
3)	Aroclor 1016 (2)	6.783	7779462	679.943	ng/ml
4)	Aroclor 1016 (3)	6.910	3108524	580.327	ng/ml
5)	Aroclor 1016 (4)	6.998	3178376	643.297	ng/ml
6)	Aroclor 1016 (5)	7.042	3861613	696.348	ng/ml
7)	Aroclor 1016 (6)	7.167	3412240	597.321	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.799	238636	137.343	ng/ml
10)	Aroclor 1221 (2)	5.871	478270	278.553	ng/ml
11)	Aroclor 1221 (3)	5.958	2558633	448.331	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.958	2558633	559.876	ng/ml
14)	Aroclor 1232 (2)	6.295	4251902	1633.630	ng/ml
15)	Aroclor 1232 (3)	6.783	7779462	1590.255	ng/ml
16)	Aroclor 1232 (4)	6.998	3178376	1878.654	ng/ml
17)	Aroclor 1232 (5)	7.042	3861613	1855.791	ng/ml
18)	Aroclor 1232 (6)	7.167	3412240	1572.696	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.295	4251902	935.238	ng/ml
21)	Aroclor 1242 (2)	6.783	7779462	881.780	ng/ml
22)	Aroclor 1242 (3)	6.910	3108524	811.589	ng/ml
23)	Aroclor 1242 (4)	6.998	3178376	962.097	ng/ml
24)	Aroclor 1242 (5)	7.042	3861613	966.871	ng/ml
25)	Aroclor 1242 (6)	7.167	3412240	818.124	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.756	6688465	1295.704	ng/ml
28)	Aroclor 1248 (2)	6.998	3178376	499.796	ng/ml
29)	Aroclor 1248 (3)	7.042	3861613	650.566	ng/ml
30)	Aroclor 1248 (4)	7.167	3412240	467.718	ng/ml
31)	Aroclor 1248 (5)	7.531	857312	96.308	ng/ml
32)	Aroclor 1248 (6)	7.691	3102489	381.084	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.510	2549686	300.889	ng/ml
35)	Aroclor 1254 (2)	7.691	3102489	223.043	ng/ml
36)	Aroclor 1254 (3)	8.000	1744157	114.941	ng/ml
37)	Aroclor 1254 (4)	8.239	1250311	114.534	ng/ml
38)	Aroclor 1254 (5)	8.574	9875377	877.916	ng/ml
39)	Aroclor 1254 (6)	8.820	6604485	1872.453	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	8.136	7799272	740.822	ng/ml
42)	Aroclor 1260 (2)	8.343	11660146	913.628	ng/ml
43)	Aroclor 1260 (3)	8.574	9875377	744.684	ng/ml
44)	Aroclor 1260 (4)	9.058	16868631	797.478	ng/ml
45)	Aroclor 1260 (5)	9.316	8869344	724.932	ng/ml
46)	Aroclor 1260 (6)	9.879	3493274	715.841	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B27017\
Data File : ECD2R025.D
Signal(s) : ECD2B.CH
Acq On : 27 Feb 2020 14:35
Operator : MJB / KAK
Sample : 0020809-MSD1
Misc :
ALS Vial : 63 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 28 09:42:27 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

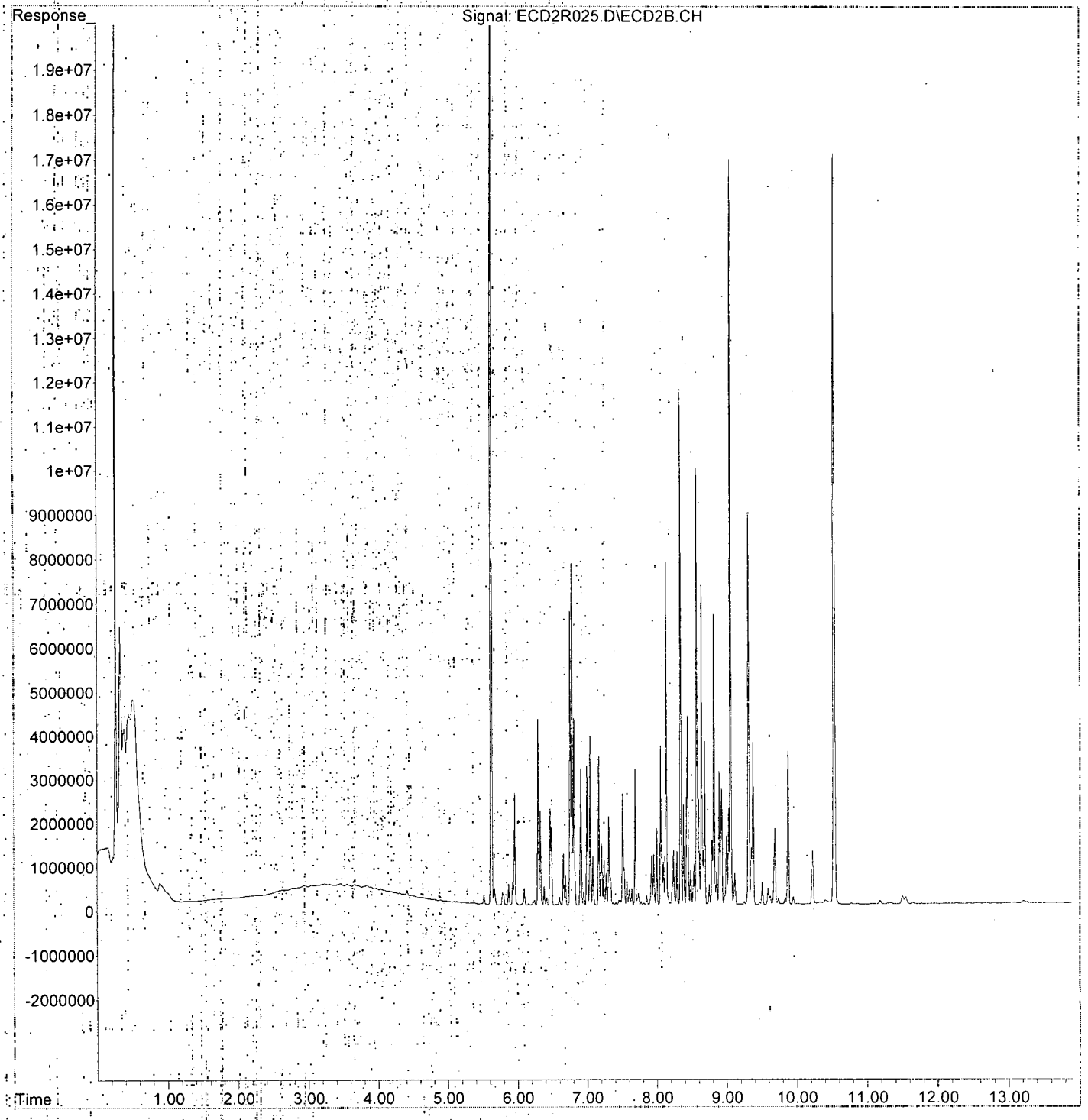
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	8.343	11660146	1102.959	ng/ml
49)	Aroclor 1262 (2)	8.643	7258367	475.102	ng/ml
50)	Aroclor 1262 (3)	8.820	6604485	515.806	ng/ml
51)	Aroclor 1262 (4)	9.058	16868631	612.856	ng/ml
52)	Aroclor 1262 (5)	9.316	8869344	540.170	ng/ml
53)	Aroclor 1262 (6)	9.879	3493274	485.141	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	8.860	745011	119.543	ng/ml
56)	Aroclor 1268 (2)	9.316	8869344	319.426	ng/ml
57)	Aroclor 1268 (3)	9.379	3698015	164.237	ng/ml
58)	Aroclor 1268 (4)	9.592	385277	20.011	ng/ml
59)	Aroclor 1268 (5)	9.879	3493274	446.529	ng/ml
60)	Aroclor 1268 (6)	10.226	1219245	24.089	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\0B27017\
Data File : ECD2R025.D
Signal(s) : ECD2B:CH
Acq On : 27 Feb 2020 14:35
Operator : MJB / KAK
Sample : 0020809-MSD1
Misc :
ALS Vial : 63 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 28 09:42:27 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\0B27017\
Data File : ECD2R027.D
Signal(s) : ECD2B.CH
Acq On : 27 Feb 2020 15:10
Operator : MJB / KAK
Sample : A0B0680-04
Misc :
ALS Vial : 64 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 28 09:42:45 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

2/28/20

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	5.624	37401069	165.766	ng/ml
62)	S DCBP (S)	10.534	20436790	183.745	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.295	7043	1.139	ng/ml
3)	Aroclor 1016 (2)	6.782	6865	0.600	ng/ml
4)	Aroclor 1016 (3)	6.911	3985	0.744	ng/ml
5)	Aroclor 1016 (4)	7.012	15369	3.111	ng/ml
6)	Aroclor 1016 (5)	7.043	49155	8.864	ng/ml
7)	Aroclor 1016 (6)	7.167	5296	0.927	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.821	8524	4.906	ng/ml
10)	Aroclor 1221 (2)	5.883	6810	3.966	ng/ml
11)	Aroclor 1221 (3)	5.930	703237	123.223	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.930	703237	153.881	ng/ml
14)	Aroclor 1232 (2)	6.295	7043	2.706	ng/ml
15)	Aroclor 1232 (3)	6.782	6865	1.403	ng/ml
16)	Aroclor 1232 (4)	7.012	15369	9.084	ng/ml
17)	Aroclor 1232 (5)	7.043	49155	23.623	ng/ml
18)	Aroclor 1232 (6)	7.167	5296	2.441	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.295	7043	1.549	ng/ml
21)	Aroclor 1242 (2)	6.782	6865	0.778	ng/ml
22)	Aroclor 1242 (3)	6.911	3985	1.040	ng/ml
23)	Aroclor 1242 (4)	7.012	15369	4.652	ng/ml
24)	Aroclor 1242 (5)	7.043	49155	12.307	ng/ml
25)	Aroclor 1242 (6)	7.167	5296	1.270	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.756	8250	1.598	ng/ml
28)	Aroclor 1248 (2)	7.012	15369	2.417	ng/ml
29)	Aroclor 1248 (3)	7.043	49155	8.281	ng/ml
30)	Aroclor 1248 (4)	7.167	5296	0.726	ng/ml
31)	Aroclor 1248 (5)	7.530	5788	0.650	ng/ml
32)	Aroclor 1248 (6)	7.690	26871	3.301	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.511	8718	1.029	ng/ml
35)	Aroclor 1254 (2)	7.690	26871	1.932	ng/ml
36)	Aroclor 1254 (3)	7.999	20308	1.338	ng/ml
37)	Aroclor 1254 (4)	8.239	12315	1.128	ng/ml
38)	Aroclor 1254 (5)	8.573	31501	2.800	ng/ml
39)	Aroclor 1254 (6)	8.819	19836	5.624	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	8.123	54441	5.171	ng/ml
42)	Aroclor 1260 (2)	8.341	100854	7.902	ng/ml
43)	Aroclor 1260 (3)	8.573	31501	2.375	ng/ml
44)	Aroclor 1260 (4)	9.055	45489	2.151	ng/ml
45)	Aroclor 1260 (5)	9.316	37005	3.025	ng/ml
46)	Aroclor 1260 (6)	9.877	22753	4.663	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B27017\
Data File : ECD2R027.D
Signal(s) : ECD2B.CH
Acq On : 27 Feb 2020 15:10
Operator : MJB / KAK
Sample : A0B0680-04
Misc :
ALS Vial : 64 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 28 09:42:45 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

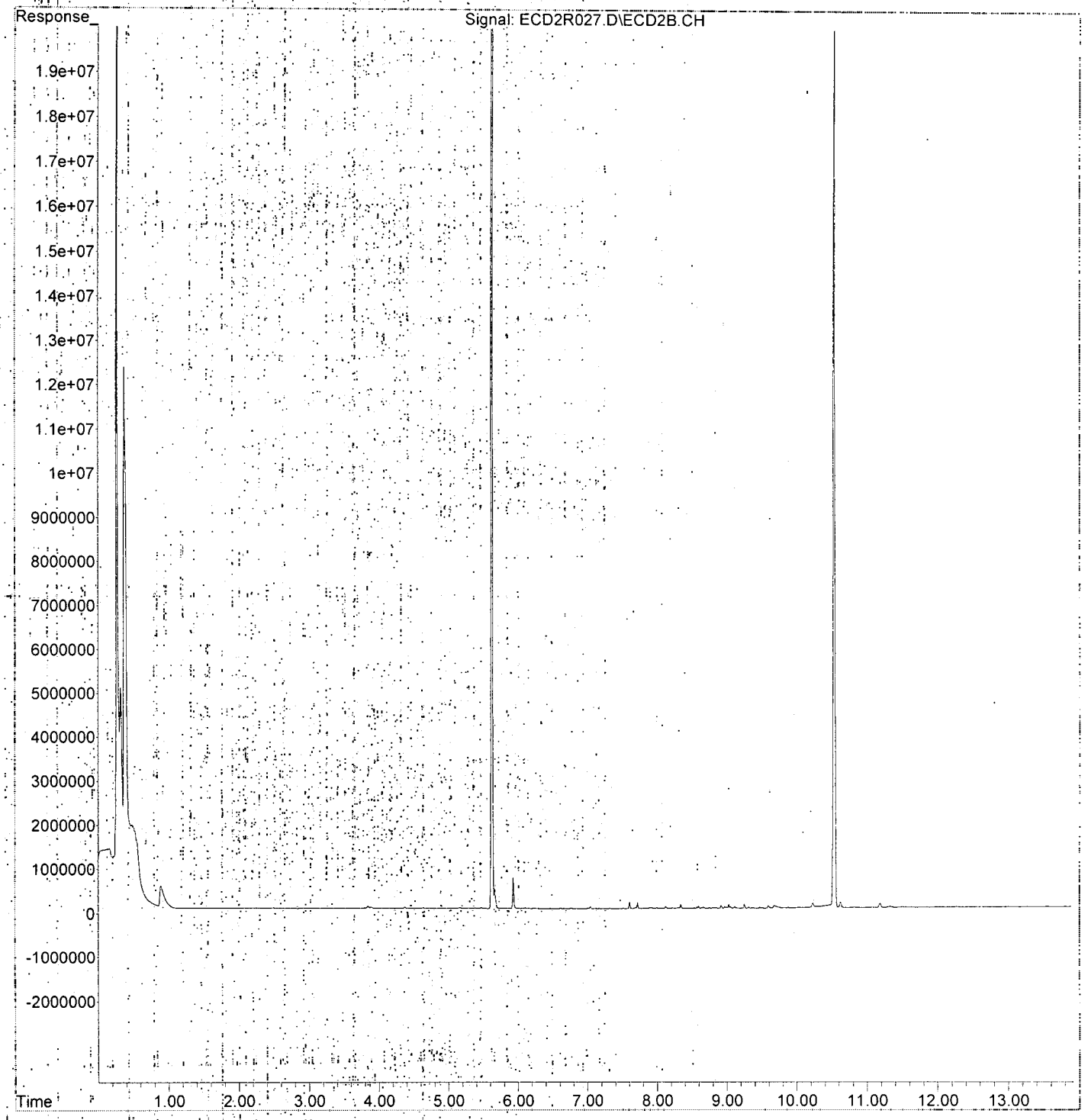
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	8.341	100854	9.540	ng/ml
49)	Aroclor 1262 (2)	8.642	23521	1.540	ng/ml
50)	Aroclor 1262 (3)	8.819	19836	1.549	ng/ml
51)	Aroclor 1262 (4)	9.055	45489	1.653	ng/ml
52)	Aroclor 1262 (5)	9.316	37005	2.254	ng/ml
53)	Aroclor 1262 (6)	9.877	22753	3.160	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	8.859	15810	2.537	ng/ml
56)	Aroclor 1268 (2)	9.316	37005	1.333	ng/ml
57)	Aroclor 1268 (3)	9.378	19029	0.845	ng/ml
58)	Aroclor 1268 (4)	9.594	65540	3.404	ng/ml
59)	Aroclor 1268 (5)	9.877	22753	2.908	ng/ml
60)	Aroclor 1268 (6)	10.228	113490	2.242	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\0B27017\
Data File : ECD2R027.D
Signal(s) : ECD2B.CH
Acq On : 27 Feb 2020 15:10
Operator : MJB / KAK
Sample : A0B0680-04
Misc :
ALS Vial : 64 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 28 09:42:45 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\0B27017\
Data File : ECD2R029.D
Signal(s) : ECD2B.CH
Acq On : 27 Feb 2020 15:45
Operator : MJB / KAK
Sample : A0B0680-05
Misc :
ALS Vial : 65 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 28 09:43:03 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

2/28/20

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	5.624	40789186	180.782	ng/ml
62)	S DCBP (S)	10.535	25524280	229.486	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.298	11675	1.889	ng/ml
3)	Aroclor 1016 (2)	6.781	12526	1.095	ng/ml
4)	Aroclor 1016 (3)	6.915	11015	2.056	ng/ml
5)	Aroclor 1016 (4)	6.994	10935	2.213	ng/ml
6)	Aroclor 1016 (5)	7.042	11354	2.047	ng/ml
7)	Aroclor 1016 (6)	7.170	10791	1.889	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.807	12369	7.119	ng/ml
10)	Aroclor 1221 (2)	5.875	14520	8.456	ng/ml
11)	Aroclor 1221 (3)	5.930	800708	140.302	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.930	800708	175.210	ng/ml
14)	Aroclor 1232 (2)	6.298	11675	4.486	ng/ml
15)	Aroclor 1232 (3)	6.781	12526	2.561	ng/ml
16)	Aroclor 1232 (4)	6.994	10935	6.463	ng/ml
17)	Aroclor 1232 (5)	7.042	11354	5.456	ng/ml
18)	Aroclor 1232 (6)	7.170	10791	4.974	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.298	11675	2.568	ng/ml
21)	Aroclor 1242 (2)	6.781	12526	1.420	ng/ml
22)	Aroclor 1242 (3)	6.915	11015	2.876	ng/ml
23)	Aroclor 1242 (4)	6.994	10935	3.310	ng/ml
24)	Aroclor 1242 (5)	7.042	11354	2.843	ng/ml
25)	Aroclor 1242 (6)	7.170	10791	2.587	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.756	14679	2.844	ng/ml
28)	Aroclor 1248 (2)	6.994	10935	1.720	ng/ml
29)	Aroclor 1248 (3)	7.042	11354	1.913	ng/ml
30)	Aroclor 1248 (4)	7.170	10791	1.479	ng/ml
31)	Aroclor 1248 (5)	7.539	7928	0.891	ng/ml
32)	Aroclor 1248 (6)	7.684	21295	2.616	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.509	10890	1.285	ng/ml
35)	Aroclor 1254 (2)	7.684	21295	1.531	ng/ml
36)	Aroclor 1254 (3)	7.994	20866	1.375	ng/ml
37)	Aroclor 1254 (4)	8.239	15062	1.380	ng/ml
38)	Aroclor 1254 (5)	8.574	24087	2.141	ng/ml
39)	Aroclor 1254 (6)	8.820	21498	6.095	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	8.153	10930	1.038	ng/ml
42)	Aroclor 1260 (2)	8.341	42386	3.321	ng/ml
43)	Aroclor 1260 (3)	8.574	24087	1.816	ng/ml
44)	Aroclor 1260 (4)	9.056	29070	1.374	ng/ml
45)	Aroclor 1260 (5)	9.317	30100	2.460	ng/ml
46)	Aroclor 1260 (6)	9.880	33043	6.771	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B27017\
Data File : ECD2R029.D
Signal(s) : ECD2B.CH
Acq On : 27 Feb 2020 15:45
Operator : MJB / KAK
Sample : A0B0680-05
Misc :
ALS Vial : 65 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 28 09:43:03 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

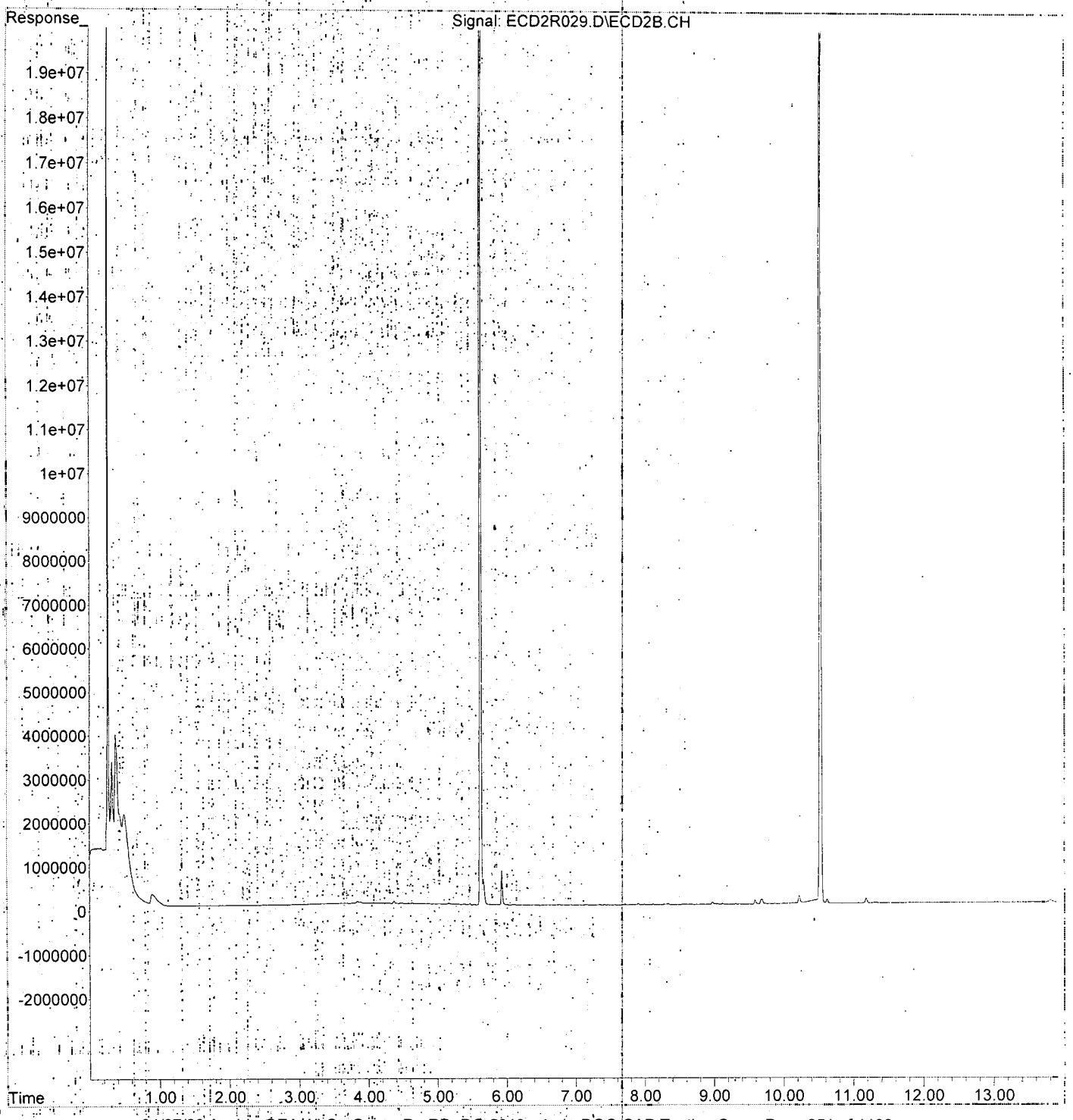
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	8.341	42386	4.009 ng/ml
49)	Aroclor 1262 (2)	8.642	20957	1.372 ng/ml
50)	Aroclor 1262 (3)	8.820	21498	1.679 ng/ml
51)	Aroclor 1262 (4)	9.056	29070	1.056 ng/ml
52)	Aroclor 1262 (5)	9.317	30100	1.833 ng/ml
53)	Aroclor 1262 (6)	9.880	33043	4.589 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.875	13588	2.180 ng/ml
56)	Aroclor 1268 (2)	9.317	30100	1.084 ng/ml
57)	Aroclor 1268 (3)	9.380	22006	0.977 ng/ml
58)	Aroclor 1268 (4)	9.594	117833	6.120 ng/ml
59)	Aroclor 1268 (5)	9.880	33043	4.224 ng/ml
60)	Aroclor 1268 (6)	10.227	211260	4.174 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\0B27017\
Data File : ECD2R029.D
Signal(s) : ECD2B.CH
Acq On : 27 Feb 2020 15:45
Operator : MJB / KAK
Sample : A0B0680-05
Misc :
ALS Vial : 65 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 28 09:43:03 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\0B27017\
Data File : ECD2R031.D
Signal(s) : ECD2B.CH
Acq On : 27 Feb 2020 16:20
Operator : MJB / KAK
Sample : 0B27017-CCV3
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 28 09:43:24 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

2/28/20

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	5.625	62627744	277.573	ng/ml
62)	S DCBP (S)	10.536	34516379	310.333	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.296	3377110	546.283	ng/ml
3)	Aroclor 1016 (2)	6.787	5483566	479.276	ng/ml
4)	Aroclor 1016 (3)	6.914	2439390	455.407	ng/ml
5)	Aroclor 1016 (4)	6.999	2777643	562.189	ng/ml
6)	Aroclor 1016 (5)	7.043	2979051	537.200	ng/ml
7)	Aroclor 1016 (6)	7.169	3054652	534.724	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.799	249537	143.617	ng/ml
10)	Aroclor 1221 (2)	5.874	432569	251.936	ng/ml
11)	Aroclor 1221 (3)	5.961	1944895	340.790	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.961	1944895	425.579	ng/ml
14)	Aroclor 1232 (2)	6.296	3377110	1297.525	ng/ml
15)	Aroclor 1232 (3)	6.787	5483566	1120.934	ng/ml
16)	Aroclor 1232 (4)	6.999	2777643	1641.791	ng/ml
17)	Aroclor 1232 (5)	7.043	2979051	1431.654	ng/ml
18)	Aroclor 1232 (6)	7.169	3054652	1407.885	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.296	3377110	742.821	ng/ml
21)	Aroclor 1242 (2)	6.787	5483566	621.547	ng/ml
22)	Aroclor 1242 (3)	6.914	2439390	636.888	ng/ml
23)	Aroclor 1242 (4)	6.999	2777643	840.795	ng/ml
24)	Aroclor 1242 (5)	7.043	2979051	745.895	ng/ml
25)	Aroclor 1242 (6)	7.169	3054652	732.388	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.759	4894095	948.095	ng/ml
28)	Aroclor 1248 (2)	6.999	2777643	436.781	ng/ml
29)	Aroclor 1248 (3)	7.043	2979051	501.881	ng/ml
30)	Aroclor 1248 (4)	7.169	3054652	418.703	ng/ml
31)	Aroclor 1248 (5)	7.534	690956	77.620	ng/ml
32)	Aroclor 1248 (6)	7.692	2503591	307.521	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.511	2158694	254.748	ng/ml
35)	Aroclor 1254 (2)	7.692	2503591	179.987	ng/ml
36)	Aroclor 1254 (3)	8.002	1483560	97.768	ng/ml
37)	Aroclor 1254 (4)	8.242	1037587	95.048	ng/ml
38)	Aroclor 1254 (5)	8.576	8015886	712.608	ng/ml
39)	Aroclor 1254 (6)	8.821	5717373	1620.946	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	8.137	6272439	595.794	ng/ml
42)	Aroclor 1260 (2)	8.344	7847694	614.904	ng/ml
43)	Aroclor 1260 (3)	8.576	8015886	604.463	ng/ml
44)	Aroclor 1260 (4)	9.058	13100308	619.327	ng/ml
45)	Aroclor 1260 (5)	9.315	7790912	636.787	ng/ml
46)	Aroclor 1260 (6)	9.878	2956846	605.916	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B27017\
Data File : ECD2R031.D
Signal(s) : ECD2B.CH
Acq On : 27 Feb 2020 16:20
Operator : MJB / KAK
Sample : 0B27017-CCV3
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 28 09:43:24 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

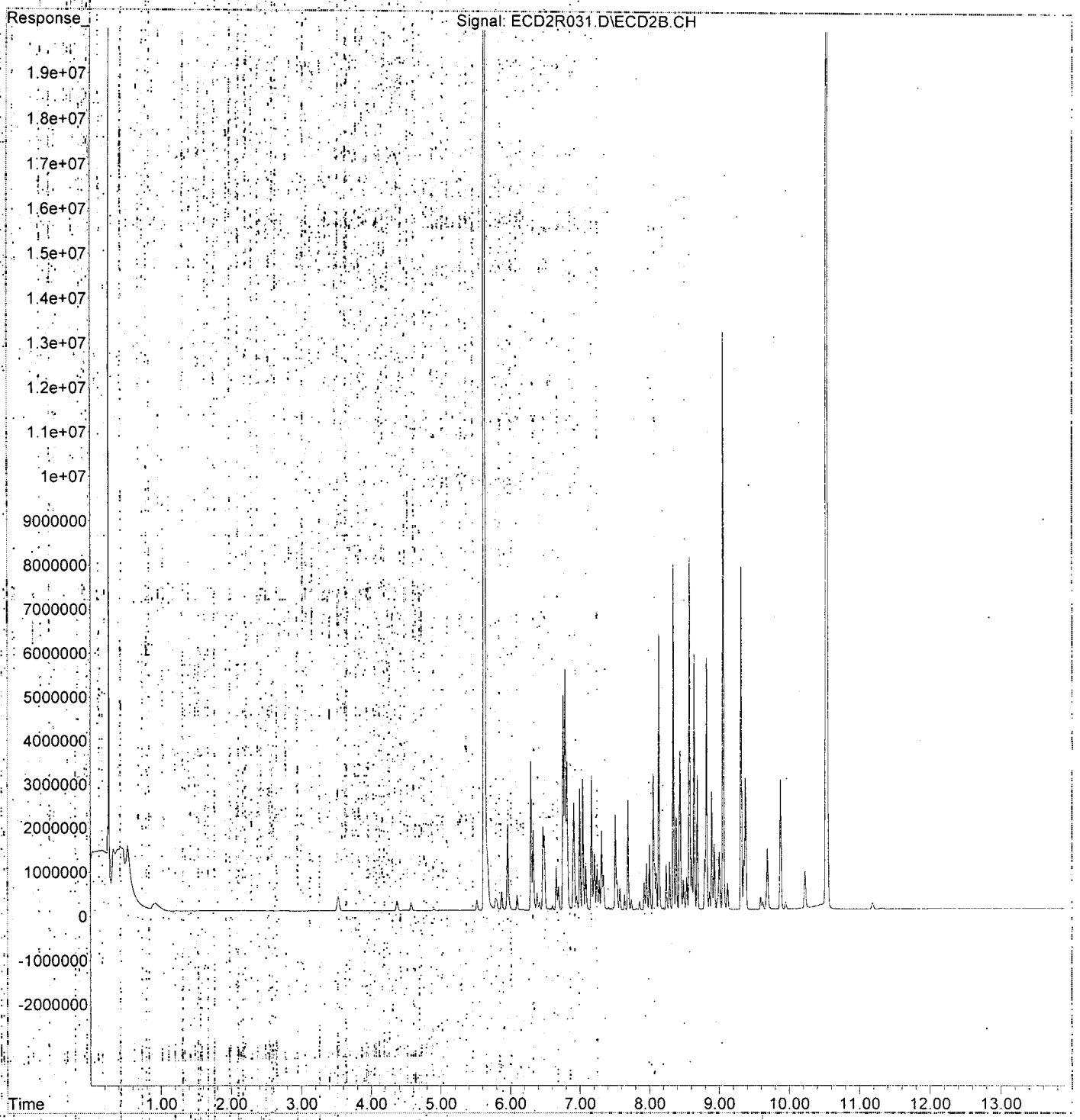
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	8.344	7847694	742.331	ng/ml
49)	Aroclor 1262 (2)	8.643	5803065	379.844	ng/ml
50)	Aroclor 1262 (3)	8.821	5717373	446.523	ng/ml
51)	Aroclor 1262 (4)	9.058	13100308	475.949	ng/ml
52)	Aroclor 1262 (5)	9.315	7790912	474.490	ng/ml
53)	Aroclor 1262 (6)	9.878	2956846	410.643	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	8.861	422340	67.768	ng/ml
56)	Aroclor 1268 (2)	9.315	7790912	280.587	ng/ml
57)	Aroclor 1268 (3)	9.378	2993751	132.959	ng/ml
58)	Aroclor 1268 (4)	9.594	281931	14.643	ng/ml
59)	Aroclor 1268 (5)	9.878	2956846	377.960	ng/ml
60)	Aroclor 1268 (6)	10.226	866187	17.113	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\0B27017\
Data File : ECD2R031.D
Signal(s) : ECD2B.CH
Acq On : 27 Feb 2020 16:20
Operator : MJB / KAK
Sample : 0B27017-CCV3
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 28 09:43:24 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\0B27017\
Data File : ECD2R032.D
Signal(s) : ECD2B.CH
Acq On : 27 Feb 2020 16:38
Operator : MJB / KAK
Sample : 0B27017-CCB3
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 28 09:43:45 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

2/28/20
Clean

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	5.624	22771716	100.927	ng/ml
62)	S DCBP (S)	10.536	13304170	119.616	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.295	1794	0.290	ng/ml
3)	Aroclor 1016 (2)	6.803	1608	0.141	ng/ml
4)	Aroclor 1016 (3)	6.918	1656	0.309	ng/ml
5)	Aroclor 1016 (4)	7.006	1685	0.341	ng/ml
6)	Aroclor 1016 (5)	7.045	1741	0.314	ng/ml
7)	Aroclor 1016 (6)	7.169	1828	0.320	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.805	15012	8.640	ng/ml
10)	Aroclor 1221 (2)	5.876	9028	5.258	ng/ml
11)	Aroclor 1221 (3)	5.944	36494	6.395	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.944	36494	7.986	ng/ml
14)	Aroclor 1232 (2)	6.295	1794	0.689	ng/ml
15)	Aroclor 1232 (3)	6.803	1608	0.329	ng/ml
16)	Aroclor 1232 (4)	7.006	1685	0.996	ng/ml
17)	Aroclor 1232 (5)	7.045	1741	0.837	ng/ml
18)	Aroclor 1232 (6)	7.169	1828	0.842	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.295	1794	0.395	ng/ml
21)	Aroclor 1242 (2)	6.803	1608	0.182	ng/ml
22)	Aroclor 1242 (3)	6.918	1656	0.432	ng/ml
23)	Aroclor 1242 (4)	7.006	1685	0.510	ng/ml
24)	Aroclor 1242 (5)	7.045	1741	0.436	ng/ml
25)	Aroclor 1242 (6)	7.169	1828	0.438	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.760	1631	0.316	ng/ml
28)	Aroclor 1248 (2)	7.006	1685	0.265	ng/ml
29)	Aroclor 1248 (3)	7.045	1741	0.293	ng/ml
30)	Aroclor 1248 (4)	7.169	1828	0.251	ng/ml
31)	Aroclor 1248 (5)	7.543	799	0.090	ng/ml
32)	Aroclor 1248 (6)	7.690	1266	0.156	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.514	1186	0.140	ng/ml
35)	Aroclor 1254 (2)	7.690	1266	0.091	ng/ml
36)	Aroclor 1254 (3)	7.998	7702	0.508	ng/ml
37)	Aroclor 1254 (4)	8.240	3235	0.296	ng/ml
38)	Aroclor 1254 (5)	8.572	4759	0.423	ng/ml
39)	Aroclor 1254 (6)	8.822	3483	0.987	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	8.139	5358	0.509	ng/ml
42)	Aroclor 1260 (2)	8.342	8179	0.641	ng/ml
43)	Aroclor 1260 (3)	8.572	4759	0.359	ng/ml
44)	Aroclor 1260 (4)	9.059	4323	0.204	ng/ml
45)	Aroclor 1260 (5)	9.317	6263	0.512	ng/ml
46)	Aroclor 1260 (6)	9.877	8387	1.719	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B27017\
Data File : ECD2R032.D
Signal(s) : ECD2B.CH
Acq On : 27 Feb 2020 16:38
Operator : MJB / KAK
Sample : 0B27017-CCB3
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 28 09:43:45 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

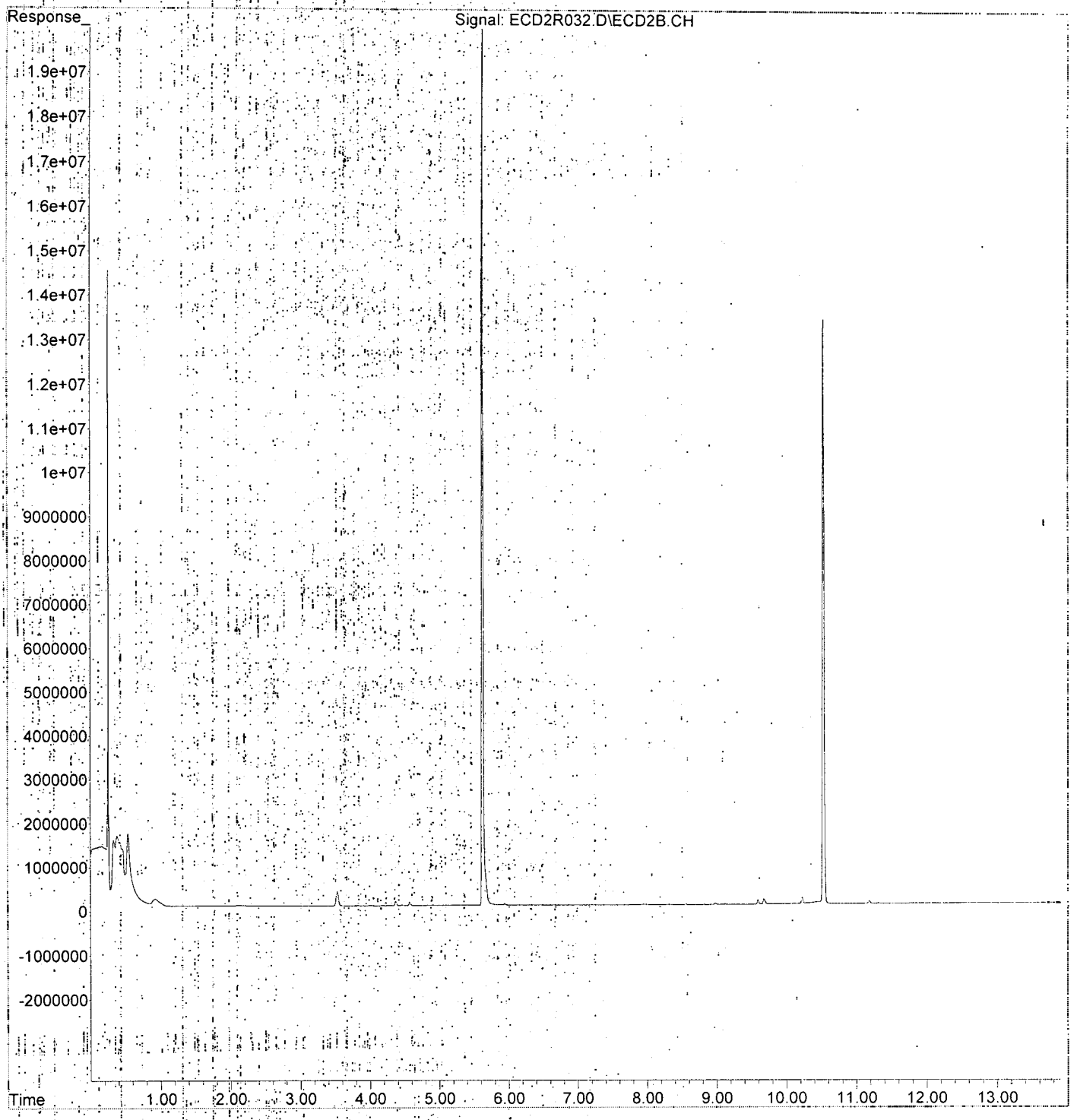
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	8.342	8179	0.774 ng/ml
49)	Aroclor 1262 (2)	8.644	2734	0.179 ng/ml
50)	Aroclor 1262 (3)	8.822	3483	0.272 ng/ml
51)	Aroclor 1262 (4)	9.059	4323	0.157 ng/ml
52)	Aroclor 1262 (5)	9.317	6263	0.381 ng/ml
53)	Aroclor 1262 (6)	9.877	8387	1.165 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.863	2029	0.325 ng/ml
56)	Aroclor 1268 (2)	9.317	6263	0.226 ng/ml
57)	Aroclor 1268 (3)	9.378	3760	0.167 ng/ml
58)	Aroclor 1268 (4)	9.595	107618	5.590 ng/ml
59)	Aroclor 1268 (5)	9.877	8387	1.072 ng/ml
60)	Aroclor 1268 (6)	10.227	153418	3.031 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\0B27017\
Data File : ECD2R032.D
Signal(s) : ECD2B.CH
Acq On : 27 Feb 2020 16:38
Operator : MJB / KAK
Sample : 0B27017-CCB3
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 28 09:43:45 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
Benchsheet & Analysis Sequence Data

Sequence 0C02025 (A0B0680-02RE1,03RE1,01RE3)

ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence: **0C02025** Instrument: **DUALECD2F**

Date: **03/02/20 07:22** Calibration: **A0B1902**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0C02025-CCV1	Sediment	QC	QC				A20A394
2	0C02025-CCB1	Sediment	QC	QC				A20B383
3	A0B0680-02RE1	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	02/28/20	0020809		
4	0C02025-IBL1	Sediment	QC	QC				
5	A0B0680-03RE1	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	02/28/20	0020809		
6	0C02025-IBL2	Sediment	QC	QC				
7	0020809-MS2	Sediment	QC	QC		0020809		
8	0C02025-IBL3	Sediment	QC	QC				
9	0020809-MSD2	Sediment	QC	QC		0020809		
10	0C02025-IBL4	Sediment	QC	QC				
11	0C02025-CCV2	Sediment	QC	QC				A20A394
12	0C02025-CCB2	Sediment	QC	QC				A20B383
13	0020917-BLK1	Sediment	QC	QC		0020917		
14	0020917-BS1	Sediment	QC	QC		0020917		
15	A0B0680-01RE1	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	02/28/20	0020917		
16	0C02025-IBL5	Sediment	QC	QC				
17	0020917-DUP1	Sediment	QC	QC		0020917		
18	0C02025-IBL6	Sediment	QC	QC				
19	A0B0681-01RE1	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	02/28/20	0020917		
20	0C02025-IBL7	Sediment	QC	QC				
21	A0B0681-02RE1	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	02/28/20	0020917		
22	0C02025-IBL8	Sediment	QC	QC				
23	A0B0680-01RE2	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	02/28/20	0020917		
24	0C02025-IBL9	Sediment	QC	QC				
25	0C02025-CCV3	Sediment	QC	QC				A20A394
26	0C02025-CCB3	Sediment	QC	QC				A20B383
27	A0B0680-01RE3	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	02/28/20	0020917		
28	0C02025-IBLA	Sediment	QC	QC				
29	0020917-DUP2	Sediment	QC	QC		0020917		
30	0C02025-IBLB	Sediment	QC	QC				
31	0C02025-CCV4	Sediment	QC	QC				A20A394
32	0C02025-CCB4	Sediment	QC	QC				A20B383

Data Entered By: 3/3/20

Data Reviewed By: MCF 3/3/20

Comments: Complete

ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence:	0C02025	Instrument:	DUALECD2F
Date:	03/02/20 07:22	Calibration:	A0B1902

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0C02025-CCV1	Sediment	QC	QC				A20A394
2	0C02025-CCB1	Sediment	QC	QC				A20B383
3	A0B0680-02RE1	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	02/28/20	0020809		
4	0C02025-IBL1	Sediment	QC	QC				
5	A0B0680-03RE1	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	02/28/20	0020809		
6	0C02025-IBL2	Sediment	QC	QC				
7	0020809-MS2	Sediment	QC	QC		0020809		
8	0C02025-IBL3	Sediment	QC	QC				
9	0020809-MSD2	Sediment	QC	QC		0020809		
10	0C02025-IBL4	Sediment	QC	QC				
11	0C02025-CCV2	Sediment	QC	QC				A20A394
12	0C02025-CCB2	Sediment	QC	QC				A20B383
13	0020917-BLK1	Sediment	QC	QC		0020917		
14	0020917-BS1	Sediment	QC	QC		0020917		
15	A0B0680-01RE1	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	02/28/20	0020917		
16	0C02025-IBL5	Sediment	QC	QC				
17	0020917-DUP1	Sediment	QC	QC		0020917		
18	0C02025-IBL6	Sediment	QC	QC				
19	A0B0681-01RE1	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	02/28/20	0020917		
20	0C02025-IBL7	Sediment	QC	QC				
21	A0B0681-02RE1	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	02/28/20	0020917		
22	0C02025-IBL8	Sediment	QC	QC				
23	A0B0680-01RE2	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	02/28/20	0020809		
24	0C02025-IBL9	Sediment	QC	QC				
25	0C02025-CCV3	Sediment	QC	QC				A20A394
26	0C02025-CCB3	Sediment	QC	QC				A20B383

Comments: Partial

Data Entered By: 3/2/20

Data Reviewed By: 3/3/20

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.

0C02025-CCV1

Aroclor 1016

Peak	Initial Res
1016 (1)	441.37
1016 (2)	468.07
1016 (3)	442.95
1016 (4)	449.60
1016 (5)	448.84
1016 (6)	447.73
Average:	**449.76**

Aroclor 1260

Peak	Initial Res
1260 (1)	458.80
1260 (2)	476.29
1260 (3)	462.55
1260 (4)	488.20
1260 (5)	469.54
1260 (6)	469.64
Average:	**470.84**

0020809-MS2

Aroclor 1016

Peak	Initial Res
1016 (1)	621.48
1016 (2)	752.89
1016 (3)	617.59
1016 (4)	554.46
1016 (5)	561.23
1016 (6)	547.48
Average:	**609.19**

Aroclor 1260

Peak	Initial Res
1260 (1)	581.79
1260 (2)	638.68
1260 (3)	587.93
1260 (4)	Ø 678.44
1260 (5)	632.17
1260 (6)	599.61
Average:	~~**619.77**~~ 608.04

3/12/20

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.

0020809-MSD2

Aroclor 1016

Peak	Initial Res
1016 (1)	631.95
1016 (2)	734.50
1016 (3)	648.79
1016 (4)	579.32
1016 (5)	573.75
1016 (6)	536.72
Average:	**617.51**

Aroclor 1260

Peak	Initial Res
1260 (1)	631.17
1260 (2)	674.06
1260 (3)	602.42
1260 (4)	Ø 682.80
1260 (5)	643.24
1260 (6)	624.53
Average:	~~643.04~~ 635.08

3/12/20

0C02025-CCV2

Aroclor 1016

Peak	Initial Res
1016 (1)	470.49
1016 (2)	484.43
1016 (3)	463.57
1016 (4)	457.55
1016 (5)	463.71
1016 (6)	433.01
Average:	**462.13**

Aroclor 1260

Peak	Initial Res
1260 (1)	484.18
1260 (2)	469.43
1260 (3)	464.33
1260 (4)	492.26
1260 (5)	466.61
1260 (6)	452.44
Average:	**471.54**

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.

0020917-BS1

Aroclor 1016

Peak	Initial Res
1016 (1)	850.27
1016 (2)	975.74
1016 (3)	864.59
1016 (4)	911.48
1016 (5)	856.61
1016 (6)	863.11
Average:	**886.97**

Aroclor 1260

Peak	Initial Res
1260 (1)	1,064.20
1260 (2)	1,146.05
1260 (3)	1,051.45
1260 (4)	1,193.68
1260 (5)	1,125.67
1260 (6)	1,103.30
Average:	**1,114.06**

0C02025-CCV3

Aroclor 1016

Peak	Initial Res
1016 (1)	469.37
1016 (2)	517.60
1016 (3)	485.35
1016 (4)	488.60
1016 (5)	504.68
1016 (6)	482.62
Average:	**491.37**

Aroclor 1260

Peak	Initial Res
1260 (1)	491.31
1260 (2)	510.82
1260 (3)	521.83
1260 (4)	544.70
1260 (5)	522.16
1260 (6)	516.65
Average:	**517.91**

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.

0C02025-CCV4

Aroclor 1016

Peak	Initial Res
1016 (1)	438.85
1016 (2)	459.19
1016 (3)	442.52
1016 (4)	449.38
1016 (5)	436.10
1016 (6)	429.06
Average:	**442.52**

Aroclor 1260

Peak	Initial Res
1260 (1)	479.78
1260 (2)	468.32
1260 (3)	468.09
1260 (4)	475.62
1260 (5)	474.74
1260 (6)	448.88
Average:	**469.24**

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0C02025\
Data File : ECD2F002.D
Signal(s) : ECD1A.CH
Acq On : 02 Mar 2020 7:54
Operator : MJB / KAK
Sample : 0C02025-CCV1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 02 11:12:11 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

3/2/20

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	4.783	18476838	234.095	ng/ml
62) S	DCBP (S)	9.526	34388928	253.158	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	5.695	2033731	441.372	ng/ml
3)	Aroclor 1016 (2)	6.107	4119101	468.067	ng/ml
4)	Aroclor 1016 (3)	6.189	2120303	442.953	ng/ml
5)	Aroclor 1016 (4)	6.346	1992711	449.595	ng/ml
6)	Aroclor 1016 (5)	6.567	2295596	448.842	ng/ml
7)	Aroclor 1016 (6)	6.694	1655099	447.727	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.134	191672	140.592	ng/ml
10)	Aroclor 1221 (2)	5.253	213378	231.626	ng/ml
11)	Aroclor 1221 (3)	5.334	896279	315.913	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.334	896279	378.839	ng/ml
14)	Aroclor 1232 (2)	6.107	4119101	1148.249	ng/ml
15)	Aroclor 1232 (3)	6.189	2120303	1077.276	ng/ml
16)	Aroclor 1232 (4)	6.346	1992711	1311.560	ng/ml
17)	Aroclor 1232 (5)	6.567	2295596	1189.188	ng/ml
18)	Aroclor 1232 (6)	6.694	1655099	1050.882	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	5.695	2033731	577.628	ng/ml
21)	Aroclor 1242 (2)	6.107	4119101	574.174	ng/ml
22)	Aroclor 1242 (3)	6.189	2120303	576.812	ng/ml
23)	Aroclor 1242 (4)	6.346	1992711	608.646	ng/ml
24)	Aroclor 1242 (5)	6.567	2295596	560.082	ng/ml
25)	Aroclor 1242 (6)	6.694	1655099	485.659	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.107	4119101	944.297	ng/ml
28)	Aroclor 1248 (2)	6.346	1992711	349.290	ng/ml
29)	Aroclor 1248 (3)	6.567	2295596	354.561	ng/ml
30)	Aroclor 1248 (4)	6.862	422587	57.462	ng/ml
31)	Aroclor 1248 (5)	6.895	1563737	207.239	ng/ml
32)	Aroclor 1248 (6)	7.381	3549241	864.953	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	6.895	1563737	176.484	ng/ml
35)	Aroclor 1254 (2)	7.005	1687207	152.245	ng/ml
36)	Aroclor 1254 (3)	7.381	3549241	213.305	ng/ml
37)	Aroclor 1254 (4)	7.542	475840	44.773	ng/ml
38)	Aroclor 1254 (5)	7.921	4481699	386.885	ng/ml
39)	Aroclor 1254 (6)	8.212	531988	142.594	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	7.494	4666959	458.805	ng/ml
42)	Aroclor 1260 (2)	7.628	6021389	476.294	ng/ml
43)	Aroclor 1260 (3)	8.182	4395651	462.552	ng/ml
44)	Aroclor 1260 (4)	8.353	10982417	488.197	ng/ml
45)	Aroclor 1260 (5)	8.652	7136322	469.542	ng/ml
46)	Aroclor 1260 (6)	9.039	2883087	469.644	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0C02025\
Data File : ECD2F002.D
Signal(s) : ECD1A.CH
Acq On : 02 Mar 2020 7:54
Operator : MJB / KAK
Sample : 0C02025-CCV1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 02 11:12:11 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

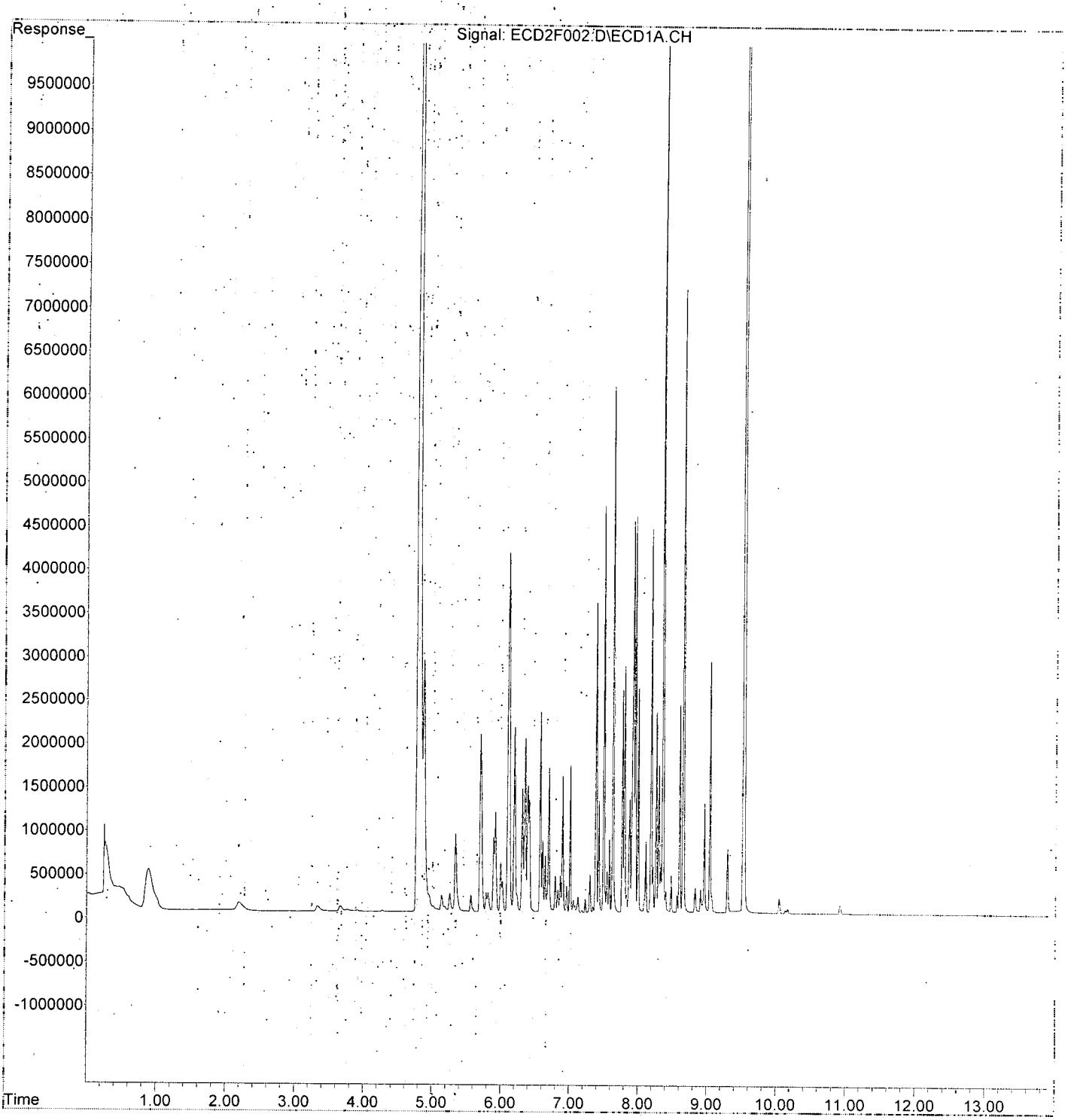
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	7.628	6021389	560.417	ng/ml
49)	Aroclor 1262 (2)	7.951	4548466	296.874	ng/ml
50)	Aroclor 1262 (3)	8.182	4395651	344.332	ng/ml
51)	Aroclor 1262 (4)	8.353	10982417	388.028	ng/ml
52)	Aroclor 1262 (5)	8.652	7136322	394.846	ng/ml
53)	Aroclor 1262 (6)	9.039	2883087	318.405	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	8.182	4395651	684.020	ng/ml
56)	Aroclor 1268 (2)	8.599	2390333	80.530	ng/ml
57)	Aroclor 1268 (3)	8.652	7136322	285.702	ng/ml
58)	Aroclor 1268 (4)	8.826	293121	12.710	ng/ml
59)	Aroclor 1268 (5)	9.039	2883087	313.037	ng/ml
60)	Aroclor 1268 (6)	9.294	736732	11.359	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\0C02025\
Data File : ECD2F002.D
Signal(s) : ECD1A.CH
Acq On : 02 Mar 2020 7:54
Operator : MJB / KAK
Sample : 0C02025-CCV1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 02 11:12:11 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0C02025\
Data File : ECD2F003.D
Signal(s) : ECD1A.CH
Acq On : 02 Mar 2020 8:12
Operator : MJB / KAK
Sample : 0C02025-CCB1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 02 11:12:32 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

3/12/20
Clean

		Compound	R.T.	Response	Conc	Units
System Monitoring Compounds						
1)	S	TCMX (S)	4.782	6526517	82.689	ng/ml
62)	S	DCBP (S)	9.526	13436770	98.916	ng/ml
Target Compounds						
2)		Aroclor 1016 (1)	5.699	4314	0.936	ng/ml
3)		Aroclor 1016 (2)	6.124	5861	0.666	ng/ml
4)		Aroclor 1016 (3)	6.183	1677	0.350	ng/ml
5)		Aroclor 1016 (4)	6.341	1346	0.304	ng/ml
6)		Aroclor 1016 (5)	6.565	1038	0.203	ng/ml
7)		Aroclor 1016 (6)	6.697	1719	0.465	ng/ml
8)		Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)		Aroclor 1221 (1)	5.136	17563	12.883	ng/ml
10)		Aroclor 1221 (2)	5.258	14072	15.276	ng/ml
11)		Aroclor 1221 (3)	5.337	12064	4.252	ng/ml
12)		Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)		Aroclor 1232 (1)	5.327	12206	5.159	ng/ml
14)		Aroclor 1232 (2)	6.124	5861	1.634	ng/ml
15)		Aroclor 1232 (3)	6.183	1677	0.852	ng/ml
16)		Aroclor 1232 (4)	6.341	1346	0.886	ng/ml
17)		Aroclor 1232 (5)	6.565	1038	0.538	ng/ml
18)		Aroclor 1232 (6)	6.697	1719	1.091	ng/ml
19)		Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)		Aroclor 1242 (1)	5.699	4314	1.225	ng/ml
21)		Aroclor 1242 (2)	6.124	5861	0.817	ng/ml
22)		Aroclor 1242 (3)	6.183	1677	0.456	ng/ml
23)		Aroclor 1242 (4)	6.341	1346	0.411	ng/ml
24)		Aroclor 1242 (5)	6.565	1038	0.253	ng/ml
25)		Aroclor 1242 (6)	6.697	1719	0.504	ng/ml
26)		Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)		Aroclor 1248 (1)	6.124	5861	1.344	ng/ml
28)		Aroclor 1248 (2)	6.341	1346	0.236	ng/ml
29)		Aroclor 1248 (3)	6.565	1038	0.160	ng/ml
30)		Aroclor 1248 (4)	6.859	668	0.091	ng/ml
31)		Aroclor 1248 (5)	6.898	776	0.103	ng/ml
32)		Aroclor 1248 (6)	7.379	1775	0.433	ng/ml
33)		Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)		Aroclor 1254 (1)	6.898	776	0.088	ng/ml
35)		Aroclor 1254 (2)	7.009	715	0.065	ng/ml
36)		Aroclor 1254 (3)	7.379	1775	0.107	ng/ml
37)		Aroclor 1254 (4)	7.538	1867	0.176	ng/ml
38)		Aroclor 1254 (5)	7.930	8134	0.702	ng/ml
39)		Aroclor 1254 (6)	8.214	1543	0.414	ng/ml
40)		Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)		Aroclor 1260 (1)	7.496	2590	0.255	ng/ml
42)		Aroclor 1260 (2)	7.650	12492	0.988	ng/ml
43)		Aroclor 1260 (3)	8.179	2108	0.222	ng/ml
44)		Aroclor 1260 (4)	8.348	22400	0.996	ng/ml
45)		Aroclor 1260 (5)	8.652	5102	0.336	ng/ml
46)		Aroclor 1260 (6)	9.038	7588	1.236	ng/ml
47)		Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0C02025\
Data File : ECD2F003.D
Signal(s) : ECD1A.CH
Acq On : 02 Mar 2020 8:12
Operator : MJB / KAK
Sample : 0C02025-CCB1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 02 11:12:32 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

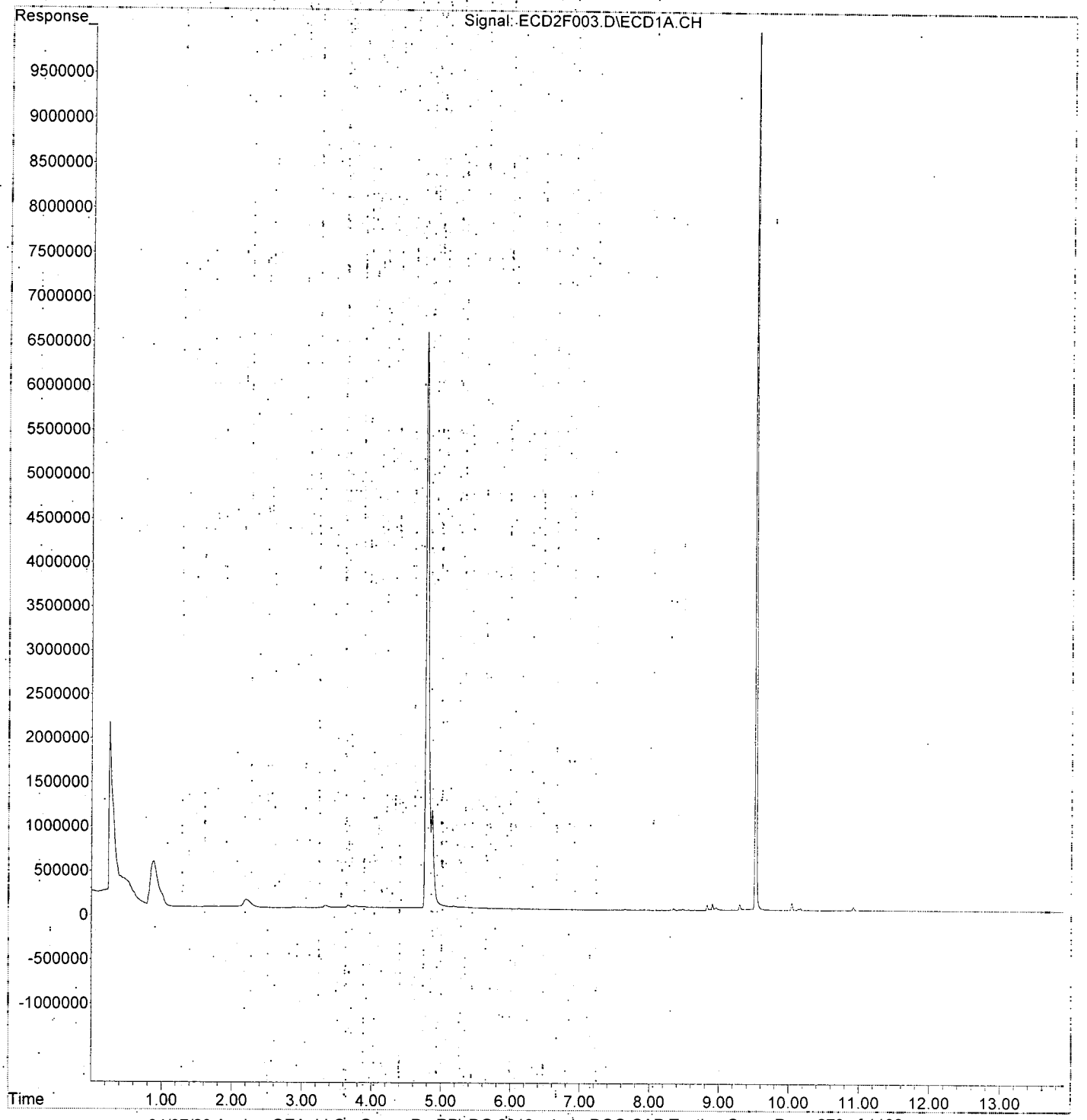
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	7.650	12492	1.163 ng/ml
49)	Aroclor 1262 (2)	7.971	1599	0.104 ng/ml
50)	Aroclor 1262 (3)	8.179	2108	0.165 ng/ml
51)	Aroclor 1262 (4)	8.348	22400	0.791 ng/ml
52)	Aroclor 1262 (5)	8.652	5102	0.282 ng/ml
53)	Aroclor 1262 (6)	9.038	7588	0.838 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.179	2108	0.328 ng/ml
56)	Aroclor 1268 (2)	8.599	3223	0.109 ng/ml
57)	Aroclor 1268 (3)	8.652	5102	0.204 ng/ml
58)	Aroclor 1268 (4)	8.830	63271	2.743 ng/ml
59)	Aroclor 1268 (5)	9.038	7588	0.824 ng/ml
60)	Aroclor 1268 (6)	9.296	70537	1.088 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\0C02025\
Data File : ECD2F003.D
Signal(s) : ECD1A.CH
Acq On : 02 Mar 2020 8:12
Operator : MJB / KAK
Sample : 0C02025-CCB1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 02 11:12:32 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0C02025\
Data File : ECD2F004.D
Signal(s) : ECD1A.CH
Acq On : 02 Mar 2020 8:29
Operator : MJB / KAK
Sample : A0B0680-02RE1
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 02 11:12:54 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

3/2/20

1254 P-10
1260 P-10

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
1)	S TCMX (S)	4.774	12831862	162.575	ng/ml	
62)	S DCBP (S)	9.526	16879934	124.263	ng/ml	
	Target Compounds					
2)	Aroclor 1016 (1)	5.689	85815	18.624	ng/ml	R-02
3)	Aroclor 1016 (2)	6.099	220403	25.045	ng/ml	R-02
4)	Aroclor 1016 (3)	6.183	129113	26.973	ng/ml	R-02
5)	Aroclor 1016 (4)	6.342	335193	75.626	ng/ml	R-02
6)	Aroclor 1016 (5)	6.570	655668	128.198	ng/ml	R-02
7)	Aroclor 1016 (6)	6.688	277695	75.120	ng/ml	R-02
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml	R-02
9)	Aroclor 1221 (1)	5.129	219488	160.996	ng/ml	↑MDL
10)	Aroclor 1221 (2)	5.263	12396	13.456	ng/ml	↑MDL
11)	Aroclor 1221 (3)	5.318	403022	142.054	ng/ml	↑MDL
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml	↑MDL
13)	Aroclor 1232 (1)	5.318	403022	170.349	ng/ml	
14)	Aroclor 1232 (2)	6.099	220403	61.440	ng/ml	
15)	Aroclor 1232 (3)	6.183	129113	65.599	ng/ml	
16)	Aroclor 1232 (4)	6.342	335193	220.617	ng/ml	
17)	Aroclor 1232 (5)	6.570	655668	339.656	ng/ml	
18)	Aroclor 1232 (6)	6.688	277695	176.318	ng/ml	
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml	
20)	Aroclor 1242 (1)	5.689	85815	24.374	ng/ml	
21)	Aroclor 1242 (2)	6.099	220403	30.723	ng/ml	
22)	Aroclor 1242 (3)	6.183	129113	35.124	ng/ml	R-02
23)	Aroclor 1242 (4)	6.342	335193	102.380	ng/ml	
24)	Aroclor 1242 (5)	6.570	655668	159.971	ng/ml	
25)	Aroclor 1242 (6)	6.688	277695	81.485	ng/ml	
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml	
27)	Aroclor 1248 (1)	6.099	220403	50.527	ng/ml	
28)	Aroclor 1248 (2)	6.342	335193	58.754	ng/ml	
29)	Aroclor 1248 (3)	6.570	655668	101.270	ng/ml	
30)	Aroclor 1248 (4)	6.858	530786	72.174	ng/ml	
31)	Aroclor 1248 (5)	6.893	876651	116.181	ng/ml	
32)	Aroclor 1248 (6)	7.374	1314599	320.369	ng/ml	
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml	
34)	Aroclor 1254 (1)	6.893	876651Ø	98.939	ng/ml	80.261
35)	Aroclor 1254 (2)	7.025	16916859Ø	1526.495	ng/ml	80.261
36)	Aroclor 1254 (3)	7.374	1314599	79.006	ng/ml	80.261
37)	Aroclor 1254 (4)	7.538	887058	83.466	ng/ml	80.261
38)	Aroclor 1254 (5)	7.919	3364146Ø	290.411	ng/ml	80.261
39)	Aroclor 1254 (6)	8.208	292162	78.311	ng/ml	80.261
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml	80.261
41)	Aroclor 1260 (1)	7.492	1142322Ø	112.301	ng/ml	79.229
42)	Aroclor 1260 (2)	7.627	2078978Ø	164.448	ng/ml	79.229
43)	Aroclor 1260 (3)	8.181	681014	71.663	ng/ml	79.229
44)	Aroclor 1260 (4)	8.351	2009261	89.317	ng/ml	79.229
45)	Aroclor 1260 (5)	8.649	1222326	80.424	ng/ml	79.229
46)	Aroclor 1260 (6)	9.038	463547	75.510	ng/ml	79.229
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml	79.229

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0C02025\
Data File : ECD2F004.D
Signal(s) : ECD1A.CH
Acq On : 02 Mar 2020 8:29
Operator : MJB / KAK
Sample : A0B0680-02RE1
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 02 11:12:54 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

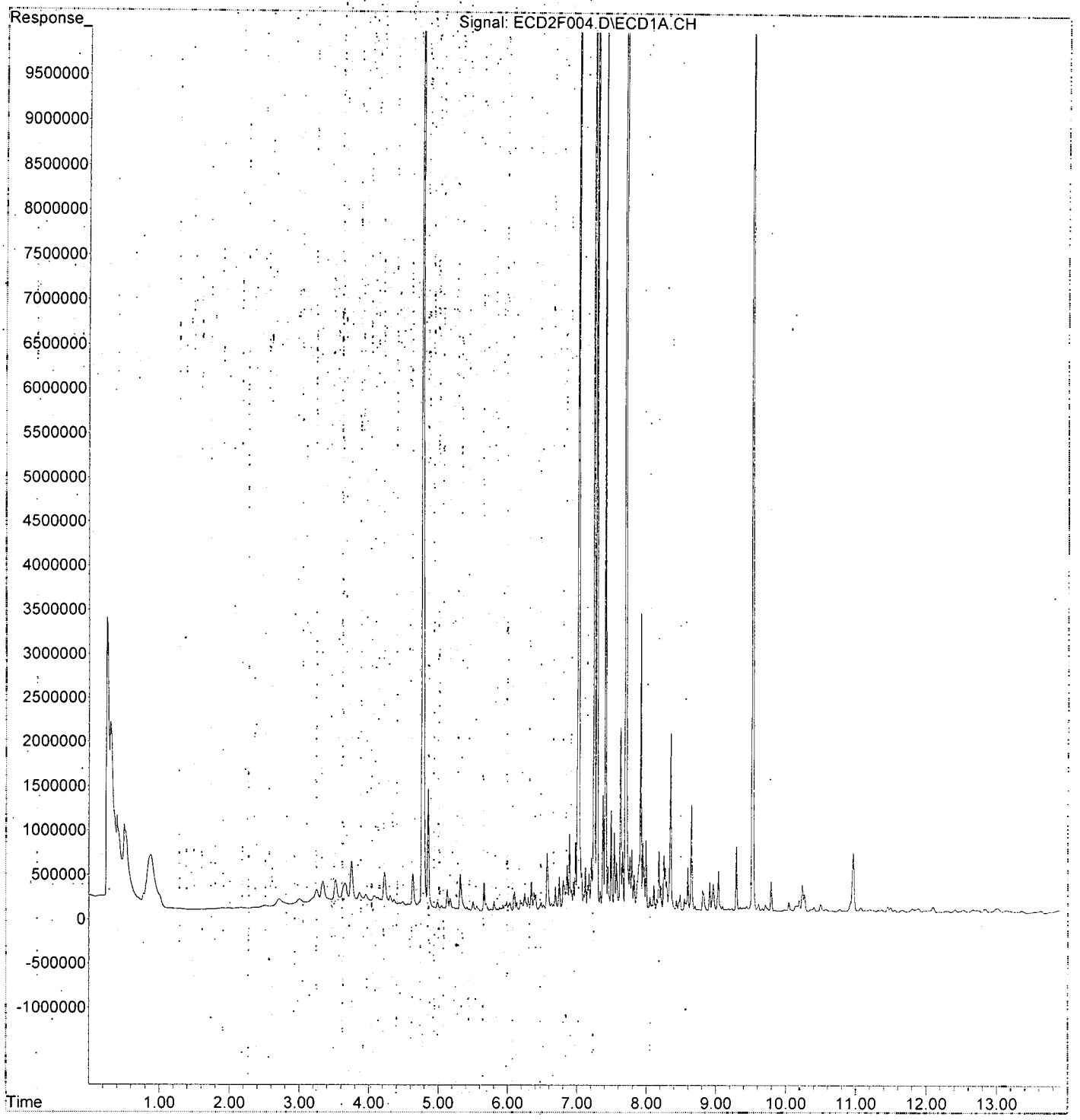
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	7.627	2078978	193.493 ng/ml
49)	Aroclor 1262 (2)	7.949	788401	51.458 ng/ml
50)	Aroclor 1262 (3)	8.181	681014	53.347 ng/ml
51)	Aroclor 1262 (4)	8.351	2009261	70.991 ng/ml
52)	Aroclor 1262 (5)	8.649	1222326	67.630 ng/ml
53)	Aroclor 1262 (6)	9.038	463547	51.194 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.181	681014	105.975 ng/ml
56)	Aroclor 1268 (2)	8.598	505384	17.026 ng/ml
57)	Aroclor 1268 (3)	8.649	1222326	48.936 ng/ml
58)	Aroclor 1268 (4)	8.826	208326	9.033 ng/ml
59)	Aroclor 1268 (5)	9.038	463547	50.331 ng/ml
60)	Aroclor 1268 (6)	9.294	730930	11.269 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\0C02025\
Data File : ECD2F004.D
Signal(s) : ECD1A.CH
Acq On : 02 Mar 2020 8:29
Operator : MJB / KAK
Sample : A0B0680-02RE1
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 02 11:12:54 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0C02025\
Data File : ECD2F006.D
Signal(s) : ECD1A.CH
Acq On : 02 Mar 2020 9:04
Operator : MJB / KAK
Sample : A0B0680-03RE1
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 02 11:13:16 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

3/2/20

1260

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
1)	S TCMX (S)	4.774	14221109	180.176	ng/ml	
62)	S DCBP (S)	9.526	17908819	131.838	ng/ml	
	Target Compounds					
2)	Aroclor 1016 (1)	5.683	4999	1.085	ng/ml	
3)	Aroclor 1016 (2)	6.098	13607	1.546	ng/ml	
4)	Aroclor 1016 (3)	6.181	7344	1.534	ng/ml	
5)	Aroclor 1016 (4)	6.338	42840	9.666	ng/ml	
6)	Aroclor 1016 (5)	6.570	57002	11.145	ng/ml	
7)	Aroclor 1016 (6)	6.687	21868	5.915	ng/ml	
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml	
9)	Aroclor 1221 (1)	5.129	248716	182.435	ng/ml	
10)	Aroclor 1221 (2)	~~5.224~~ 5.239	~~10705~~	~~11.621~~	ng/ml	9.592MDL
11)	Aroclor 1221 (3)	5.340	32413	11.424	ng/ml	
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml	
13)	Aroclor 1232 (1)	5.340	32413	13.700	ng/ml	
14)	Aroclor 1232 (2)	6.098	13607	3.793	ng/ml	
15)	Aroclor 1232 (3)	6.181	7344	3.731	ng/ml	
16)	Aroclor 1232 (4)	6.338	42840	28.197	ng/ml	
17)	Aroclor 1232 (5)	6.570	57002	29.529	ng/ml	
18)	Aroclor 1232 (6)	6.687	21868	13.885	ng/ml	
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml	
20)	Aroclor 1242 (1)	5.683	4999	1.420	ng/ml	
21)	Aroclor 1242 (2)	6.098	13607	1.897	ng/ml	
22)	Aroclor 1242 (3)	6.181	7344	1.998	ng/ml	
23)	Aroclor 1242 (4)	6.338	42840	13.085	ng/ml	
24)	Aroclor 1242 (5)	6.570	57002	13.907	ng/ml	
25)	Aroclor 1242 (6)	6.687	21868	6.417	ng/ml	
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml	
27)	Aroclor 1248 (1)	6.098	13607	3.119	ng/ml	
28)	Aroclor 1248 (2)	6.338	42840	7.509	ng/ml	
29)	Aroclor 1248 (3)	6.570	57002	8.804	ng/ml	
30)	Aroclor 1248 (4)	6.858	39918	5.428	ng/ml	
31)	Aroclor 1248 (5)	6.890	102621	13.600	ng/ml	
32)	Aroclor 1248 (6)	7.376	203428	49.576	ng/ml	
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml	
34)	Aroclor 1254 (1)	6.890	102621	11.582	ng/ml	
35)	Aroclor 1254 (2)	7.002	142784	12.884	ng/ml	
36)	Aroclor 1254 (3)	7.376	203428	12.226	ng/ml	↑MDL
37)	Aroclor 1254 (4)	7.546	298478	28.085	ng/ml	
38)	Aroclor 1254 (5)	7.918	325083	28.063	ng/ml	
39)	Aroclor 1254 (6)	8.184	254845	68.309	ng/ml	
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml	
41)	Aroclor 1260 (1)	7.492	269756	26.520	ng/ml	
42)	Aroclor 1260 (2)	7.625	410374	32.461	ng/ml	
43)	Aroclor 1260 (3)	8.184	254845	26.817	ng/ml	
44)	Aroclor 1260 (4)	8.339	1542781	Ø 68.581	ng/ml	
45)	Aroclor 1260 (5)	8.648	459531	30.235	ng/ml	
46)	Aroclor 1260 (6)	9.038	191283	31.159	ng/ml	
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml	

Q-42

29.438

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0C02025\
Data File : ECD2F006.D
Signal(s) : ECD1A.CH
Acq On : 02 Mar 2020 9:04
Operator : MJB / KAK
Sample : A0B0680-03RE1
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 02 11:13:16 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

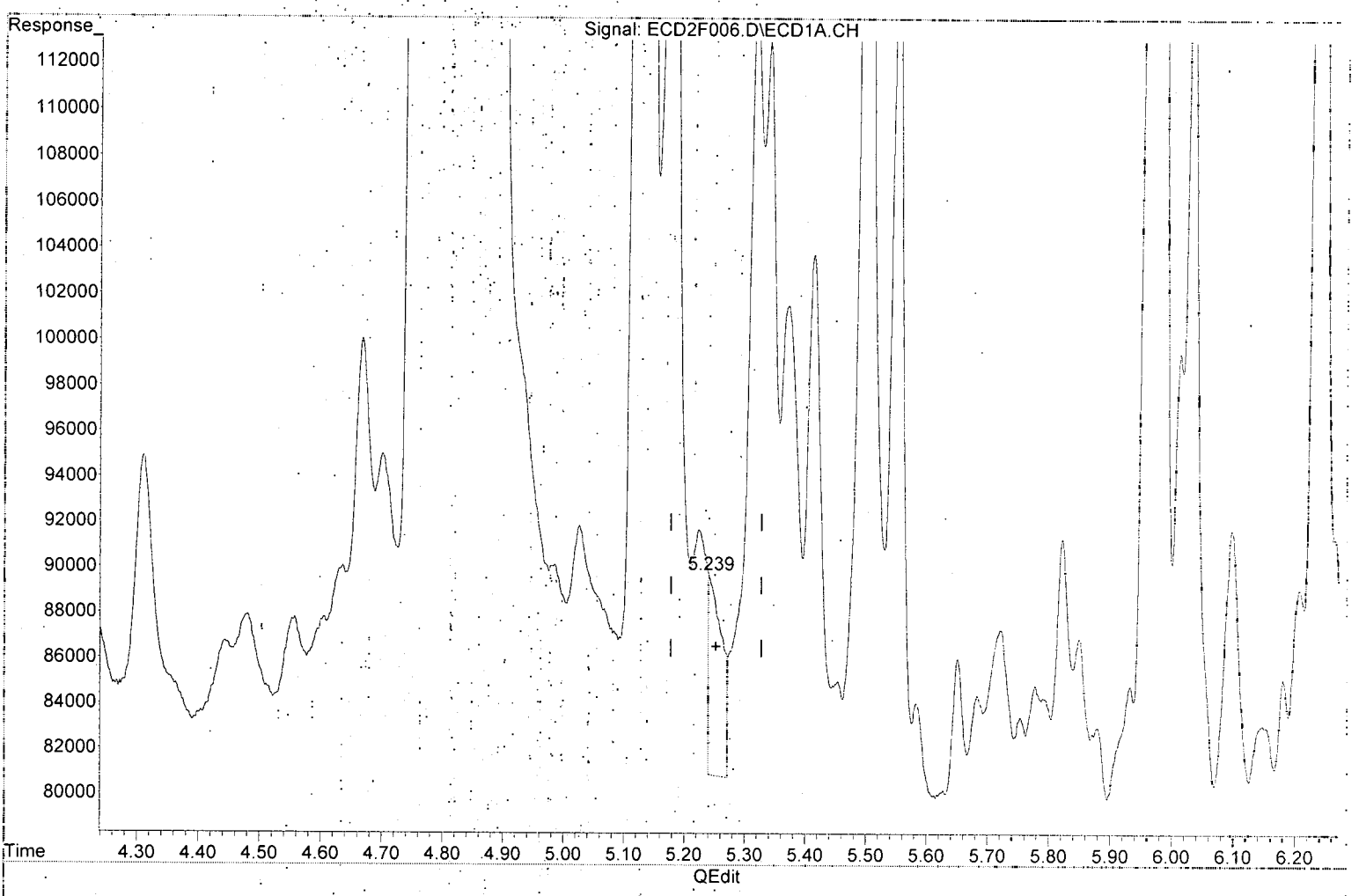
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	7.625	410374	38.194 ng/ml
49)	Aroclor 1262 (2)	7.949	265321	17.317 ng/ml
50)	Aroclor 1262 (3)	8.184	254845	19.963 ng/ml
51)	Aroclor 1262 (4)	8.339	1542781	54.509 ng/ml
52)	Aroclor 1262 (5)	8.648	459531	25.425 ng/ml
53)	Aroclor 1262 (6)	9.038	191283	21.125 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.184	254845	39.657 ng/ml
56)	Aroclor 1268 (2)	8.598	277813	9.359 ng/ml
57)	Aroclor 1268 (3)	8.648	459531	18.397 ng/ml
58)	Aroclor 1268 (4)	8.810	414663	17.980 ng/ml
59)	Aroclor 1268 (5)	9.038	191283	20.769 ng/ml
60)	Aroclor 1268 (6)	9.294	491211	7.573 ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D. ng/ml

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

Quantitation Report (Qedit)

Data Path : K:\DATA\0C02025\
Data File : ECD2F006.D
Signal(s) : ECD1A.CH
Acq On : 02 Mar 2020 9:04
Operator : MJB / KAK
Sample : A0B0680-03RE1
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 02 11:13:16 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(10) Aroclor 1221 (2)

5.239min 9.592 ng/ml m

response 8837

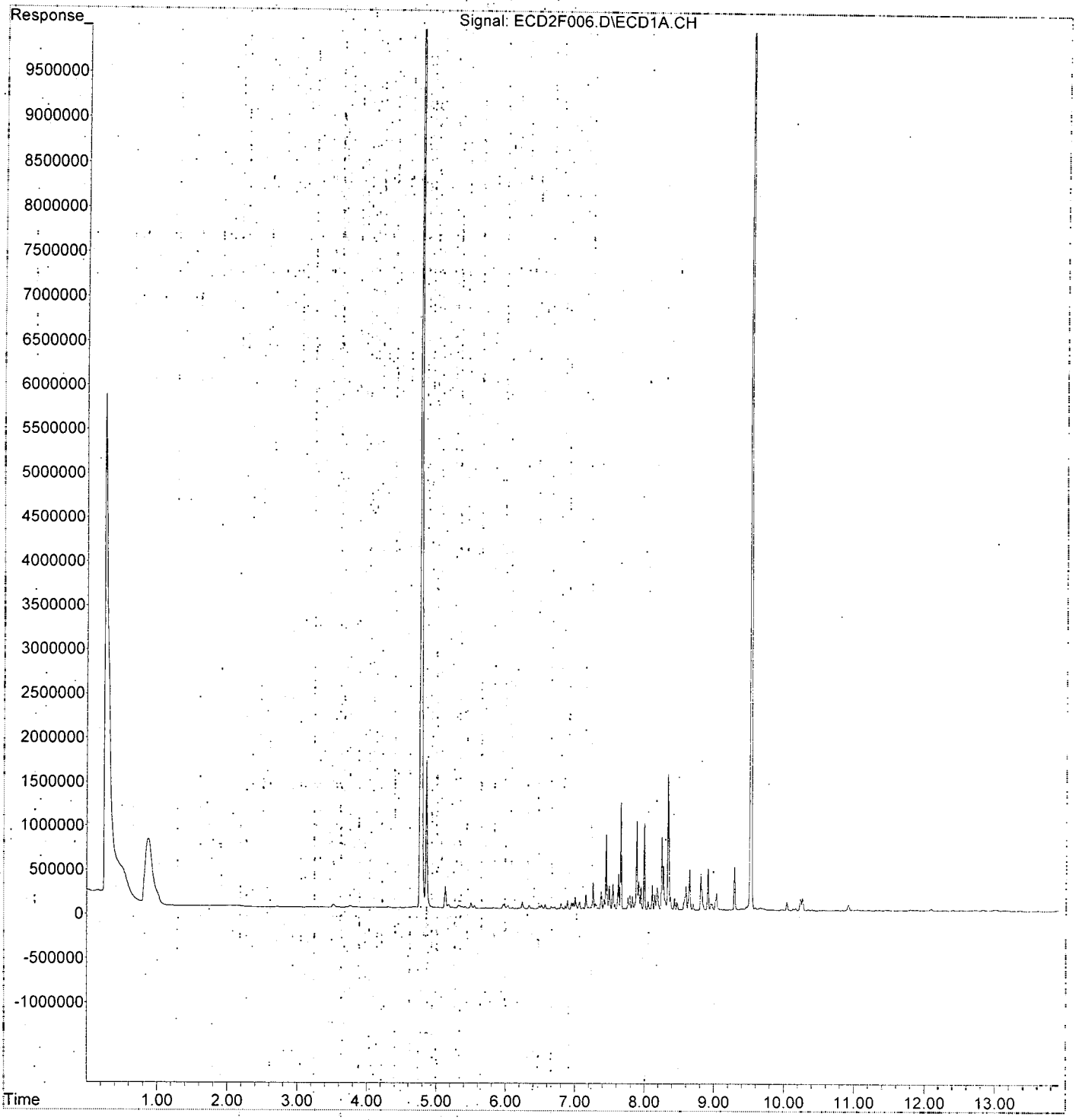
3/2/20

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0C02025\
Data File : ECD2F006.D
Signal(s) : ECD1A.CH
Acq On : 02 Mar 2020 9:04
Operator : MJB / KAK
Sample : A0B0680-03RE1
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 02 11:13:16 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0C02025\
Data File : ECD2F008.D
Signal(s) : ECD1A.CH
Acq On : 02 Mar 2020 9:40
Operator : MJB / KAK
Sample : 0020809-MS2
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 02 11:13:38 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

3/12/20

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	4.773	14653231	185.651	ng/ml
62)	S DCBP (S)	9.527	19197888	141.327	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	5.689	2863616	621.479	ng/ml
3)	Aroclor 1016 (2)	6.099	6625611	752.890	ng/ml
4)	Aroclor 1016 (3)	6.183	2956250	617.591	ng/ml
5)	Aroclor 1016 (4)	6.341	2457489	554.459	ng/ml
6)	Aroclor 1016 (5)	6.563	2870399	561.230	ng/ml
7)	Aroclor 1016 (6)	6.688	2023846	547.478	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.128	506706	371.672	ng/ml
10)	Aroclor 1221 (2)	5.246	295214	320.461	ng/ml
11)	Aroclor 1221 (3)	5.325	1553558	547.585	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.325	1553558	656.657	ng/ml
14)	Aroclor 1232 (2)	6.099	6625611	1846.970	ng/ml
15)	Aroclor 1232 (3)	6.183	2956250	1502.001	ng/ml
16)	Aroclor 1232 (4)	6.341	2457489	1617.468	ng/ml
17)	Aroclor 1232 (5)	6.563	2870399	1486.954	ng/ml
18)	Aroclor 1232 (6)	6.688	2023846	1285.013	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	5.689	2863616	813.335	ng/ml
21)	Aroclor 1242 (2)	6.099	6625611	923.564	ng/ml
22)	Aroclor 1242 (3)	6.183	2956250	804.225	ng/ml
23)	Aroclor 1242 (4)	6.341	2457489	750.606	ng/ml
24)	Aroclor 1242 (5)	6.563	2870399	700.323	ng/ml
25)	Aroclor 1242 (6)	6.688	2023846	593.862	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.099	6625611	1518.910	ng/ml
28)	Aroclor 1248 (2)	6.341	2457489	430.758	ng/ml
29)	Aroclor 1248 (3)	6.563	2870399	443.341	ng/ml
30)	Aroclor 1248 (4)	6.857	572829	77.891	ng/ml
31)	Aroclor 1248 (5)	6.891	2111069	279.776	ng/ml
32)	Aroclor 1248 (6)	7.378	4305435	1049.238	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	6.891	2111069	238.256	ng/ml
35)	Aroclor 1254 (2)	7.002	2261829	204.097	ng/ml
36)	Aroclor 1254 (3)	7.378	4305435	258.752	ng/ml
37)	Aroclor 1254 (4)	7.539	798798	75.161	ng/ml
38)	Aroclor 1254 (5)	7.918	5790571	499.873	ng/ml
39)	Aroclor 1254 (6)	8.209	565361	151.540	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	7.492	5917956	581.789	ng/ml
42)	Aroclor 1260 (2)	7.626	8074246	638.676	ng/ml
43)	Aroclor 1260 (3)	8.181	5587138	587.931	ng/ml
44)	Aroclor 1260 (4)	8.351	15262155Ø	678.443	ng/ml
45)	Aroclor 1260 (5)	8.650	9608047	632.172	ng/ml
46)	Aroclor 1260 (6)	9.039	3680961	599.615	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Q-01

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0C02025\
Data File : ECD2F008.D
Signal(s) : ECD1A.CH
Acq On : 02 Mar 2020 9:40
Operator : MJB / KAK
Sample : 0020809-MS2
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 02 11:13:38 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

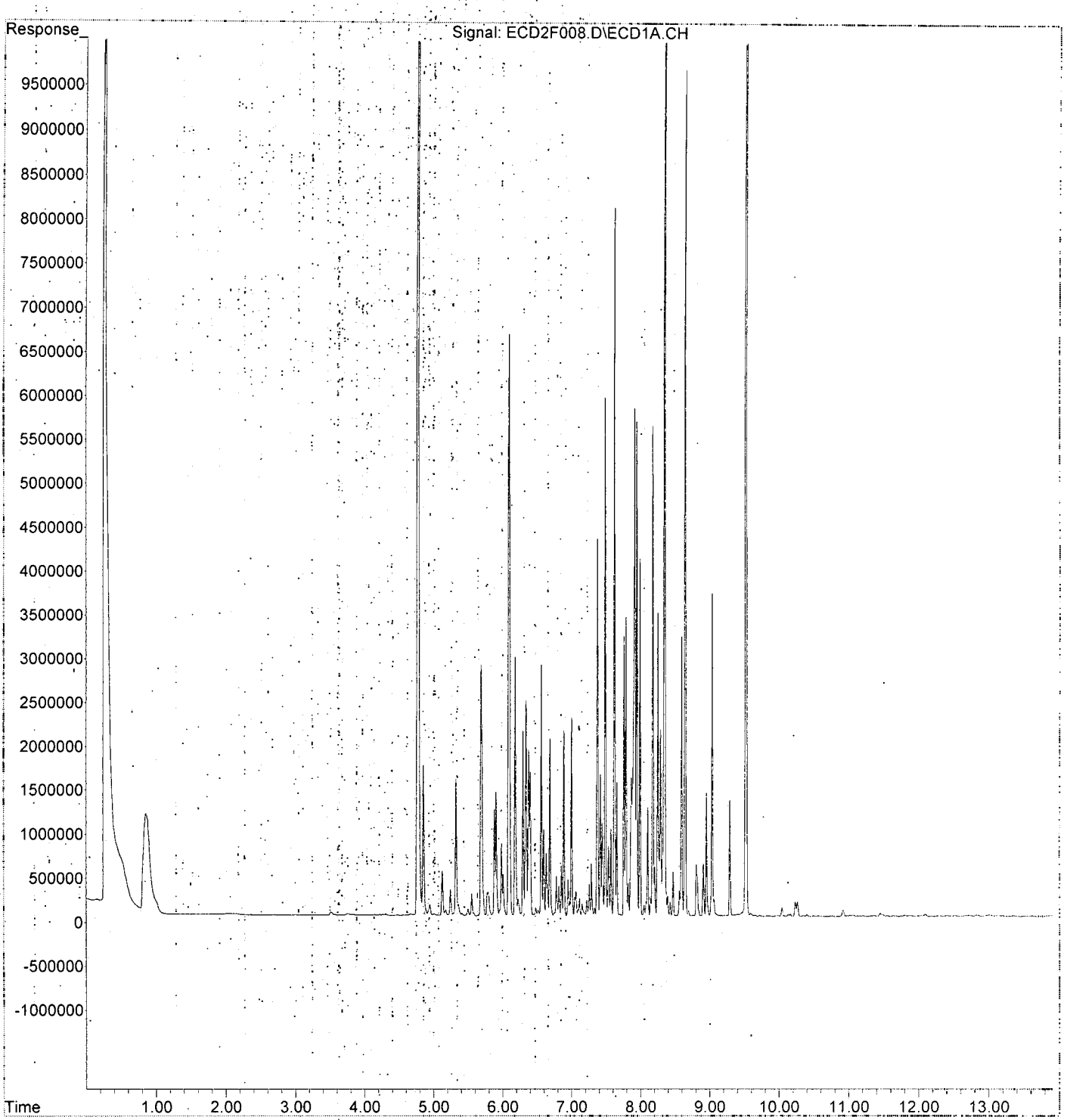
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	7.626	8074246	751.478	ng/ml
49)	Aroclor 1262 (2)	7.949	5652440	368.929	ng/ml
50)	Aroclor 1262 (3)	8.181	5587138	437.667	ng/ml
51)	Aroclor 1262 (4)	8.351	15262155	539.238	ng/ml
52)	Aroclor 1262 (5)	8.650	9608047	531.604	ng/ml
53)	Aroclor 1262 (6)	9.039	3680961	406.522	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	8.181	5587138	869.431	ng/ml
56)	Aroclor 1268 (2)	8.599	3191447	107.519	ng/ml
57)	Aroclor 1268 (3)	8.650	9608047	384.657	ng/ml
58)	Aroclor 1268 (4)	8.812	589152	25.545	ng/ml
59)	Aroclor 1268 (5)	9.039	3680961	399.668	ng/ml
60)	Aroclor 1268 (6)	9.294	1327363	20.465	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\0C02025\
Data File : ECD2F008.D
Signal(s) : ECD1A.CH
Acq On : 02 Mar 2020 9:40
Operator : MJB / KAK
Sample : 0020809-MS2
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 02 11:13:38 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0C02025\
Data File : ECD2F010.D
Signal(s) : ECD1A.CH
Acq On : 02 Mar 2020 10:15
Operator : MJB / KAK
Sample : 0020809-MSD2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 02 11:14:17 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

3/2/20

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	4.773	15158046	192.047	ng/ml
62)	S DCBP (S)	9.527	18335832	134.981	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	5.688	2911875	631.952	ng/ml
3)	Aroclor 1016 (2)	6.099	6463739	734.496	ng/ml
4)	Aroclor 1016 (3)	6.182	3105575	648.786	ng/ml
5)	Aroclor 1016 (4)	6.341	2567672	579.318	ng/ml
6)	Aroclor 1016 (5)	6.563	2934455	573.754	ng/ml
7)	Aroclor 1016 (6)	6.687	1984092	536.724	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.127	494814	362.949	ng/ml
10)	Aroclor 1221 (2)	5.246	288860	313.564	ng/ml
11)	Aroclor 1221 (3)	5.326	1520834	536.050	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.326	1520834	642.825	ng/ml
14)	Aroclor 1232 (2)	6.099	6463739	1801.846	ng/ml
15)	Aroclor 1232 (3)	6.182	3105575	1577.870	ng/ml
16)	Aroclor 1232 (4)	6.341	2567672	1689.988	ng/ml
17)	Aroclor 1232 (5)	6.563	2934455	1520.137	ng/ml
18)	Aroclor 1232 (6)	6.687	1984092	1259.772	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	5.688	2911875	827.042	ng/ml
21)	Aroclor 1242 (2)	6.099	6463739	901.000	ng/ml
22)	Aroclor 1242 (3)	6.182	3105575	844.848	ng/ml
23)	Aroclor 1242 (4)	6.341	2567672	784.260	ng/ml
24)	Aroclor 1242 (5)	6.563	2934455	715.951	ng/ml
25)	Aroclor 1242 (6)	6.687	1984092	582.196	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.099	6463739	1481.802	ng/ml
28)	Aroclor 1248 (2)	6.341	2567672	450.071	ng/ml
29)	Aroclor 1248 (3)	6.563	2934455	453.234	ng/ml
30)	Aroclor 1248 (4)	6.857	609796	82.918	ng/ml
31)	Aroclor 1248 (5)	6.891	2169679	287.543	ng/ml
32)	Aroclor 1248 (6)	7.378	4433437	1080.432	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	6.891	2169679	244.871	ng/ml
35)	Aroclor 1254 (2)	7.002	2367169	213.602	ng/ml
36)	Aroclor 1254 (3)	7.378	4433437	266.445	ng/ml
37)	Aroclor 1254 (4)	7.539	782839	73.659	ng/ml
38)	Aroclor 1254 (5)	7.918	6113545	527.754	ng/ml
39)	Aroclor 1254 (6)	8.208	585404	156.912	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	7.491	6420292	631.173	ng/ml
42)	Aroclor 1260 (2)	7.625	8521581	674.060	ng/ml
43)	Aroclor 1260 (3)	8.181	5724790	602.416	ng/ml
44)	Aroclor 1260 (4)	8.352	15360146	682.799	ng/ml
45)	Aroclor 1260 (5)	8.650	9776213	643.236	ng/ml
46)	Aroclor 1260 (6)	9.040	3833886	624.526	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0C02025\
Data File : ECD2F010.D
Signal(s) : ECD1A.CH
Acq On : 02 Mar 2020 10:15
Operator : MJB / KAK
Sample : 0020809-MSD2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 02 11:14:17 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

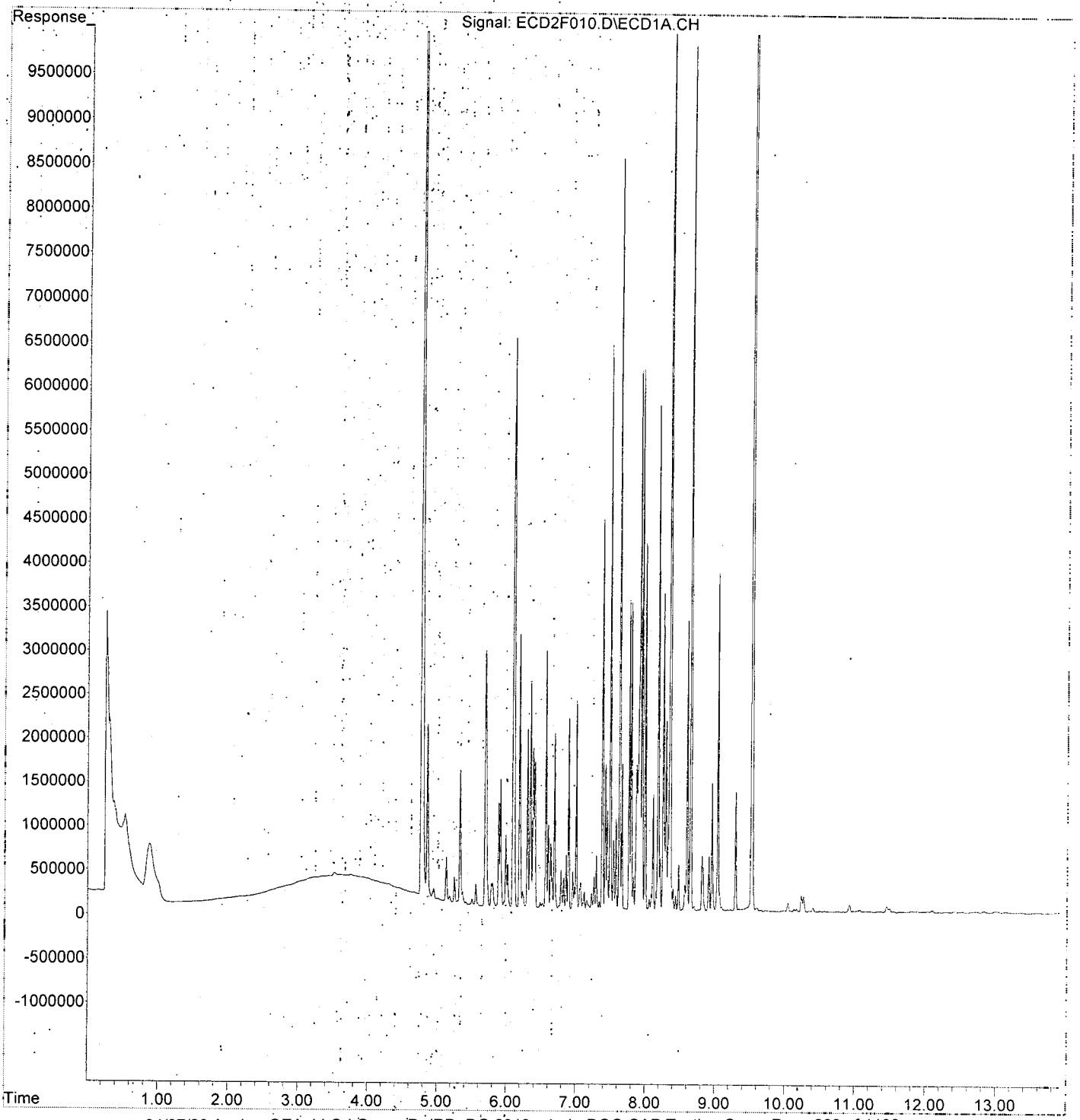
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	7.625	8521581	793.112 ng/ml
49)	Aroclor 1262 (2)	7.949	6131767	400.214 ng/ml
50)	Aroclor 1262 (3)	8.181	5724790	448.450 ng/ml
51)	Aroclor 1262 (4)	8.352	15360146	542.700 ng/ml
52)	Aroclor 1262 (5)	8.650	9776213	540.908 ng/ml
53)	Aroclor 1262 (6)	9.040	3833886	423.411 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.181	5724790	890.852 ng/ml
56)	Aroclor 1268 (2)	8.599	3307408	111.426 ng/ml
57)	Aroclor 1268 (3)	8.650	9776213	391.389 ng/ml
58)	Aroclor 1268 (4)	8.813	616617	26.736 ng/ml
59)	Aroclor 1268 (5)	9.040	3833886	416.272 ng/ml
60)	Aroclor 1268 (6)	9.294	1355275	20.895 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\0C02025\
Data File : ECD2F010.D
Signal(s) : ECD1A.CH
Acq On : 02 Mar 2020 10:15
Operator : MJB / KAK
Sample : 0020809-MSD2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 02 11:14:17 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0C02025\
Data File : ECD2F012.D
Signal(s) : ECD1A.CH
Acq On : 02 Mar 2020 10:50
Operator : MJB / KAK
Sample : 0C02025-CCV2
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 02 11:30:09 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 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)	4.781	19600262	248.328	ng/ml
62)	S	DCBP (S)	9.523	33612906	247.445	ng/ml
		Target Compounds				
2)		Aroclor 1016 (1)	5.692	2167914	470.493	ng/ml
3)		Aroclor 1016 (2)	6.104	4263119	484.432	ng/ml
4)		Aroclor 1016 (3)	6.186	2218977	463.567	ng/ml
5)		Aroclor 1016 (4)	6.343	2027954	457.547	ng/ml
6)		Aroclor 1016 (5)	6.565	2371655	463.714	ng/ml
7)		Aroclor 1016 (6)	6.691	1600685	433.007	ng/ml
8)		Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)		Aroclor 1221 (1)	5.131	210189	154.175	ng/ml
10)		Aroclor 1221 (2)	5.249	228050	247.553	ng/ml
11)		Aroclor 1221 (3)	5.331	960891	338.686	ng/ml
12)		Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)		Aroclor 1232 (1)	5.331	960891	406.149	ng/ml
14)		Aroclor 1232 (2)	6.104	4263119	1188.396	ng/ml
15)		Aroclor 1232 (3)	6.186	2218977	1127.410	ng/ml
16)		Aroclor 1232 (4)	6.343	2027954	1334.757	ng/ml
17)		Aroclor 1232 (5)	6.565	2371655	1228.589	ng/ml
18)		Aroclor 1232 (6)	6.691	1600685	1016.333	ng/ml
19)		Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)		Aroclor 1242 (1)	5.692	2167914	615.740	ng/ml
21)		Aroclor 1242 (2)	6.104	4263119	594.249	ng/ml
22)		Aroclor 1242 (3)	6.186	2218977	603.656	ng/ml
23)		Aroclor 1242 (4)	6.343	2027954	619.410	ng/ml
24)		Aroclor 1242 (5)	6.565	2371655	578.639	ng/ml
25)		Aroclor 1242 (6)	6.691	1600685	469.693	ng/ml
26)		Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)		Aroclor 1248 (1)	6.104	4263119	977.313	ng/ml
28)		Aroclor 1248 (2)	6.343	2027954	355.467	ng/ml
29)		Aroclor 1248 (3)	6.565	2371655	366.308	ng/ml
30)		Aroclor 1248 (4)	6.859	437193	59.448	ng/ml
31)		Aroclor 1248 (5)	6.892	1541533	204.296	ng/ml
32)		Aroclor 1248 (6)	7.379	3600958	877.556	ng/ml
33)		Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)		Aroclor 1254 (1)	6.892	1541533	173.978	ng/ml
35)		Aroclor 1254 (2)	7.003	1727978	155.924	ng/ml
36)		Aroclor 1254 (3)	7.379	3600958	216.414	ng/ml
37)		Aroclor 1254 (4)	7.539	493112	46.398	ng/ml
38)		Aroclor 1254 (5)	7.918	4741195	409.286	ng/ml
39)		Aroclor 1254 (6)	8.209	496755	133.151	ng/ml
40)		Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)		Aroclor 1260 (1)	7.491	4925031	484.176	ng/ml
42)		Aroclor 1260 (2)	7.624	5934557	469.425	ng/ml
43)		Aroclor 1260 (3)	8.179	4412570	464.332	ng/ml
44)		Aroclor 1260 (4)	8.350	11073732	492.256	ng/ml
45)		Aroclor 1260 (5)	8.649	7091789	466.612	ng/ml
46)		Aroclor 1260 (6)	9.036	2777450	452.436	ng/ml
47)		Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0C02025\
Data File : ECD2F012.D
Signal(s) : ECD1A.CH
Acq On : 02 Mar 2020 10:50
Operator : MJB / KAK
Sample : 0C02025-CCV2
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 02 11:30:09 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

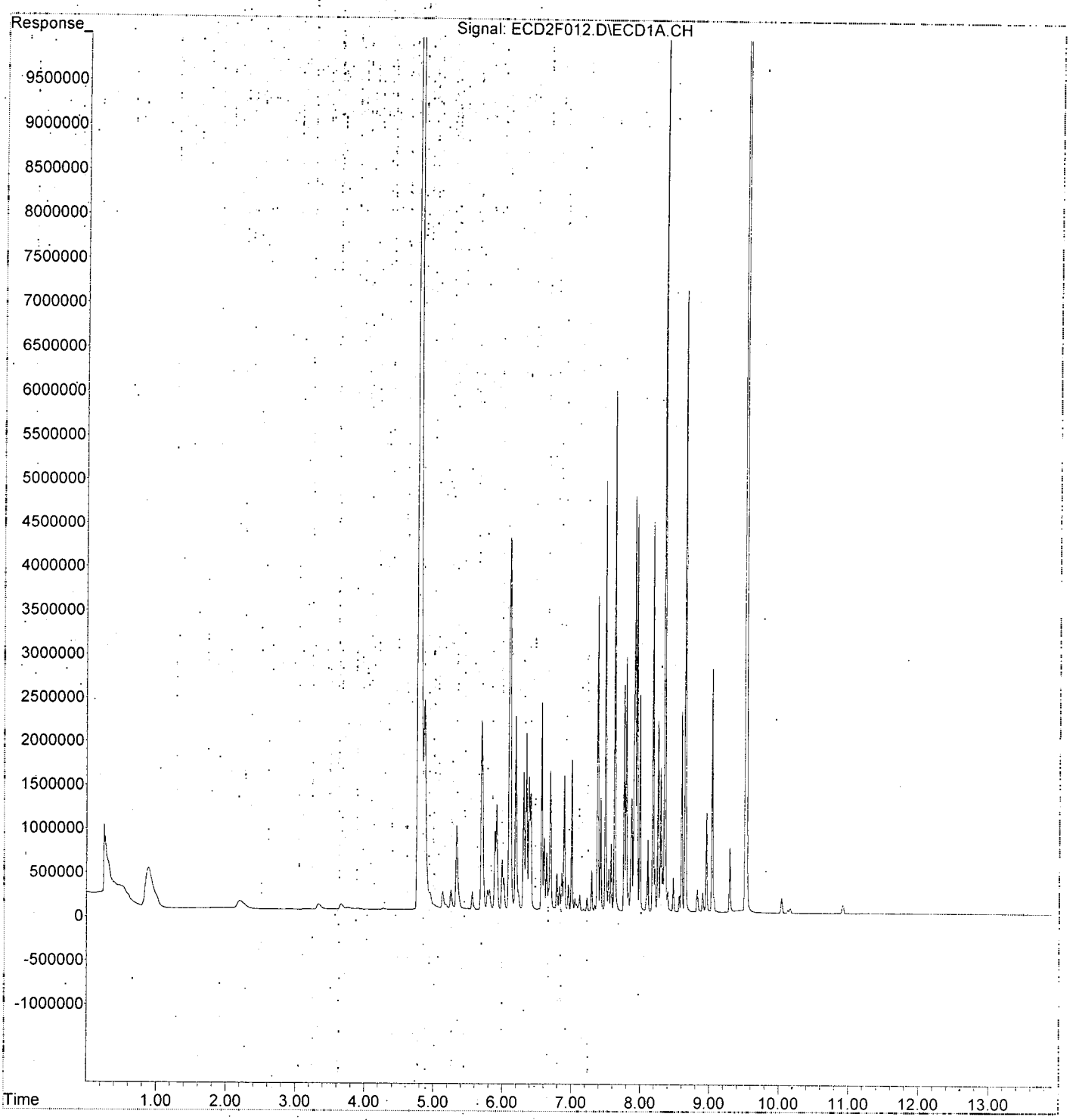
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	7.624	5934557	552.335 ng/ml
49)	Aroclor 1262 (2)	7.948	4545336	296.669 ng/ml
50)	Aroclor 1262 (3)	8.179	4412570	345.658 ng/ml
51)	Aroclor 1262 (4)	8.350	11073732	391.254 ng/ml
52)	Aroclor 1262 (5)	8.649	7091789	392.382 ng/ml
53)	Aroclor 1262 (6)	9.036	2777450	306.739 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.179	4412570	686.653 ng/ml
56)	Aroclor 1268 (2)	8.596	2289977	77.149 ng/ml
57)	Aroclor 1268 (3)	8.649	7091789	283.919 ng/ml
58)	Aroclor 1268 (4)	8.823	260041	11.275 ng/ml
59)	Aroclor 1268 (5)	9.036	2777450	301.568 ng/ml
60)	Aroclor 1268 (6)	9.292	743667	11.466 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\0C02025\
Data File : ECD2F012.D
Signal(s) : ECD1A.CH
Acq On : 02 Mar 2020 10:50
Operator : MJB / KAK
Sample : 0C02025-CCV2
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 02 11:30:09 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0C02025\
Data File : ECD2F013.D
Signal(s) : ECD1A.CH
Acq On : 02 Mar 2020 11:08
Operator : MJB / KAK
Sample : 0C02025-CCB2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 02 11:30:38 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

3/12/20

clear

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
1)	S	TCMX (S)	4.781	6790513	86.033	ng/ml
62)	S	DCBP (S)	9.524	13306079	97.954	ng/ml
		Target Compounds				
2)		Aroclor 1016 (1)	5.689	6217	1.349	ng/ml
3)		Aroclor 1016 (2)	6.122	8765	0.996	ng/ml
4)		Aroclor 1016 (3)	6.178	3193	0.667	ng/ml
5)		Aroclor 1016 (4)	6.344	2894	0.653	ng/ml
6)		Aroclor 1016 (5)	6.565	2811	0.550	ng/ml
7)		Aroclor 1016 (6)	6.696	2128	0.576	ng/ml
8)		Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)		Aroclor 1221 (1)	5.128	17324	12.707	ng/ml
10)		Aroclor 1221 (2)	5.252	15286	16.593	ng/ml
11)		Aroclor 1221 (3)	5.329	13352	4.706	ng/ml
12)		Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)		Aroclor 1232 (1)	5.329	13352	5.644	ng/ml
14)		Aroclor 1232 (2)	6.087	3889	1.084	ng/ml
15)		Aroclor 1232 (3)	6.178	3193	1.622	ng/ml
16)		Aroclor 1232 (4)	6.344	2894	1.905	ng/ml
17)		Aroclor 1232 (5)	6.565	2811	1.456	ng/ml
18)		Aroclor 1232 (6)	6.696	2128	1.351	ng/ml
19)		Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)		Aroclor 1242 (1)	5.689	6217	1.766	ng/ml
21)		Aroclor 1242 (2)	6.122	8765	1.222	ng/ml
22)		Aroclor 1242 (3)	6.178	3193	0.869	ng/ml
23)		Aroclor 1242 (4)	6.344	2894	0.884	ng/ml
24)		Aroclor 1242 (5)	6.565	2811	0.686	ng/ml
25)		Aroclor 1242 (6)	6.696	2128	0.624	ng/ml
26)		Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)		Aroclor 1248 (1)	6.122	8765	2.009	ng/ml
28)		Aroclor 1248 (2)	6.344	2894	0.507	ng/ml
29)		Aroclor 1248 (3)	6.565	2811	0.434	ng/ml
30)		Aroclor 1248 (4)	6.860	1656	0.225	ng/ml
31)		Aroclor 1248 (5)	6.897	1628	0.216	ng/ml
32)		Aroclor 1248 (6)	7.376	1181	0.288	ng/ml
33)		Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)		Aroclor 1254 (1)	6.897	1628	0.184	ng/ml
35)		Aroclor 1254 (2)	7.005	826	0.074	ng/ml
36)		Aroclor 1254 (3)	7.376	1181	0.071	ng/ml
37)		Aroclor 1254 (4)	7.535	1988	0.187	ng/ml
38)		Aroclor 1254 (5)	7.929	4372	0.377	ng/ml
39)		Aroclor 1254 (6)	8.211	430	0.115	ng/ml
40)		Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)		Aroclor 1260 (1)	7.495	2154	0.212	ng/ml
42)		Aroclor 1260 (2)	7.627	2291	0.181	ng/ml
43)		Aroclor 1260 (3)	8.179	1089	0.115	ng/ml
44)		Aroclor 1260 (4)	8.348	12301	0.547	ng/ml
45)		Aroclor 1260 (5)	8.650	3436	0.226	ng/ml
46)		Aroclor 1260 (6)	9.037	4829	0.787	ng/ml
47)		Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0C02025\
Data File : ECD2F013.D
Signal(s) : ECD1A.CH
Acq On : 02 Mar 2020 11:08
Operator : MJB / KAK
Sample : 0C02025-CCB2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 02 11:30:38 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

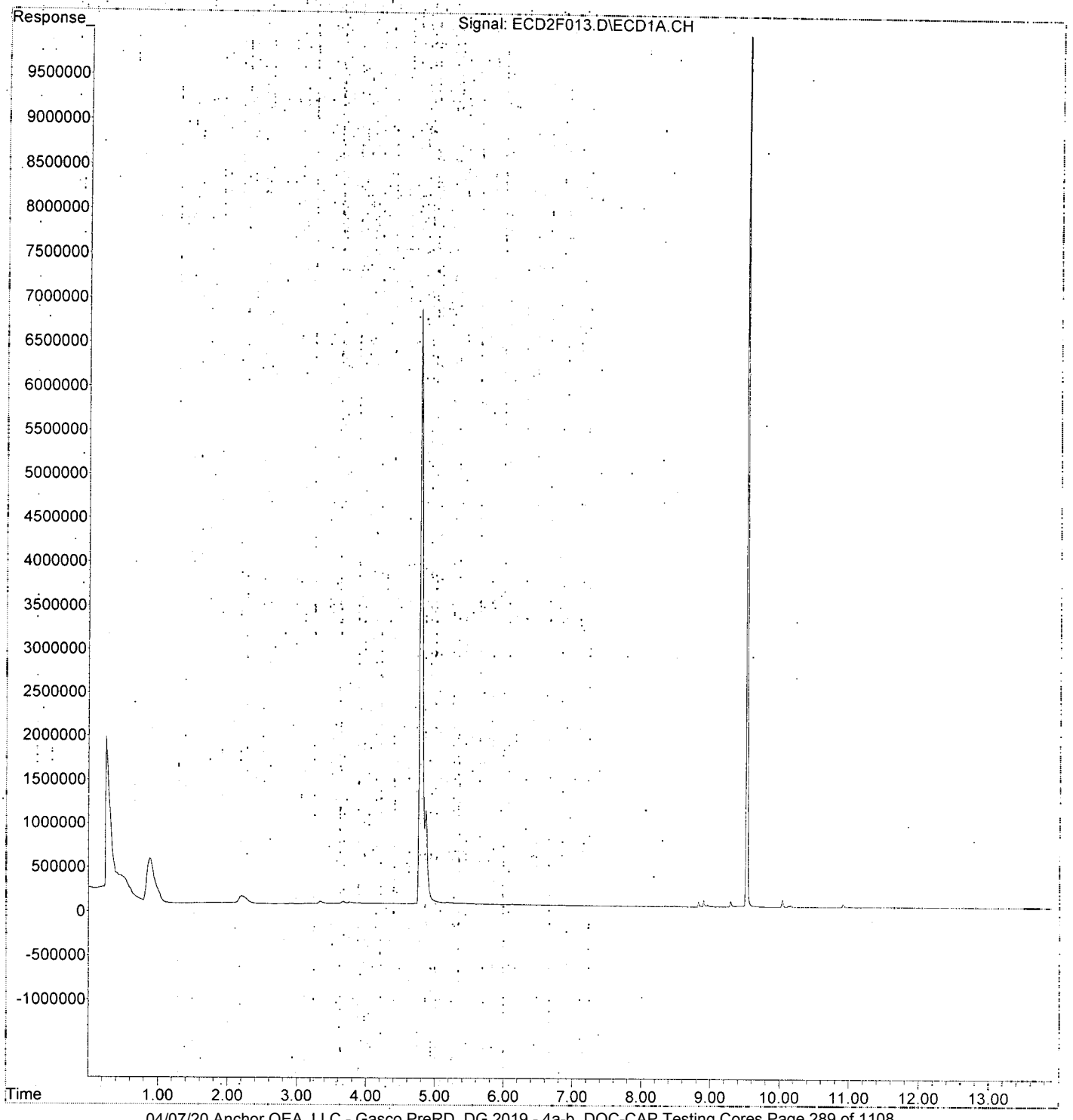
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	7.627	2291	0.213 ng/ml
49)	Aroclor 1262 (2)	7.947	1638	0.107 ng/ml
50)	Aroclor 1262 (3)	8.179	1089	0.085 ng/ml
51)	Aroclor 1262 (4)	8.348	12301	0.435 ng/ml
52)	Aroclor 1262 (5)	8.650	3436	0.190 ng/ml
53)	Aroclor 1262 (6)	9.037	4829	0.533 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.179	1089	0.169 ng/ml
56)	Aroclor 1268 (2)	8.600	1764	0.059 ng/ml
57)	Aroclor 1268 (3)	8.650	3436	0.138 ng/ml
58)	Aroclor 1268 (4)	8.829	57657	2.500 ng/ml
59)	Aroclor 1268 (5)	9.037	4829	0.524 ng/ml
60)	Aroclor 1268 (6)	9.294	69558	1.072 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\0C02025\
Data File : ECD2F013.D
Signal(s) : ECD1A.CH
Acq On : 02 Mar 2020 11:08
Operator : MJB / KAK
Sample : 0C02025-CCB2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 02 11:30:38 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0C02025\
Data File : ECD2F014.D
Signal(s) : ECD1A.CH
Acq On : 02 Mar 2020 12:41
Operator : MJB / KAK
Sample : 0020917-BLK1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 02 15:33:03 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

3/12/20

Clean

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
1) S	TCMX (S)	4.794	12694226	160.831 ng/ml
62) S	DCBP (S)	9.535	29906157	220.157 ng/ml
	Target Compounds			
2)	Aroclor 1016 (1)	5.702	7372	1.600 ng/ml
3)	Aroclor 1016 (2)	6.112	5342	0.607 ng/ml
4)	Aroclor 1016 (3)	6.192	3182	0.665 ng/ml
5)	Aroclor 1016 (4)	6.338	2541	0.573 ng/ml
6)	Aroclor 1016 (5)	6.574	3386	0.662 ng/ml
7)	Aroclor 1016 (6)	6.700	2856	0.772 ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9)	Aroclor 1221 (1)	5.145	268666	197.068 ng/ml
10)	Aroclor 1221 (2)	5.283	20568	22.327 ng/ml
11)	Aroclor 1221 (3)	5.333	19293	6.800 ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13)	Aroclor 1232 (1)	5.333	19293	8.155 ng/ml
14)	Aroclor 1232 (2)	6.112	5342	1.489 ng/ml
15)	Aroclor 1232 (3)	6.192	3182	1.617 ng/ml
16)	Aroclor 1232 (4)	6.338	2541	1.672 ng/ml
17)	Aroclor 1232 (5)	6.574	3386	1.754 ng/ml
18)	Aroclor 1232 (6)	6.700	2856	1.813 ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20)	Aroclor 1242 (1)	5.702	7372	2.094 ng/ml
21)	Aroclor 1242 (2)	6.112	5342	0.745 ng/ml
22)	Aroclor 1242 (3)	6.192	3182	0.866 ng/ml
23)	Aroclor 1242 (4)	6.338	2541	0.776 ng/ml
24)	Aroclor 1242 (5)	6.574	3386	0.826 ng/ml
25)	Aroclor 1242 (6)	6.700	2856	0.838 ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27)	Aroclor 1248 (1)	6.112	5342	1.225 ng/ml
28)	Aroclor 1248 (2)	6.338	2541	0.445 ng/ml
29)	Aroclor 1248 (3)	6.574	3386	0.523 ng/ml
30)	Aroclor 1248 (4)	6.864	1675	0.228 ng/ml
31)	Aroclor 1248 (5)	6.900	2169	0.287 ng/ml
32)	Aroclor 1248 (6)	7.384	12764	3.111 ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34)	Aroclor 1254 (1)	6.900	2169	0.245 ng/ml
35)	Aroclor 1254 (2)	7.013	1668	0.150 ng/ml
36)	Aroclor 1254 (3)	7.384	12764	0.767 ng/ml
37)	Aroclor 1254 (4)	7.543	9316	0.877 ng/ml
38)	Aroclor 1254 (5)	7.935	8894	0.768 ng/ml
39)	Aroclor 1254 (6)	8.210	953	0.256 ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41)	Aroclor 1260 (1)	7.497	12080	1.188 ng/ml
42)	Aroclor 1260 (2)	7.630	7463	0.590 ng/ml
43)	Aroclor 1260 (3)	8.186	2210	0.233 ng/ml
44)	Aroclor 1260 (4)	8.354	16217	0.721 ng/ml
45)	Aroclor 1260 (5)	8.655	4225	0.278 ng/ml
46)	Aroclor 1260 (6)	8.998f	14629	2.383 ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0C02025\
Data File : ECD2F014.D
Signal(s) : ECD1A.CH
Acq On : 02 Mar 2020 12:41
Operator : MJB / KAK
Sample : 0020917-BLK1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 02 15:33:03 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

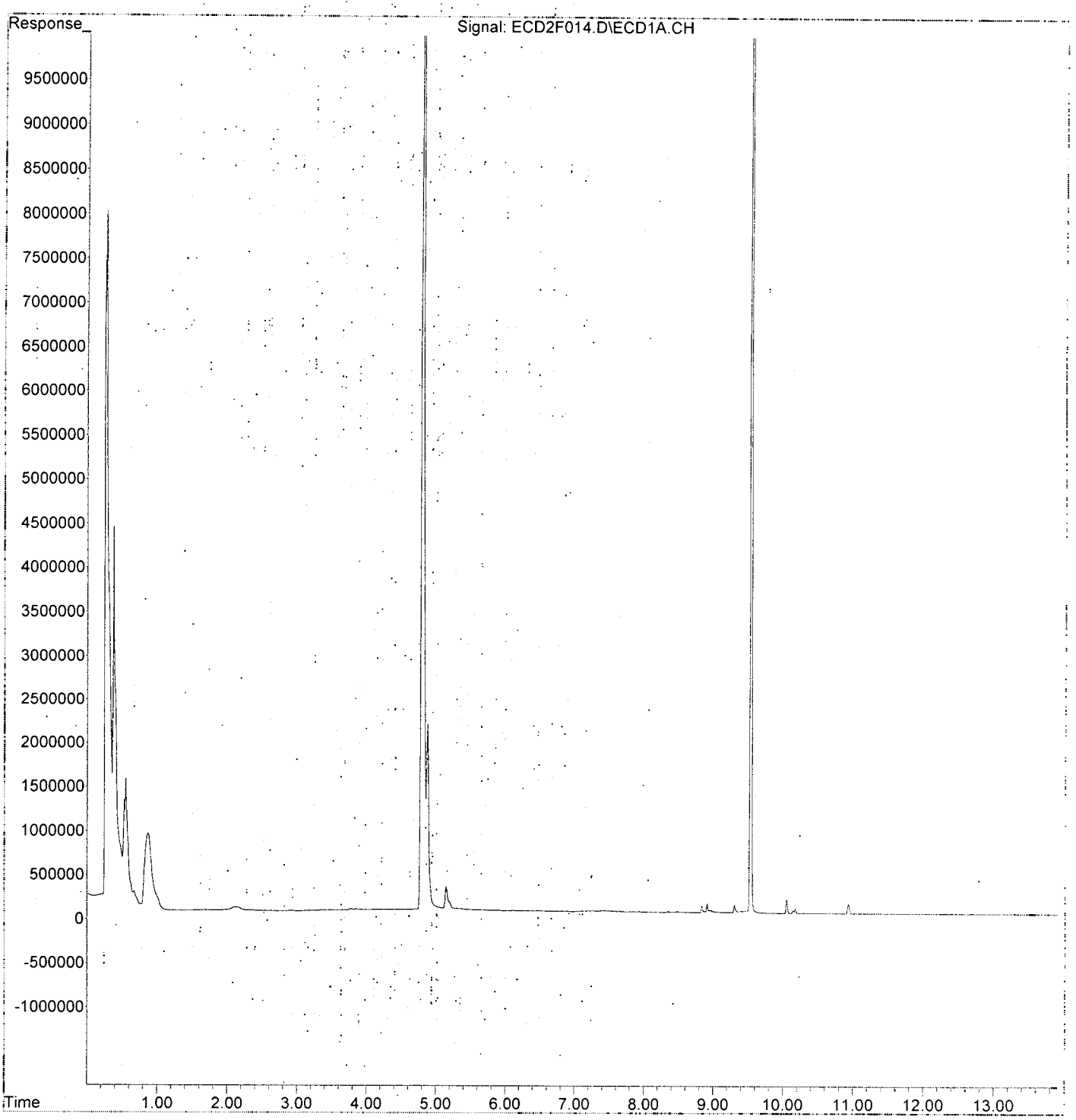
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	7.630	7463	0.695 ng/ml
49)	Aroclor 1262 (2)	7.956	3284	0.214 ng/ml
50)	Aroclor 1262 (3)	8.186	2210	0.173 ng/ml
51)	Aroclor 1262 (4)	8.354	16217	0.573 ng/ml
52)	Aroclor 1262 (5)	8.655	4225	0.234 ng/ml
53)	Aroclor 1262 (6)	8.998f	14629	1.616 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.166	1320	0.205 ng/ml
56)	Aroclor 1268 (2)	8.601	4026	0.136 ng/ml
57)	Aroclor 1268 (3)	8.655	4225	0.169 ng/ml
58)	Aroclor 1268 (4)	8.836	84605	3.668 ng/ml
59)	Aroclor 1268 (5)	8.998f	14629	1.588 ng/ml
60)	Aroclor 1268 (6)	9.304	96786	1.492 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\0C02025\
Data File : ECD2F014.D
Signal(s) : ECD1A.CH
Acq On : 02 Mar 2020 12:41
Operator : MJB / KAK
Sample : 0020917-BLK1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 02 15:33:03 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0C02025\
Data File : ECD2F015.D
Signal(s) : ECD1A.CH
Acq On : 02 Mar 2020 12:58
Operator : MJB / KAK
Sample : 0020917-BS1
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 02 15:33:24 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

3/12/20

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	4.786	13543708	171.594	ng/ml
62) S	DCBP (S)	9.526	33200678	244.410	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	5.695	3917838	850.272	ng/ml
3)	Aroclor 1016 (2)	6.106	8586709	975.736	ng/ml
4)	Aroclor 1016 (3)	6.188	4138579	864.592	ng/ml
5)	Aroclor 1016 (4)	6.345	4039905	911.483	ng/ml
6)	Aroclor 1016 (5)	6.567	4381129	856.613	ng/ml
7)	Aroclor 1016 (6)	6.694	3190617	863.106	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.137	586620	430.289	ng/ml
10)	Aroclor 1221 (2)	5.253	369657	401.270	ng/ml
11)	Aroclor 1221 (3)	5.335	1697989	598.493	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.335	1697989	717.705	ng/ml
14)	Aroclor 1232 (2)	6.106	8586709	2393.650	ng/ml
15)	Aroclor 1232 (3)	6.188	4138579	2102.715	ng/ml
16)	Aroclor 1232 (4)	6.345	4039905	2658.981	ng/ml
17)	Aroclor 1232 (5)	6.567	4381129	2269.558	ng/ml
18)	Aroclor 1232 (6)	6.694	3190617	2025.838	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	5.695	3917838	1112.760	ng/ml
21)	Aroclor 1242 (2)	6.106	8586709	1196.927	ng/ml
22)	Aroclor 1242 (3)	6.188	4138579	1125.869	ng/ml
23)	Aroclor 1242 (4)	6.345	4039905	1233.933	ng/ml
24)	Aroclor 1242 (5)	6.567	4381129	1068.912	ng/ml
25)	Aroclor 1242 (6)	6.694	3190617	936.230	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.106	8586709	1968.489	ng/ml
28)	Aroclor 1248 (2)	6.345	4039905	708.129	ng/ml
29)	Aroclor 1248 (3)	6.567	4381129	676.677	ng/ml
30)	Aroclor 1248 (4)	6.861	923141	125.525	ng/ml
31)	Aroclor 1248 (5)	6.894	3259478	431.972	ng/ml
32)	Aroclor 1248 (6)	7.381	7666966	1868.445	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	6.894	3259478	367.866	ng/ml
35)	Aroclor 1254 (2)	7.004	3852488	347.630	ng/ml
36)	Aroclor 1254 (3)	7.381	7666966	460.776	ng/ml
37)	Aroclor 1254 (4)	7.541	1065497	100.255	ng/ml
38)	Aroclor 1254 (5)	7.920	10313582	890.324	ng/ml
39)	Aroclor 1254 (6)	8.211	990710	265.551	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	7.493	10825039	1064.200	ng/ml
42)	Aroclor 1260 (2)	7.627	14488511	1146.046	ng/ml
43)	Aroclor 1260 (3)	8.181	9992011	1051.453	ng/ml
44)	Aroclor 1260 (4)	8.352	26852743	1193.675	ng/ml
45)	Aroclor 1260 (5)	8.651	17108448	1125.668	ng/ml
46)	Aroclor 1260 (6)	9.039	6773017	1103.299	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0C02025\
Data File : ECD2F015.D
Signal(s) : ECD1A.CH
Acq On : 02 Mar 2020 12:58
Operator : MJB / KAK
Sample : 0020917-BS1
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 02 15:33:24 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

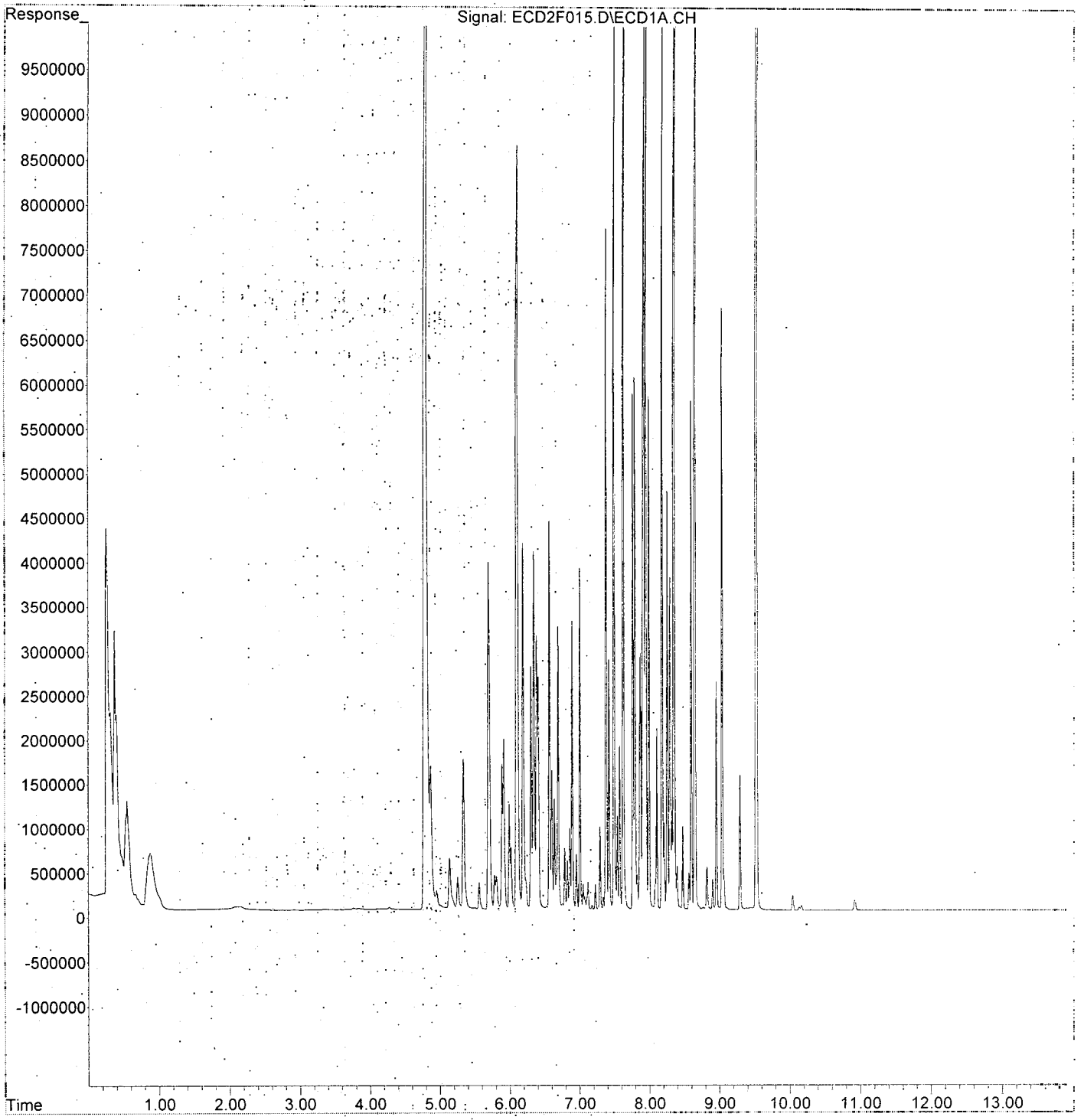
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	7.627	14488511	1348.460	ng/ml
49)	Aroclor 1262 (2)	7.950	10659764	695.752	ng/ml
50)	Aroclor 1262 (3)	8.181	9992011	782.722	ng/ml
51)	Aroclor 1262 (4)	8.352	26852743	948.753	ng/ml
52)	Aroclor 1262 (5)	8.651	17108448	946.593	ng/ml
53)	Aroclor 1262 (6)	9.039	6773017	748.006	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	8.181	9992011	1554.887	ng/ml
56)	Aroclor 1268 (2)	8.599	5747840	193.643	ng/ml
57)	Aroclor 1268 (3)	8.651	17108448	684.934	ng/ml
58)	Aroclor 1268 (4)	8.823	492492	21.354	ng/ml
59)	Aroclor 1268 (5)	9.039	6773017	735.395	ng/ml
60)	Aroclor 1268 (6)	9.294	1521553	23.459	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\0C02025\
Data File : ECD2F015.D
Signal(s) : ECD1A.CH
Acq On : 02 Mar 2020 12:58
Operator : MJB / KAK
Sample : 0020917-BS1
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 02 15:33:24 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0C02025\
Data File : ECD2F016.D
Signal(s) : ECD1A.CH
Acq On : 02 Mar 2020 13:16
Operator : MJB / KAK
Sample : A0B0680-01RE1
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 02 15:33:46 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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RR-2

RR-6

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
1)	S TCMX (S)	4.773	22761173	288.376 ng/ml
62)	S DCBP (S)	9.527	16832932	123.917 ng/ml
	Target Compounds			
2)	Aroclor 1016 (1)	5.659	22812668	4950.938 ng/ml
3)	Aroclor 1016 (2)	6.078	81780401	9292.974 ng/ml
4)	Aroclor 1016 (3)	6.194	48329829	10096.597 ng/ml
5)	Aroclor 1016 (4)	6.377	62699845	14146.335 ng/ml
6)	Aroclor 1016 (5)	6.554	72644714	14203.734 ng/ml
7)	Aroclor 1016 (6)	6.633f	78682704	21284.757 ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9)	Aroclor 1221 (1)	5.175f	6432521	4718.296 ng/ml
10)	Aroclor 1221 (2)	5.320f	10960464	11897.813 ng/ml
11)	Aroclor 1221 (3)	5.320	10960464	3863.249 ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13)	Aroclor 1232 (1)	5.320	10960464	4632.764 ng/ml
14)	Aroclor 1232 (2)	6.078	81780401	22797.281 ng/ml
15)	Aroclor 1232 (3)	6.194	48329829	24555.253 ng/ml
16)	Aroclor 1232 (4)	6.377	62699845	41267.727 ng/ml
17)	Aroclor 1232 (5)	6.554	72644714	37632.170 ng/ml
18)	Aroclor 1232 (6)	6.633f	78682704	49958.497 ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20)	Aroclor 1242 (1)	5.659	22812668	6479.344 ng/ml
21)	Aroclor 1242 (2)	6.078	81780401	11399.614 ng/ml
22)	Aroclor 1242 (3)	6.194	48329829	13147.764 ng/ml
23)	Aroclor 1242 (4)	6.377	62699845	19150.795 ng/ml
24)	Aroclor 1242 (5)	6.554	72644714	17723.926 ng/ml
25)	Aroclor 1242 (6)	6.633f	78682704	23088.039 ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27)	Aroclor 1248 (1)	6.078	81780401	18748.023 ng/ml
28)	Aroclor 1248 (2)	6.377	62699845	10990.258 ng/ml
29)	Aroclor 1248 (3)	6.578	74661055	11531.594 ng/ml
30)	Aroclor 1248 (4)	6.832	105323572	14321.485 ng/ml
31)	Aroclor 1248 (5)	6.901	113038521	14980.760 ng/ml
32)	Aroclor 1248 (6)	7.373	7698562	1876.145 ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34)	Aroclor 1254 (1)	6.901	113038521	12757.585 ng/ml
35)	Aroclor 1254 (2)	7.031	147278607	13289.708 ng/ml
36)	Aroclor 1254 (3)	7.373	7698562	462.675 ng/ml
37)	Aroclor 1254 (4)	7.539	2575469	242.333 ng/ml
38)	Aroclor 1254 (5)	7.919	2975148	256.831 ng/ml
39)	Aroclor 1254 (6)	8.209	1103807	295.866 ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41)	Aroclor 1260 (1)	7.492	3926510	386.012 ng/ml
42)	Aroclor 1260 (2)	7.626	4128351	326.554 ng/ml
43)	Aroclor 1260 (3)	8.181	2043805	215.068 ng/ml
44)	Aroclor 1260 (4)	8.352	4056754	180.333 ng/ml
45)	Aroclor 1260 (5)	8.650	2903166	191.017 ng/ml
46)	Aroclor 1260 (6)	9.039	1486474	242.141 ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0C02025\
Data File : ECD2F016.D
Signal(s) : ECD1A.CH
Acq On : 02 Mar 2020 13:16
Operator : MJB / KAK
Sample : A0B0680-01RE1
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 02 15:33:46 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

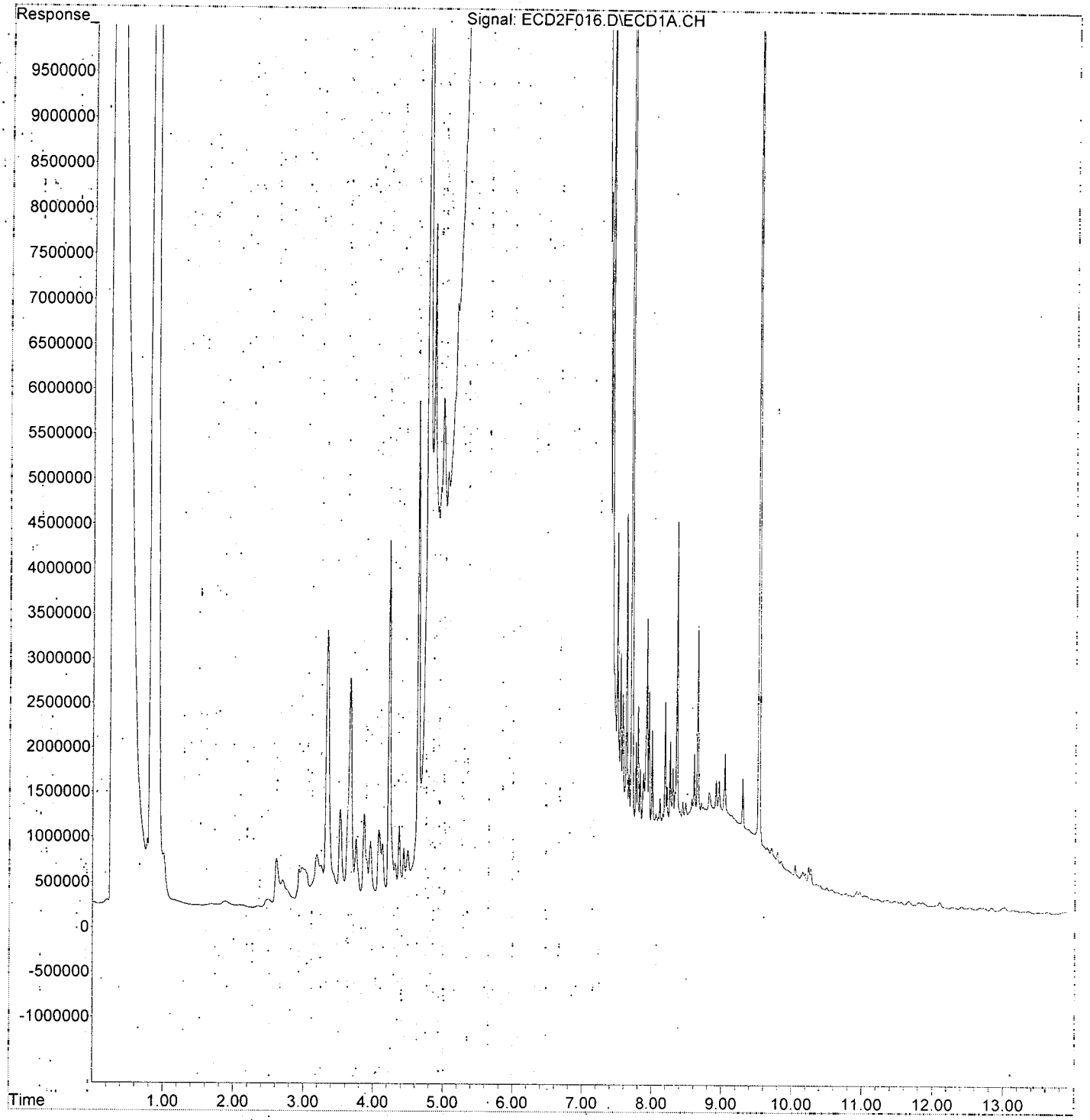
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	7.626	4128351	384.230 ng/ml
49)	Aroclor 1262 (2)	7.950	2166588	141.411 ng/ml
50)	Aroclor 1262 (3)	8.181	2043805	160.101 ng/ml
51)	Aroclor 1262 (4)	8.352	4056754	143.332 ng/ml
52)	Aroclor 1262 (5)	8.650	2903166	160.629 ng/ml
53)	Aroclor 1262 (6)	9.039	1486474	164.165 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.181	2043805	318.043 ng/ml
56)	Aroclor 1268 (2)	8.599	1470212	49.531 ng/ml
57)	Aroclor 1268 (3)	8.650	2903166	116.228 ng/ml
58)	Aroclor 1268 (4)	8.813	1045561	45.335 ng/ml
59)	Aroclor 1268 (5)	9.039	1486474	161.397 ng/ml
60)	Aroclor 1268 (6)	9.294	1214273	18.721 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\0C02025\
Data File : ECD2F016.D
Signal(s) : ECD1A.CH
Acq On : 02 Mar 2020 13:16
Operator : MJB / KAK
Sample : A0B0680-01RE1
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 02 15:33:46 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0C02025\
Data File : ECD2F018.D
Signal(s) : ECD1A.CH
Acq On : 02 Mar 2020 13:51
Operator : MJB / KAK
Sample : 0020917-DUP1@100
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 02 15:34:08 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

3/12/20

RR-1

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
1)	S TCMX (S)	4.778	90042	1.141 ng/ml
62)	S DCBP (S)	9.524	161461	1.189 ng/ml
	Target Compounds			
2)	Aroclor 1016 (1)	5.692	11712	2.542 ng/ml
3)	Aroclor 1016 (2)	6.102	15158	1.722 ng/ml
4)	Aroclor 1016 (3)	6.186	7482	1.563 ng/ml
5)	Aroclor 1016 (4)	6.340	11275	2.544 ng/ml
6)	Aroclor 1016 (5)	6.575	19145	3.743 ng/ml
7)	Aroclor 1016 (6)	6.691	12049	3.260 ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9)	Aroclor 1221 (1)	5.138	11942	8.759 ng/ml
10)	Aroclor 1221 (2)	5.251	12991	14.102 ng/ml
11)	Aroclor 1221 (3)	5.327	21375	7.534 ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13)	Aroclor 1232 (1)	5.327	21375	9.035 ng/ml
14)	Aroclor 1232 (2)	6.102	15158	4.225 ng/ml
15)	Aroclor 1232 (3)	6.186	7482	3.801 ng/ml
16)	Aroclor 1232 (4)	6.340	11275	7.421 ng/ml
17)	Aroclor 1232 (5)	6.575	19145	9.918 ng/ml
18)	Aroclor 1232 (6)	6.691	12049	7.651 ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20)	Aroclor 1242 (1)	5.692	11712	3.326 ng/ml
21)	Aroclor 1242 (2)	6.102	15158	2.113 ng/ml
22)	Aroclor 1242 (3)	6.186	7482	2.035 ng/ml
23)	Aroclor 1242 (4)	6.340	11275	3.444 ng/ml
24)	Aroclor 1242 (5)	6.575	19145	4.671 ng/ml
25)	Aroclor 1242 (6)	6.691	12049	3.536 ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27)	Aroclor 1248 (1)	6.102	15158	3.475 ng/ml
28)	Aroclor 1248 (2)	6.340	11275	1.976 ng/ml
29)	Aroclor 1248 (3)	6.575	19145	2.957 ng/ml
30)	Aroclor 1248 (4)	6.856	6131	0.834 ng/ml
31)	Aroclor 1248 (5)	6.895	20411	2.705 ng/ml
32)	Aroclor 1248 (6)	7.375	26500	6.458 ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34)	Aroclor 1254 (1)	6.895	20411	2.304 ng/ml
35)	Aroclor 1254 (2)	7.025	173721	15.676 ng/ml
36)	Aroclor 1254 (3)	7.375	26500	1.593 ng/ml
37)	Aroclor 1254 (4)	7.538	17283	1.626 ng/ml
38)	Aroclor 1254 (5)	7.918	23700	2.046 ng/ml
39)	Aroclor 1254 (6)	8.209	4770	1.279 ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41)	Aroclor 1260 (1)	7.492	23581	2.318 ng/ml
42)	Aroclor 1260 (2)	7.626	33398	2.642 ng/ml
43)	Aroclor 1260 (3)	8.180	13060	1.374 ng/ml
44)	Aroclor 1260 (4)	8.349	27680	1.230 ng/ml
45)	Aroclor 1260 (5)	8.648	21258	1.399 ng/ml
46)	Aroclor 1260 (6)	9.037	16509	2.689 ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0C02025\
Data File : ECD2F018.D
Signal(s) : ECD1A.CH
Acq On : 02 Mar 2020 13:51
Operator : MJB / KAK
Sample : 0020917-DUP1@100
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 02 15:34:08 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

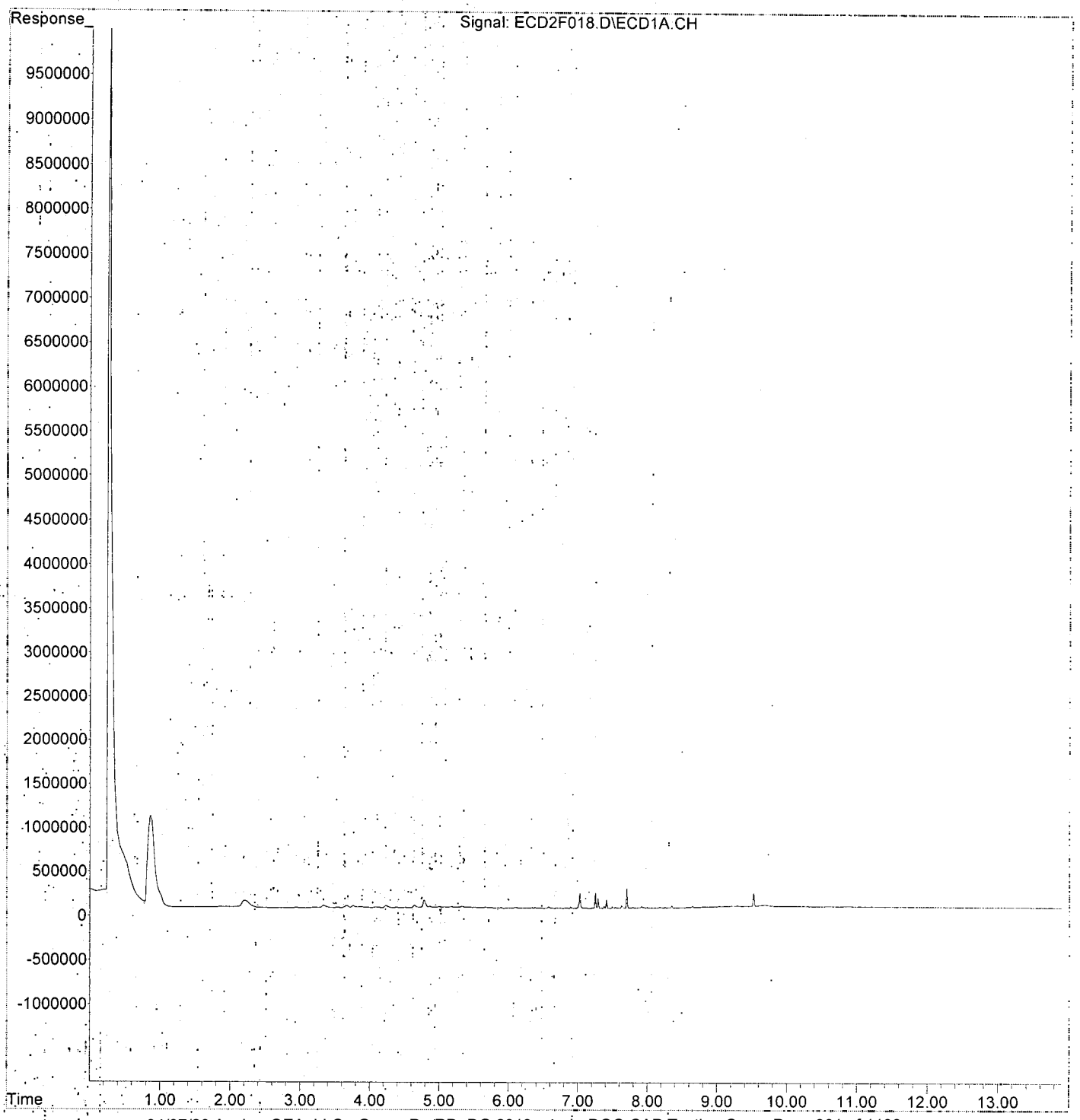
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	7.626	33398	3.108 ng/ml
49)	Aroclor 1262 (2)	7.948	15988	1.044 ng/ml
50)	Aroclor 1262 (3)	8.180	13060	1.023 ng/ml
51)	Aroclor 1262 (4)	8.349	27680	0.978 ng/ml
52)	Aroclor 1262 (5)	8.648	21258	1.176 ng/ml
53)	Aroclor 1262 (6)	9.037	16509	1.823 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.180	13060	2.032 ng/ml
56)	Aroclor 1268 (2)	8.596	9701	0.327 ng/ml
57)	Aroclor 1268 (3)	8.648	21258	0.851 ng/ml
58)	Aroclor 1268 (4)	8.824	9606	0.416 ng/ml
59)	Aroclor 1268 (5)	9.037	16509	1.792 ng/ml
60)	Aroclor 1268 (6)	9.292	19473	0.300 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\0C02025\
Data File : ECD2F018.D
Signal(s) : ECD1A.CH
Acq On : 02 Mar 2020 13:51
Operator : MJB / KAK
Sample : 0020917-DUP1@100
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 02 15:34:08 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0C02025\
Data File : ECD2F024.D
Signal(s) : ECD1A.CH
Acq On : 02 Mar 2020 15:37
Operator : MJB / KAK
Sample : A0B0680-01RE2@100
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 02 16:02:06 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

3/12/20

RR-1

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
1)	S	TCMX (S)	4.780	126115	1.598	ng/ml
62)	S	DCBP (S)	9.525	232846	1.714	ng/ml
		Target Compounds				
2)		Aroclor 1016 (1)	5.691	12104	2.627	ng/ml
3)		Aroclor 1016 (2)	6.102	16925	1.923	ng/ml
4)		Aroclor 1016 (3)	6.184	9109	1.903	ng/ml
5)		Aroclor 1016 (4)	6.341	15085	3.403	ng/ml
6)		Aroclor 1016 (5)	6.575	25379	4.962	ng/ml
7)		Aroclor 1016 (6)	6.691	15841	4.285	ng/ml
8)		Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)		Aroclor 1221 (1)	5.135	12652	9.280	ng/ml
10)		Aroclor 1221 (2)	5.244	12989	14.100	ng/ml
11)		Aroclor 1221 (3)	5.327	24788	8.737	ng/ml
12)		Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)		Aroclor 1232 (1)	5.327	24788	10.477	ng/ml
14)		Aroclor 1232 (2)	6.102	16925	4.718	ng/ml
15)		Aroclor 1232 (3)	6.184	9109	4.628	ng/ml
16)		Aroclor 1232 (4)	6.341	15085	9.928	ng/ml
17)		Aroclor 1232 (5)	6.575	25379	13.147	ng/ml
18)		Aroclor 1232 (6)	6.691	15841	10.058	ng/ml
19)		Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)		Aroclor 1242 (1)	5.691	12104	3.438	ng/ml
21)		Aroclor 1242 (2)	6.102	16925	2.359	ng/ml
22)		Aroclor 1242 (3)	6.184	9109	2.478	ng/ml
23)		Aroclor 1242 (4)	6.341	15085	4.607	ng/ml
24)		Aroclor 1242 (5)	6.575	25379	6.192	ng/ml
25)		Aroclor 1242 (6)	6.691	15841	4.648	ng/ml
26)		Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)		Aroclor 1248 (1)	6.102	16925	3.880	ng/ml
28)		Aroclor 1248 (2)	6.341	15085	2.644	ng/ml
29)		Aroclor 1248 (3)	6.575	25379	3.920	ng/ml
30)		Aroclor 1248 (4)	6.857	8704	1.184	ng/ml
31)		Aroclor 1248 (5)	6.894	28173	3.734	ng/ml
32)		Aroclor 1248 (6)	7.375	42225	10.290	ng/ml
33)		Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)		Aroclor 1254 (1)	6.894	28173	3.180	ng/ml
35)		Aroclor 1254 (2)	7.025	195809	17.669	ng/ml
36)		Aroclor 1254 (3)	7.375	42225	2.538	ng/ml
37)		Aroclor 1254 (4)	7.538	27592	2.596	ng/ml
38)		Aroclor 1254 (5)	7.918	43908	3.790	ng/ml
39)		Aroclor 1254 (6)	8.209	24473	6.560	ng/ml
40)		Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)		Aroclor 1260 (1)	7.491	42380	4.166	ng/ml
42)		Aroclor 1260 (2)	7.625	55579	4.396	ng/ml
43)		Aroclor 1260 (3)	8.180	36438	3.834	ng/ml
44)		Aroclor 1260 (4)	8.351	62676	2.786	ng/ml
45)		Aroclor 1260 (5)	8.648	55113	3.626	ng/ml
46)		Aroclor 1260 (6)	9.036	36391	5.928	ng/ml
47)		Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

S-05

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0C02025\
Data File : ECD2F024.D
Signal(s) : ECD1A.CH
Acq On : 02 Mar 2020 15:37
Operator : MJB / KAK
Sample : A0B0680-01RE2@100
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 02 16:02:06 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

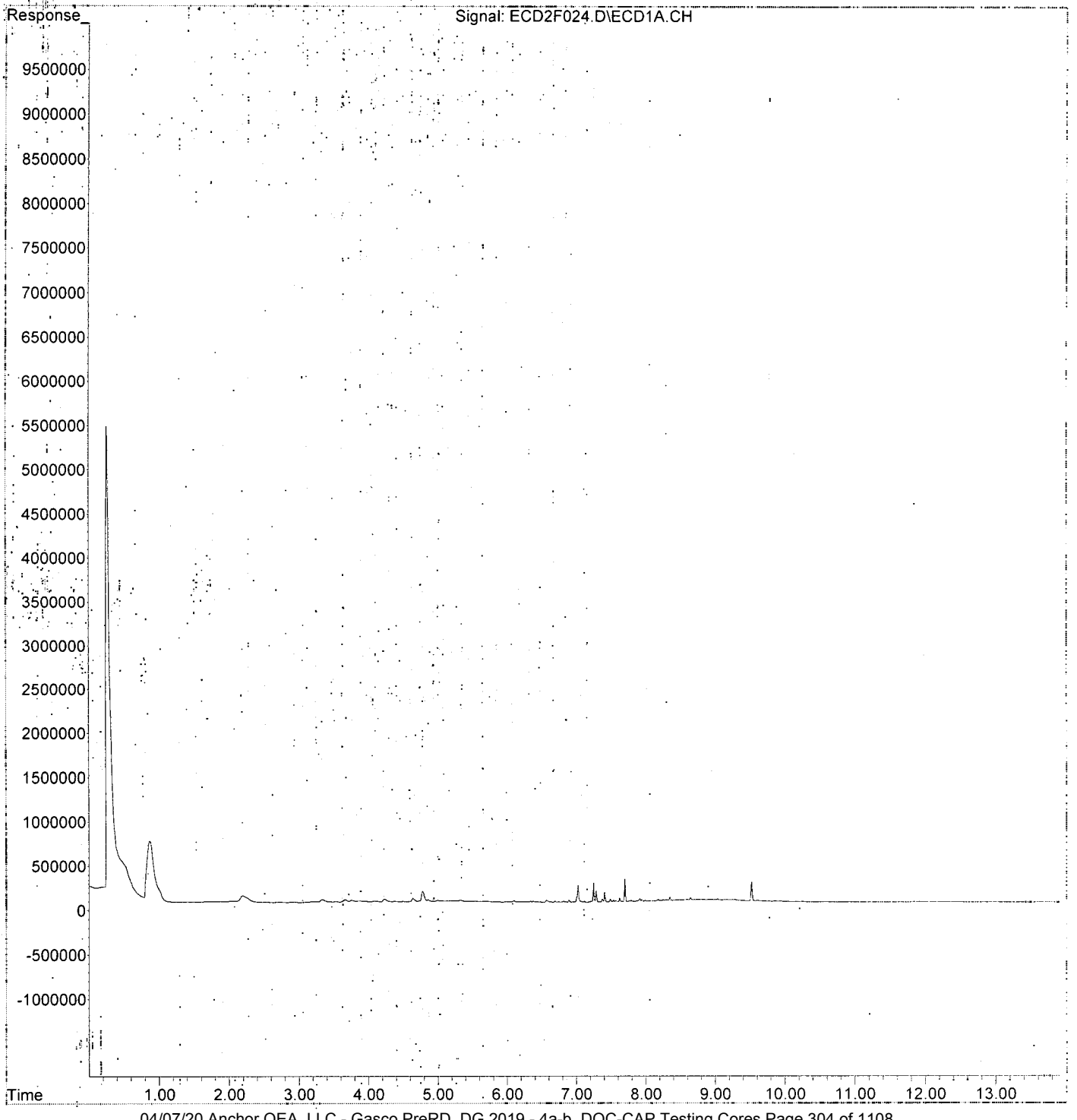
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	7.625	55579	5.173 ng/ml
49)	Aroclor 1262 (2)	7.948	35687	2.329 ng/ml
50)	Aroclor 1262 (3)	8.180	36438	2.854 ng/ml
51)	Aroclor 1262 (4)	8.351	62676	2.214 ng/ml
52)	Aroclor 1262 (5)	8.648	55113	3.049 ng/ml
53)	Aroclor 1262 (6)	9.036	36391	4.019 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.180	36438	5.670 ng/ml
56)	Aroclor 1268 (2)	8.597	37820	1.274 ng/ml
57)	Aroclor 1268 (3)	8.648	55113	2.206 ng/ml
58)	Aroclor 1268 (4)	8.812	33171	1.438 ng/ml
59)	Aroclor 1268 (5)	9.036	36391	3.951 ng/ml
60)	Aroclor 1268 (6)	9.292	31521	0.486 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\0C02025\
Data File : ECD2F024.D
Signal(s) : ECD1A.CH
Acq On : 02 Mar 2020 15:37
Operator : MJB / KAK
Sample : A0B0680-01RE2@100
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 02 16:02:06 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0C02025\
Data File : ECD2F026.D
Signal(s) : ECD1A.CH
Acq On : 02 Mar 2020 16:12
Operator : MJB / KAK
Sample : 0C02025-CCV3
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 02 16:32:46 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 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)	4.785	18795755	238.135	ng/ml
62)	S DCBP (S)	9.526	39089767	287.763	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	5.693	2162721	469.366	ng/ml
3)	Aroclor 1016 (2)	6.105	4554977	517.597	ng/ml
4)	Aroclor 1016 (3)	6.188	2323255	485.352	ng/ml
5)	Aroclor 1016 (4)	6.344	2165582	488.598	ng/ml
6)	Aroclor 1016 (5)	6.566	2581164	504.678	ng/ml
7)	Aroclor 1016 (6)	6.692	1784081	482.618	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.134	209087	153.367	ng/ml
10)	Aroclor 1221 (2)	5.251	228222	247.740	ng/ml
11)	Aroclor 1221 (3)	5.333	937013	330.270	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.333	937013	396.056	ng/ml
14)	Aroclor 1232 (2)	6.105	4554977	1269.755	ng/ml
15)	Aroclor 1232 (3)	6.188	2323255	1180.391	ng/ml
16)	Aroclor 1232 (4)	6.344	2165582	1425.341	ng/ml
17)	Aroclor 1232 (5)	6.566	2581164	1337.121	ng/ml
18)	Aroclor 1232 (6)	6.692	1784081	1132.777	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	5.693	2162721	614.265	ng/ml
21)	Aroclor 1242 (2)	6.105	4554977	634.932	ng/ml
22)	Aroclor 1242 (3)	6.188	2323255	632.024	ng/ml
23)	Aroclor 1242 (4)	6.344	2165582	661.447	ng/ml
24)	Aroclor 1242 (5)	6.566	2581164	629.755	ng/ml
25)	Aroclor 1242 (6)	6.692	1784081	523.507	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.105	4554977	1044.221	ng/ml
28)	Aroclor 1248 (2)	6.344	2165582	379.591	ng/ml
29)	Aroclor 1248 (3)	6.566	2581164	398.667	ng/ml
30)	Aroclor 1248 (4)	6.860	471092	64.057	ng/ml
31)	Aroclor 1248 (5)	6.892	1712968	227.016	ng/ml
32)	Aroclor 1248 (6)	7.380	3864120	941.689	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	6.892	1712968	193.326	ng/ml
35)	Aroclor 1254 (2)	7.003	1843473	166.346	ng/ml
36)	Aroclor 1254 (3)	7.380	3864120	232.229	ng/ml
37)	Aroclor 1254 (4)	7.540	540288	50.837	ng/ml
38)	Aroclor 1254 (5)	7.919	4992766	431.003	ng/ml
39)	Aroclor 1254 (6)	8.210	579888	155.434	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	7.493	4997565	491.306	ng/ml
42)	Aroclor 1260 (2)	7.626	6457826	510.816	ng/ml
43)	Aroclor 1260 (3)	8.181	4958971	521.830	ng/ml
44)	Aroclor 1260 (4)	8.351	12253432	544.697	ng/ml
45)	Aroclor 1260 (5)	8.649	7936016	522.159	ng/ml
46)	Aroclor 1260 (6)	9.038	3171650	516.650	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0C02025\
Data File : ECD2F026.D
Signal(s) : ECD1A.CH
Acq On : 02 Mar 2020 16:12
Operator : MJB / KAK
Sample : 0C02025-CCV3
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 02 16:32:46 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

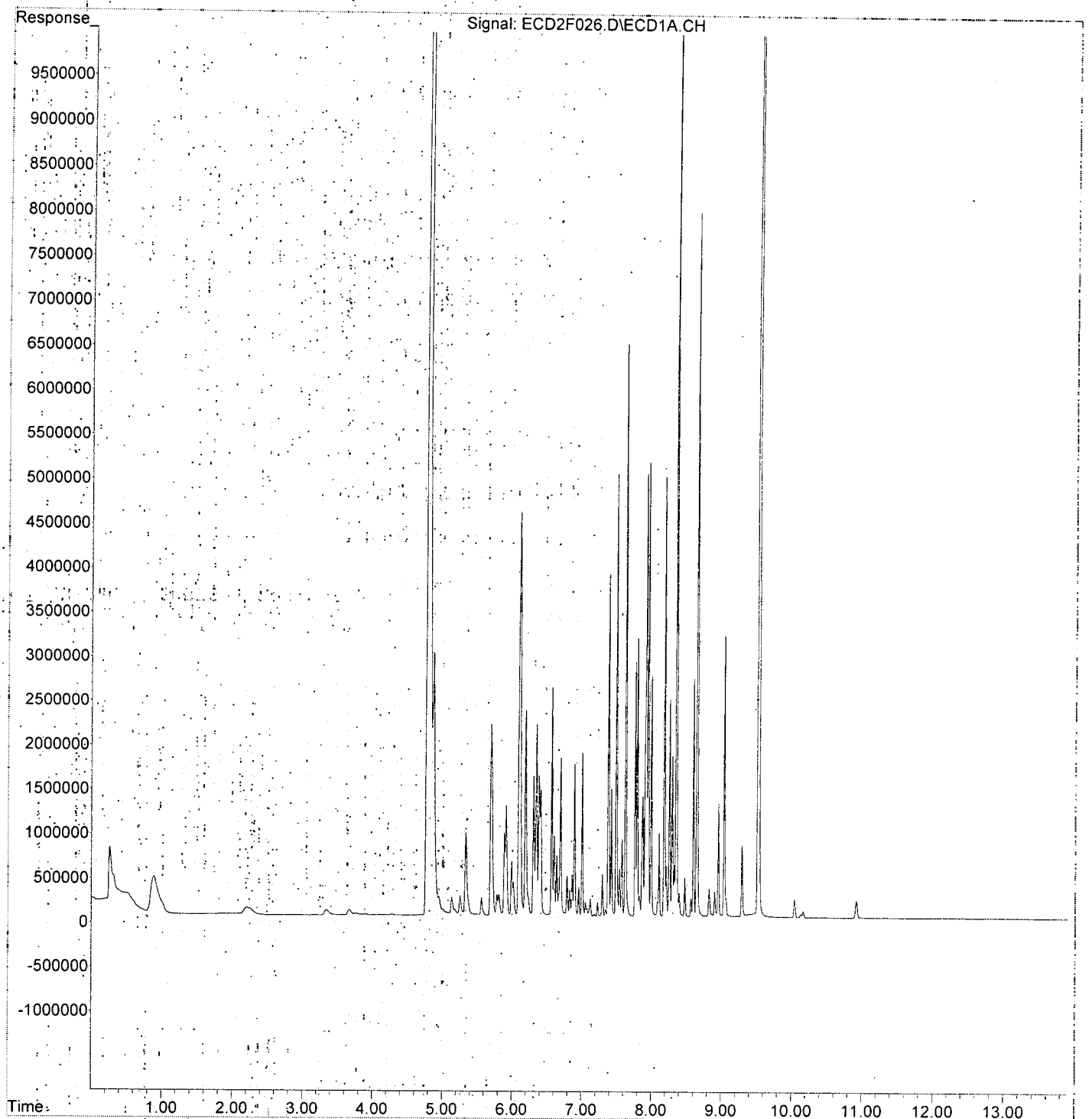
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	7.626	6457826	601.036 ng/ml
49)	Aroclor 1262 (2)	7.950	5120962	334.240 ng/ml
50)	Aroclor 1262 (3)	8.181	4958971	388.460 ng/ml
51)	Aroclor 1262 (4)	8.351	12253432	432.935 ng/ml
52)	Aroclor 1262 (5)	8.649	7936016	439.092 ng/ml
53)	Aroclor 1262 (6)	9.038	3171650	350.274 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.181	4958971	771.680 ng/ml
56)	Aroclor 1268 (2)	8.597	2687522	90.542 ng/ml
57)	Aroclor 1268 (3)	8.649	7936016	317.717 ng/ml
58)	Aroclor 1268 (4)	8.825	322658	13.990 ng/ml
59)	Aroclor 1268 (5)	9.038	3171650	344.369 ng/ml
60)	Aroclor 1268 (6)	9.293	815525	12.574 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\0C02025\
Data File : ECD2F026.D
Signal(s) : ECD1A.CH
Acq On : 02 Mar 2020 16:12
Operator : MJB / KAK
Sample : 0C02025-CCV3
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 02 16:32:46 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0C02025\
Data File : ECD2F027.D
Signal(s) : ECD1A.CH
Acq On : 02 Mar 2020 16:29
Operator : MJB / KAK
Sample : 0C02025-CCB3
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 02 16:50:13 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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clean

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
1) S	TCMX (S)	4.783	6741547	85.413 ng/ml
62) S	DCBP (S)	9.523	14301600	105.283 ng/ml
	Target Compounds			
2)	Aroclor 1016 (1)	5.694	6287	1.364 ng/ml
3)	Aroclor 1016 (2)	6.113	6893	0.783 ng/ml
4)	Aroclor 1016 (3)	6.181	3895	0.814 ng/ml
5)	Aroclor 1016 (4)	6.341	3565	0.804 ng/ml
6)	Aroclor 1016 (5)	6.566	3746	0.733 ng/ml
7)	Aroclor 1016 (6)	6.688	2282	0.617 ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9)	Aroclor 1221 (1)	5.134	17843	13.088 ng/ml
10)	Aroclor 1221 (2)	5.248	15950	17.314 ng/ml
11)	Aroclor 1221 (3)	5.335	13362	4.710 ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13)	Aroclor 1232 (1)	5.335	13362	5.648 ng/ml
14)	Aroclor 1232 (2)	6.113	6893	1.922 ng/ml
15)	Aroclor 1232 (3)	6.181	3895	1.979 ng/ml
16)	Aroclor 1232 (4)	6.341	3565	2.346 ng/ml
17)	Aroclor 1232 (5)	6.566	3746	1.941 ng/ml
18)	Aroclor 1232 (6)	6.688	2282	1.449 ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20)	Aroclor 1242 (1)	5.694	6287	1.786 ng/ml
21)	Aroclor 1242 (2)	6.113	6893	0.961 ng/ml
22)	Aroclor 1242 (3)	6.181	3895	1.060 ng/ml
23)	Aroclor 1242 (4)	6.341	3565	1.089 ng/ml
24)	Aroclor 1242 (5)	6.566	3746	0.914 ng/ml
25)	Aroclor 1242 (6)	6.688	2282	0.670 ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27)	Aroclor 1248 (1)	6.113	6893	1.580 ng/ml
28)	Aroclor 1248 (2)	6.341	3565	0.625 ng/ml
29)	Aroclor 1248 (3)	6.566	3746	0.579 ng/ml
30)	Aroclor 1248 (4)	6.862	2548	0.346 ng/ml
31)	Aroclor 1248 (5)	6.898	2684	0.356 ng/ml
32)	Aroclor 1248 (6)	7.379	2082	0.507 ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34)	Aroclor 1254 (1)	6.898	2684	0.303 ng/ml
35)	Aroclor 1254 (2)	7.007	1902	0.172 ng/ml
36)	Aroclor 1254 (3)	7.379	2082	0.125 ng/ml
37)	Aroclor 1254 (4)	7.541	3172	0.298 ng/ml
38)	Aroclor 1254 (5)	7.927	4452	0.384 ng/ml
39)	Aroclor 1254 (6)	8.210	3737	1.002 ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41)	Aroclor 1260 (1)	7.495	3257	0.320 ng/ml
42)	Aroclor 1260 (2)	7.628	3684	0.291 ng/ml
43)	Aroclor 1260 (3)	8.179	4319	0.455 ng/ml
44)	Aroclor 1260 (4)	8.349	7386	0.328 ng/ml
45)	Aroclor 1260 (5)	8.649	6989	0.460 ng/ml
46)	Aroclor 1260 (6)	9.035	10022	1.633 ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0C02025\
Data File : ECD2F027.D
Signal(s) : ECD1A.CH
Acq On : 02 Mar 2020 16:29
Operator : MJB / KAK
Sample : 0C02025-CCB3
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 02 16:50:13 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

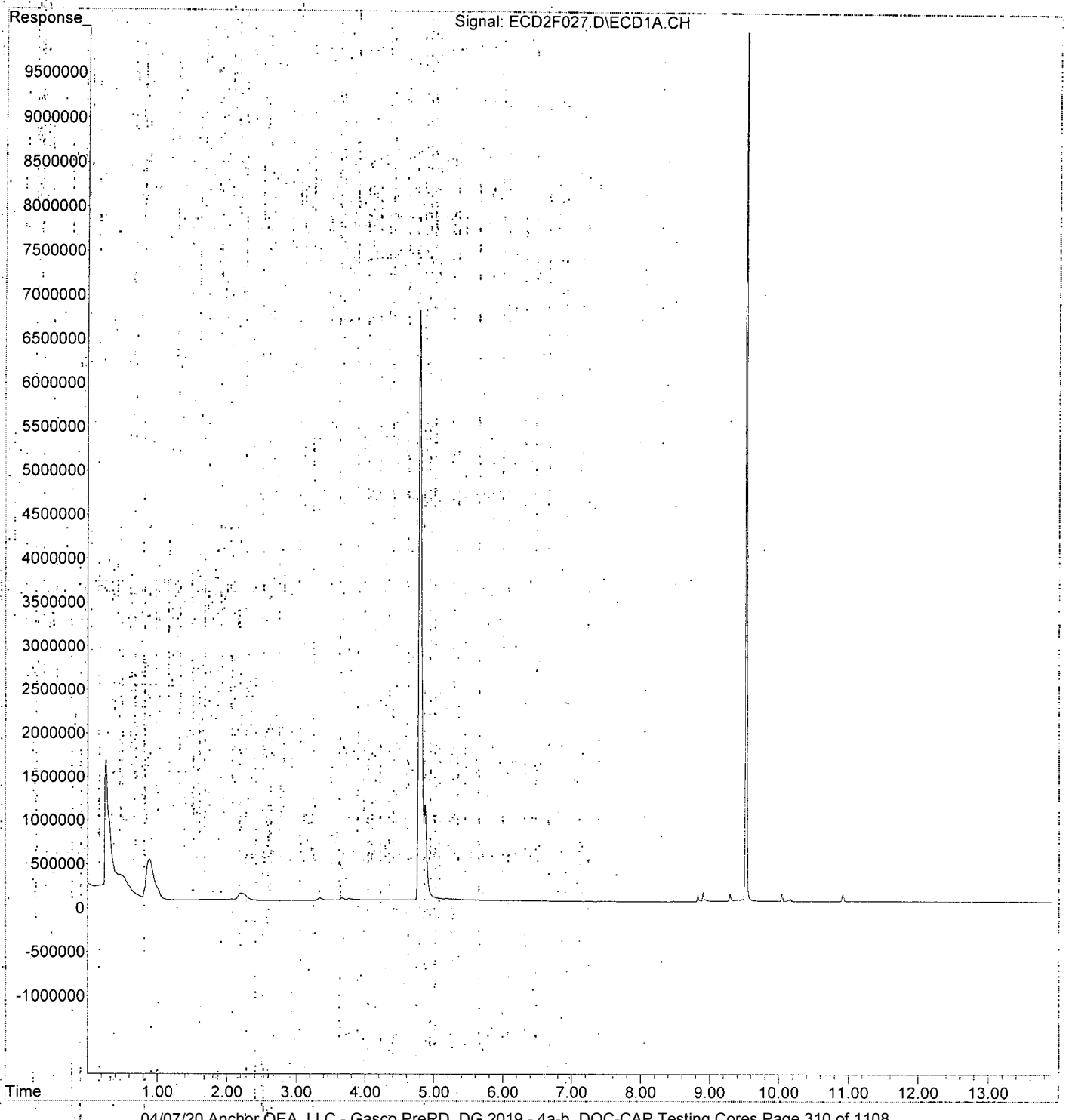
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	7.628	3684	0.343 ng/ml
49)	Aroclor 1262 (2)	7.950	3146	0.205 ng/ml
50)	Aroclor 1262 (3)	8.179	4319	0.338 ng/ml
51)	Aroclor 1262 (4)	8.349	7386	0.261 ng/ml
52)	Aroclor 1262 (5)	8.649	6989	0.387 ng/ml
53)	Aroclor 1262 (6)	9.035	10022	1.107 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.179	4319	0.672 ng/ml
56)	Aroclor 1268 (2)	8.597	5271	0.178 ng/ml
57)	Aroclor 1268 (3)	8.649	6989	0.280 ng/ml
58)	Aroclor 1268 (4)	8.829	83691	3.629 ng/ml
59)	Aroclor 1268 (5)	9.035	10022	1.088 ng/ml
60)	Aroclor 1268 (6)	9.294	92491	1.426 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\0C02025\
Data File : ECD2F027.D
Signal(s) : ECD1A.CH
Acq On : 02 Mar 2020 16:29
Operator : MJB / KAK
Sample : 0C02025-CCB3
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 02 16:50:13 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0C02025\
Data File : ECD2F028.D
Signal(s) : ECD1A.CH
Acq On : 02 Mar 2020 16:49
Operator : MJB / KAK
Sample : A0B0680-01RE3@5
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 02 18:59:18 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

3/3/20

1242 P-0
1254 P-10
1260 P-

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
1)	S TCMX (S)	4.778	2972880	37.665	ng/ml	✓
62)	S DCBP (S)	9.526	3550803	26.140	ng/ml	✓
	Target Compounds					
2)	Aroclor 1016 (1)	5.690	63328	13.744	ng/ml	
3)	Aroclor 1016 (2)	6.100	182088	20.691	ng/ml	
4)	Aroclor 1016 (3)	6.184	94538	19.750	ng/ml	
5)	Aroclor 1016 (4)	6.344	204816	46.211	ng/ml	
6)	Aroclor 1016 (5)	6.571	402465	78.691	ng/ml	
7)	Aroclor 1016 (6)	6.690	185478	50.174	ng/ml	
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml	
9)	Aroclor 1221 (1)	5.132	51019	37.423	ng/ml	
10)	Aroclor 1221 (2)	5.267	23761	25.794	ng/ml	
11)	Aroclor 1221 (3)	5.322	220497	77.719	ng/ml	
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml	
13)	Aroclor 1232 (1)	5.322	220497	93.199	ng/ml	
14)	Aroclor 1232 (2)	6.100	182088	50.759	ng/ml	
15)	Aroclor 1232 (3)	6.184	94538	48.033	ng/ml	
16)	Aroclor 1232 (4)	6.344	204816	134.806	ng/ml	
17)	Aroclor 1232 (5)	6.571	402465	208.489	ng/ml	
18)	Aroclor 1232 (6)	6.690	185478	117.767	ng/ml	
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml	
20)	Aroclor 1242 (1)	5.690	63328	17.987	ng/ml	
21)	Aroclor 1242 (2)	6.100	182088	25.382	ng/ml	23.029 —
22)	Aroclor 1242 (3)	6.184	94538	25.718	ng/ml	
23)	Aroclor 1242 (4)	6.344	204816 Ø	62.558	ng/ml	
24)	Aroclor 1242 (5)	6.571	402465 Ø	98.194	ng/ml	
25)	Aroclor 1242 (6)	6.690	185478 Ø	54.425	ng/ml	
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml	
27)	Aroclor 1248 (1)	6.100	182088	41.743	ng/ml	
28)	Aroclor 1248 (2)	6.344	204816	35.901	ng/ml	
29)	Aroclor 1248 (3)	6.571	402465	62.162	ng/ml	
30)	Aroclor 1248 (4)	6.858	269514	36.647	ng/ml	
31)	Aroclor 1248 (5)	6.894	433202	57.411	ng/ml	
32)	Aroclor 1248 (6)	7.375	561762	136.902	ng/ml	
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml	
34)	Aroclor 1254 (1)	6.894	433202 Ø	48.891	ng/ml	
35)	Aroclor 1254 (2)	7.025	3565022 Ø	321.690	ng/ml	29.385 ✓
36)	Aroclor 1254 (3)	7.375	561762	33.761	ng/ml	
37)	Aroclor 1254 (4)	7.539	310246	29.192	ng/ml	
38)	Aroclor 1254 (5)	7.919	482351 Ø	41.639	ng/ml	
39)	Aroclor 1254 (6)	8.209	94020	25.201	ng/ml	
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml	
41)	Aroclor 1260 (1)	7.492	516145 Ø	50.742	ng/ml	
42)	Aroclor 1260 (2)	7.626	725390 Ø	57.379	ng/ml	28.074
43)	Aroclor 1260 (3)	8.181	282460	29.723	ng/ml	
44)	Aroclor 1260 (4)	8.352	668626	29.722	ng/ml	
45)	Aroclor 1260 (5)	8.649	420443	27.663	ng/ml	
46)	Aroclor 1260 (6)	9.038	154615	25.186	ng/ml	
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml	

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0C02025\
Data File : ECD2F028.D
Signal(s) : ECD1A.CH
Acq On : 02 Mar 2020 16:49
Operator : MJB / KAK
Sample : A0B0680-01RE3@5
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 02 18:59:18 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

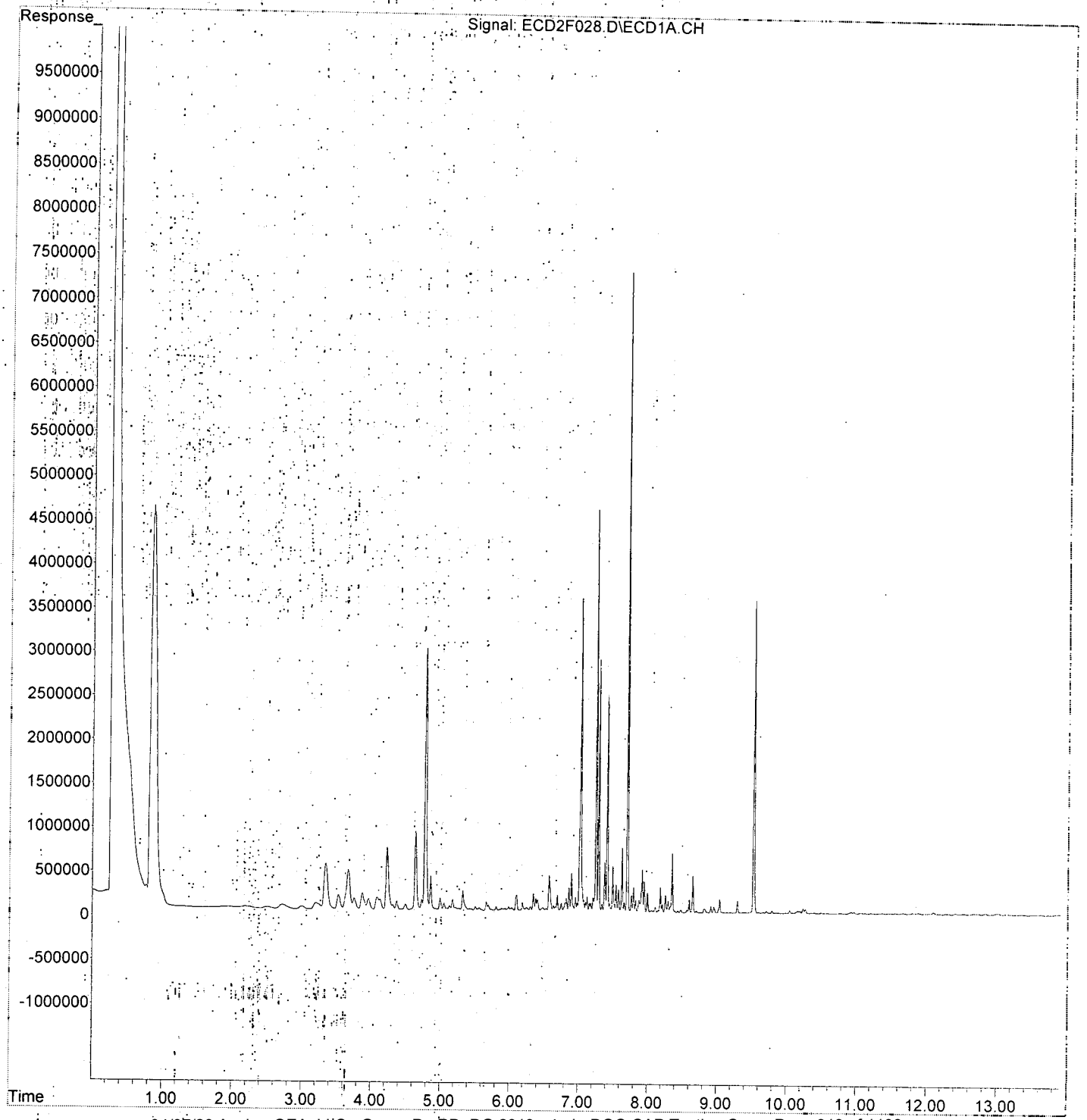
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	7.626	725390	67.513 ng/ml
49)	Aroclor 1262 (2)	7.950	347069	22.653 ng/ml
50)	Aroclor 1262 (3)	8.181	282460	22.126 ng/ml
51)	Aroclor 1262 (4)	8.352	668626	23.624 ng/ml
52)	Aroclor 1262 (5)	8.649	420443	23.263 ng/ml
53)	Aroclor 1262 (6)	9.038	154615	17.075 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.181	282460	43.954 ng/ml
56)	Aroclor 1268 (2)	8.599	151369	5.100 ng/ml
57)	Aroclor 1268 (3)	8.649	420443	16.832 ng/ml
58)	Aroclor 1268 (4)	8.826	44345	1.923 ng/ml
59)	Aroclor 1268 (5)	9.038	154615	16.788 ng/ml
60)	Aroclor 1268 (6)	9.294	139010	2.143 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\0C02025\
Data File : ECD2F028.D
Signal(s) : ECD1A.CH
Acq On : 02 Mar 2020 16:49
Operator : MJB / KAK
Sample : A0B0680-01RE3@5
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 02 18:59:18 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0C02025\
Data File : ECD2F030.D
Signal(s) : ECD1A.CH
Acq On : 02 Mar 2020 17:24
Operator : MJB / KAK
Sample : 0020917-DUP2
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 02 18:59:40 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

3/3/20

1242
1254
1260

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
1)	S TCMX (S)	4.771	2044997	25.909	ng/ml	S-03
62)	S DCBP (S)	9.524	2156599	15.876	ng/ml	S-03
	Target Compounds					
2)	Aroclor 1016 (1)	5.688	52291	11.348	ng/ml	
3)	Aroclor 1016 (2)	6.098	138751	15.767	ng/ml	
4)	Aroclor 1016 (3)	6.181	73445	15.344	ng/ml	
5)	Aroclor 1016 (4)	6.340	151132	34.098	ng/ml	
6)	Aroclor 1016 (5)	6.569	270494	52.888	ng/ml	
7)	Aroclor 1016 (6)	6.687	131815	35.658	ng/ml	
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml	
9)	Aroclor 1221 (1)	5.127	35127	25.766	ng/ml	
10)	Aroclor 1221 (2)	5.264	18609	20.201	ng/ml	
11)	Aroclor 1221 (3)	5.318	166464	58.674	ng/ml	
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml	
13)	Aroclor 1232 (1)	5.318	166464	70.361	ng/ml	
14)	Aroclor 1232 (2)	6.098	138751	38.678	ng/ml	
15)	Aroclor 1232 (3)	6.181	73445	37.316	ng/ml	
16)	Aroclor 1232 (4)	6.340	151132	99.472	ng/ml	
17)	Aroclor 1232 (5)	6.569	270494	140.124	ng/ml	
18)	Aroclor 1232 (6)	6.687	131815	83.694	ng/ml	
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml	
20)	Aroclor 1242 (1)	5.688	52291	14.852	ng/ml	
21)	Aroclor 1242 (2)	6.098	138751	19.341	ng/ml	18.058
22)	Aroclor 1242 (3)	6.181	73445	19.980	ng/ml	
23)	Aroclor 1242 (4)	6.340	151132 Ø	46.161	ng/ml	
24)	Aroclor 1242 (5)	6.569	270494 Ø	65.995	ng/ml	
25)	Aroclor 1242 (6)	6.687	131815 Ø	38.679	ng/ml	
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml	
27)	Aroclor 1248 (1)	6.098	138751	31.808	ng/ml	
28)	Aroclor 1248 (2)	6.340	151132	26.491	ng/ml	
29)	Aroclor 1248 (3)	6.569	270494	41.779	ng/ml	
30)	Aroclor 1248 (4)	6.856	199309	27.101	ng/ml	
31)	Aroclor 1248 (5)	6.892	306789	40.658	ng/ml	
32)	Aroclor 1248 (6)	7.373	359624	87.641	ng/ml	
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml	Q-05
34)	Aroclor 1254 (1)	6.892	306789 Ø	34.624	ng/ml	
35)	Aroclor 1254 (2)	7.023	3152142 Ø	284.434	ng/ml	19.406
36)	Aroclor 1254 (3)	7.373	359624	21.613	ng/ml	
37)	Aroclor 1254 (4)	7.537	207803	19.553	ng/ml	
38)	Aroclor 1254 (5)	7.917	334162 Ø	28.847	ng/ml	
39)	Aroclor 1254 (6)	8.208	63616	17.052	ng/ml	
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml	Q-05
41)	Aroclor 1260 (1)	7.490	322765 Ø	31.731	ng/ml	
42)	Aroclor 1260 (2)	7.626	532251 Ø	42.101	ng/ml	
43)	Aroclor 1260 (3)	8.179	183831	19.344	ng/ml	18.859
44)	Aroclor 1260 (4)	8.350	458036	20.361	ng/ml	
45)	Aroclor 1260 (5)	8.648	279371	18.382	ng/ml	
46)	Aroclor 1260 (6)	9.037	106498	17.348	ng/ml	
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml	

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0C02025\
Data File : ECD2F030.D
Signal(s) : ECD1A.CH
Acq On : 02 Mar 2020 17:24
Operator : MJB / KAK
Sample : 0020917-DUP2@5
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 02 18:59:40 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

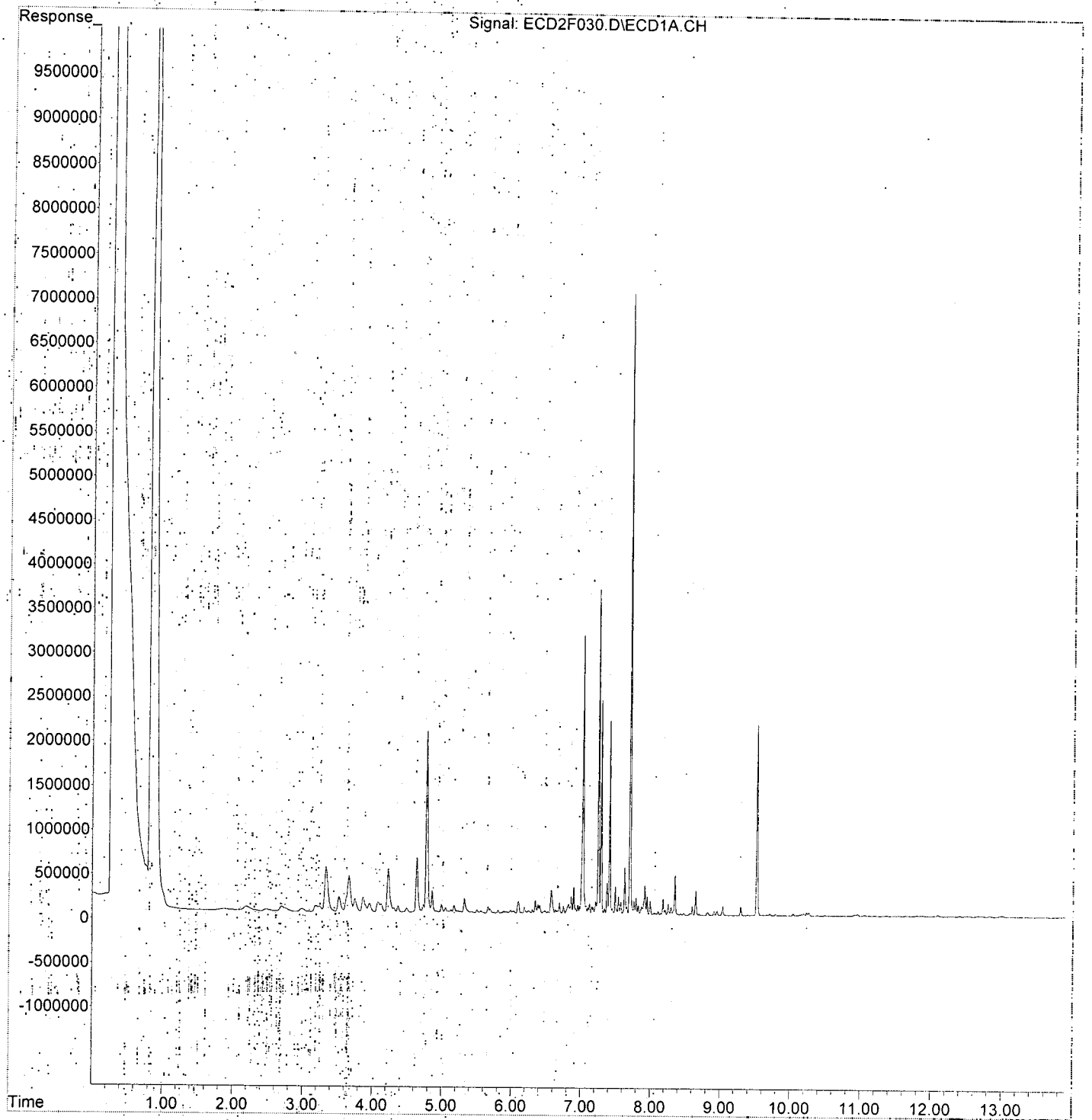
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	7.626	532251	49.537 ng/ml
49)	Aroclor 1262 (2)	7.948	209361	13.665 ng/ml
50)	Aroclor 1262 (3)	8.179	183831	14.400 ng/ml
51)	Aroclor 1262 (4)	8.350	458036	16.183 ng/ml
52)	Aroclor 1262 (5)	8.648	279371	15.457 ng/ml
53)	Aroclor 1262 (6)	9.037	106498	11.762 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.179	183831	28.607 ng/ml
56)	Aroclor 1268 (2)	8.597	108366	3.651 ng/ml
57)	Aroclor 1268 (3)	8.648	279371	11.185 ng/ml
58)	Aroclor 1268 (4)	8.825	32595	1.413 ng/ml
59)	Aroclor 1268 (5)	9.037	106498	11.563 ng/ml
60)	Aroclor 1268 (6)	9.292	102613	1.582 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\0C02025\
Data File : ECD2F030.D
Signal(s) : ECD1A.CH
Acq On : 02 Mar 2020 17:24
Operator : MJB / KAK
Sample : 0020917-DUP2@5
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 02 18:59:40 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0C02025\
Data File : ECD2F032.D
Signal(s) : ECD1A.CH
Acq On : 02 Mar 2020 18:00
Operator : MJB / KAK
Sample : 0C02025-CCV4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 02 19:00:02 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

3/13/20

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	4.781	17107305	216.743	ng/ml
62)	S DCBP (S)	9.524	34185501	251.660	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	5.692	2022120	438.852	ng/ml
3)	Aroclor 1016 (2)	6.104	4040950	459.186	ng/ml
4)	Aroclor 1016 (3)	6.187	2118223	442.519	ng/ml
5)	Aroclor 1016 (4)	6.343	1991742	449.377	ng/ml
6)	Aroclor 1016 (5)	6.565	2230406	436.096	ng/ml
7)	Aroclor 1016 (6)	6.692	1586077	429.056	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.132	191770	140.664	ng/ml
10)	Aroclor 1221 (2)	5.250	204688	222.194	ng/ml
11)	Aroclor 1221 (3)	5.332	894279	315.208	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.332	894279	377.994	ng/ml
14)	Aroclor 1232 (2)	6.104	4040950	1126.464	ng/ml
15)	Aroclor 1232 (3)	6.187	2118223	1076.220	ng/ml
16)	Aroclor 1232 (4)	6.343	1991742	1310.923	ng/ml
17)	Aroclor 1232 (5)	6.565	2230406	1155.418	ng/ml
18)	Aroclor 1232 (6)	6.692	1586077	1007.058	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	5.692	2022120	574.331	ng/ml
21)	Aroclor 1242 (2)	6.104	4040950	563.280	ng/ml
22)	Aroclor 1242 (3)	6.187	2118223	576.247	ng/ml
23)	Aroclor 1242 (4)	6.343	1991742	608.350	ng/ml
24)	Aroclor 1242 (5)	6.565	2230406	544.177	ng/ml
25)	Aroclor 1242 (6)	6.692	1586077	465.406	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.104	4040950	926.381	ng/ml
28)	Aroclor 1248 (2)	6.343	1991742	349.120	ng/ml
29)	Aroclor 1248 (3)	6.565	2230406	344.492	ng/ml
30)	Aroclor 1248 (4)	6.859	431137	58.624	ng/ml
31)	Aroclor 1248 (5)	6.893	1495319	198.171	ng/ml
32)	Aroclor 1248 (6)	7.379	3526746	859.471	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	6.893	1495319	168.762	ng/ml
35)	Aroclor 1254 (2)	7.003	1668930	150.596	ng/ml
36)	Aroclor 1254 (3)	7.379	3526746	211.954	ng/ml
37)	Aroclor 1254 (4)	7.540	507493	47.751	ng/ml
38)	Aroclor 1254 (5)	7.918	4639059	400.469	ng/ml
39)	Aroclor 1254 (6)	8.210	533728	143.061	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	7.491	4880342	479.782	ng/ml
42)	Aroclor 1260 (2)	7.625	5920605	468.322	ng/ml
43)	Aroclor 1260 (3)	8.180	4448318	468.094	ng/ml
44)	Aroclor 1260 (4)	8.350	10699421	475.617	ng/ml
45)	Aroclor 1260 (5)	8.649	7215372	474.743	ng/ml
46)	Aroclor 1260 (6)	9.037	2755622	448.880	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0C02025\
Data File : ECD2F032.D
Signal(s) : ECD1A.CH
Acq On : 02 Mar 2020 18:00
Operator : MJB / KAK
Sample : 0C02025-CCV4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 02 19:00:02 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

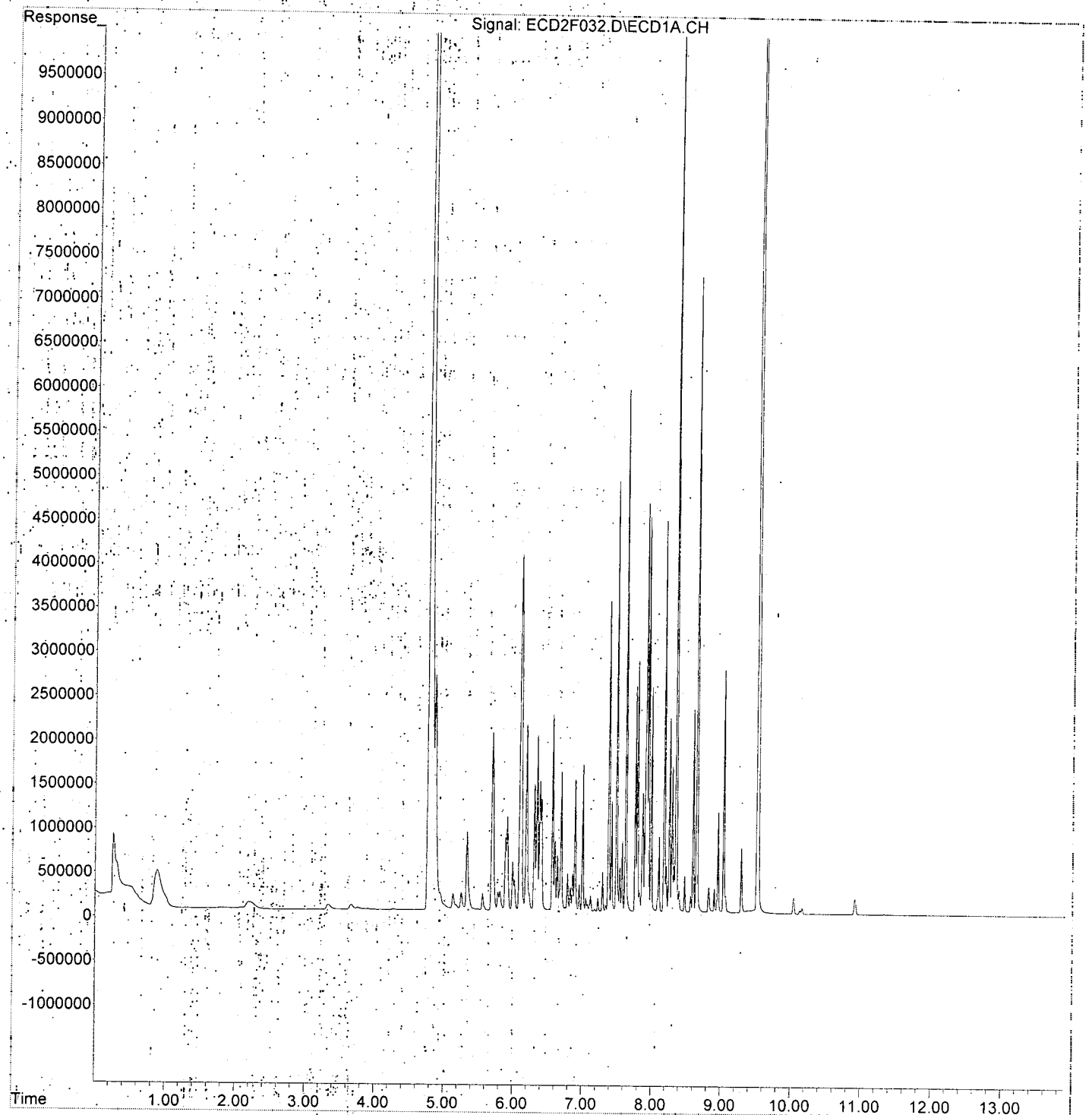
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	7.625	5920605	551.037	ng/ml
49)	Aroclor 1262 (2)	7.948	4484926	292.726	ng/ml
50)	Aroclor 1262 (3)	8.180	4448318	348.458	ng/ml
51)	Aroclor 1262 (4)	8.350	10699421	378.029	ng/ml
52)	Aroclor 1262 (5)	8.649	7215372	399.219	ng/ml
53)	Aroclor 1262 (6)	9.037	2755622	304.328	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	8.180	4448318	692.216	ng/ml
56)	Aroclor 1268 (2)	8.598	2317262	78.068	ng/ml
57)	Aroclor 1268 (3)	8.649	7215372	288.866	ng/ml
58)	Aroclor 1268 (4)	8.824	299039	12.966	ng/ml
59)	Aroclor 1268 (5)	9.037	2755622	299.198	ng/ml
60)	Aroclor 1268 (6)	9.292	744689	11.481	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\0C02025\
Data File : ECD2F032.D
Signal(s) : ECD1A.CH
Acq On : 02 Mar 2020 18:00
Operator : MJB / KAK
Sample : 0C02025-CCV4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 02 19:00:02 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0C02025\
Data File : ECD2F033.D
Signal(s) : ECD1A.CH
Acq On : 02 Mar 2020 18:17
Operator : MJB / KAK
Sample : 0C02025-CCB4
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 02 19:00:24 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

3/13/20
Clear

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
1)	S TCMX (S)	4.784	6730654	85.275 ng/ml
62)	S DCBP (S)	9.525	13159817	96.877 ng/ml
	Target Compounds			
2)	Aroclor 1016 (1)	5.694	5888	1.278 ng/ml
3)	Aroclor 1016 (2)	6.093	4057	0.461 ng/ml
4)	Aroclor 1016 (3)	6.181	3630	0.758 ng/ml
5)	Aroclor 1016 (4)	6.344	3554	0.802 ng/ml
6)	Aroclor 1016 (5)	6.565	3496	0.684 ng/ml
7)	Aroclor 1016 (6)	6.695	2717	0.735 ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9)	Aroclor 1221 (1)	5.129	17964	13.176 ng/ml
10)	Aroclor 1221 (2)	5.253	15454	16.776 ng/ml
11)	Aroclor 1221 (3)	5.331	13601	4.794 ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13)	Aroclor 1232 (1)	5.331	13601	5.749 ng/ml
14)	Aroclor 1232 (2)	6.093	4057	1.131 ng/ml
15)	Aroclor 1232 (3)	6.181	3630	1.844 ng/ml
16)	Aroclor 1232 (4)	6.344	3554	2.339 ng/ml
17)	Aroclor 1232 (5)	6.565	3496	1.811 ng/ml
18)	Aroclor 1232 (6)	6.688	2521	1.600 ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20)	Aroclor 1242 (1)	5.694	5888	1.672 ng/ml
21)	Aroclor 1242 (2)	6.093	4057	0.566 ng/ml
22)	Aroclor 1242 (3)	6.181	3630	0.987 ng/ml
23)	Aroclor 1242 (4)	6.344	3554	1.085 ng/ml
24)	Aroclor 1242 (5)	6.565	3496	0.853 ng/ml
25)	Aroclor 1242 (6)	6.695	2717	0.797 ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27)	Aroclor 1248 (1)	6.093	4057	0.930 ng/ml
28)	Aroclor 1248 (2)	6.344	3554	0.623 ng/ml
29)	Aroclor 1248 (3)	6.565	3496	0.540 ng/ml
30)	Aroclor 1248 (4)	6.863	2386	0.324 ng/ml
31)	Aroclor 1248 (5)	6.899	2390	0.317 ng/ml
32)	Aroclor 1248 (6)	7.380	2045	0.498 ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34)	Aroclor 1254 (1)	6.899	2390	0.270 ng/ml
35)	Aroclor 1254 (2)	7.007	1588	0.143 ng/ml
36)	Aroclor 1254 (3)	7.380	2045	0.123 ng/ml
37)	Aroclor 1254 (4)	7.545	2966	0.279 ng/ml
38)	Aroclor 1254 (5)	7.928	5025	0.434 ng/ml
39)	Aroclor 1254 (6)	8.212	3208	0.860 ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41)	Aroclor 1260 (1)	7.492	3032	0.298 ng/ml
42)	Aroclor 1260 (2)	7.627	3400	0.269 ng/ml
43)	Aroclor 1260 (3)	8.182	3727	0.392 ng/ml
44)	Aroclor 1260 (4)	8.349	7231	0.321 ng/ml
45)	Aroclor 1260 (5)	8.651	5796	0.381 ng/ml
46)	Aroclor 1260 (6)	9.037	8516	1.387 ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0C02025\
Data File : ECD2F033.D
Signal(s) : ECD1A.CH
Acq On : 02 Mar 2020 18:17
Operator : MJB / KAK
Sample : 0C02025-CCB4
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 02 19:00:24 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

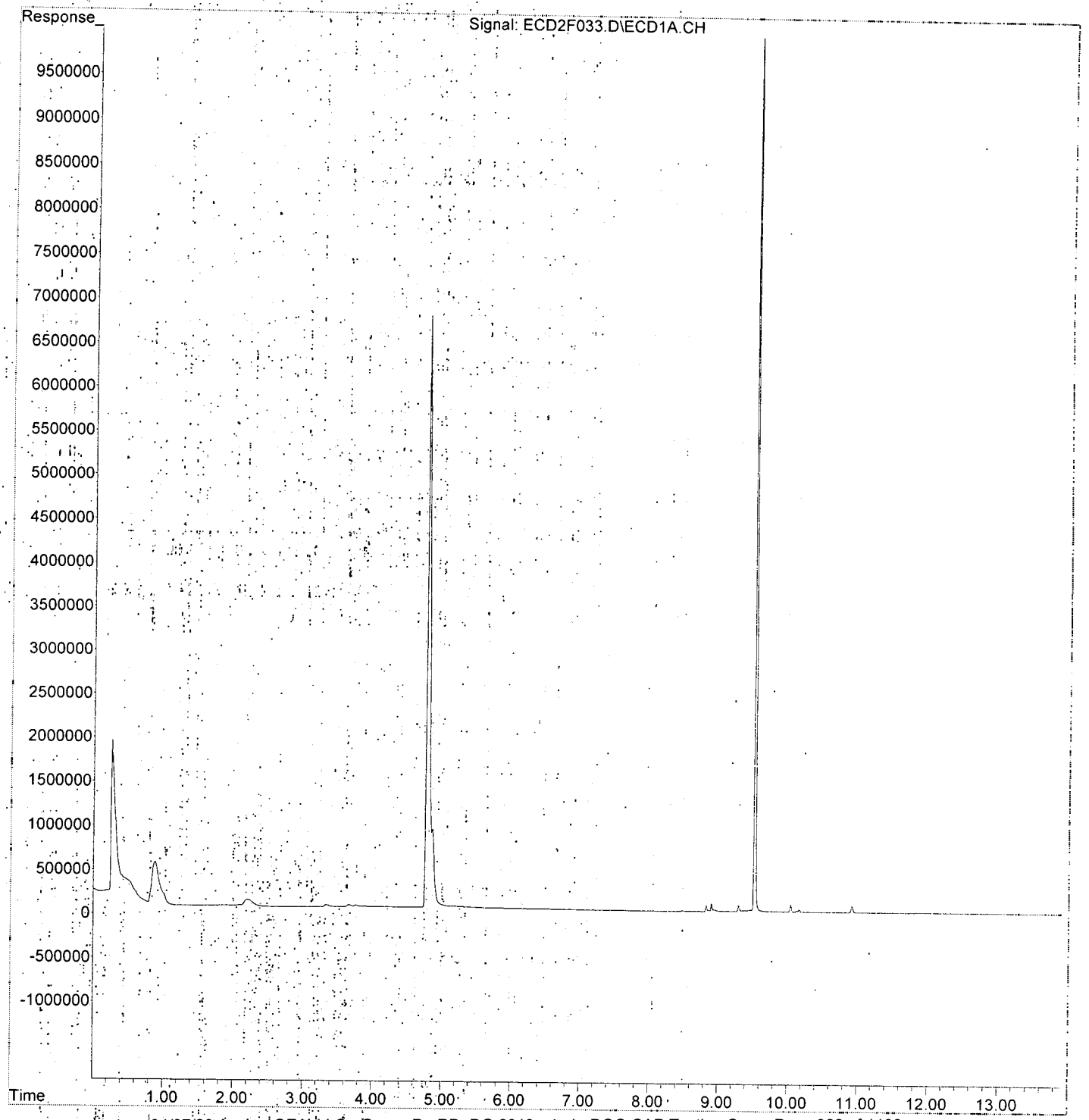
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	7.627	3400	0.316 ng/ml
49)	Aroclor 1262 (2)	7.947	2960	0.193 ng/ml
50)	Aroclor 1262 (3)	8.182	3727	0.292 ng/ml
51)	Aroclor 1262 (4)	8.349	7231	0.255 ng/ml
52)	Aroclor 1262 (5)	8.651	5796	0.321 ng/ml
53)	Aroclor 1262 (6)	9.037	8516	0.940 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.169	3350	0.521 ng/ml
56)	Aroclor 1268 (2)	8.600	4697	0.158 ng/ml
57)	Aroclor 1268 (3)	8.651	5796	0.232 ng/ml
58)	Aroclor 1268 (4)	8.829	74537	3.232 ng/ml
59)	Aroclor 1268 (5)	9.037	8516	0.925 ng/ml
60)	Aroclor 1268 (6)	9.295	76743	1.183 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\0C02025\
Data File : ECD2F033.D
Signal(s) : ECD1A.CH
Acq On : 02 Mar 2020 18:17
Operator : MJB / KAK
Sample : 0C02025-CCB4
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 02 19:00:24 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 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
Benchsheet & Analysis Sequence Data

Sequence 0B27016 (QC Only)

ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence: **0B27016** Instrument: **DUALECD2F**

Date: **02/27/20 07:20** Calibration: **A0B1902**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0B27016-CCV1	Sediment	QC	QC				A20A394
2	0B27016-CCB1	Sediment	QC	QC				A20A395
3	0020809-BLK1	Sediment	QC	QC		0020809		
4	0020809-BS1	Sediment	QC	QC		0020809		
5	A0B0679-01	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	02/28/20	0020809		
6	0B27016-IBL1	Sediment	QC	QC				
7	A0B0679-02	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	02/28/20	0020809		
8	0B27016-IBL2	Sediment	QC	QC				
9	A0B0679-03	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	02/28/20	0020809		
10	0B27016-IBL3	Sediment	QC	QC				
11	0020809-DUP1	Sediment	QC	QC		0020809		
12	0B27016-IBL4	Sediment	QC	QC				
13	A0B0679-04	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	02/28/20	0020809		
14	0B27016-IBL5	Sediment	QC	QC				
15	0B27016-CCV2	Sediment	QC	QC				A20A394
16	0B27016-CCB2	Sediment	QC	QC				A20A395
17	A0B0679-11	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	02/28/20	0020809		
18	0B27016-IBL6	Sediment	QC	QC				
19	A0B0679-12	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	02/28/20	0020809		
20	0B27016-IBL7	Sediment	QC	QC				
21	A0B0679-13	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	02/28/20	0020809		
22	0B27016-IBL8	Sediment	QC	QC				
23	A0B0679-14	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	02/28/20	0020809		
24	0B27016-IBL9	Sediment	QC	QC				
25	A0B0679-15	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	02/28/20	0020809		
26	0B27016-IBLA	Sediment	QC	QC				
27	A0B0680-01	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	02/28/20	0020809		
28	0B27016-IBLB	Sediment	QC	QC				
29	0B27016-CCV3	Sediment	QC	QC				A20A394
30	0B27016-CCB3	Sediment	QC	QC				A20A395

Comments:

Data Entered By: 2/28/20

Data Reviewed By: MKT 3/2/20

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.

0B27016-CCV1

Aroclor 1016

Peak	Initial Res
1016 (1)	444.09
1016 (2)	464.36
1016 (3)	474.54
1016 (4)	446.22
1016 (5)	454.34
1016 (6)	432.14
Average:	**452.62**

Aroclor 1260

Peak	Initial Res
1260 (1)	482.07
1260 (2)	464.02
1260 (3)	480.13
1260 (4)	488.24
1260 (5)	470.91
1260 (6)	486.38
Average:	**478.63**

0020809-BS1

Aroclor 1016

Peak	Initial Res
1016 (1)	835.27
1016 (2)	977.44
1016 (3)	852.16
1016 (4)	822.15
1016 (5)	841.79
1016 (6)	829.22
Average:	**859.67**

Aroclor 1260

Peak	Initial Res
1260 (1)	970.05
1260 (2)	984.62
1260 (3)	1,010.10
1260 (4)	1,109.39
1260 (5)	997.95
1260 (6)	1,032.14
Average:	**1,017.38**

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.

0B27016-CCV2

Aroclor 1016

Peak	Initial Res
1016 (1)	415.47
1016 (2)	444.92
1016 (3)	428.44
1016 (4)	452.56
1016 (5)	424.16
1016 (6)	411.49
Average:	**429.51**

Aroclor 1260

Peak	Initial Res
1260 (1)	435.02
1260 (2)	442.45
1260 (3)	426.92
1260 (4)	455.09
1260 (5)	443.68
1260 (6)	450.48
Average:	**442.27**

0B27016-CCV3

Aroclor 1016

Peak	Initial Res
1016 (1)	471.74
1016 (2)	510.41
1016 (3)	474.00
1016 (4)	467.10
1016 (5)	465.15
1016 (6)	466.17
Average:	**475.76**

Aroclor 1260

Peak	Initial Res
1260 (1)	479.27
1260 (2)	494.30
1260 (3)	494.43
1260 (4)	505.66
1260 (5)	492.05
1260 (6)	496.43
Average:	**493.69**

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B27016\
Data File : ECD2F002.D
Signal(s) : ECD1A.CH
Acq On : 27 Feb 2020 7:49
Operator : MJB / KAK
Sample : 0B27016-CCV1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 28 09:18:37 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

2/28/20

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	4.786	18274450	231.531	ng/ml
62)	S DCBP (S)	9.529	35042383	257.968	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	5.697	2046274	444.094	ng/ml
3)	Aroclor 1016 (2)	6.109	4086442	464.356	ng/ml
4)	Aroclor 1016 (3)	6.190	2271520	474.544	ng/ml
5)	Aroclor 1016 (4)	6.347	1977736	446.217	ng/ml
6)	Aroclor 1016 (5)	6.569	2323733	454.344	ng/ml
7)	Aroclor 1016 (6)	6.696	1597478	432.140	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.137	195797	143.618	ng/ml
10)	Aroclor 1221 (2)	5.255	209434	227.345	ng/ml
11)	Aroclor 1221 (3)	5.338	933924	329.181	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.338	933924	394.750	ng/ml
14)	Aroclor 1232 (2)	6.109	4086442	1139.145	ng/ml
15)	Aroclor 1232 (3)	6.190	2271520	1154.106	ng/ml
16)	Aroclor 1232 (4)	6.347	1977736	1301.704	ng/ml
17)	Aroclor 1232 (5)	6.569	2323733	1203.764	ng/ml
18)	Aroclor 1232 (6)	6.696	1597478	1014.297	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	5.697	2046274	581.191	ng/ml
21)	Aroclor 1242 (2)	6.109	4086442	569.621	ng/ml
22)	Aroclor 1242 (3)	6.190	2271520	617.950	ng/ml
23)	Aroclor 1242 (4)	6.347	1977736	604.072	ng/ml
24)	Aroclor 1242 (5)	6.569	2323733	566.946	ng/ml
25)	Aroclor 1242 (6)	6.696	1597478	468.751	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.109	4086442	936.810	ng/ml
28)	Aroclor 1248 (2)	6.347	1977736	346.665	ng/ml
29)	Aroclor 1248 (3)	6.569	2323733	358.907	ng/ml
30)	Aroclor 1248 (4)	6.863	429771	58.439	ng/ml
31)	Aroclor 1248 (5)	6.895	1583321	209.834	ng/ml
32)	Aroclor 1248 (6)	7.383	3701514	902.062	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	6.895	1583321	178.694	ng/ml
35)	Aroclor 1254 (2)	7.007	1706493	153.986	ng/ml
36)	Aroclor 1254 (3)	7.383	3701514	222.457	ng/ml
37)	Aroclor 1254 (4)	7.543	482790	45.427	ng/ml
38)	Aroclor 1254 (5)	7.922	4816297	415.769	ng/ml
39)	Aroclor 1254 (6)	8.214	540923	144.990	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	7.495	4903573	482.066	ng/ml
42)	Aroclor 1260 (2)	7.629	5866256	464.023	ng/ml
43)	Aroclor 1260 (3)	8.184	4562733	480.134	ng/ml
44)	Aroclor 1260 (4)	8.354	10983352	488.239	ng/ml
45)	Aroclor 1260 (5)	8.652	7157188	470.915	ng/ml
46)	Aroclor 1260 (6)	9.041	2985831	486.381	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B27016\
Data File : ECD2F002.D
Signal(s) : ECD1A.CH
Acq On : 27 Feb 2020 7:49
Operator : MJB / KAK
Sample : 0B27016-CCV1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 28 09:18:37 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

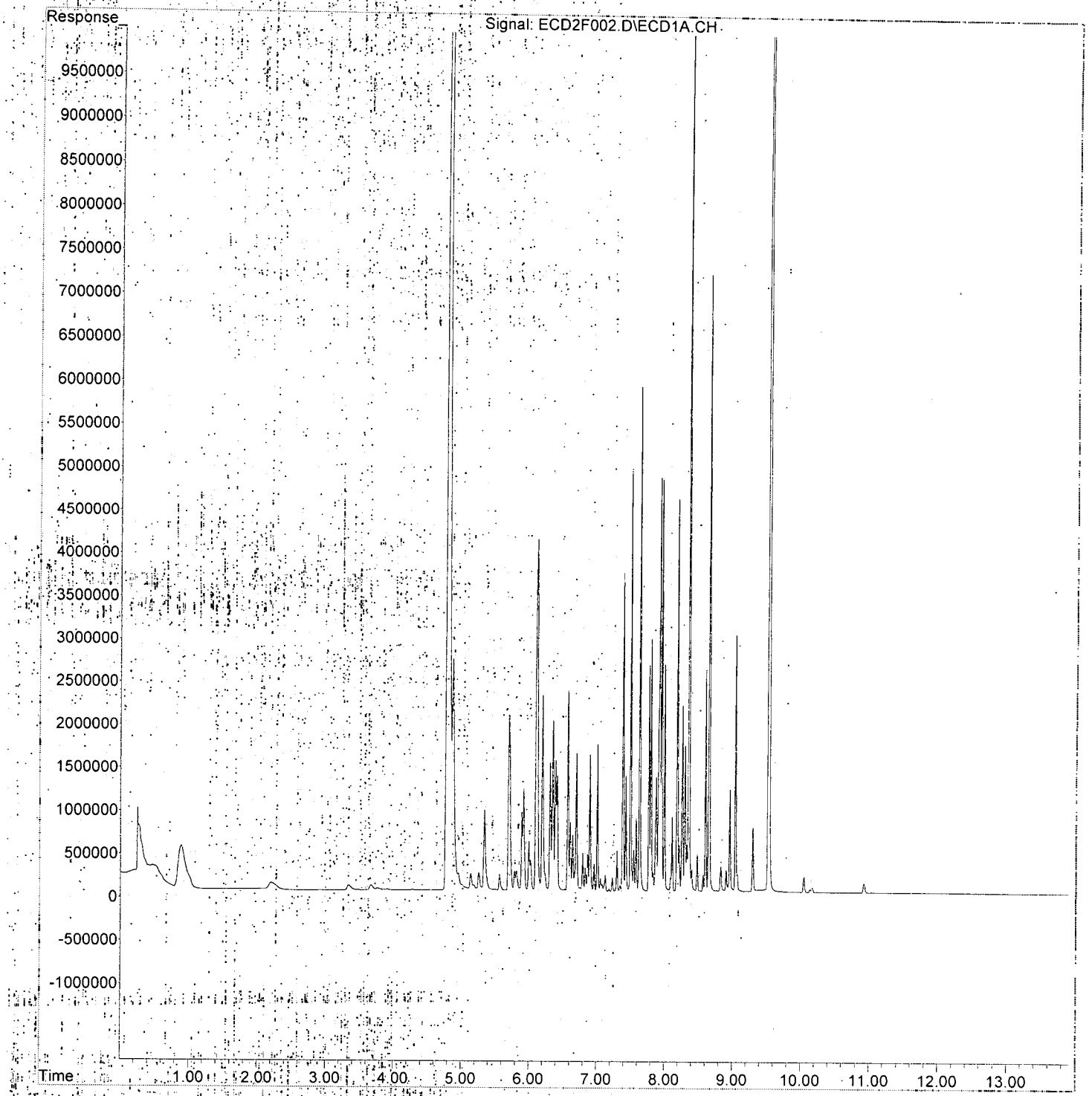
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	7.629	5866256	545.978 ng/ml
49)	Aroclor 1262 (2)	7.952	4786903	312.436 ng/ml
50)	Aroclor 1262 (3)	8.184	4562733	357.421 ng/ml
51)	Aroclor 1262 (4)	8.354	10983352	388.061 ng/ml
52)	Aroclor 1262 (5)	8.652	7157188	396.000 ng/ml
53)	Aroclor 1262 (6)	9.041	2985831	329.752 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.184	4562733	710.020 ng/ml
56)	Aroclor 1268 (2)	8.601	2582026	86.988 ng/ml
57)	Aroclor 1268 (3)	8.652	7157188	286.537 ng/ml
58)	Aroclor 1268 (4)	8.828	290018	12.575 ng/ml
59)	Aroclor 1268 (5)	9.041	2985831	324.193 ng/ml
60)	Aroclor 1268 (6)	9.297	752698	11.605 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\0B27016\
Data File : ECD2F002.D
Signal(s) : ECD1A.CH
Acq On : 27 Feb 2020 7:49
Operator : MJB / KAK
Sample : 0B27016-CCV1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 28 09:18:37 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B27016\
Data File : ECD2F003.D
Signal(s) : ECD1A.CH
Acq On : 27 Feb 2020 8:07
Operator : MJB / KAK
Sample : 0B27016-CCB1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 28 09:18:58 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

2/28/20

clean

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	4.787	6773195	85.814	ng/ml
62) S	DCBP (S)	9.527	13337455	98.185	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	5.684	5718	1.241	ng/ml
3)	Aroclor 1016 (2)	6.127	6466	0.735	ng/ml
4)	Aroclor 1016 (3)	6.186	2668	0.557	ng/ml
5)	Aroclor 1016 (4)	6.352	2323	0.524	ng/ml
6)	Aroclor 1016 (5)	6.563	1682	0.329	ng/ml
7)	Aroclor 1016 (6)	6.695	1682	0.455	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.129	18677	13.700	ng/ml
10)	Aroclor 1221 (2)	5.276	14900	16.174	ng/ml
11)	Aroclor 1221 (3)	5.335	13342	4.703	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.335	13342	5.639	ng/ml
14)	Aroclor 1232 (2)	6.127	6466	1.802	ng/ml
15)	Aroclor 1232 (3)	6.186	2668	1.355	ng/ml
16)	Aroclor 1232 (4)	6.352	2323	1.529	ng/ml
17)	Aroclor 1232 (5)	6.563	1682	0.871	ng/ml
18)	Aroclor 1232 (6)	6.695	1682	1.068	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	5.684	5718	1.624	ng/ml
21)	Aroclor 1242 (2)	6.127	6466	0.901	ng/ml
22)	Aroclor 1242 (3)	6.186	2668	0.726	ng/ml
23)	Aroclor 1242 (4)	6.352	2323	0.710	ng/ml
24)	Aroclor 1242 (5)	6.563	1682	0.410	ng/ml
25)	Aroclor 1242 (6)	6.695	1682	0.494	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.127	6466	1.482	ng/ml
28)	Aroclor 1248 (2)	6.352	2323	0.407	ng/ml
29)	Aroclor 1248 (3)	6.563	1682	0.260	ng/ml
30)	Aroclor 1248 (4)	6.864	1142	0.155	ng/ml
31)	Aroclor 1248 (5)	6.902	1249	0.166	ng/ml
32)	Aroclor 1248 (6)	7.382	1330	0.324	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	6.902	1249	0.141	ng/ml
35)	Aroclor 1254 (2)	7.009	665	0.060	ng/ml
36)	Aroclor 1254 (3)	7.382	1330	0.080	ng/ml
37)	Aroclor 1254 (4)	7.542	1808	0.170	ng/ml
38)	Aroclor 1254 (5)	7.931	6880	0.594	ng/ml
39)	Aroclor 1254 (6)	8.214	734	0.197	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	7.493	2250	0.221	ng/ml
42)	Aroclor 1260 (2)	7.629	2611	0.207	ng/ml
43)	Aroclor 1260 (3)	8.183	1381	0.145	ng/ml
44)	Aroclor 1260 (4)	8.348	19132	0.850	ng/ml
45)	Aroclor 1260 (5)	8.654	4149	0.273	ng/ml
46)	Aroclor 1260 (6)	9.034	7502	1.222	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B27016\
Data File : ECD2F003.D
Signal(s) : ECD1A.CH
Acq On : 27 Feb 2020 8:07
Operator : MJB / KAK
Sample : 0B27016-CCB1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 28 09:18:58 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

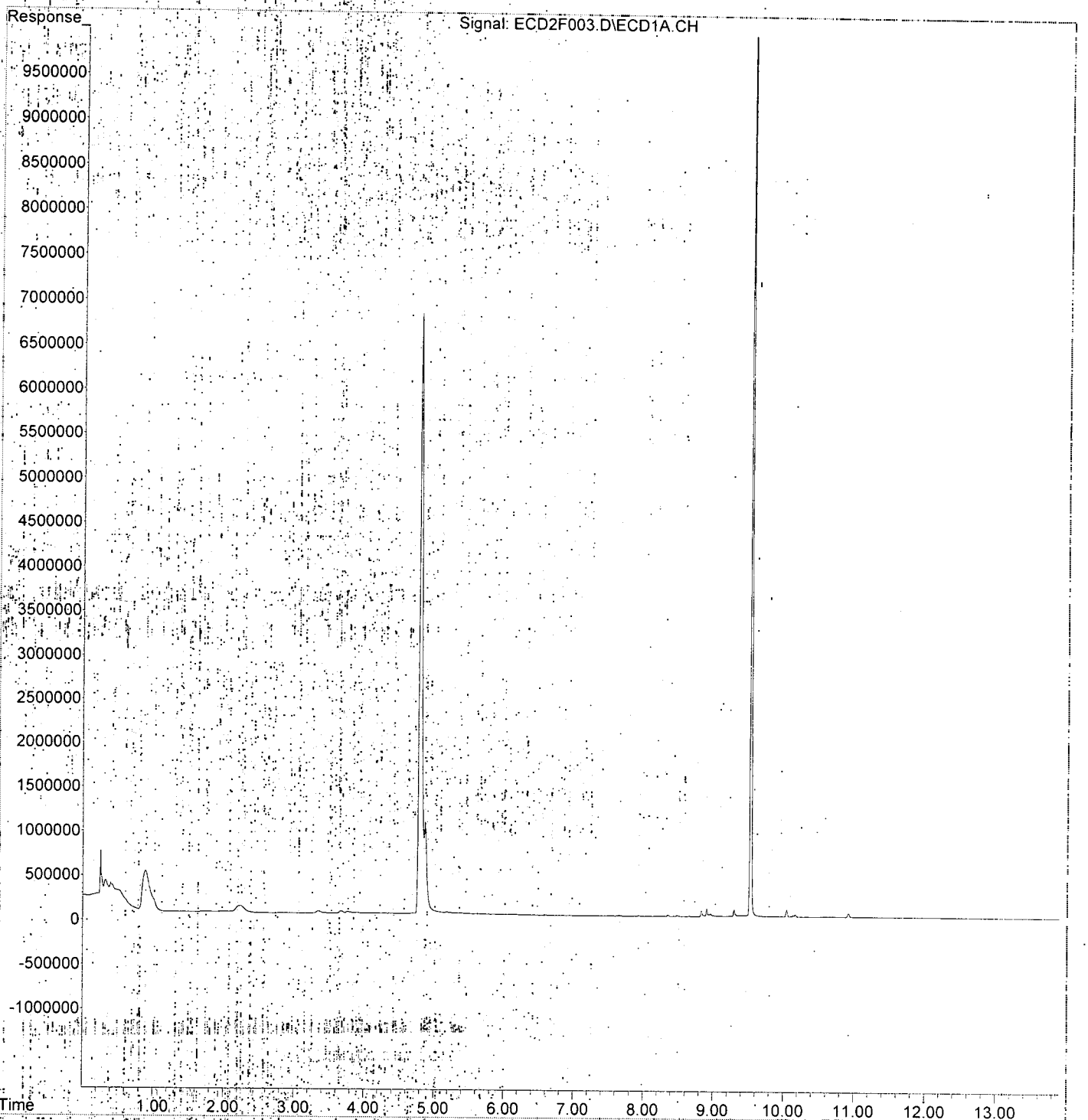
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	7.629	2611	0.243 ng/ml
49)	Aroclor 1262 (2)	7.968	802	0.052 ng/ml
50)	Aroclor 1262 (3)	8.183	1381	0.108 ng/ml
51)	Aroclor 1262 (4)	8.348	19132	0.676 ng/ml
52)	Aroclor 1262 (5)	8.654	4149	0.230 ng/ml
53)	Aroclor 1262 (6)	9.034	7502	0.828 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.183	1381	0.215 ng/ml
56)	Aroclor 1268 (2)	8.600	1992	0.067 ng/ml
57)	Aroclor 1268 (3)	8.654	4149	0.166 ng/ml
58)	Aroclor 1268 (4)	8.829	69840	3.028 ng/ml
59)	Aroclor 1268 (5)	9.034	7502	0.815 ng/ml
60)	Aroclor 1268 (6)	9.296	77048	1.188 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\0B27016\
Data File : ECD2F003.D
Signal(s) : ECD1A.CH
Acq On : 27 Feb 2020 8:07
Operator : MJB / KAK
Sample : 0B27016-CCB1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 28 09:18:58 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B27016\
Data File : ECD2F004.D
Signal(s) : ECD1A.CH
Acq On : 27 Feb 2020 8:24
Operator : MJB / KAK
Sample : 0020809-BLK1
Misc
ALS Vial : 4 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 28 09:19:20 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

2/28/20
clean

	Compound	RT	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	4.781	13203803	167.287	ng/ml
62) S	DCBP (S)	9.524	31099833	228.945	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	5.691	6609	1.434	ng/ml
3)	Aroclor 1016 (2)	6.106	4894	0.556	ng/ml
4)	Aroclor 1016 (3)	6.212	2814	0.588	ng/ml
5)	Aroclor 1016 (4)	6.340	2422	0.546	ng/ml
6)	Aroclor 1016 (5)	6.564	2014	0.394	ng/ml
7)	Aroclor 1016 (6)	6.693	1586	0.429	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.136	291764	214.011	ng/ml
10)	Aroclor 1221 (2)	5.296f	15693	17.035	ng/ml
11)	Aroclor 1221 (3)	5.324	18038	6.358	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.324	18038	7.624	ng/ml
14)	Aroclor 1232 (2)	6.106	4894	1.364	ng/ml
15)	Aroclor 1232 (3)	6.212	2814	1.430	ng/ml
16)	Aroclor 1232 (4)	6.347	2327	1.532	ng/ml
17)	Aroclor 1232 (5)	6.564	2014	1.043	ng/ml
18)	Aroclor 1232 (6)	6.693	1586	1.007	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	5.691	6609	1.877	ng/ml
21)	Aroclor 1242 (2)	6.106	4894	0.682	ng/ml
22)	Aroclor 1242 (3)	6.212	2814	0.765	ng/ml
23)	Aroclor 1242 (4)	6.340	2422	0.740	ng/ml
24)	Aroclor 1242 (5)	6.564	2014	0.491	ng/ml
25)	Aroclor 1242 (6)	6.693	1586	0.465	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.106	4894	1.122	ng/ml
28)	Aroclor 1248 (2)	6.347	2327	0.408	ng/ml
29)	Aroclor 1248 (3)	6.564	2014	0.311	ng/ml
30)	Aroclor 1248 (4)	6.861	1087	0.148	ng/ml
31)	Aroclor 1248 (5)	6.893	1466	0.194	ng/ml
32)	Aroclor 1248 (6)	7.378	1964	0.479	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	6.893	1466	0.165	ng/ml
35)	Aroclor 1254 (2)	7.007	1524	0.138	ng/ml
36)	Aroclor 1254 (3)	7.378	1964	0.118	ng/ml
37)	Aroclor 1254 (4)	7.539	1820	0.171	ng/ml
38)	Aroclor 1254 (5)	7.928	6887	0.595	ng/ml
39)	Aroclor 1254 (6)	8.211	970	0.260	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	7.491	2696	0.265	ng/ml
42)	Aroclor 1260 (2)	7.626	2967	0.235	ng/ml
43)	Aroclor 1260 (3)	8.176	1347	0.142	ng/ml
44)	Aroclor 1260 (4)	8.345	19985	0.888	ng/ml
45)	Aroclor 1260 (5)	8.647	4833	0.318	ng/ml
46)	Aroclor 1260 (6)	9.033	13226	2.154	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B27016\
Data File : ECD2F004.D
Signal(s) : ECD1A.CH
Acq On : 27 Feb 2020 8:24
Operator : MJB / KAK
Sample : 0020809-BLK1
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 28 09:19:20 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

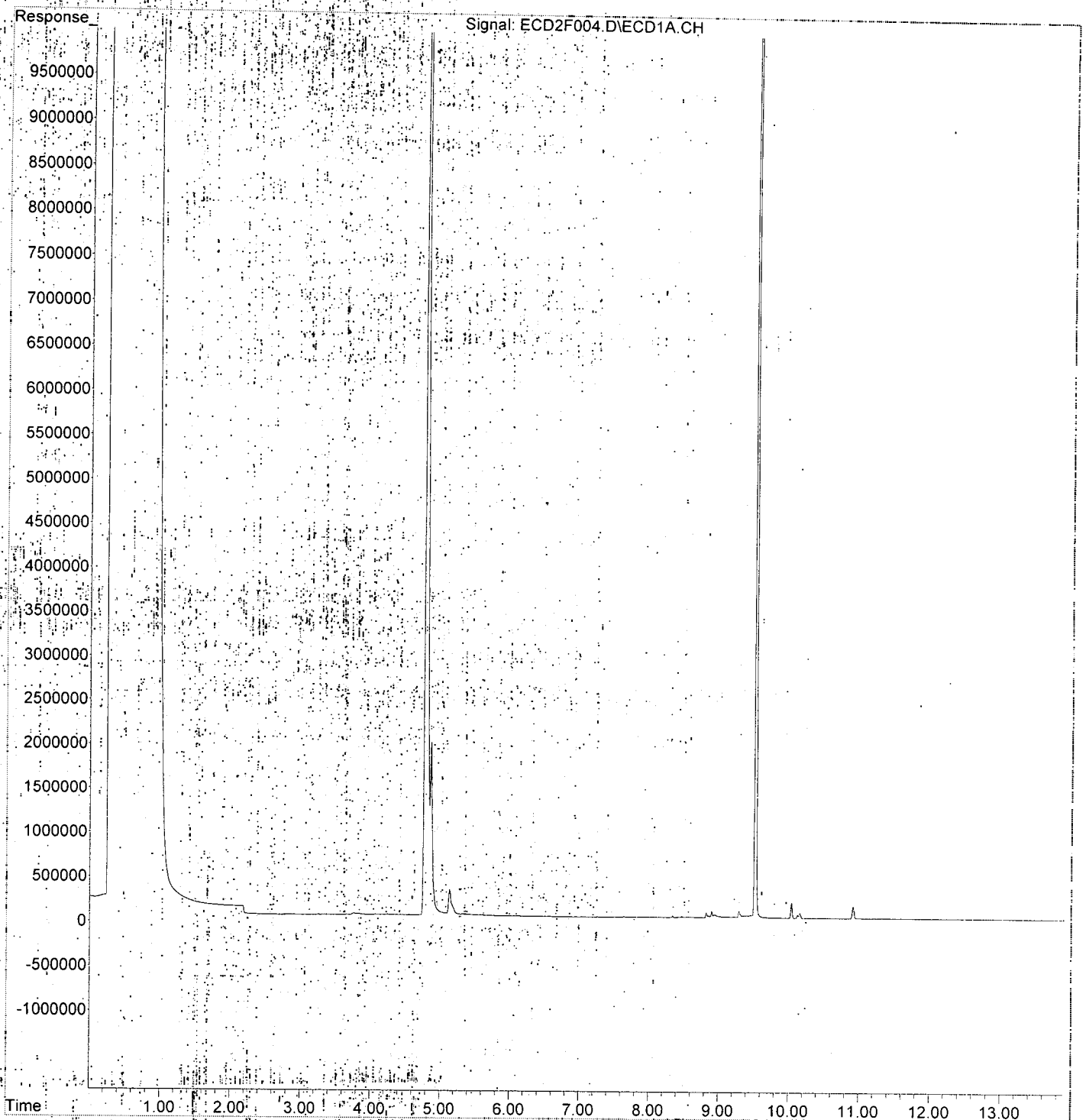
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	7.626	2967	0.276 ng/ml
49)	Aroclor 1262 (2)	7.970	1013	0.066 ng/ml
50)	Aroclor 1262 (3)	8.176	1347	0.106 ng/ml
51)	Aroclor 1262 (4)	8.345	19985	0.706 ng/ml
52)	Aroclor 1262 (5)	8.647	4833	0.267 ng/ml
53)	Aroclor 1262 (6)	9.033	13226	1.461 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.176	1347	0.210 ng/ml
56)	Aroclor 1268 (2)	8.591	3985	0.134 ng/ml
57)	Aroclor 1268 (3)	8.647	4833	0.193 ng/ml
58)	Aroclor 1268 (4)	8.828	60234	2.612 ng/ml
59)	Aroclor 1268 (5)	9.033	13226	1.436 ng/ml
60)	Aroclor 1268 (6)	9.294	75559	1.165 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\0B27016\
Data File : ECD2F004.D
Signal(s) : ECD1A.CH
Acq On : 27 Feb 2020 8:24
Operator : MJB / KAK
Sample : 0020809-BLK1
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 28 09:19:20 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B27016\
Data File : ECD2F005.D
Signal(s) : ECD1A.CH
Acq On : 27 Feb 2020 8:42
Operator : MJB / KAK
Sample : 0020809-BS1
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 28 09:19:42 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

2/28/20

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	4.784	12995867	164.653	ng/ml
62)	S DCBP (S)	9.523	31002357	228.227	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	5.692	3848695	835.266	ng/ml
3)	Aroclor 1016 (2)	6.105	8601685	977.437	ng/ml
4)	Aroclor 1016 (3)	6.186	4079072	852.160	ng/ml
5)	Aroclor 1016 (4)	6.343	3643982	822.155	ng/ml
6)	Aroclor 1016 (5)	6.565	4305320	841.790	ng/ml
7)	Aroclor 1016 (6)	6.690	3065364	829.223	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.134	578464	424.307	ng/ml
10)	Aroclor 1221 (2)	5.250	367628	399.068	ng/ml
11)	Aroclor 1221 (3)	5.332	1733957	611.170	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.332	1733957	732.908	ng/ml
14)	Aroclor 1232 (2)	6.105	8601685	2397.824	ng/ml
15)	Aroclor 1232 (3)	6.186	4079072	2072.481	ng/ml
16)	Aroclor 1232 (4)	6.343	3643982	2398.392	ng/ml
17)	Aroclor 1232 (5)	6.565	4305320	2230.287	ng/ml
18)	Aroclor 1232 (6)	6.690	3065364	1946.310	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	5.692	3848695	1093.122	ng/ml
21)	Aroclor 1242 (2)	6.105	8601685	1199.015	ng/ml
22)	Aroclor 1242 (3)	6.186	4079072	1109.681	ng/ml
23)	Aroclor 1242 (4)	6.343	3643982	1113.003	ng/ml
24)	Aroclor 1242 (5)	6.565	4305320	1050.416	ng/ml
25)	Aroclor 1242 (6)	6.690	3065364	899.476	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.105	8601685	1971.922	ng/ml
28)	Aroclor 1248 (2)	6.343	3643982	638.730	ng/ml
29)	Aroclor 1248 (3)	6.565	4305320	664.968	ng/ml
30)	Aroclor 1248 (4)	6.858	878300	119.428	ng/ml
31)	Aroclor 1248 (5)	6.892	3114972	412.821	ng/ml
32)	Aroclor 1248 (6)	7.378	7341032	1789.015	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	6.892	3114972	351.557	ng/ml
35)	Aroclor 1254 (2)	7.002	3508613	316.600	ng/ml
36)	Aroclor 1254 (3)	7.378	7341032	441.188	ng/ml
37)	Aroclor 1254 (4)	7.539	998567	93.958	ng/ml
38)	Aroclor 1254 (5)	7.918	10068995	869.210	ng/ml
39)	Aroclor 1254 (6)	8.209	1003918	269.091	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	7.491	9867297	970.046	ng/ml
42)	Aroclor 1260 (2)	7.625	12447764	984.622	ng/ml
43)	Aroclor 1260 (3)	8.180	9598986	1010.096	ng/ml
44)	Aroclor 1260 (4)	8.350	24956621	1109.387	ng/ml
45)	Aroclor 1260 (5)	8.648	15167308	997.949	ng/ml
46)	Aroclor 1260 (6)	9.037	6336159	1032.136	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B27016\
Data File : ECD2F005.D
Signal(s) : ECD1A.CH
Acq On : 27 Feb 2020 8:42
Operator : MJB / KAK
Sample : 0020809-BS1
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 28 09:19:42 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

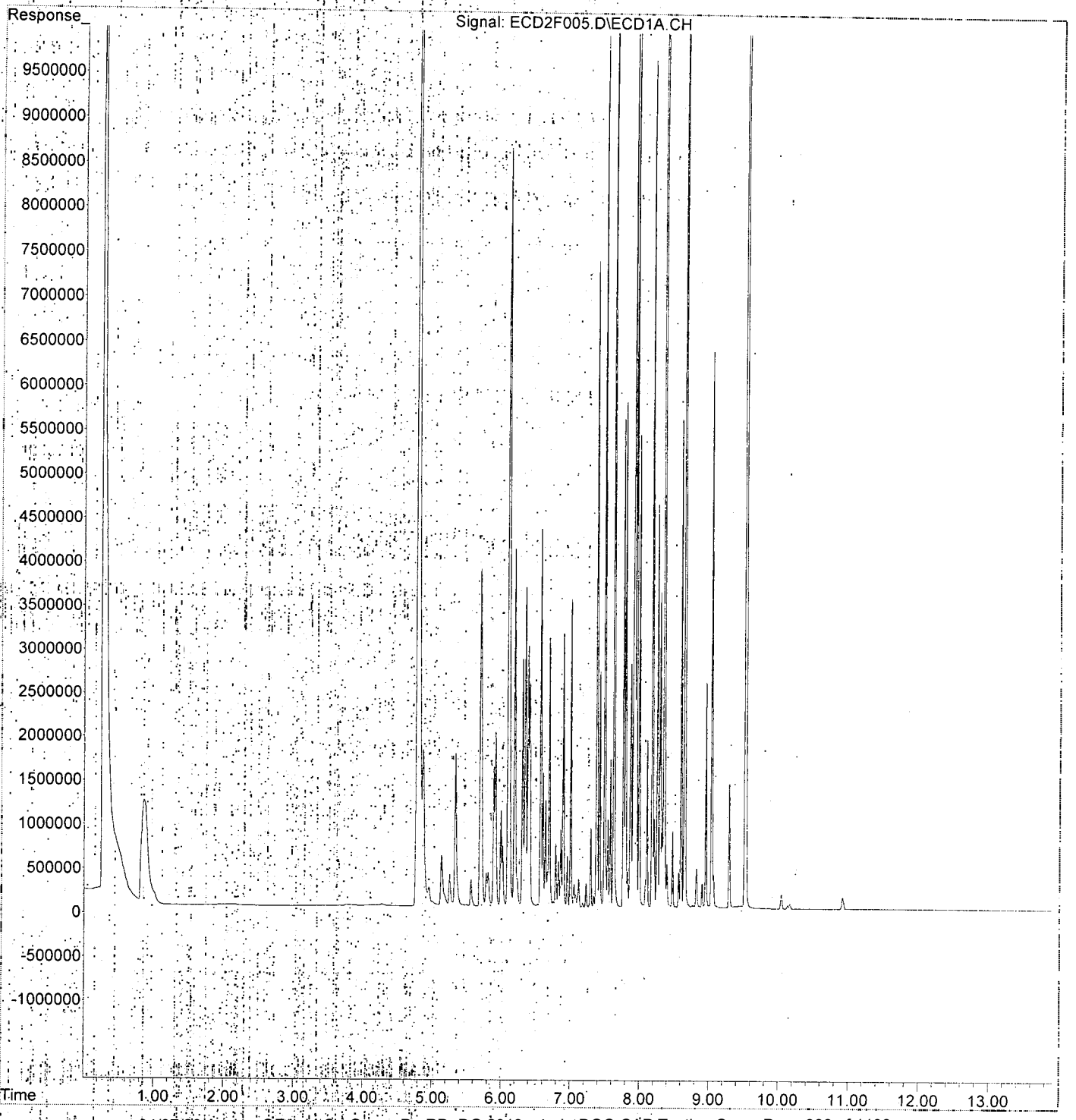
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	7.625	12447764	1158.526	ng/ml
49)	Aroclor 1262 (2)	7.948	9951222	649.506	ng/ml
50)	Aroclor 1262 (3)	8.180	9598986	751.935	ng/ml
51)	Aroclor 1262 (4)	8.350	24956621	881.760	ng/ml
52)	Aroclor 1262 (5)	8.648	15167308	839.192	ng/ml
53)	Aroclor 1262 (6)	9.037	6336159	699.760	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	8.180	9598986	1493.727	ng/ml
56)	Aroclor 1268 (2)	8.596	5556988	187.213	ng/ml
57)	Aroclor 1268 (3)	8.648	15167308	607.221	ng/ml
58)	Aroclor 1268 (4)	8.821	453890	19.681	ng/ml
59)	Aroclor 1268 (5)	9.037	6336159	687.962	ng/ml
60)	Aroclor 1268 (6)	9.291	1410411	21.745	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\0B27016\
Data File : ECD2F005.D
Signal(s) : ECD1A.CH
Acq On : 27 Feb 2020 8:42
Operator : MJB / KAK
Sample : 0020809-BS1
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 28 09:19:42 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B27016\
Data File : ECD2F016.D
Signal(s) : ECD1A.CH
Acq On : 27 Feb 2020 11:56
Operator : MJB / KAK
Sample : 0B27016-CCV2
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 28 09:21:54 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

2/28/20

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	4.782	17783177	225.306	ng/ml
62)	S DCBP (S)	9.523	31814778	234.208	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	5.693	1914387	415.471	ng/ml
3)	Aroclor 1016 (2)	6.104	3915400	444.920	ng/ml
4)	Aroclor 1016 (3)	6.186	2050848	428.443	ng/ml
5)	Aroclor 1016 (4)	6.343	2005860	452.562	ng/ml
6)	Aroclor 1016 (5)	6.565	2169357	424.160	ng/ml
7)	Aroclor 1016 (6)	6.691	1521126	411.486	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.132	195908	143.700	ng/ml
10)	Aroclor 1221 (2)	5.251	204045	221.495	ng/ml
11)	Aroclor 1221 (3)	5.331	871711	307.253	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.331	871711	368.454	ng/ml
14)	Aroclor 1232 (2)	6.104	3915400	1091.465	ng/ml
15)	Aroclor 1232 (3)	6.186	2050848	1041.988	ng/ml
16)	Aroclor 1232 (4)	6.343	2005860	1320.215	ng/ml
17)	Aroclor 1232 (5)	6.565	2169357	1123.793	ng/ml
18)	Aroclor 1232 (6)	6.691	1521126	965.818	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	5.693	1914387	543.732	ng/ml
21)	Aroclor 1242 (2)	6.104	3915400	545.779	ng/ml
22)	Aroclor 1242 (3)	6.186	2050848	557.918	ng/ml
23)	Aroclor 1242 (4)	6.343	2005860	612.662	ng/ml
24)	Aroclor 1242 (5)	6.565	2169357	529.282	ng/ml
25)	Aroclor 1242 (6)	6.691	1521126	446.347	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.104	3915400	897.599	ng/ml
28)	Aroclor 1248 (2)	6.343	2005860	351.595	ng/ml
29)	Aroclor 1248 (3)	6.565	2169357	335.063	ng/ml
30)	Aroclor 1248 (4)	6.859	407771	55.447	ng/ml
31)	Aroclor 1248 (5)	6.893	1486650	197.023	ng/ml
32)	Aroclor 1248 (6)	7.379	3376990	822.975	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	6.893	1486650	167.784	ng/ml
35)	Aroclor 1254 (2)	7.003	1566787	141.379	ng/ml
36)	Aroclor 1254 (3)	7.379	3376990	202.953	ng/ml
37)	Aroclor 1254 (4)	7.540	462778	43.544	ng/ml
38)	Aroclor 1254 (5)	7.918	4496035	388.122	ng/ml
39)	Aroclor 1254 (6)	8.210	488118	130.836	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	7.491	4425059	435.024	ng/ml
42)	Aroclor 1260 (2)	7.625	5593588	442.455	ng/ml
43)	Aroclor 1260 (3)	8.180	4057002	426.916	ng/ml
44)	Aroclor 1260 (4)	8.350	10237588	455.088	ng/ml
45)	Aroclor 1260 (5)	8.649	6743307	443.683	ng/ml
46)	Aroclor 1260 (6)	9.036	2765451	450.482	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B27016\
Data File : ECD2F016.D
Signal(s) : ECD1A.CH
Acq On : 27 Feb 2020 11:56
Operator : MJB / KAK
Sample : 0B27016-CCV2
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 28 09:21:54 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

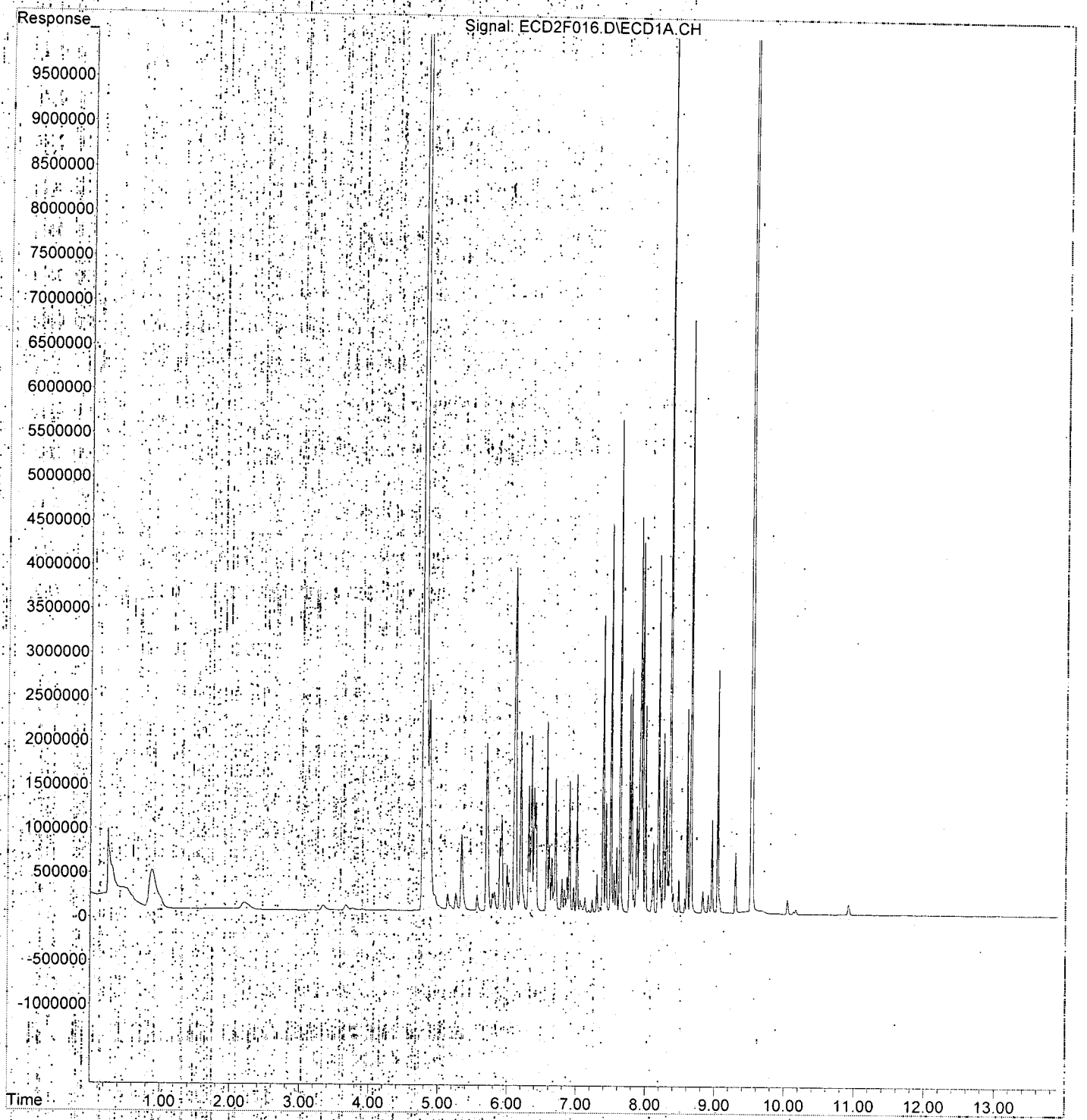
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	7.625	5593588	520.601 ng/ml
49)	Aroclor 1262 (2)	7.948	4205642	274.498 ng/ml
50)	Aroclor 1262 (3)	8.180	4057002	317.805 ng/ml
51)	Aroclor 1262 (4)	8.350	10237588	361.712 ng/ml
52)	Aroclor 1262 (5)	8.649	6743307	373.100 ng/ml
53)	Aroclor 1262 (6)	9.036	2765451	305.414 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.180	4057002	631.322 ng/ml
56)	Aroclor 1268 (2)	8.596	2321351	78.206 ng/ml
57)	Aroclor 1268 (3)	8.649	6743307	269.967 ng/ml
58)	Aroclor 1268 (4)	8.823	254208	11.022 ng/ml
59)	Aroclor 1268 (5)	9.036	2765451	300.265 ng/ml
60)	Aroclor 1268 (6)	9.292	697140	10.748 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\0B27016\
Data File : ECD2F016.D
Signal(s) : ECD1A.CH
Acq On : 27 Feb 2020 11:56
Operator : MJB / KAK
Sample : 0B27016-CCV2
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 28 09:21:54 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B27016\
Data File : ECD2F017.D
Signal(s) : ECD1A.CH
Acq On : 27 Feb 2020 12:14
Operator : MJB / KAK
Sample : 0B27016-CCB2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 28 09:22:15 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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clear

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	4.780	6493494	82.270	ng/ml
62)	S DCBP (S)	9.524	13461805	99.100	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	5.690	5446	1.182	ng/ml
3)	Aroclor 1016 (2)	6.122	6770	0.769	ng/ml
4)	Aroclor 1016 (3)	6.178	3290	0.687	ng/ml
5)	Aroclor 1016 (4)	6.340	2690	0.607	ng/ml
6)	Aroclor 1016 (5)	6.561	2549	0.498	ng/ml
7)	Aroclor 1016 (6)	6.696	2014	0.545	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.133	16428	12.050	ng/ml
10)	Aroclor 1221 (2)	5.289	13896	15.084	ng/ml
11)	Aroclor 1221 (3)	5.339	12239	4.314	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.339	12239	5.173	ng/ml
14)	Aroclor 1232 (2)	6.122	6770	1.887	ng/ml
15)	Aroclor 1232 (3)	6.178	3290	1.672	ng/ml
16)	Aroclor 1232 (4)	6.340	2690	1.770	ng/ml
17)	Aroclor 1232 (5)	6.570	2674	1.385	ng/ml
18)	Aroclor 1232 (6)	6.696	2014	1.279	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	5.690	5446	1.547	ng/ml
21)	Aroclor 1242 (2)	6.122	6770	0.944	ng/ml
22)	Aroclor 1242 (3)	6.178	3290	0.895	ng/ml
23)	Aroclor 1242 (4)	6.340	2690	0.822	ng/ml
24)	Aroclor 1242 (5)	6.570	2674	0.652	ng/ml
25)	Aroclor 1242 (6)	6.696	2014	0.591	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.122	6770	1.552	ng/ml
28)	Aroclor 1248 (2)	6.348	2728	0.478	ng/ml
29)	Aroclor 1248 (3)	6.570	2674	0.413	ng/ml
30)	Aroclor 1248 (4)	6.865	1990	0.271	ng/ml
31)	Aroclor 1248 (5)	6.903	2048	0.271	ng/ml
32)	Aroclor 1248 (6)	7.377	1103	0.269	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	6.903	2048	0.231	ng/ml
35)	Aroclor 1254 (2)	7.004	949	0.086	ng/ml
36)	Aroclor 1254 (3)	7.377	1103	0.066	ng/ml
37)	Aroclor 1254 (4)	7.543	2317	0.218	ng/ml
38)	Aroclor 1254 (5)	7.927	4234	0.366	ng/ml
39)	Aroclor 1254 (6)	8.209	986	0.264	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	7.493	2287	0.225	ng/ml
42)	Aroclor 1260 (2)	7.628	2104	0.166	ng/ml
43)	Aroclor 1260 (3)	8.179	1497	0.158	ng/ml
44)	Aroclor 1260 (4)	8.348	10040	0.446	ng/ml
45)	Aroclor 1260 (5)	8.653	3499	0.230	ng/ml
46)	Aroclor 1260 (6)	9.033	5672	0.924	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B27016\
Data File : ECD2F017.D
Signal(s) : ECD1A.CH
Acq On : 27 Feb 2020 12:14
Operator : MJB / KAK
Sample : 0B27016-CCB2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 28 09:22:15 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation : 6890 Scale Mode: Small noise peaks clipped

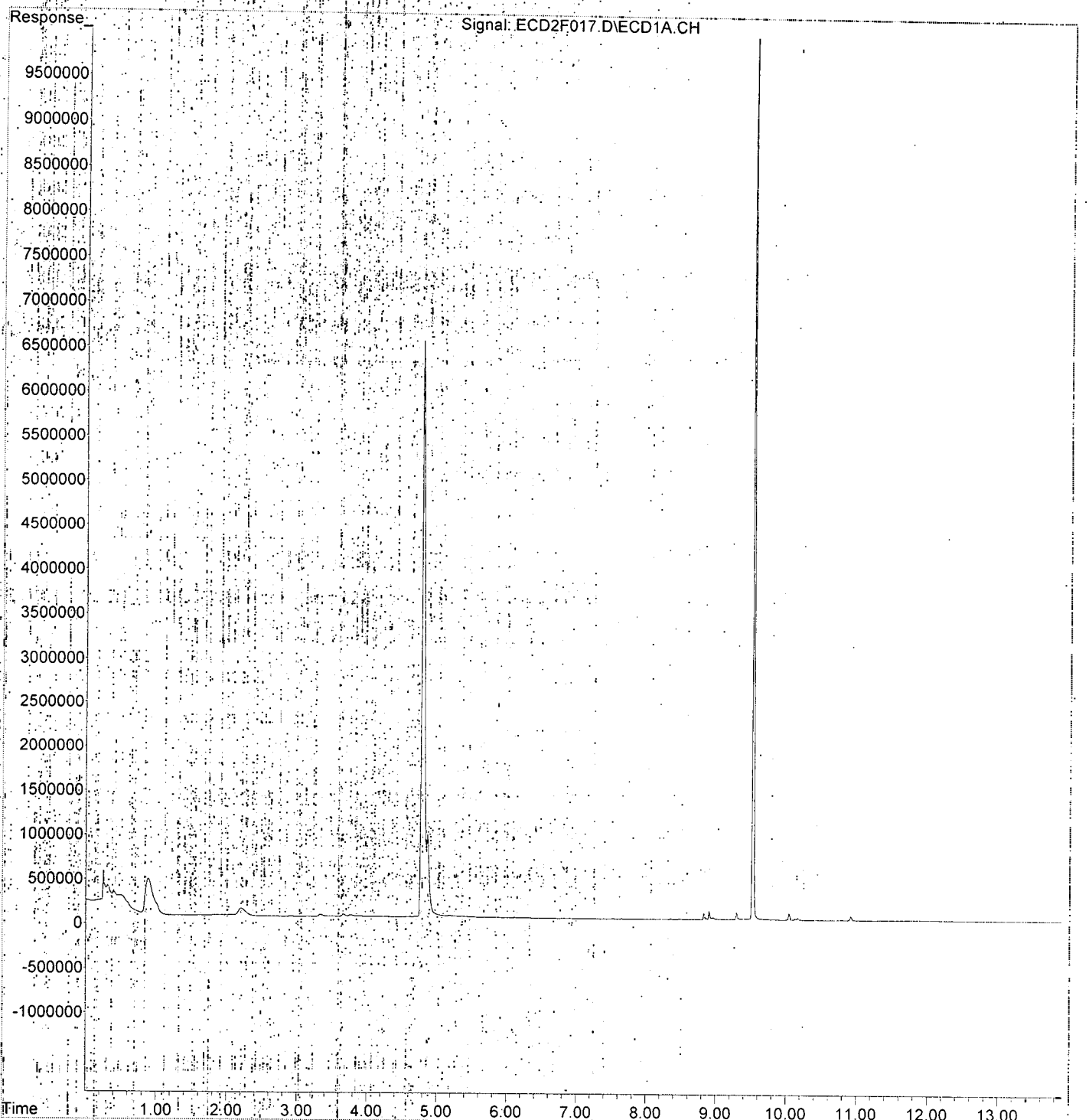
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	7.628	2104	0.196 ng/ml
49)	Aroclor 1262 (2)	7.950	1650	0.108 ng/ml
50)	Aroclor 1262 (3)	8.179	1497	0.117 ng/ml
51)	Aroclor 1262 (4)	8.348	10040	0.355 ng/ml
52)	Aroclor 1262 (5)	8.653	3499	0.194 ng/ml
53)	Aroclor 1262 (6)	9.033	5672	0.626 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.179	1497	0.233 ng/ml
56)	Aroclor 1268 (2)	8.596	1696	0.057 ng/ml
57)	Aroclor 1268 (3)	8.653	3499	0.140 ng/ml
58)	Aroclor 1268 (4)	8.828	72645	3.150 ng/ml
59)	Aroclor 1268 (5)	9.033	5672	0.616 ng/ml
60)	Aroclor 1268 (6)	9.294	85085	1.312 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\0B27016\
Data File : ECD2F017.D
Signal(s) : ECD1A.CH
Acq On : 27 Feb 2020 12:14
Operator : MJB / KAK
Sample : 0B27016-CCB2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 28 09:22:15 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B27016\
Data File : ECD2F028.D
Signal(s) : ECD1A.CH
Acq On : 27 Feb 2020 15:27
Operator : MJB / KAK
Sample : A0B0680-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 28 09:35:44 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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RR-1

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
1)	S TCMX (S)	4.772	11202490	141.931	ng/ml	
62)	S DCBP (S)	9.523	9899703	72.878	ng/ml	S-06
	Target Compounds					
2)	Aroclor 1016 (1)	5.688	191478	41.556	ng/ml	
3)	Aroclor 1016 (2)	6.097	658305	74.805	ng/ml	
4)	Aroclor 1016 (3)	6.181	316418	66.103	ng/ml	
5)	Aroclor 1016 (4)	6.340	634226	143.094	ng/ml	
6)	Aroclor 1016 (5)	6.569	1300104	254.201	ng/ml	
7)	Aroclor 1016 (6)	6.686	626052	169.356	ng/ml	
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml	
9)	Aroclor 1221 (1)	5.128	155359	113.957	ng/ml	
10)	Aroclor 1221 (2)	5.264	56436	61.263	ng/ml	
11)	Aroclor 1221 (3)	5.318	721244	254.218	ng/ml	
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml	
13)	Aroclor 1232 (1)	5.318	721244	304.855	ng/ml	
14)	Aroclor 1232 (2)	6.097	658305	183.511	ng/ml	
15)	Aroclor 1232 (3)	6.181	316418	160.764	ng/ml	
16)	Aroclor 1232 (4)	6.340	634226	417.434	ng/ml	
17)	Aroclor 1232 (5)	6.569	1300104	673.493	ng/ml	
18)	Aroclor 1232 (6)	6.686	626052	397.503	ng/ml	
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml	
20)	Aroclor 1242 (1)	5.688	191478	54.384	ng/ml	
21)	Aroclor 1242 (2)	6.097	658305	91.763	ng/ml	77.409
22)	Aroclor 1242 (3)	6.181	316418	86.079	ng/ml	
23)	Aroclor 1242 (4)	6.340	634226Ø	193.715	ng/ml	
24)	Aroclor 1242 (5)	6.569	1300104Ø	317.201	ng/ml	
25)	Aroclor 1242 (6)	6.686	626052Ø	183.704	ng/ml	
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml	
27)	Aroclor 1248 (1)	6.097	658305	150.915	ng/ml	
28)	Aroclor 1248 (2)	6.340	634226	111.169	ng/ml	
29)	Aroclor 1248 (3)	6.569	1300104	200.804	ng/ml	
30)	Aroclor 1248 (4)	6.857	949753	129.144	ng/ml	
31)	Aroclor 1248 (5)	6.892	1386600	183.763	ng/ml	
32)	Aroclor 1248 (6)	7.372	1441390	351.268	ng/ml	
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml	
34)	Aroclor 1254 (1)	6.892	1386600Ø	156.492	ng/ml	
35)	Aroclor 1254 (2)	7.023	11534299Ø	1040.799	ng/ml	78.190
36)	Aroclor 1254 (3)	7.372	1441390	86.626	ng/ml	
37)	Aroclor 1254 (4)	7.537	840211	79.058	ng/ml	
38)	Aroclor 1254 (5)	7.918	6835653Ø	590.091	ng/ml	
39)	Aroclor 1254 (6)	8.207	256997	68.886	ng/ml	
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml	
41)	Aroclor 1260 (1)	7.490	1212358Ø	119.186	ng/ml	
42)	Aroclor 1260 (2)	7.625	2381017Ø	188.339	ng/ml	85.513
43)	Aroclor 1260 (3)	8.179	728557	76.666	ng/ml	
44)	Aroclor 1260 (4)	8.349	2075815	92.275	ng/ml	
45)	Aroclor 1260 (5)	8.648	1394296	91.739	ng/ml	
46)	Aroclor 1260 (6)	9.037	499519	81.370	ng/ml	
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml	

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B27016\
Data File : ECD2F028.D
Signal(s) : ECD1A.CH
Acq On : 27 Feb 2020 15:27
Operator : MJB / KAK
Sample : A0B0680-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 28 09:35:44 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

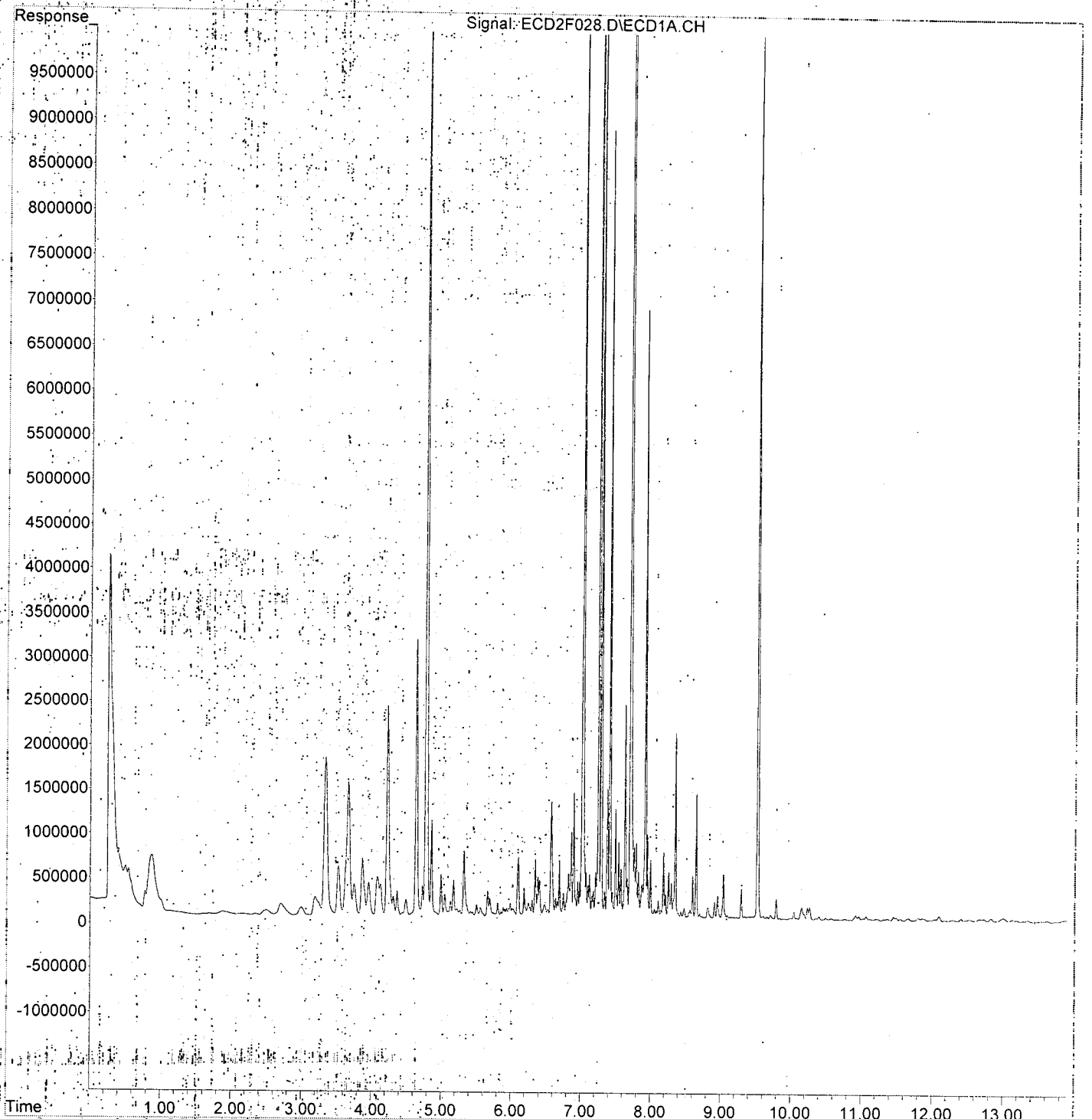
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	7.625	2381017	221.604	ng/ml
49)	Aroclor 1262 (2)	7.947	927404	60.531	ng/ml
50)	Aroclor 1262 (3)	8.179	728557	57.071	ng/ml
51)	Aroclor 1262 (4)	8.349	2075815	73.342	ng/ml
52)	Aroclor 1262 (5)	8.648	1394296	77.145	ng/ml
53)	Aroclor 1262 (6)	9.037	499519	55.166	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	8.179	728557	113.373	ng/ml
56)	Aroclor 1268 (2)	8.596	471155	15.873	ng/ml
57)	Aroclor 1268 (3)	8.648	1394296	55.820	ng/ml
58)	Aroclor 1268 (4)	8.811	118403	5.134	ng/ml
59)	Aroclor 1268 (5)	9.037	499519	54.236	ng/ml
60)	Aroclor 1268 (6)	9.293	333285	5.138	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\0B27016\
Data File : ECD2F028.D
Signal(s) : ECD1A.CH
Acq On : 27 Feb 2020 15:27
Operator : MJB / KAK
Sample : A0B0680-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 28 09:35:44 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B27016\
Data File : ECD2F030.D
Signal(s) : ECD1A.CH
Acq On : 27 Feb 2020 16:03
Operator : MJB / KAK
Sample : 0B27016-CCV3
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 28 09:36:06 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

2/28/20

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	4.780	19545587	247.636	ng/ml
62) S	DCBP (S)	9.526	35540272	261.633	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	5.692	2173678	471.744	ng/ml
3)	Aroclor 1016 (2)	6.105	4491727	510.410	ng/ml
4)	Aroclor 1016 (3)	6.187	2268934	474.004	ng/ml
5)	Aroclor 1016 (4)	6.344	2070311	467.103	ng/ml
6)	Aroclor 1016 (5)	6.566	2379018	465.153	ng/ml
7)	Aroclor 1016 (6)	6.692	1723268	466.168	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.133	210932	154.720	ng/ml
10)	Aroclor 1221 (2)	5.250	223255	242.348	ng/ml
11)	Aroclor 1221 (3)	5.333	956451	337.122	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.333	956451	404.272	ng/ml
14)	Aroclor 1232 (2)	6.105	4491727	1252.124	ng/ml
15)	Aroclor 1232 (3)	6.187	2268934	1152.792	ng/ml
16)	Aroclor 1232 (4)	6.344	2070311	1362.636	ng/ml
17)	Aroclor 1232 (5)	6.566	2379018	1232.404	ng/ml
18)	Aroclor 1232 (6)	6.692	1723268	1094.165	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	5.692	2173678	617.377	ng/ml
21)	Aroclor 1242 (2)	6.105	4491727	626.115	ng/ml
22)	Aroclor 1242 (3)	6.187	2268934	617.246	ng/ml
23)	Aroclor 1242 (4)	6.344	2070311	632.348	ng/ml
24)	Aroclor 1242 (5)	6.566	2379018	580.435	ng/ml
25)	Aroclor 1242 (6)	6.692	1723268	505.662	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.105	4491727	1029.721	ng/ml
28)	Aroclor 1248 (2)	6.344	2070311	362.892	ng/ml
29)	Aroclor 1248 (3)	6.566	2379018	367.446	ng/ml
30)	Aroclor 1248 (4)	6.860	467672	63.592	ng/ml
31)	Aroclor 1248 (5)	6.893	1647004	218.274	ng/ml
32)	Aroclor 1248 (6)	7.379	3762116	916.830	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	6.893	1647004	185.882	ng/ml
35)	Aroclor 1254 (2)	7.004	1738288	156.855	ng/ml
36)	Aroclor 1254 (3)	7.379	3762116	226.099	ng/ml
37)	Aroclor 1254 (4)	7.540	494903	46.567	ng/ml
38)	Aroclor 1254 (5)	7.919	4813267	415.507	ng/ml
39)	Aroclor 1254 (6)	8.210	523123	140.218	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	7.492	4875118	479.269	ng/ml
42)	Aroclor 1260 (2)	7.626	6249063	494.303	ng/ml
43)	Aroclor 1260 (3)	8.181	4698553	494.426	ng/ml
44)	Aroclor 1260 (4)	8.351	11375207	505.658	ng/ml
45)	Aroclor 1260 (5)	8.649	7478395	492.049	ng/ml
46)	Aroclor 1260 (6)	9.038	3047541	496.433	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B27016\
Data File : ECD2F030.D
Signal(s) : ECD1A.CH
Acq On : 27 Feb 2020 16:03
Operator : MJB / KAK
Sample : 0B27016-CCV3
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 28 09:36:06 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

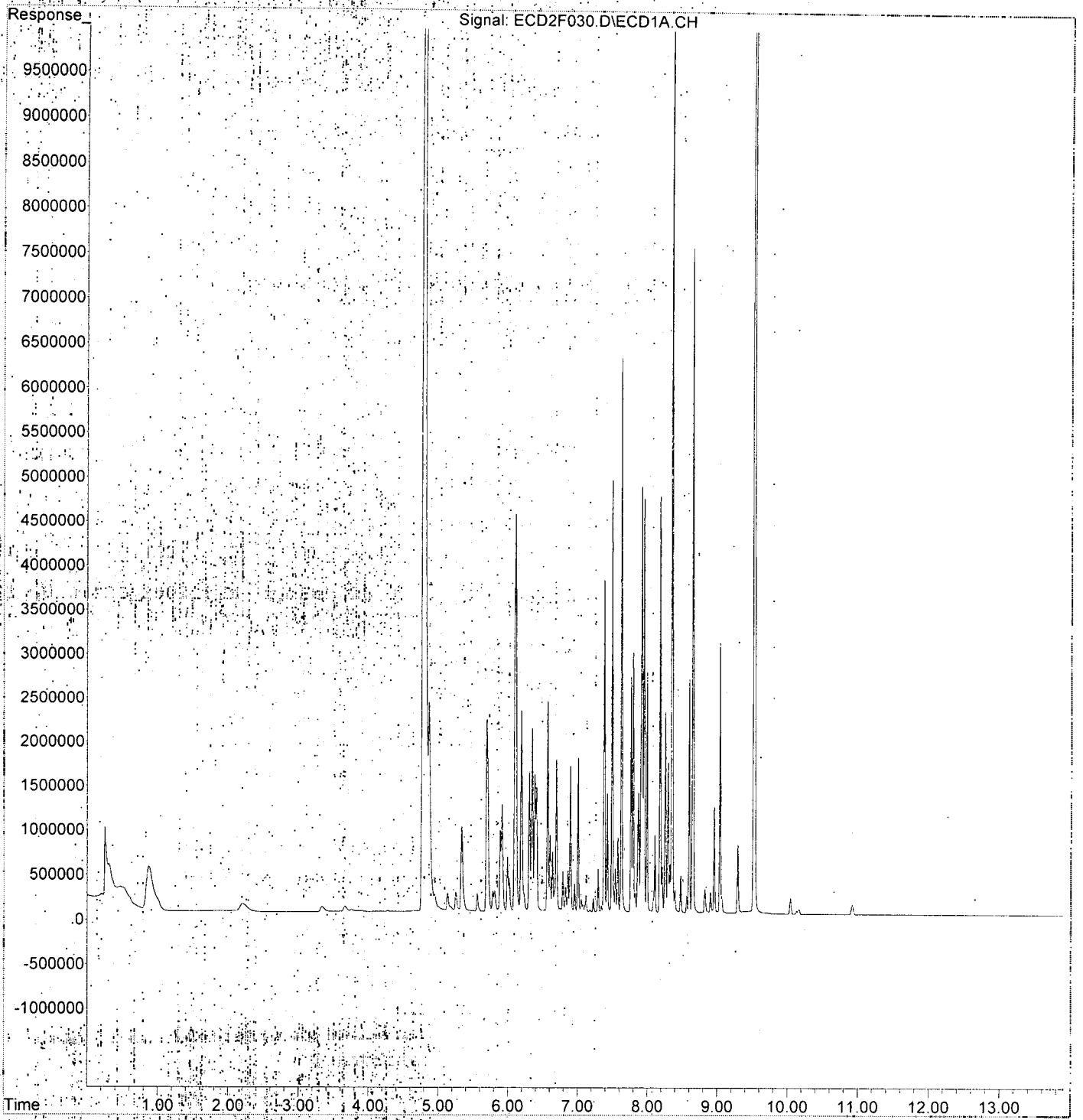
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	7.626	6249063	581.607 ng/ml
49)	Aroclor 1262 (2)	7.949	4675972	305.196 ng/ml
50)	Aroclor 1262 (3)	8.181	4698553	368.060 ng/ml
51)	Aroclor 1262 (4)	8.351	11375207	401.906 ng/ml
52)	Aroclor 1262 (5)	8.649	7478395	413.772 ng/ml
53)	Aroclor 1262 (6)	9.038	3047541	336.568 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.181	4698553	731.156 ng/ml
56)	Aroclor 1268 (2)	8.597	2626693	88.493 ng/ml
57)	Aroclor 1268 (3)	8.649	7478395	299.396 ng/ml
58)	Aroclor 1268 (4)	8.824	275138	11.930 ng/ml
59)	Aroclor 1268 (5)	9.038	3047541	330.893 ng/ml
60)	Aroclor 1268 (6)	9.293	766206	11.813 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\0B27016\
Data File : ECD2F030.D
Signal(s) : ECD1A.CH
Acq On : 27 Feb 2020 16:03
Operator : MJB / KAK
Sample : 0B27016-CCV3
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 28 09:36:06 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B27016\
Data File : ECD2F031.D
Signal(s) : ECD1A.CH
Acq On : 27 Feb 2020 16:20
Operator : MJB / KAK
Sample : 0B27016-CCB3
Misc
ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 28 09:36:28 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

2/28/20
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		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
1)	S	TCMX (S)	4.781	6871318	87.057	ng/ml
62)	S	DCBP (S)	9.524	13639642	100.410	ng/ml
		Target Compounds				
2)		Aroclor 1016 (1)	5.691	6627	1.438	ng/ml
3)		Aroclor 1016 (2)	6.090	5075	0.577	ng/ml
4)		Aroclor 1016 (3)	6.186	4805	1.004	ng/ml
5)		Aroclor 1016 (4)	6.345	3967	0.895	ng/ml
6)		Aroclor 1016 (5)	6.563	4431	0.866	ng/ml
7)		Aroclor 1016 (6)	6.695	3512	0.950	ng/ml
8)		Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)		Aroclor 1221 (1)	5.140	17012	12.479	ng/ml
10)		Aroclor 1221 (2)	5.259	16119	17.498	ng/ml
11)		Aroclor 1221 (3)	5.336	13157	4.637	ng/ml
12)		Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)		Aroclor 1232 (1)	5.336	13157	5.561	ng/ml
14)		Aroclor 1232 (2)	6.090	5075	1.415	ng/ml
15)		Aroclor 1232 (3)	6.186	4805	2.441	ng/ml
16)		Aroclor 1232 (4)	6.345	3967	2.611	ng/ml
17)		Aroclor 1232 (5)	6.563	4431	2.296	ng/ml
18)		Aroclor 1232 (6)	6.695	3512	2.230	ng/ml
19)		Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)		Aroclor 1242 (1)	5.691	6627	1.882	ng/ml
21)		Aroclor 1242 (2)	6.090	5075	0.707	ng/ml
22)		Aroclor 1242 (3)	6.186	4805	1.307	ng/ml
23)		Aroclor 1242 (4)	6.345	3967	1.212	ng/ml
24)		Aroclor 1242 (5)	6.563	4431	1.081	ng/ml
25)		Aroclor 1242 (6)	6.695	3512	1.031	ng/ml
26)		Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)		Aroclor 1248 (1)	6.090	5075	1.163	ng/ml
28)		Aroclor 1248 (2)	6.345	3967	0.695	ng/ml
29)		Aroclor 1248 (3)	6.570	4451	0.688	ng/ml
30)		Aroclor 1248 (4)	6.864	3815	0.519	ng/ml
31)		Aroclor 1248 (5)	6.900	3819	0.506	ng/ml
32)		Aroclor 1248 (6)	7.385	2923	0.712	ng/ml
33)		Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)		Aroclor 1254 (1)	6.889	3626	0.409	ng/ml
35)		Aroclor 1254 (2)	7.004	2343	0.211	ng/ml
36)		Aroclor 1254 (3)	7.385	2923	0.176	ng/ml
37)		Aroclor 1254 (4)	7.544	3418	0.322	ng/ml
38)		Aroclor 1254 (5)	7.928	4480	0.387	ng/ml
39)		Aroclor 1254 (6)	8.213	756	0.203	ng/ml
40)		Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)		Aroclor 1260 (1)	7.493	3728	0.366	ng/ml
42)		Aroclor 1260 (2)	7.626	2925	0.231	ng/ml
43)		Aroclor 1260 (3)	8.177	1559	0.164	ng/ml
44)		Aroclor 1260 (4)	8.348	10748	0.478	ng/ml
45)		Aroclor 1260 (5)	8.652	3137	0.206	ng/ml
46)		Aroclor 1260 (6)	9.031	5389	0.878	ng/ml
47)		Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B27016\
Data File : ECD2F031.D
Signal(s) : ECD1A.CH
Acq On : 27 Feb 2020 16:20
Operator : MJB / KAK
Sample : 0B27016-CCB3
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 28 09:36:28 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

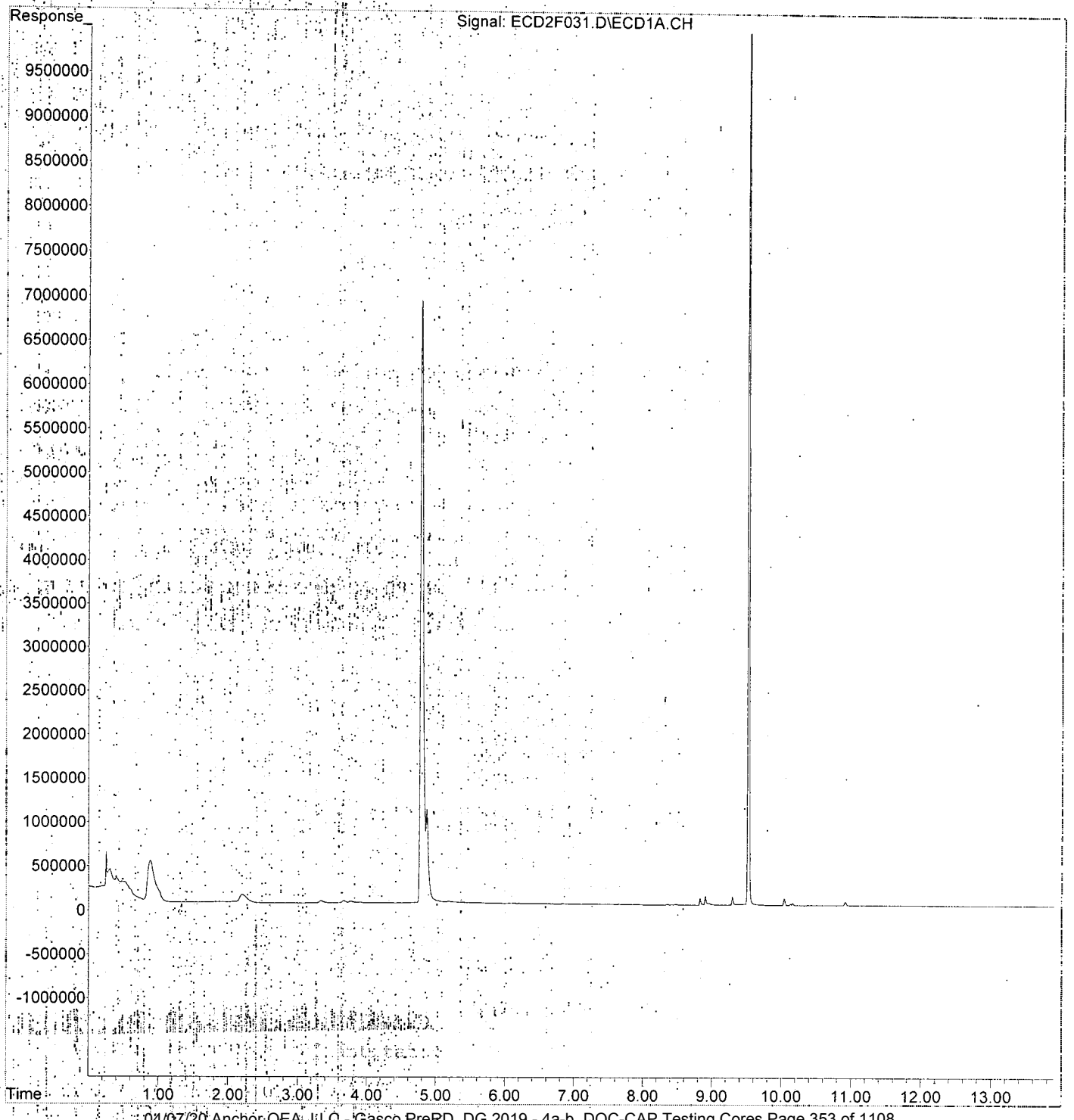
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	7.626	2925	0.272 ng/ml
49)	Aroclor 1262 (2)	7.928	4480	0.292 ng/ml
50)	Aroclor 1262 (3)	8.177	1559	0.122 ng/ml
51)	Aroclor 1262 (4)	8.348	10748	0.380 ng/ml
52)	Aroclor 1262 (5)	8.652	3137	0.174 ng/ml
53)	Aroclor 1262 (6)	9.031	5389	0.595 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.177	1559	0.243 ng/ml
56)	Aroclor 1268 (2)	8.596	1595	0.054 ng/ml
57)	Aroclor 1268 (3)	8.652	3137	0.126 ng/ml
58)	Aroclor 1268 (4)	8.829	80728	3.500 ng/ml
59)	Aroclor 1268 (5)	9.031	5389	0.585 ng/ml
60)	Aroclor 1268 (6)	9.295	99660	1.537 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\0B27016\
Data File : ECD2F031.D
Signal(s) : ECD1A.CH
Acq On : 27 Feb 2020 16:20
Operator : MJB / KAK
Sample : 0B27016-CCB3
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 28 09:36:28 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 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

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

1/16/20

		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

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

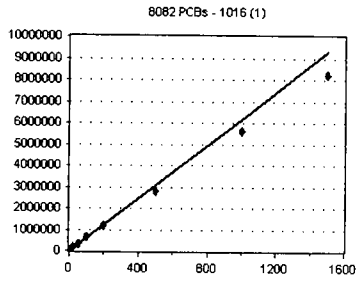
Element Calibration Review Sheet

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**

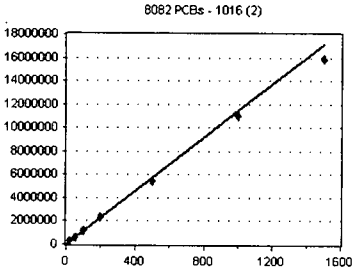


Standard	Concentration	Response	Response Factor	RT
0A13050-CAL1	20	145279	7263.950	6.30
0A13050-CAL2	50	343821	6876.420	6.30
0A13050-CAL3	100	639728	6397.280	6.30
0A13050-CAL4	200	1190843	5954.215	6.30
0A13050-CAL5	500	2835860	5671.720	6.30
0A13050-CAL6	1000	5624087	5624.087	6.30
0A13050-CAL7	1500	8229290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

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

1016 (2)

Curve Fit: **AVERAGE RF**

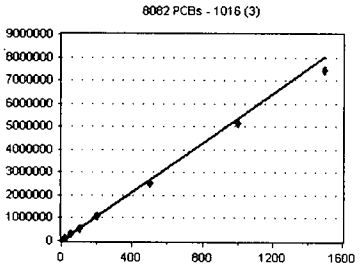


Standard	Concentration	Response	Response Factor	RT
0A13050-CAL1	20	249458	12472.900	6.79
0A13050-CAL2	50	597996	11959.920	6.79
0A13050-CAL3	100	1142660	11426.600	6.79
0A13050-CAL4	200	2334544	11672.720	6.79
0A13050-CAL5	500	5484312	10968.620	6.79
0A13050-CAL6	1000	102544E+07	11025.440	6.79
0A13050-CAL7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

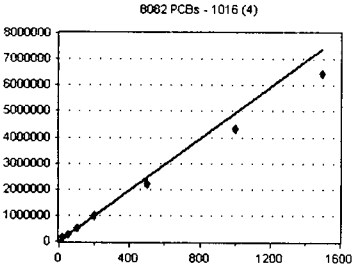


Standard	Concentration	Response	Response Factor	RT
0A13050-CAL1	20	116035	5801.750	6.92
0A13050-CAL2	50	290069	5801.380	6.92
0A13050-CAL3	100	536991	5369.910	6.92
0A13050-CAL4	200	1067264	5336.320	6.92
0A13050-CAL5	500	2538905	5077.810	6.92
0A13050-CAL6	1000	5145954	5145.954	6.92
0A13050-CAL7	1500	7443643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

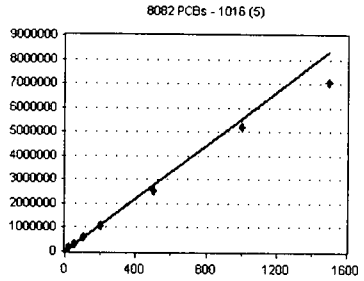
AVE RF **4940.762** RF RSD **12.78** AVE RT **7.00**

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)

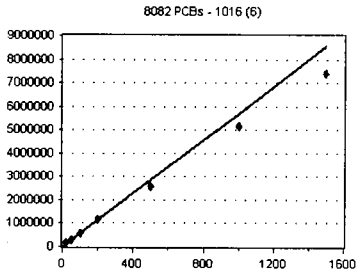


Curve Fit: **AVERAGE RF**

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)

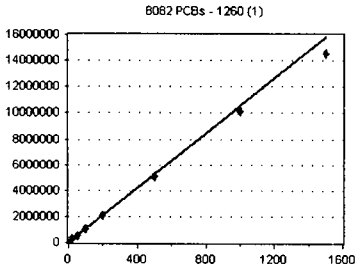


Curve Fit: **AVERAGE RF**

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)

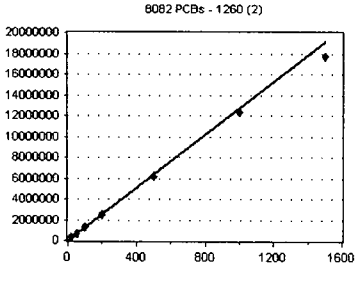


Curve Fit: **AVERAGE RF**

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**

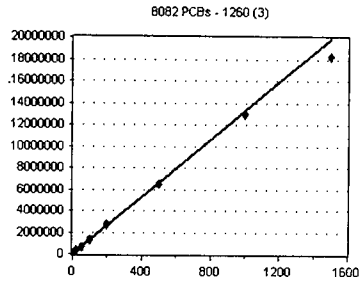
Element Calibration Review Sheet

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**

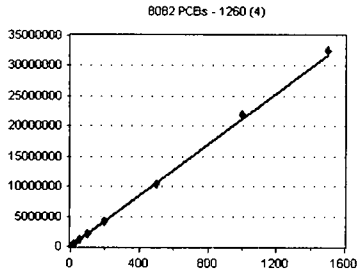


Standard	Concentration	Response	Response Factor	RT
0A13050-CAL1	20	282360	14118.000	8.58
0A13050-CAL2	50	674172	13483.440	8.58
0A13050-CAL3	100	1327338	13273.380	8.58
0A13050-CAL4	200	2744238	13721.190	8.58
0A13050-CAL5	500	6540031	13080.060	8.58
0A13050-CAL6	1000	296167E+07	12961.670	8.58
0A13050-CAL7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

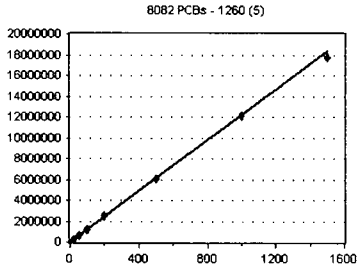


Standard	Concentration	Response	Response Factor	RT
0A13050-CAL1	20	414593	20729.650	9.07
0A13050-CAL2	50	1047953	20959.060	9.07
0A13050-CAL3	100	2051063	20510.630	9.07
0A13050-CAL4	200	4251874	21259.370	9.07
0A13050-CAL5	500	049673E+07	20993.460	9.07
0A13050-CAL6	1000	188659E+07	21886.590	9.07
0A13050-CAL7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

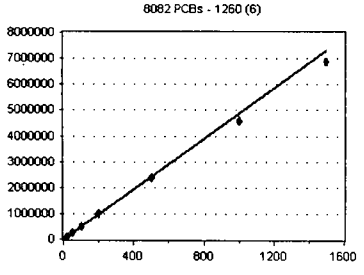


Standard	Concentration	Response	Response Factor	RT
0A13050-CAL1	20	257901	12895.050	9.33
0A13050-CAL2	50	608364	12167.280	9.33
0A13050-CAL3	100	1220407	12204.070	9.33
0A13050-CAL4	200	2471890	12359.450	9.33
0A13050-CAL5	500	6070844	12141.690	9.33
0A13050-CAL6	1000	207436E+07	12074.360	9.33
0A13050-CAL7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

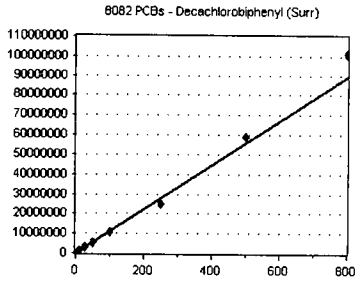
Element Calibration Review Sheet

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

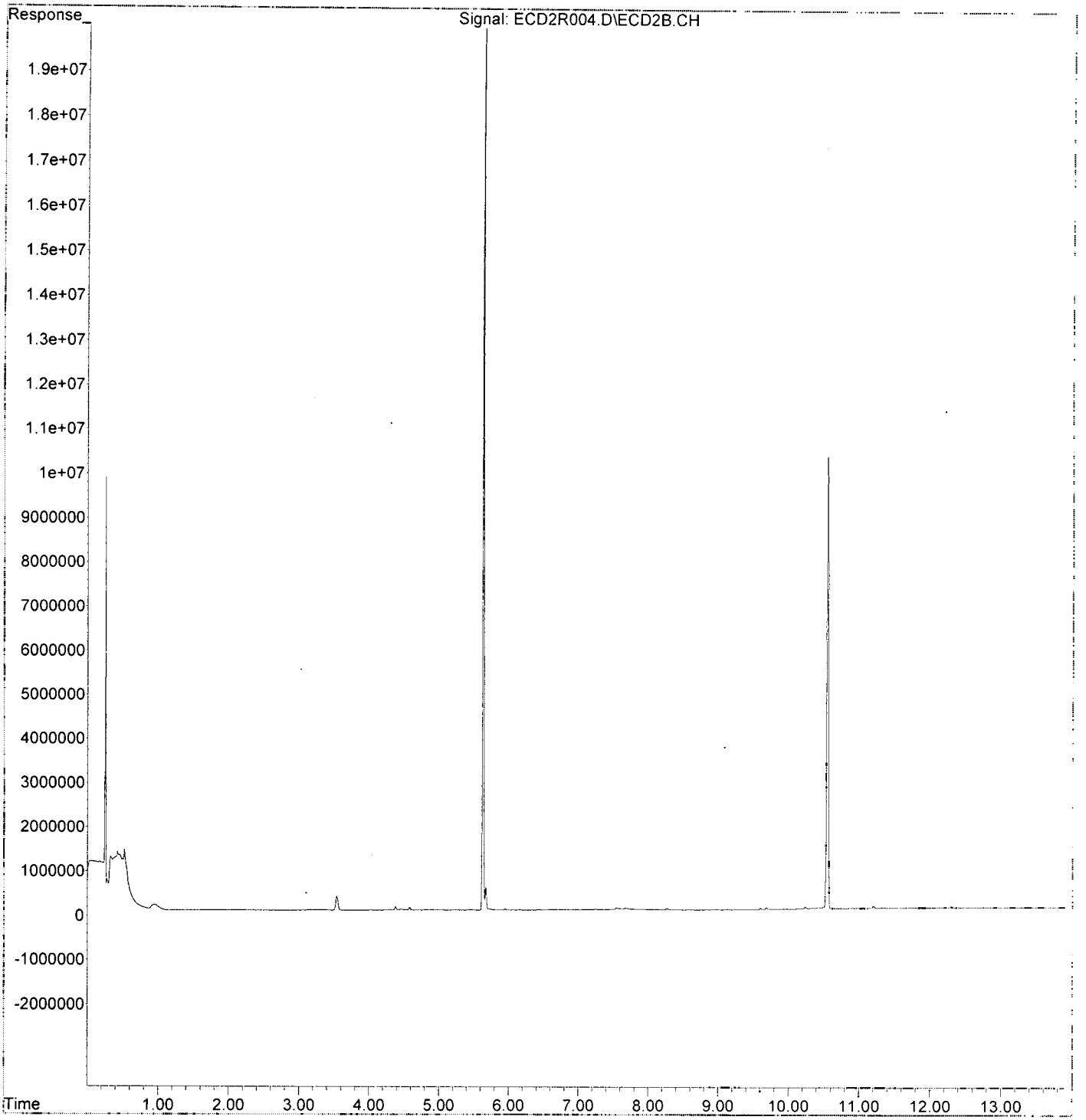
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	8.351	8866	0.839 ng/ml
49)	Aroclor 1262 (2)	8.652	2754	0.180 ng/ml
50)	Aroclor 1262 (3)	8.829	2251	0.176 ng/ml
51)	Aroclor 1262 (4)	9.066	3813	0.139 ng/ml
52)	Aroclor 1262 (5)	9.322	4847	0.295 ng/ml
53)	Aroclor 1262 (6)	9.899	14949	2.076 ng/ml
54)	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

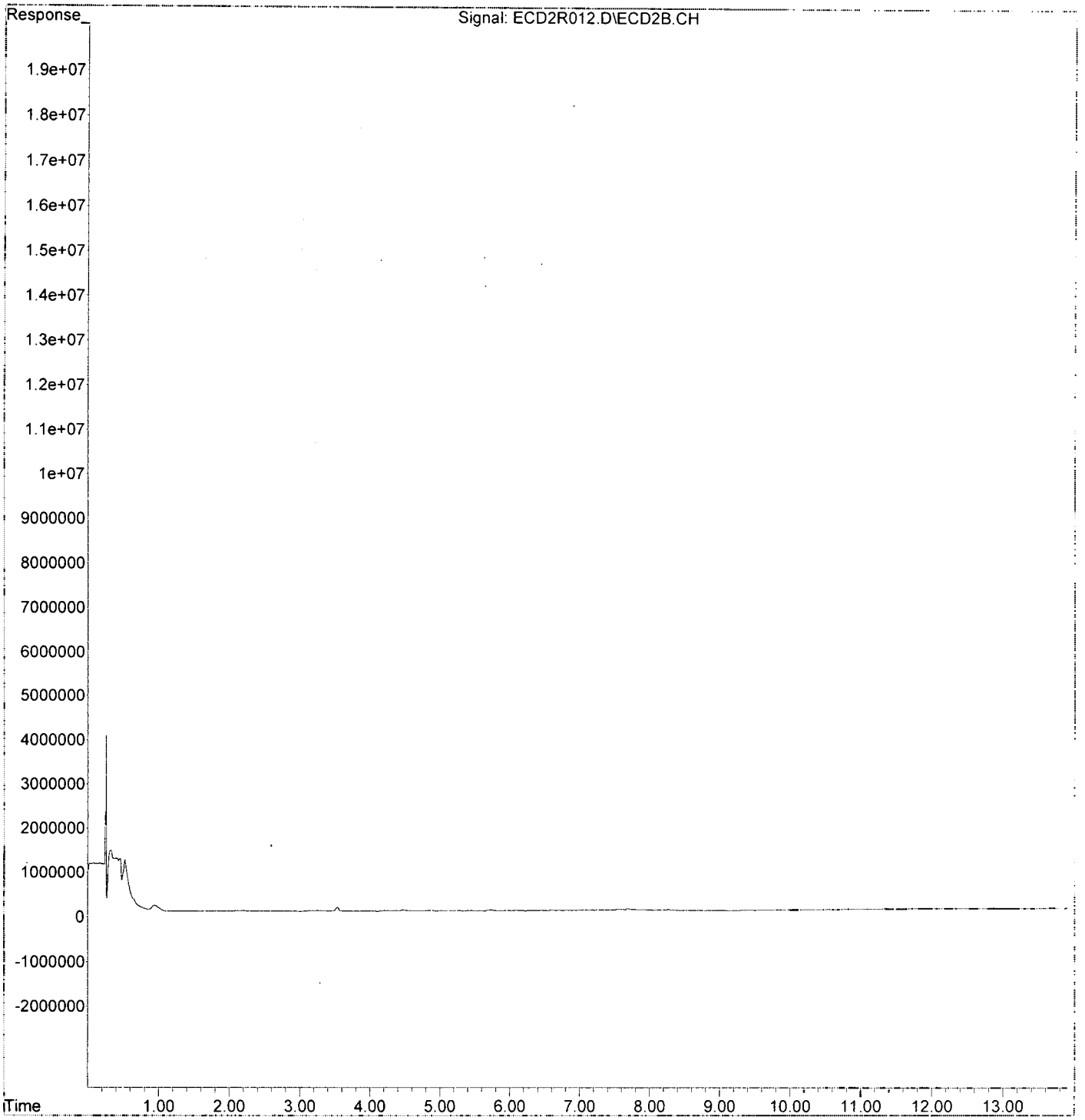
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	8.351	14859	1.406 ng/ml
49)	Aroclor 1262 (2)	8.648	8953	0.586 ng/ml
50)	Aroclor 1262 (3)	8.830	8859	0.692 ng/ml
51)	Aroclor 1262 (4)	9.068	8772	0.319 ng/ml
52)	Aroclor 1262 (5)	9.323	6842	0.417 ng/ml
53)	Aroclor 1262 (6)	9.889	5119	0.711 ng/ml
54)	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

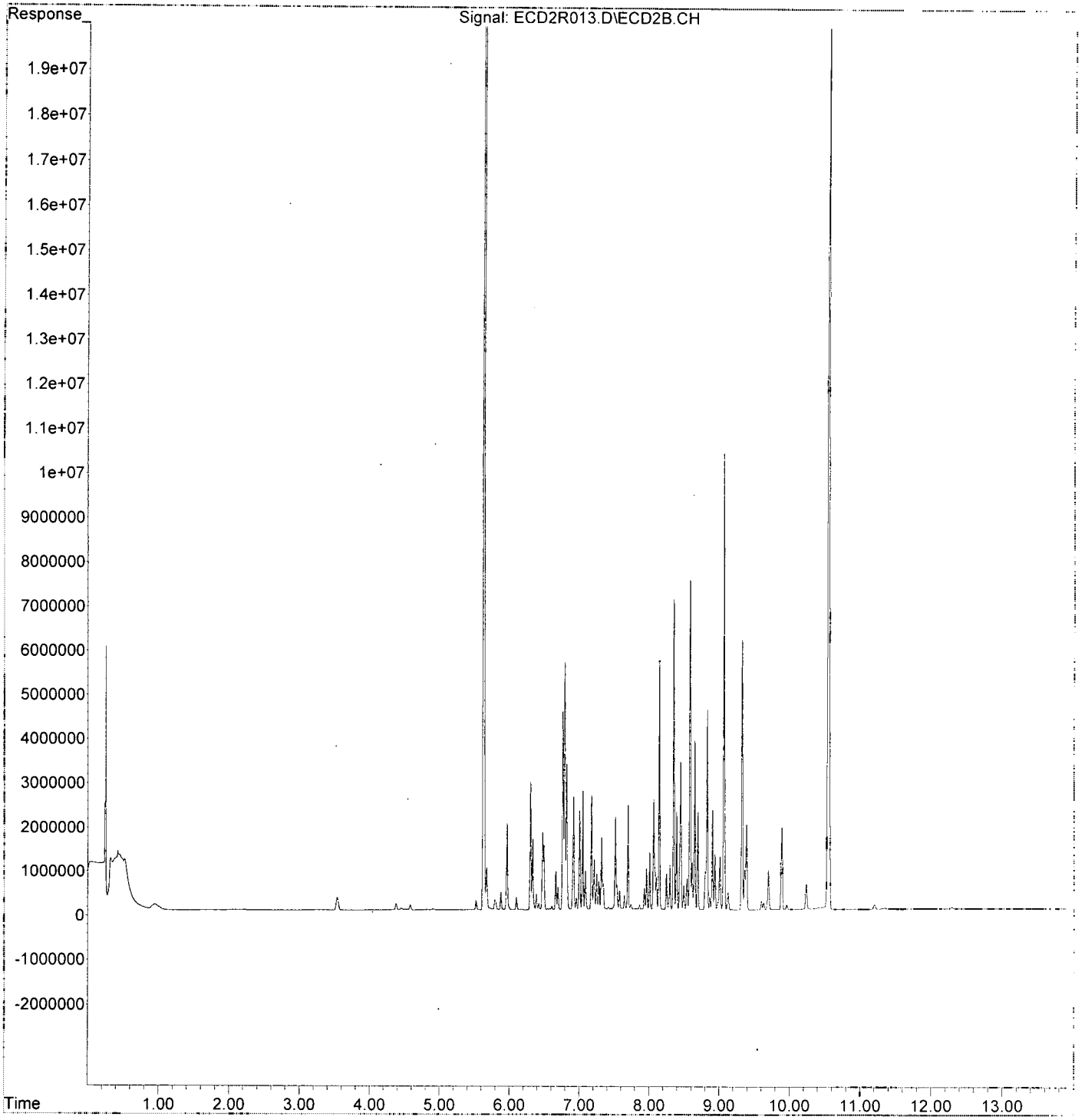
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	8.350	7018796	663.923 ng/ml
49)	Aroclor 1262 (2)	8.651	3830979	250.759 ng/ml
50)	Aroclor 1262 (3)	8.829	4526983	353.555 ng/ml
51)	Aroclor 1262 (4)	9.067	10304134	374.361 ng/ml
52)	Aroclor 1262 (5)	9.325	6100150	371.517 ng/ml
53)	Aroclor 1262 (6)	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	923.016
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	509.344
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	

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

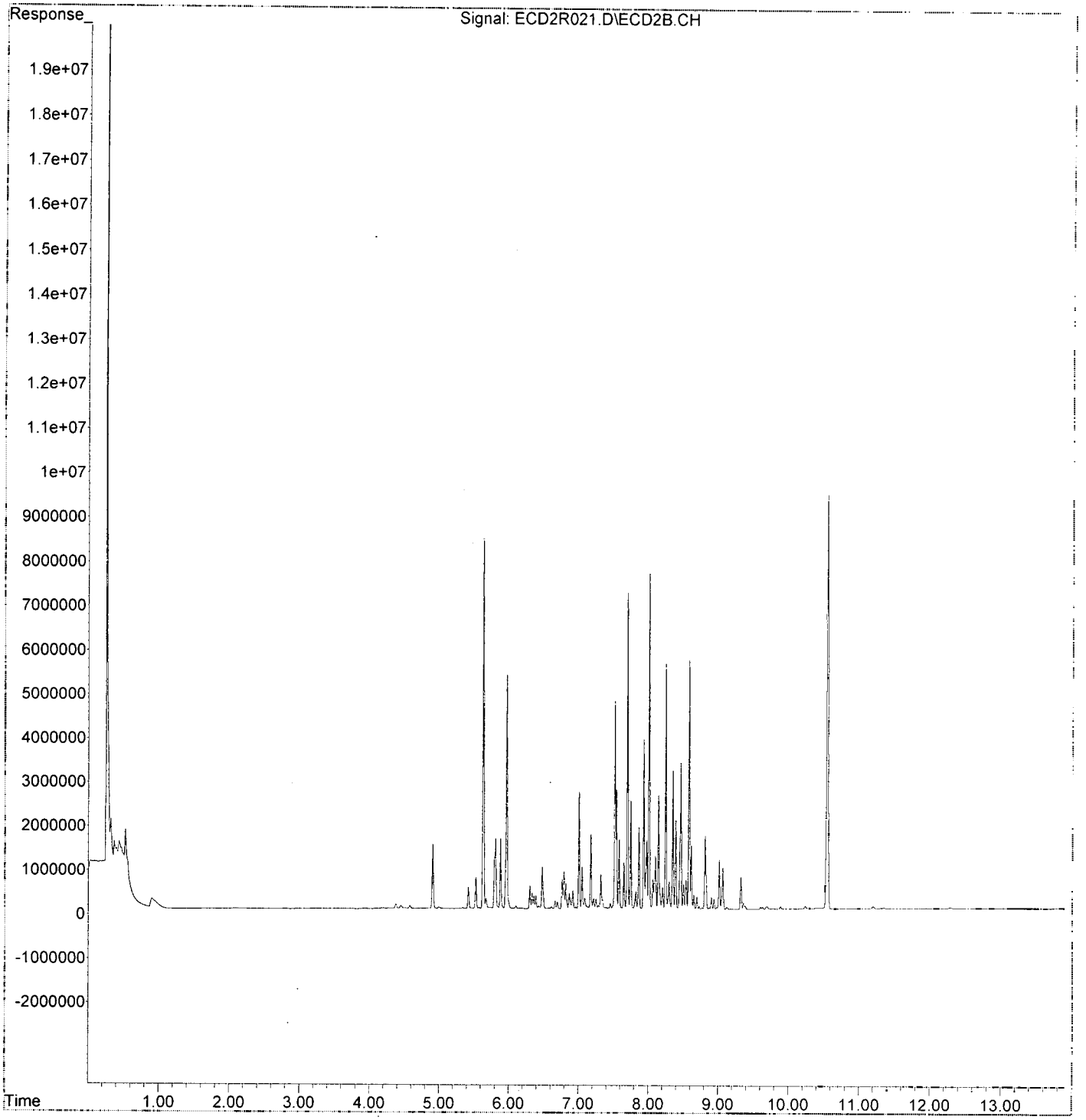
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	8.349	3126649	295.757	ng/ml
49)	Aroclor 1262 (2)	8.649	316091	20.690	ng/ml
50)	Aroclor 1262 (3)	8.811	1659515	129.607	ng/ml
51)	Aroclor 1262 (4)	9.065	944219	34.305	ng/ml
52)	Aroclor 1262 (5)	9.323	736233	44.839	ng/ml
53)	Aroclor 1262 (6)	9.889	56325	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

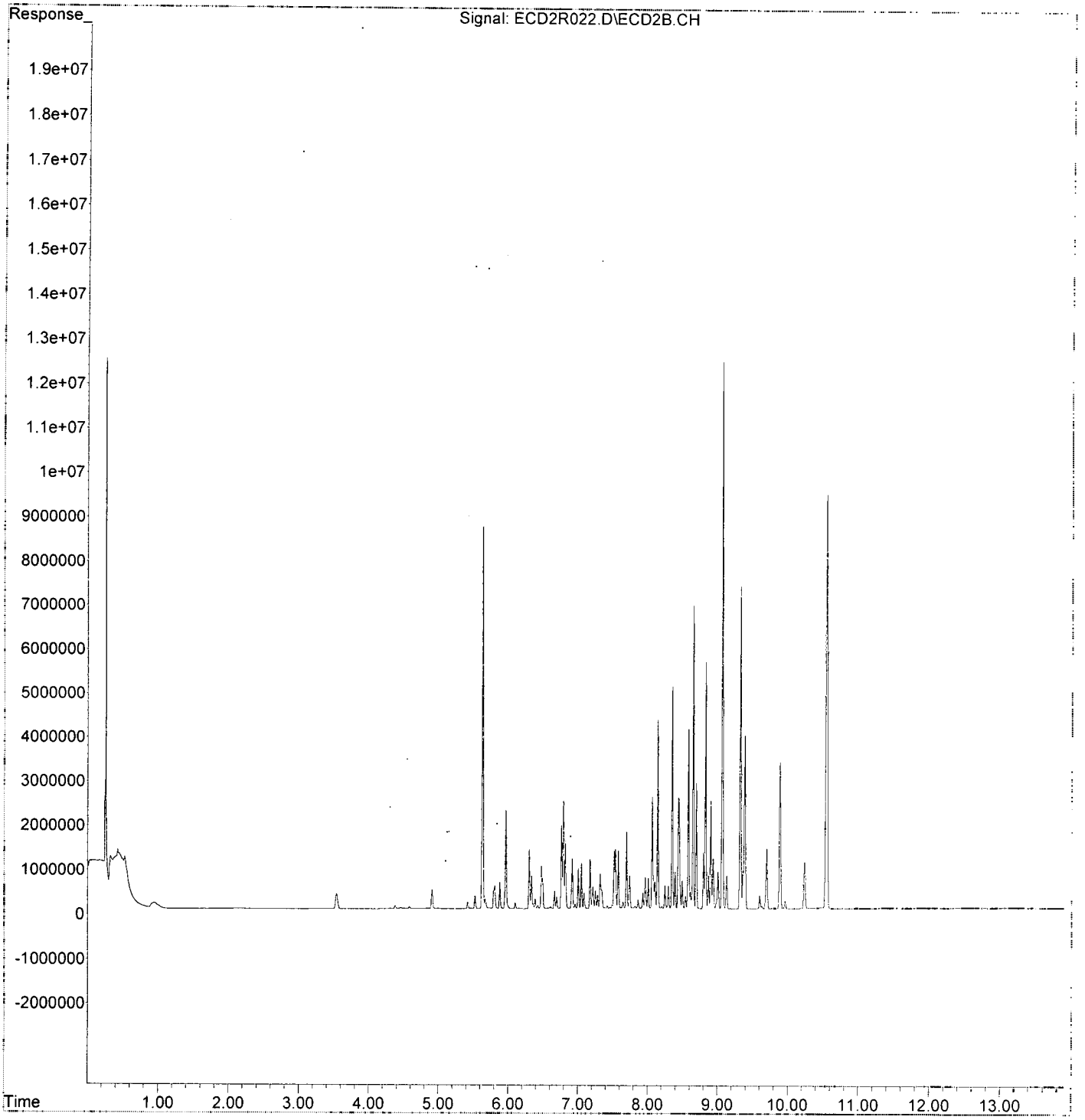
452.900

(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

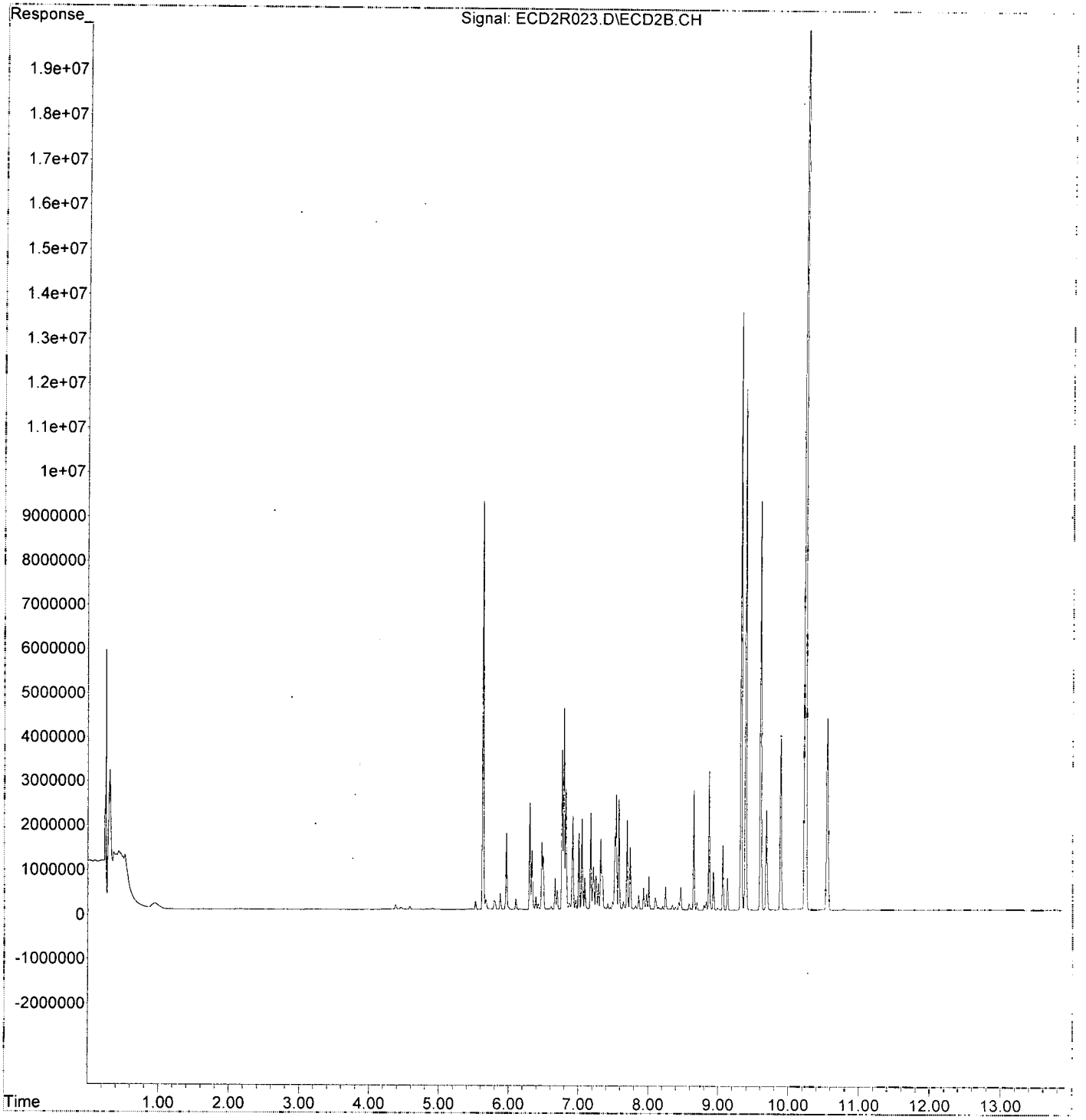
502.888

(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

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1248

	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

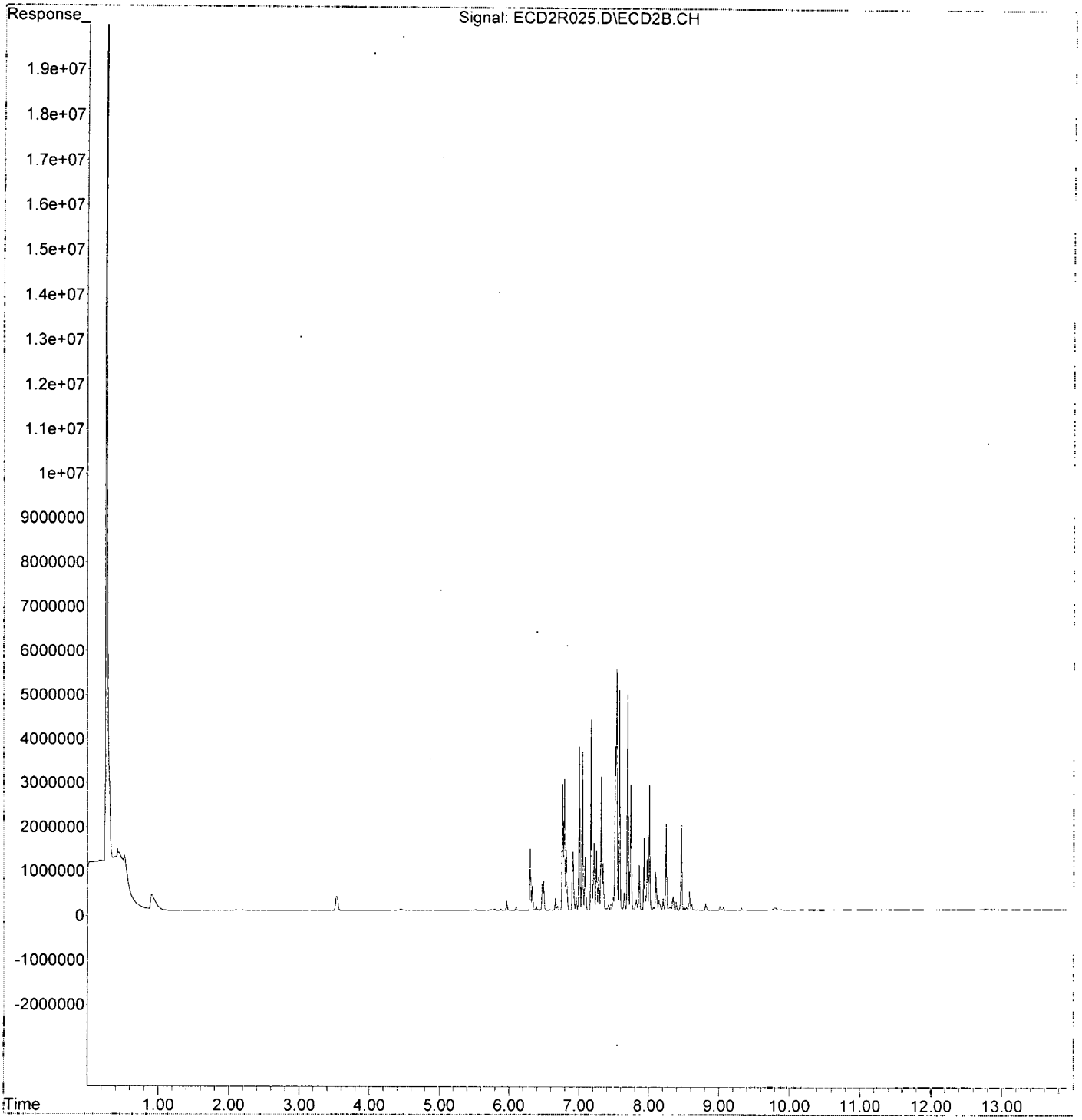
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	8.347	321684	30.429 ng/ml
49)	Aroclor 1262 (2)	8.651	34532	2.260 ng/ml
50)	Aroclor 1262 (3)	8.811	168693	13.175 ng/ml
51)	Aroclor 1262 (4)	9.066	86034	3.126 ng/ml
52)	Aroclor 1262 (5)	9.324	59779	3.641 ng/ml
53)	Aroclor 1262 (6)	9.890	17482	2.428 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

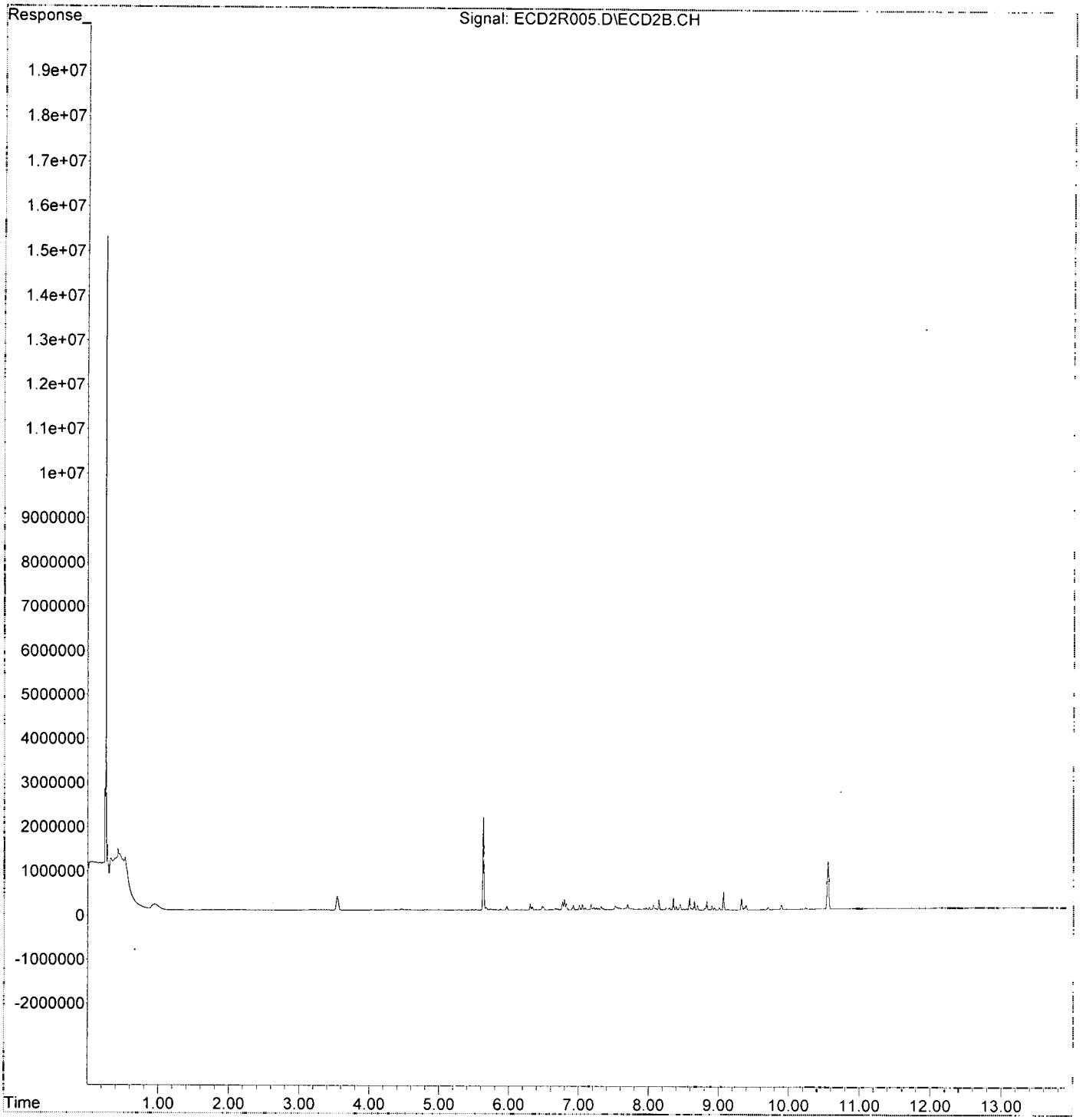
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE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

1/14/20

		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

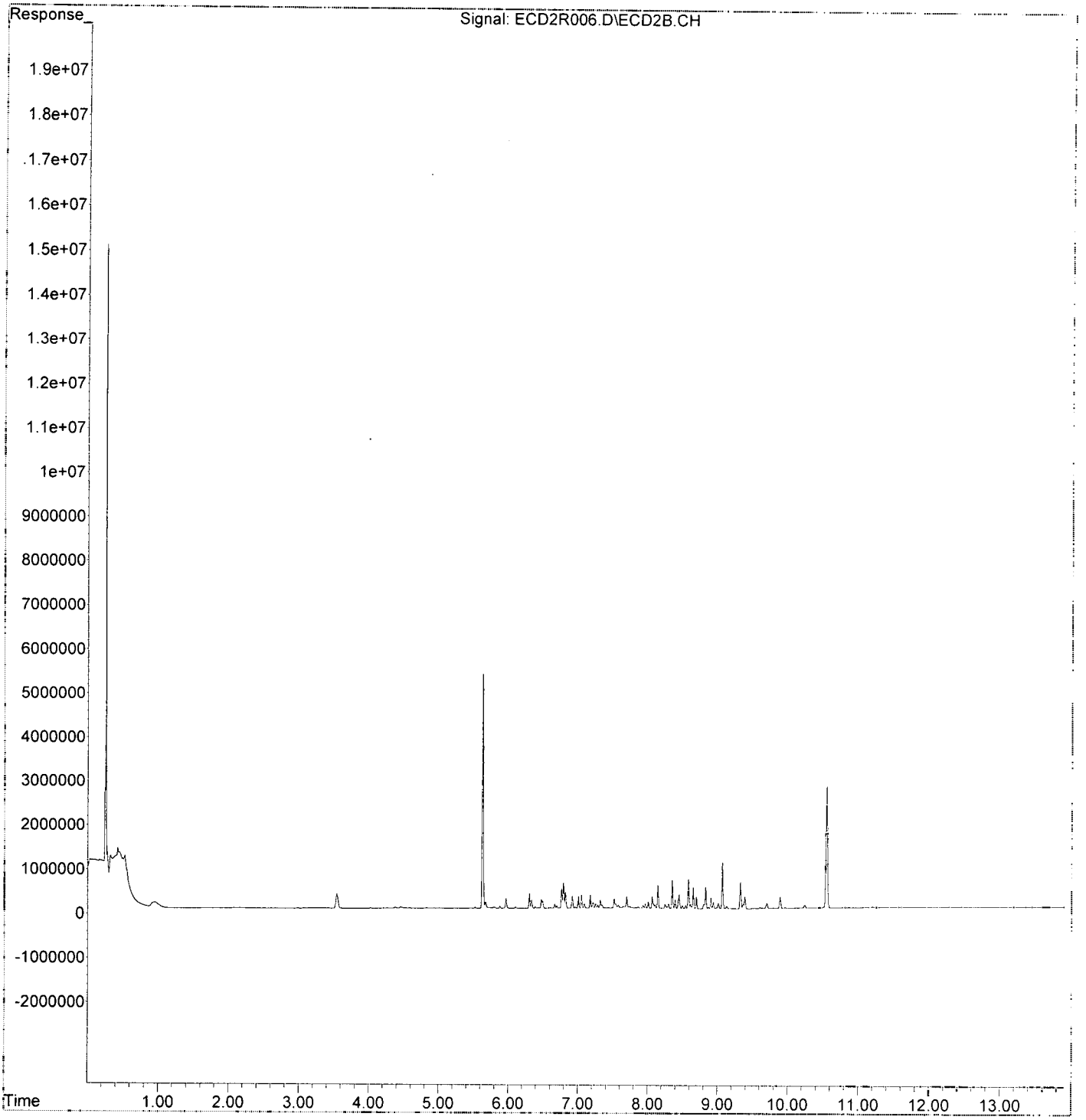
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	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\Tequant\
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

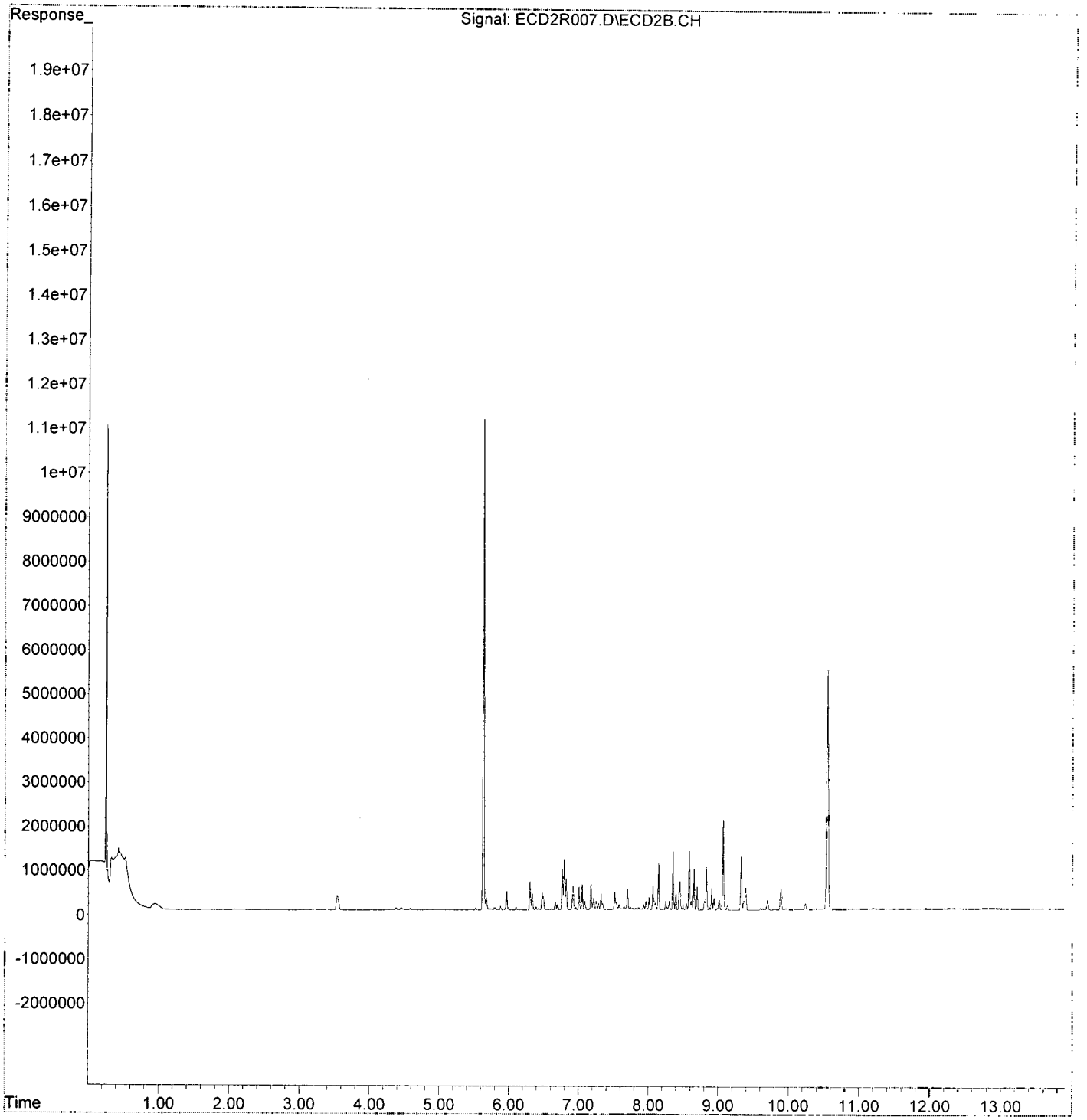
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	0.000	0	N.D. ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D. ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D. ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D. ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D. ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D. ng/mld
54)	Aroclor 1262 - AVE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

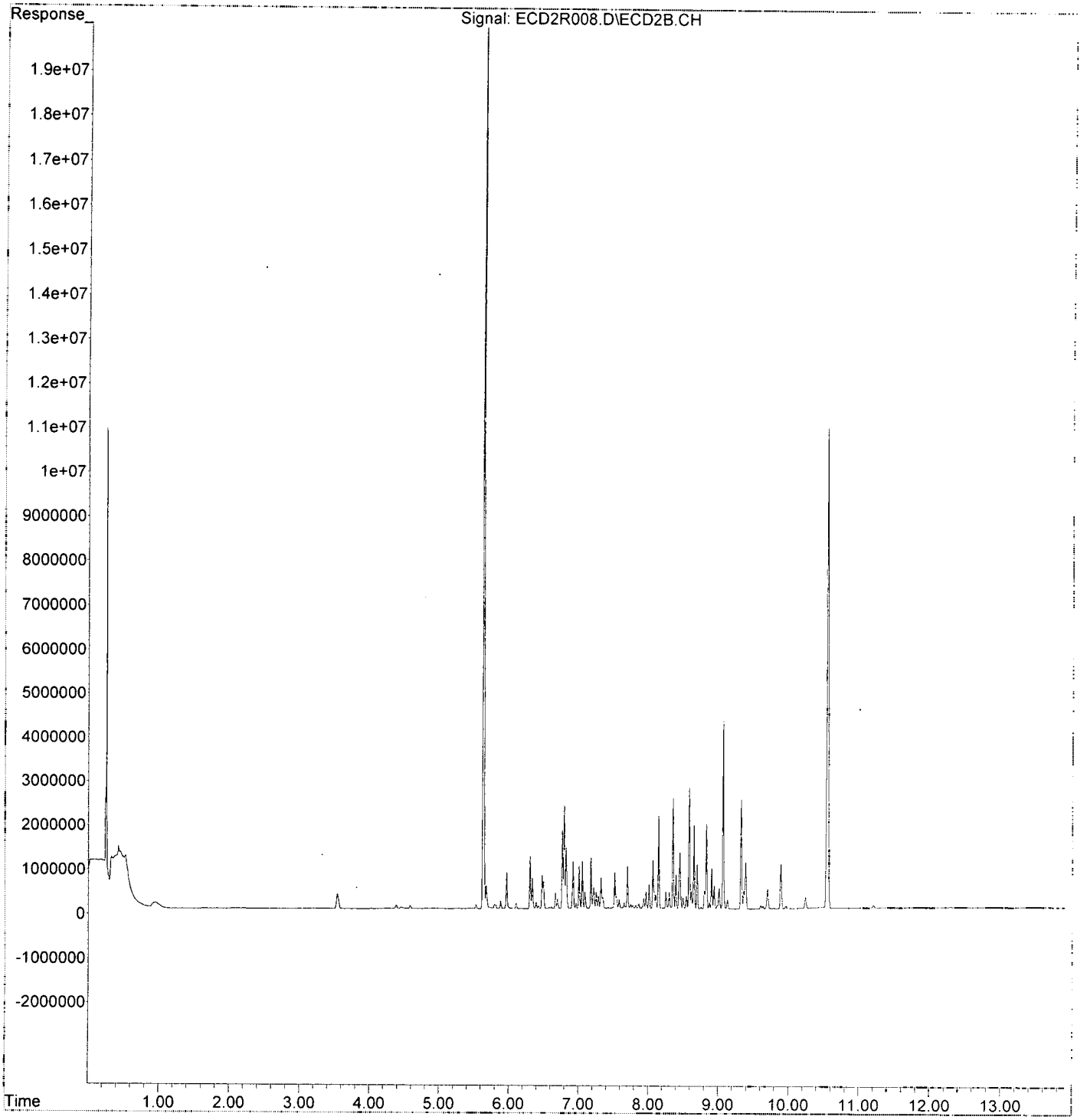
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE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

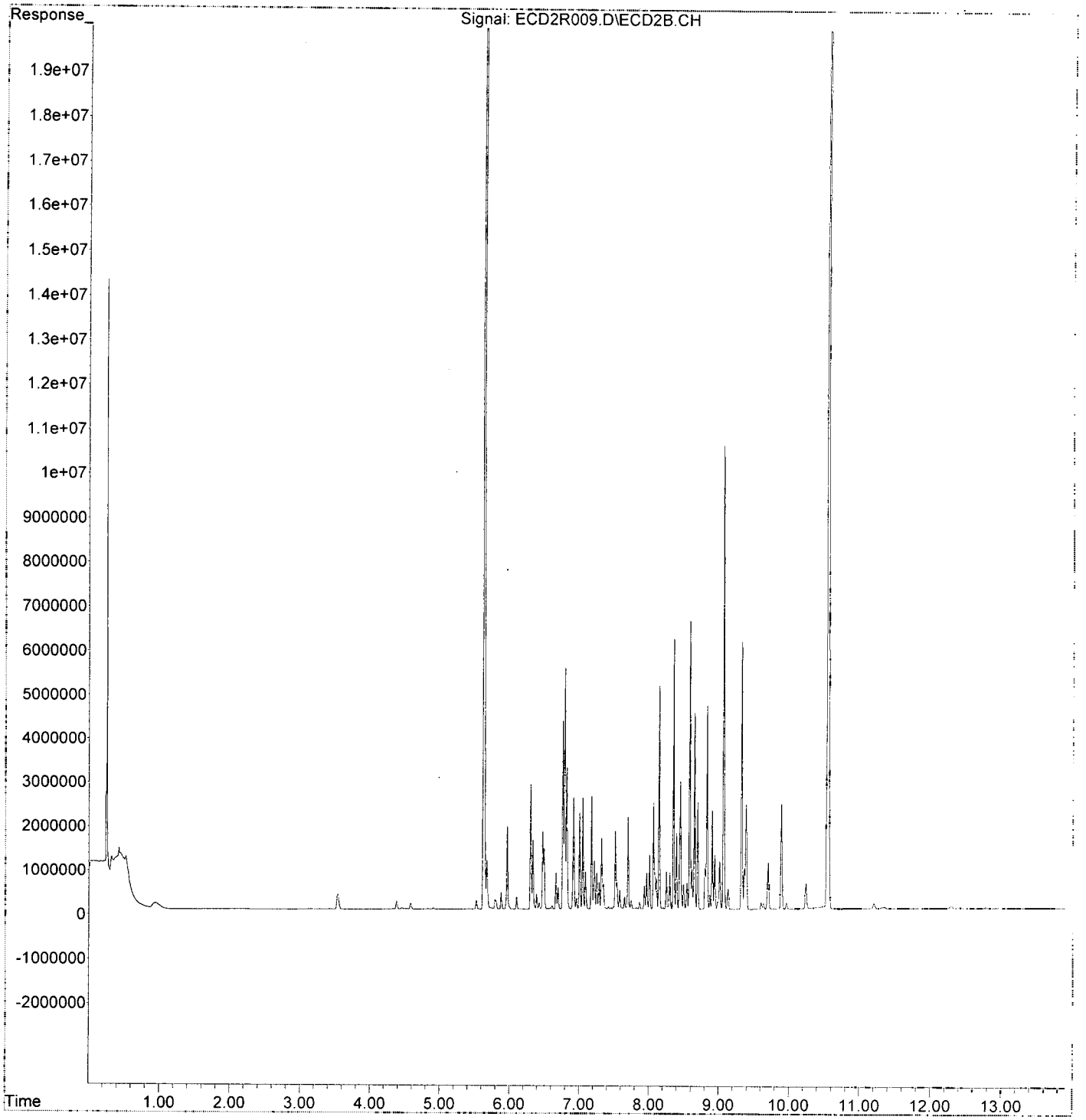
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE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

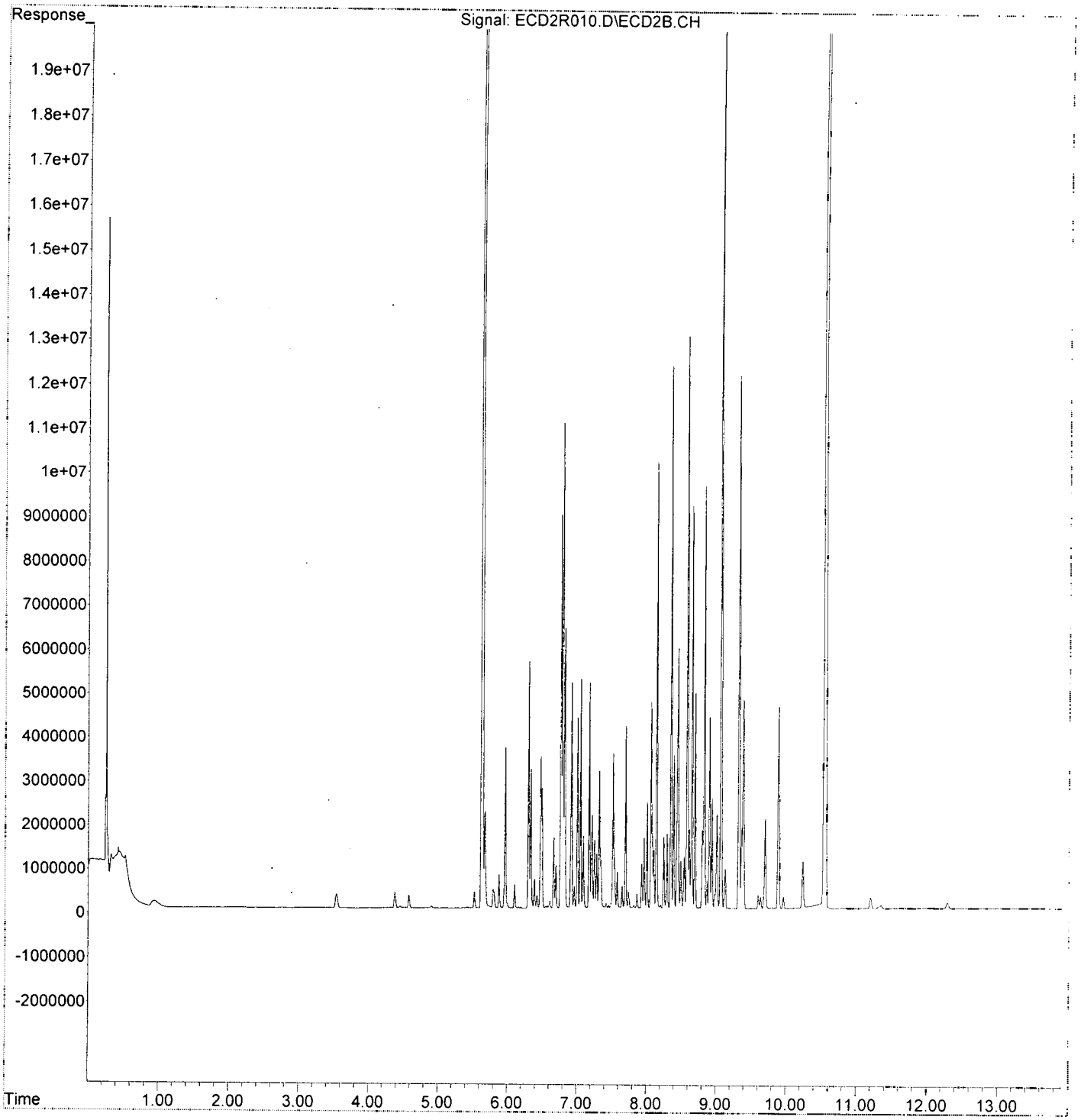
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	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\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	
	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

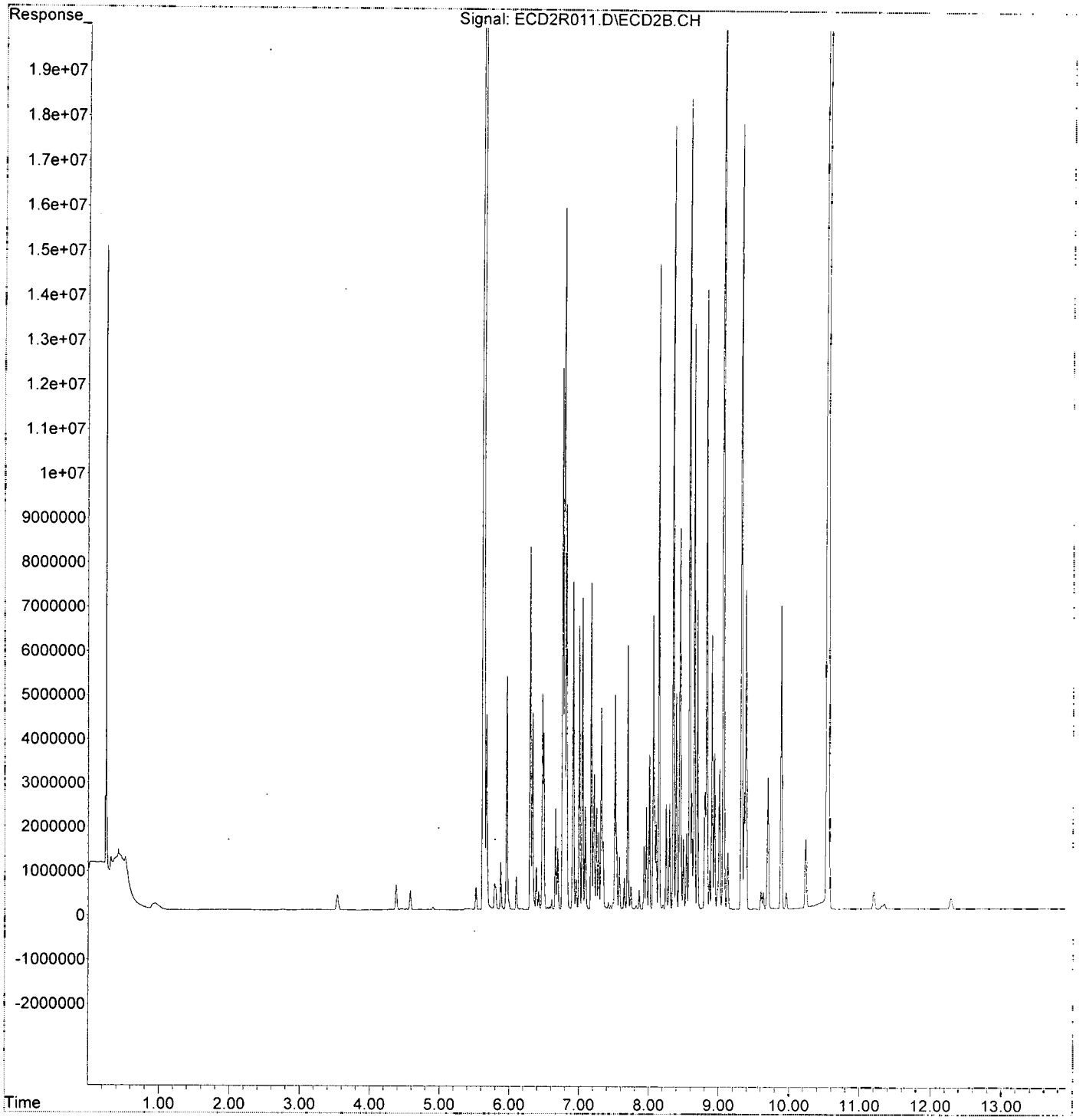
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE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

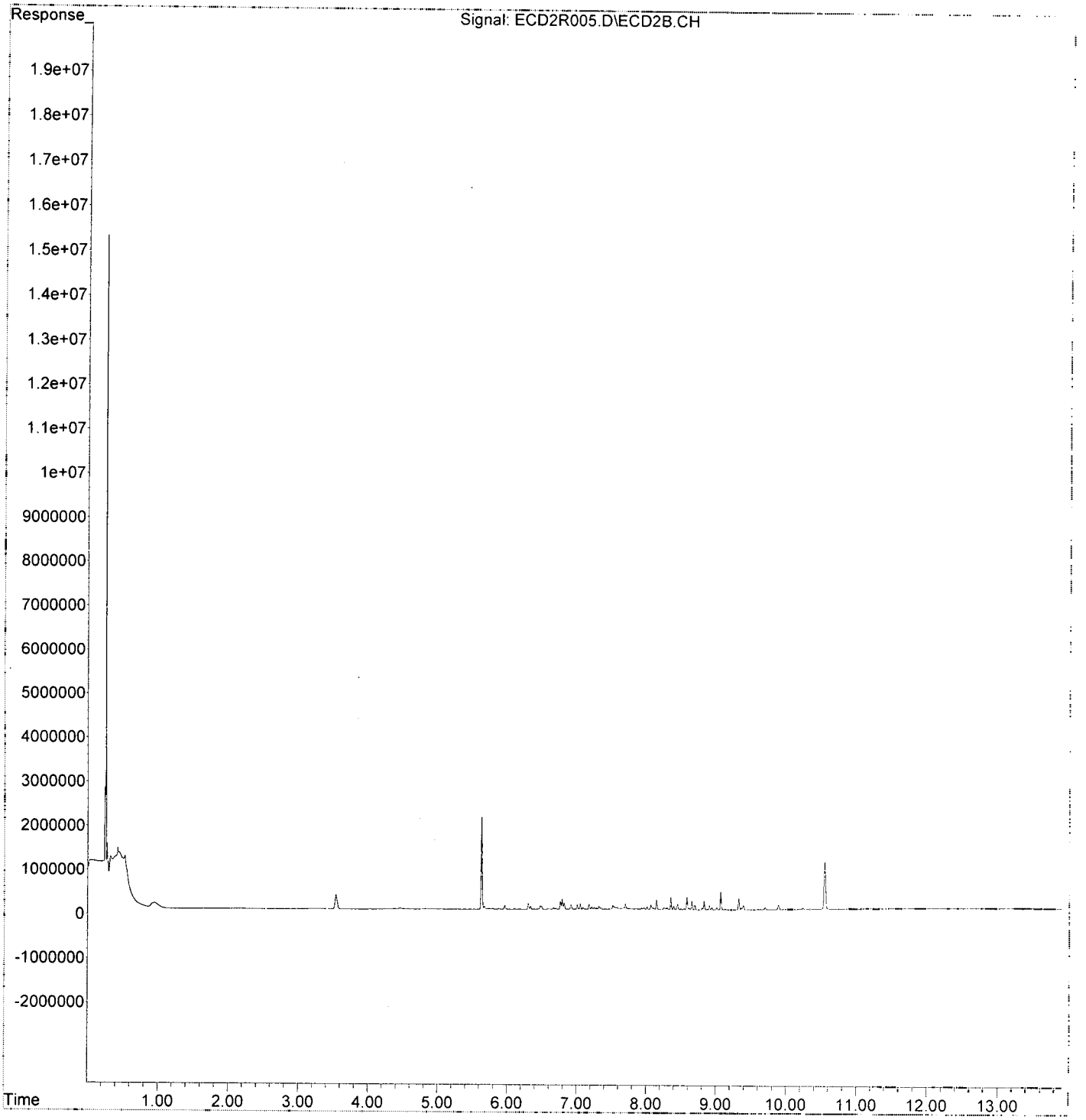
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE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

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	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

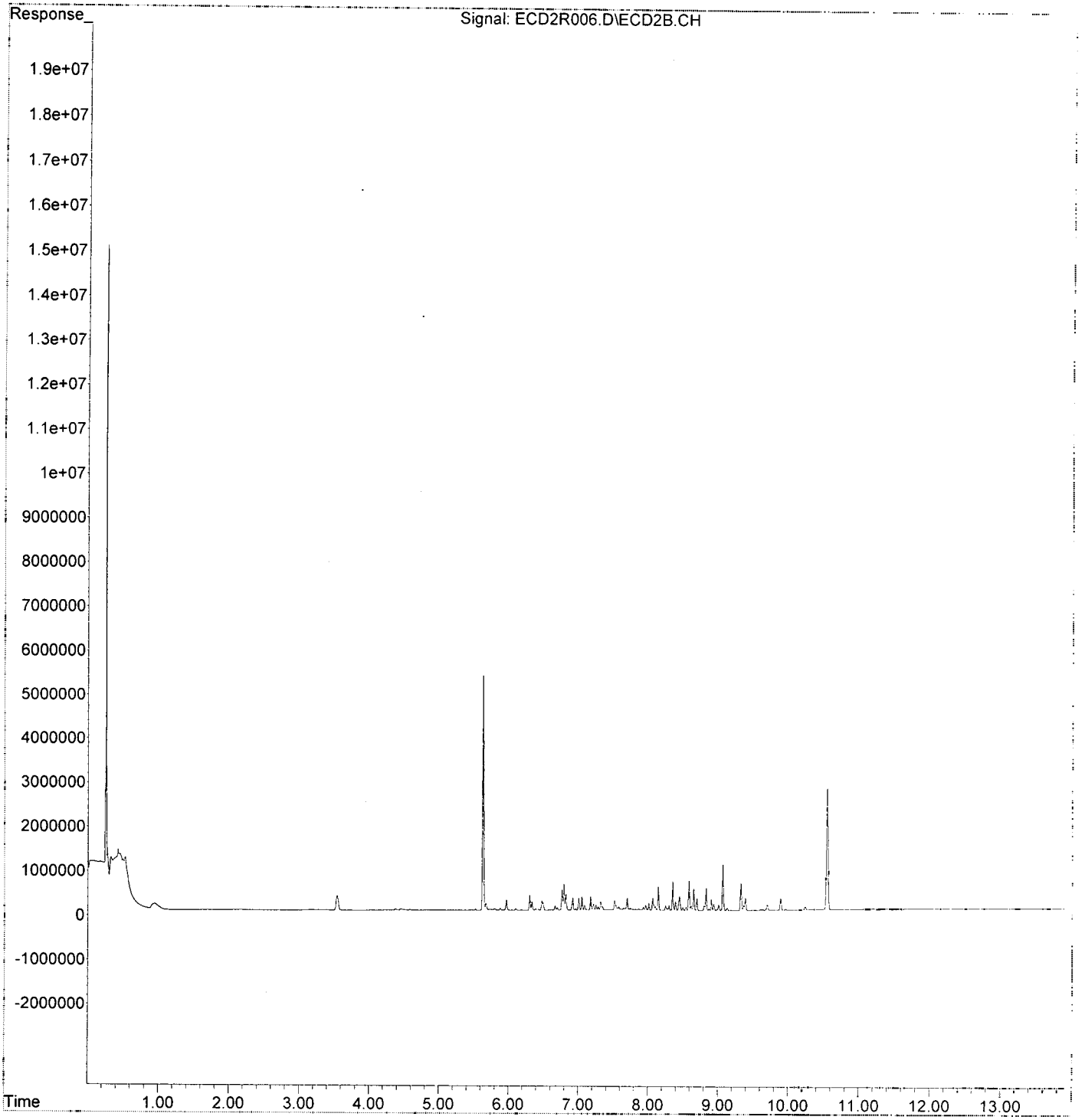
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE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

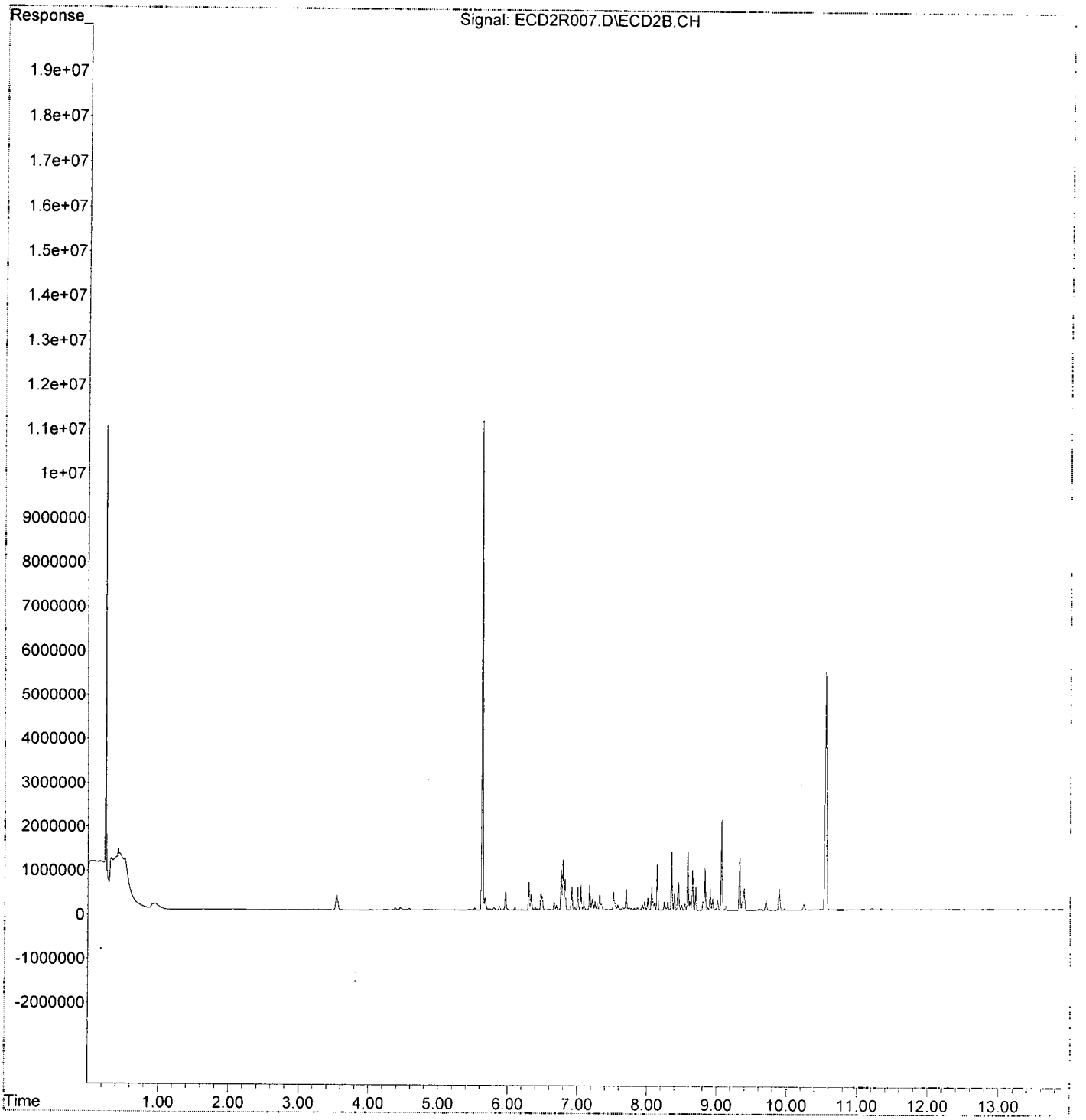
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE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

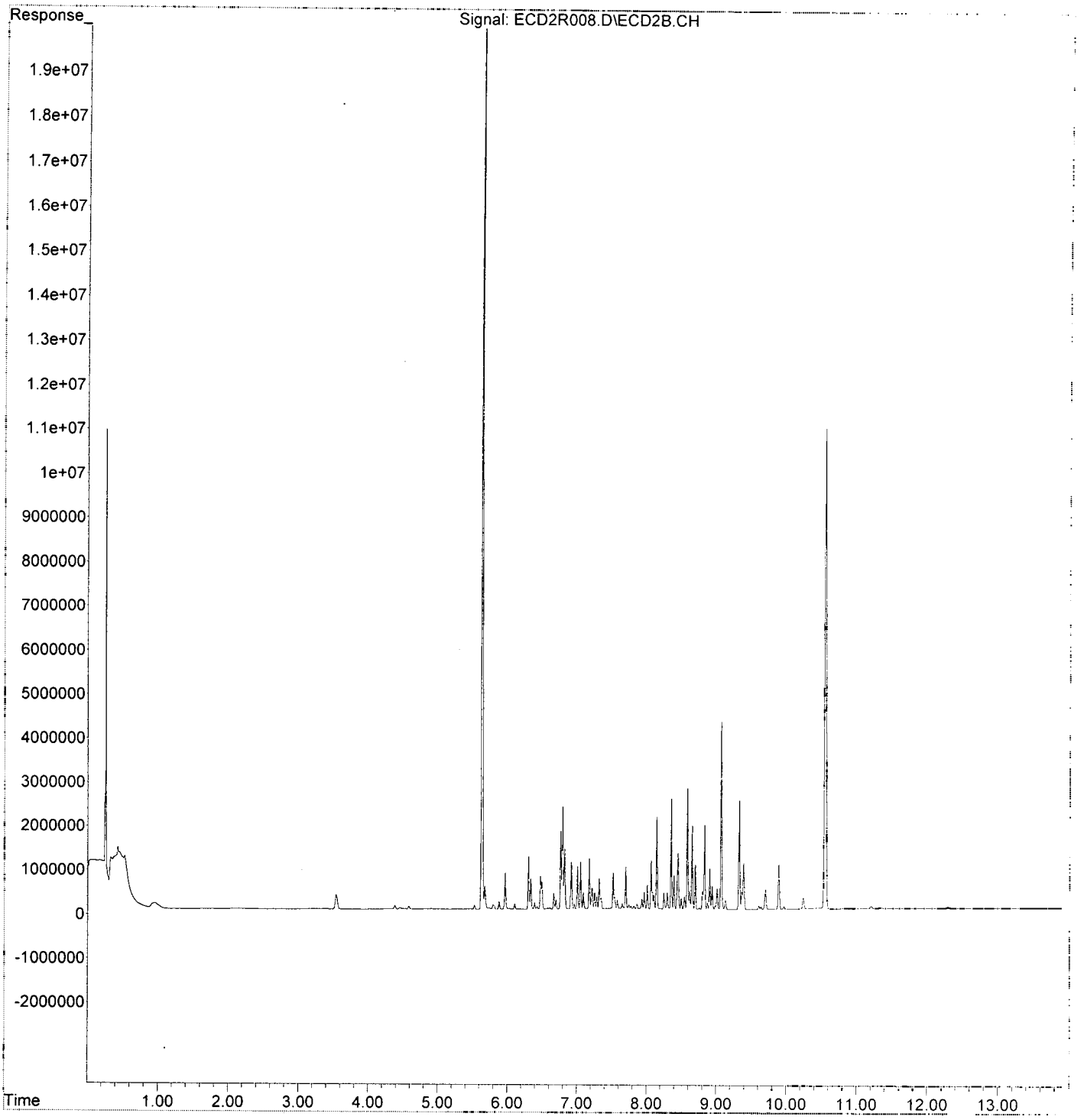
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE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

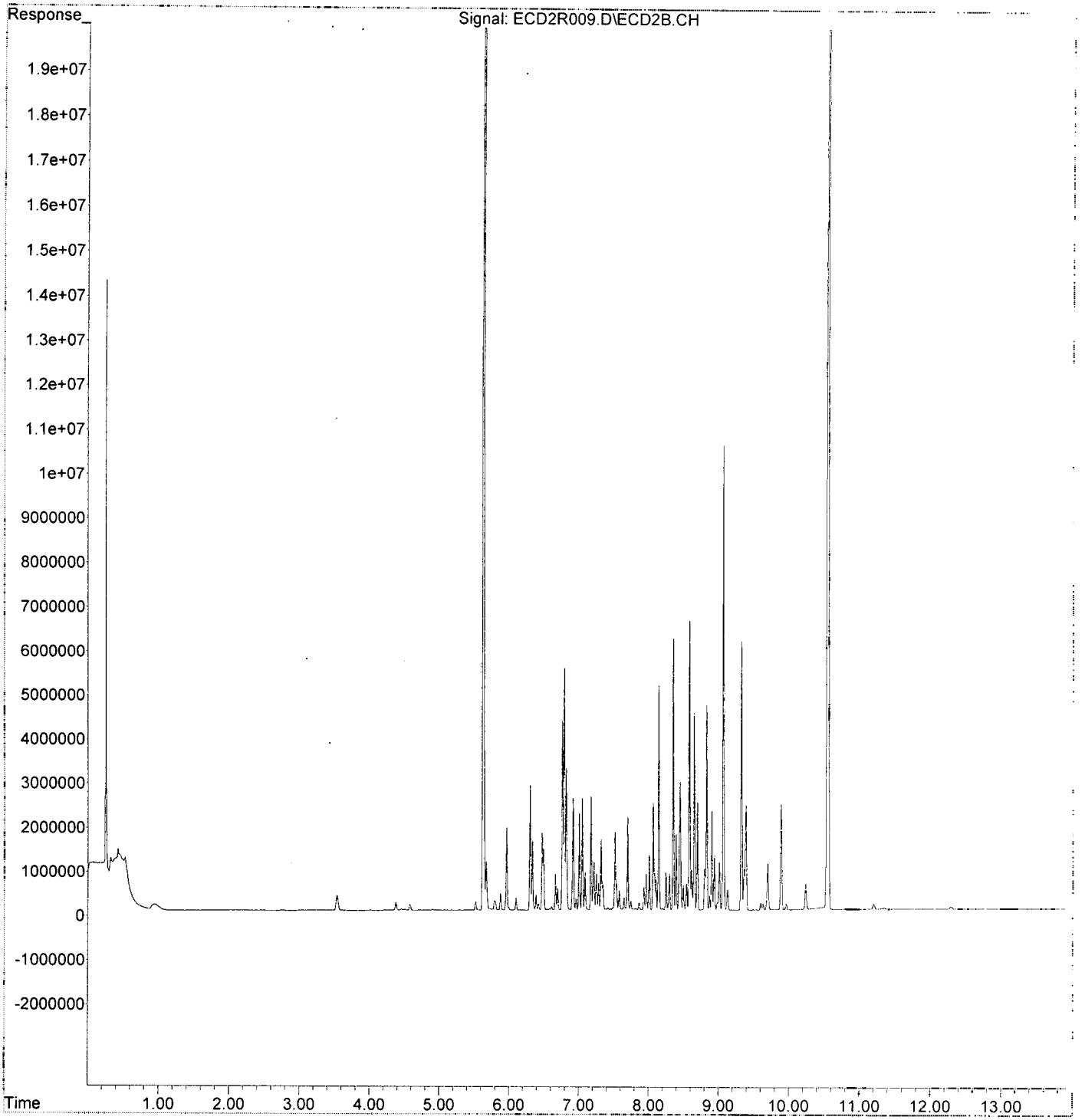
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE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

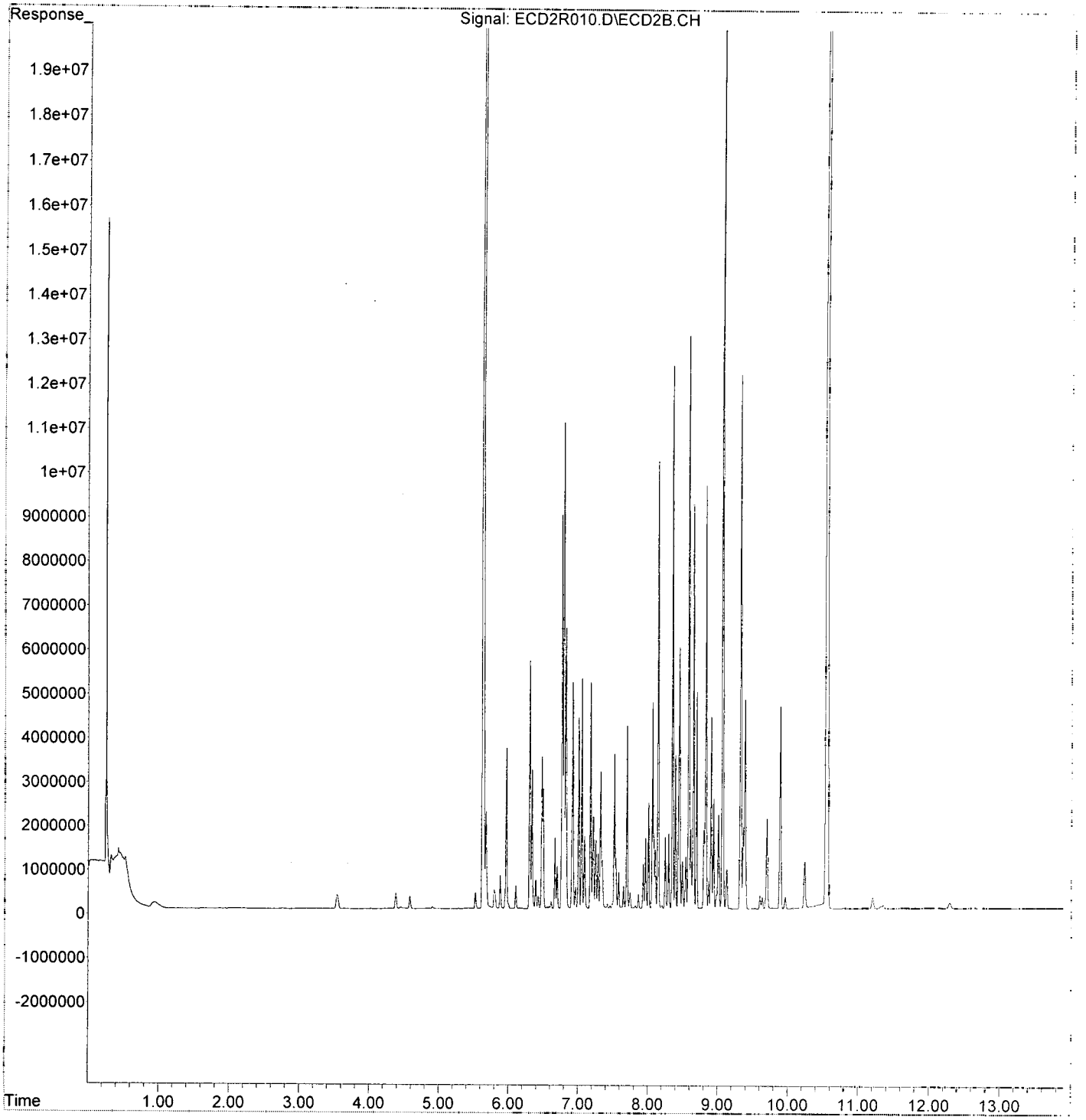
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE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

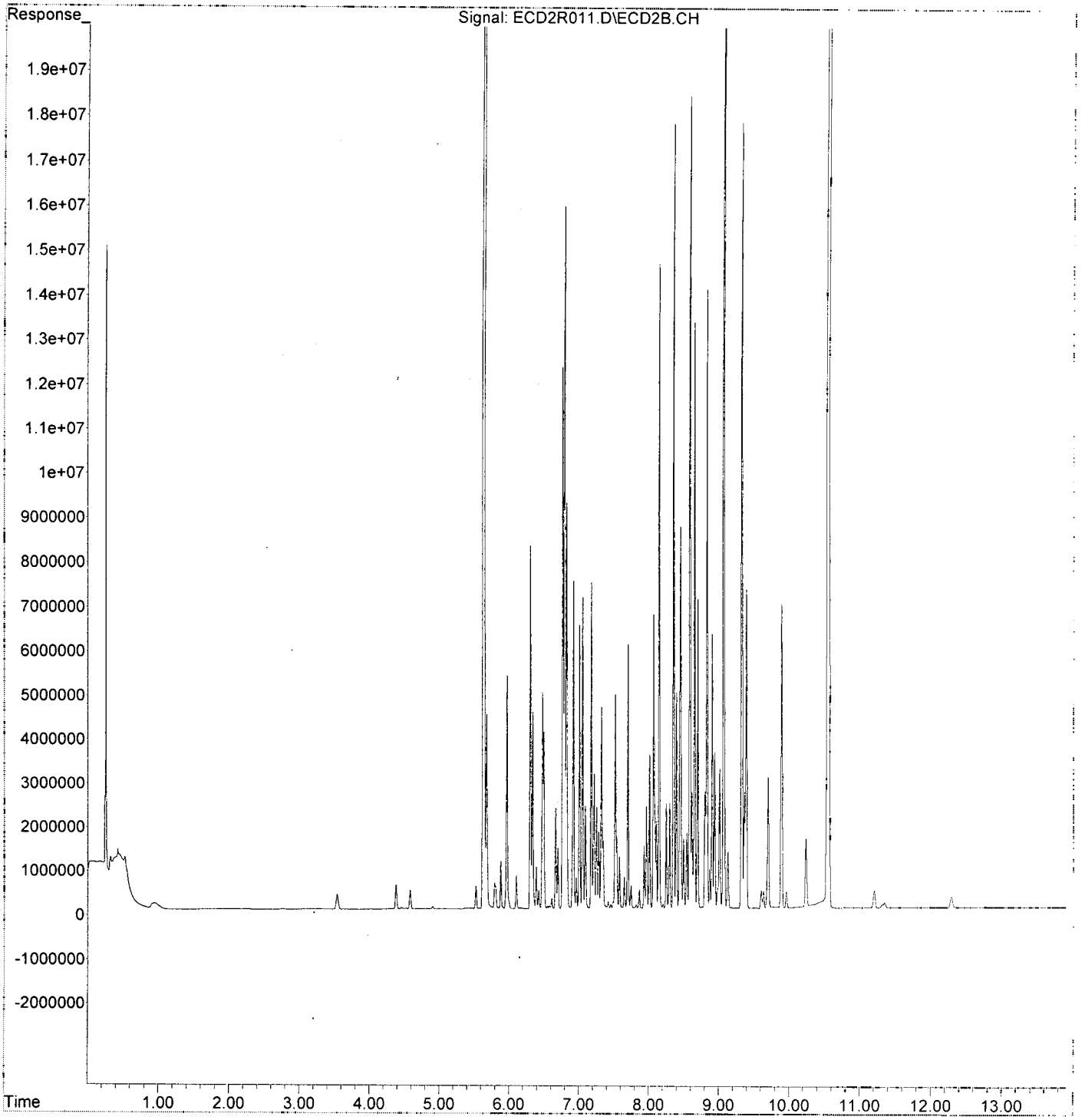
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE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

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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

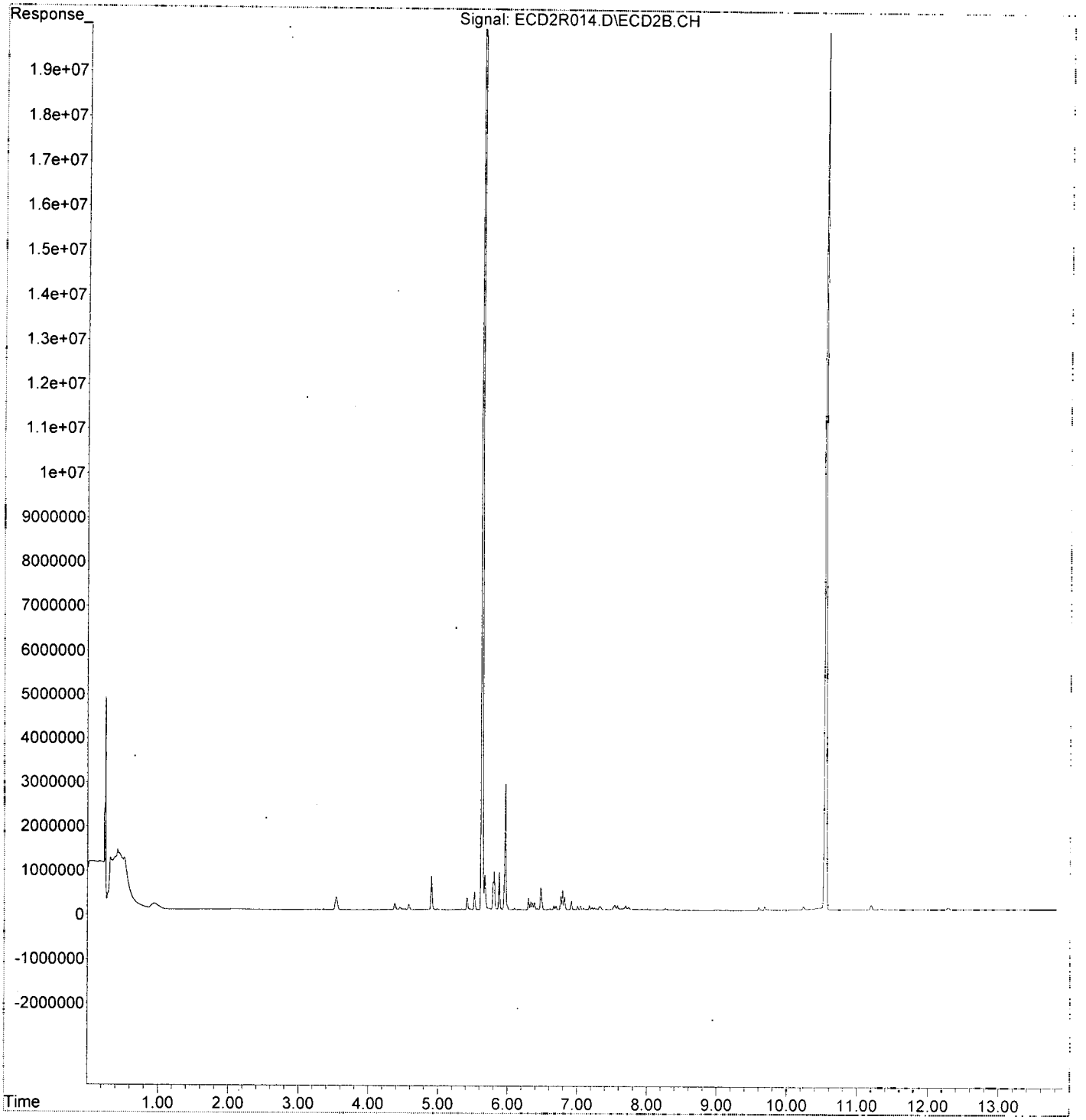
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE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

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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

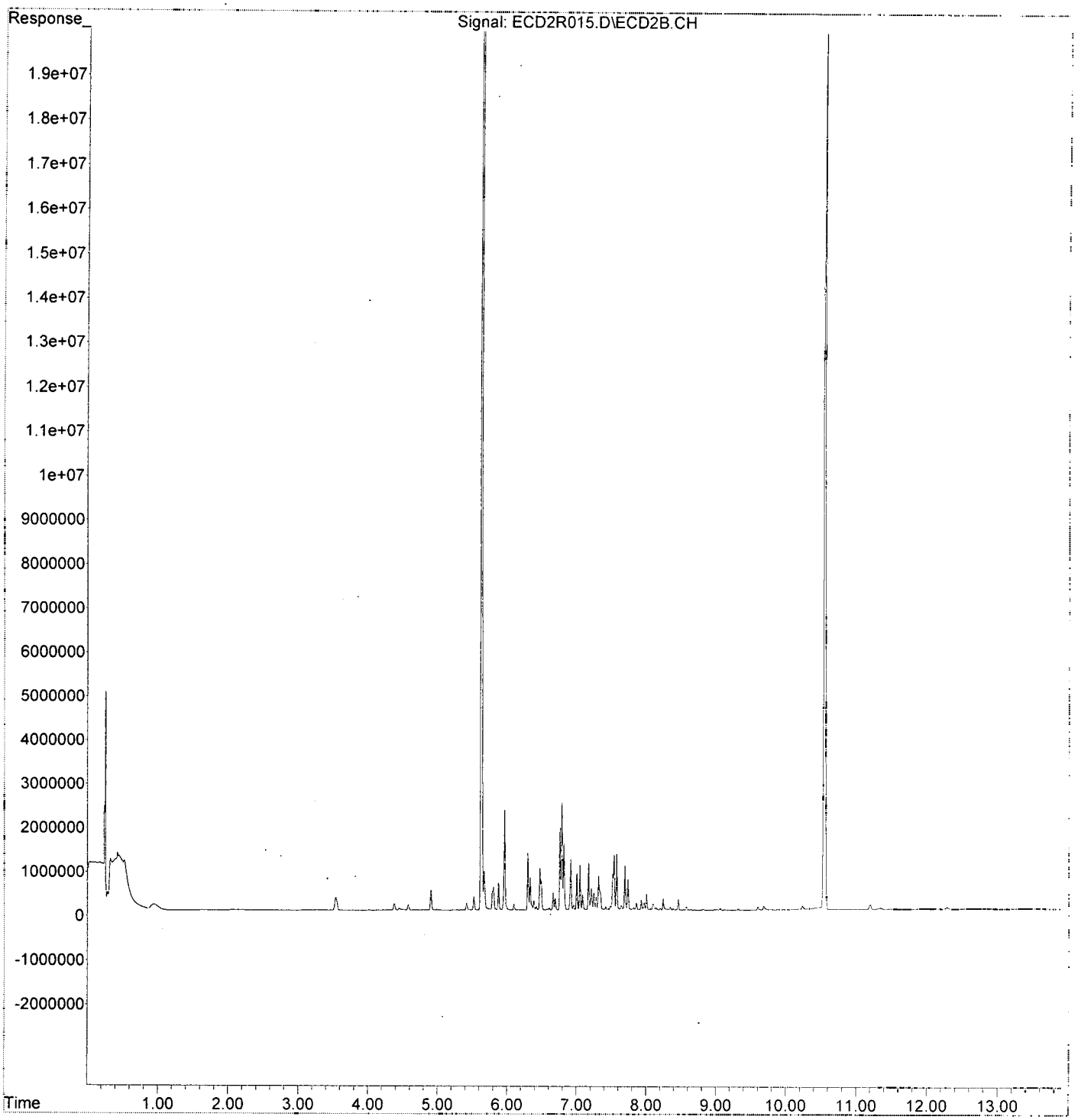
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE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

1/14/20

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

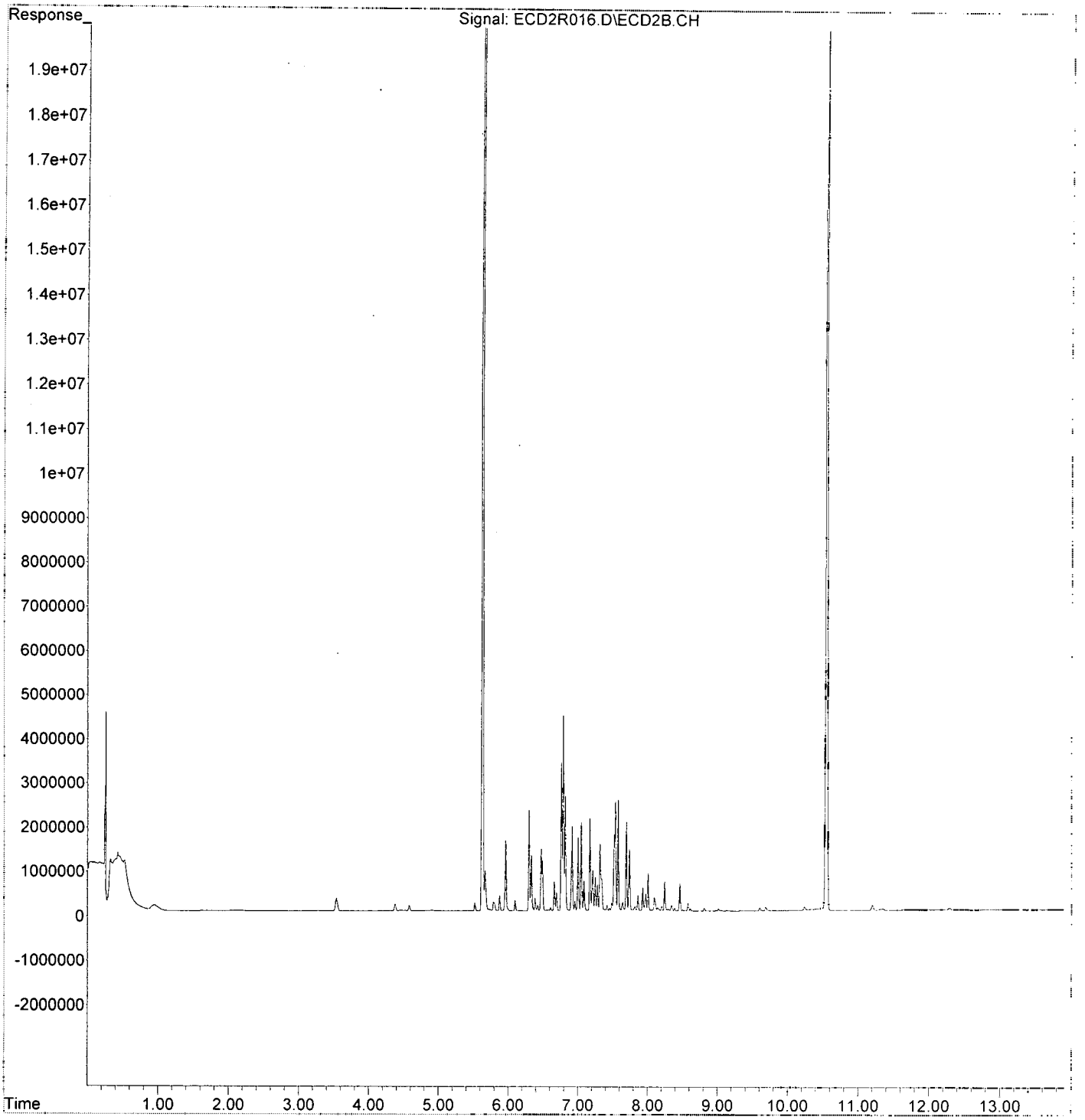
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE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

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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

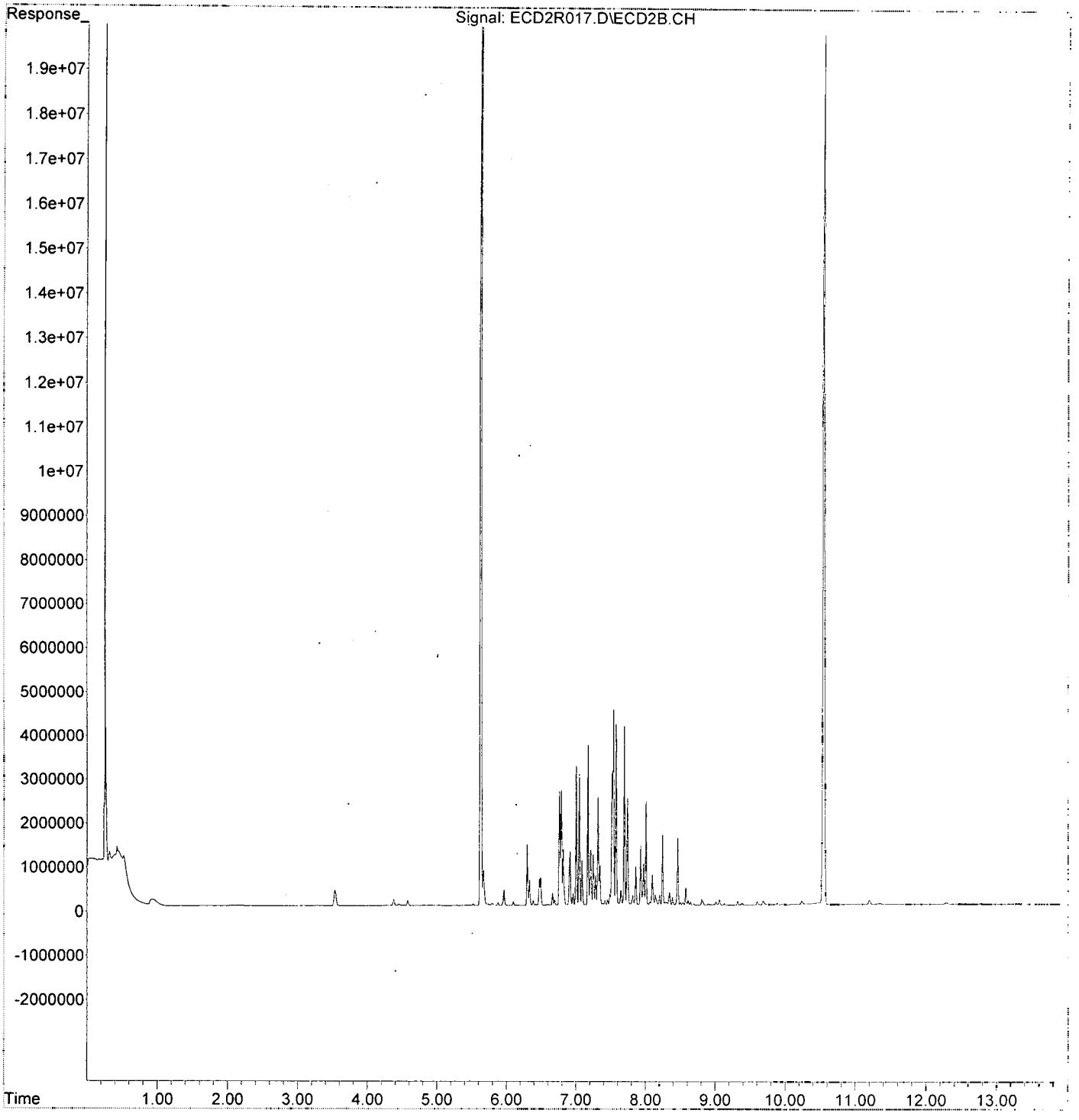
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE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

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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

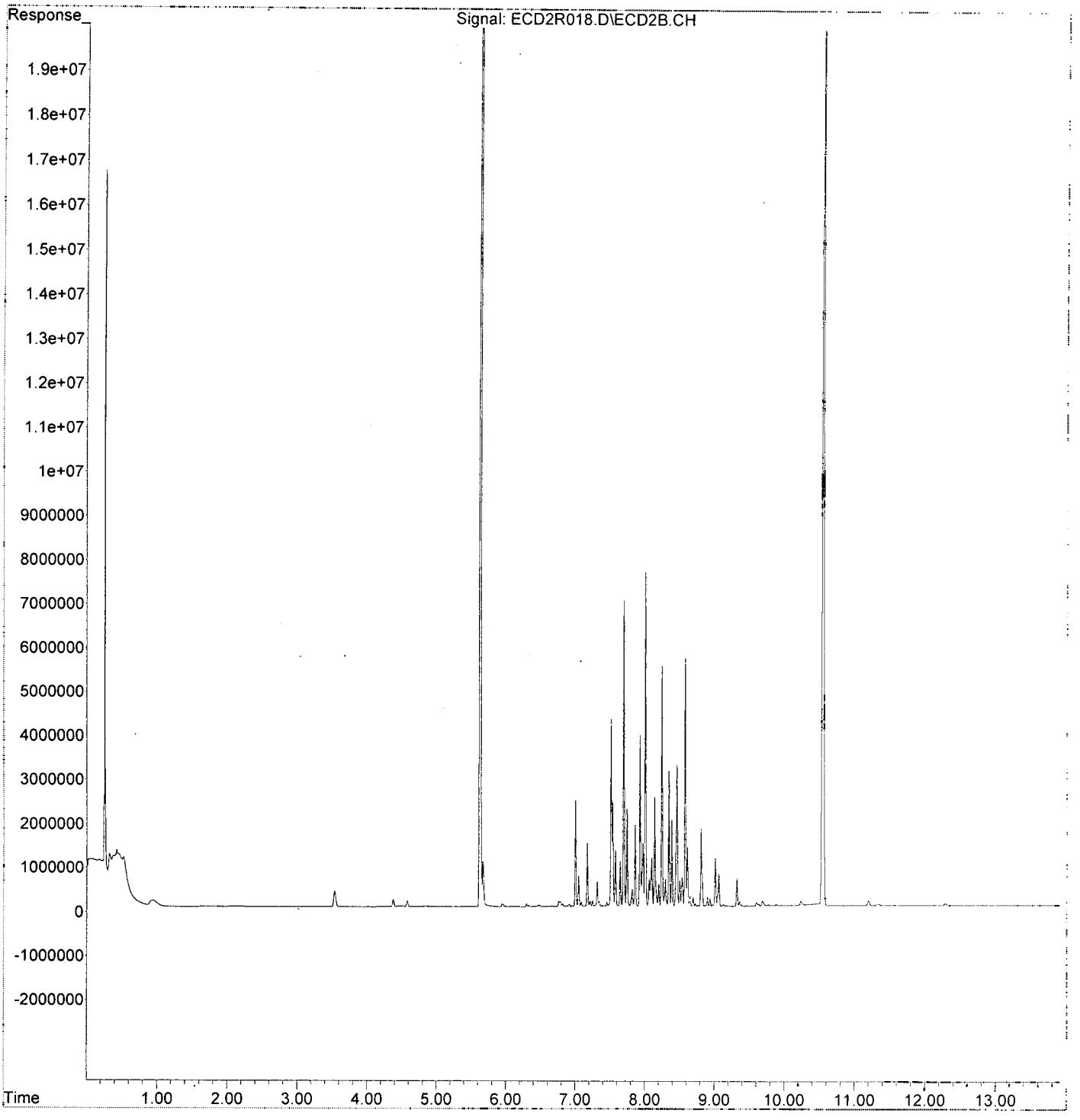
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE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

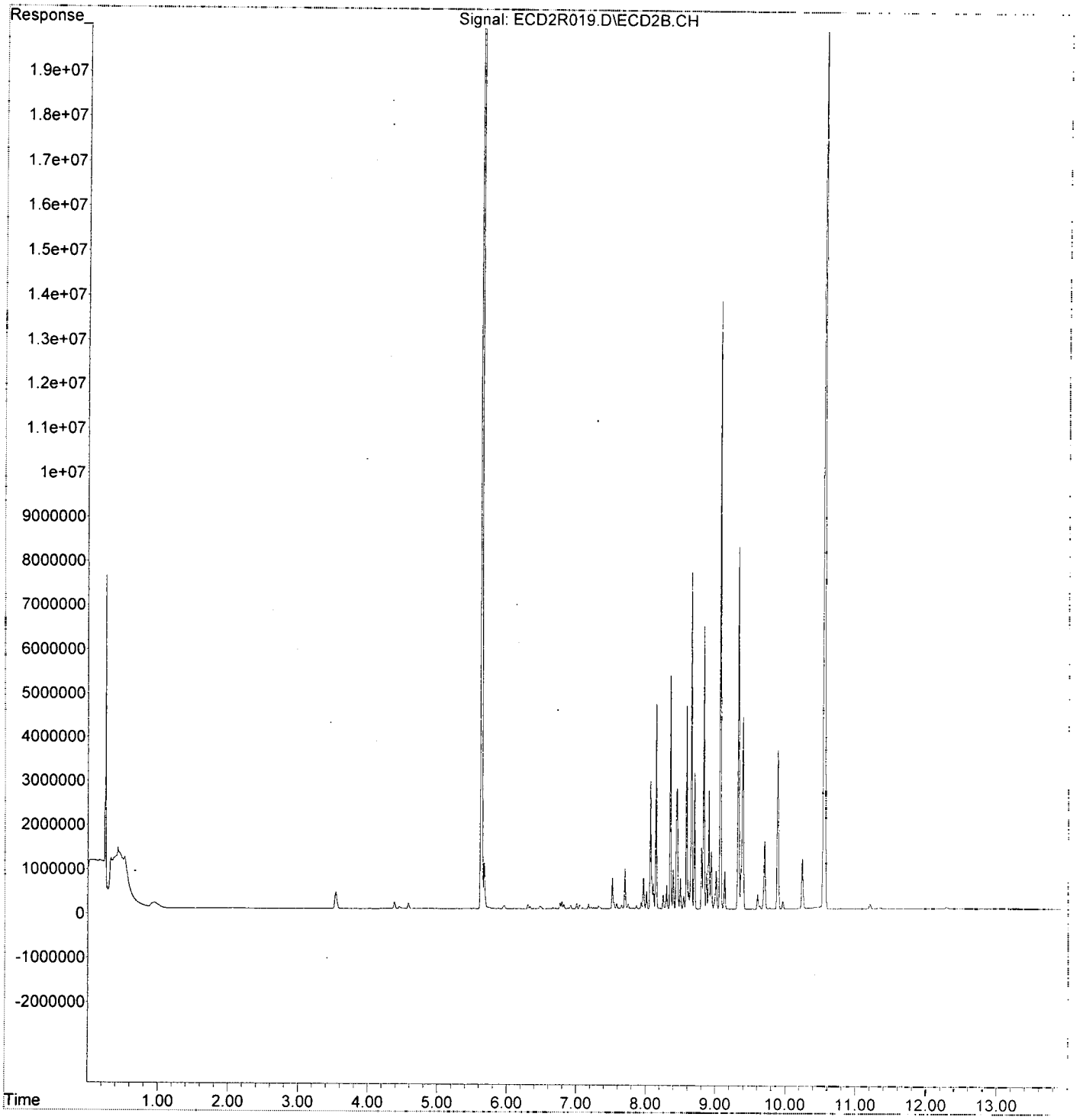
(f)=RT Delta > 1/2 Window (m)=manual int.

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

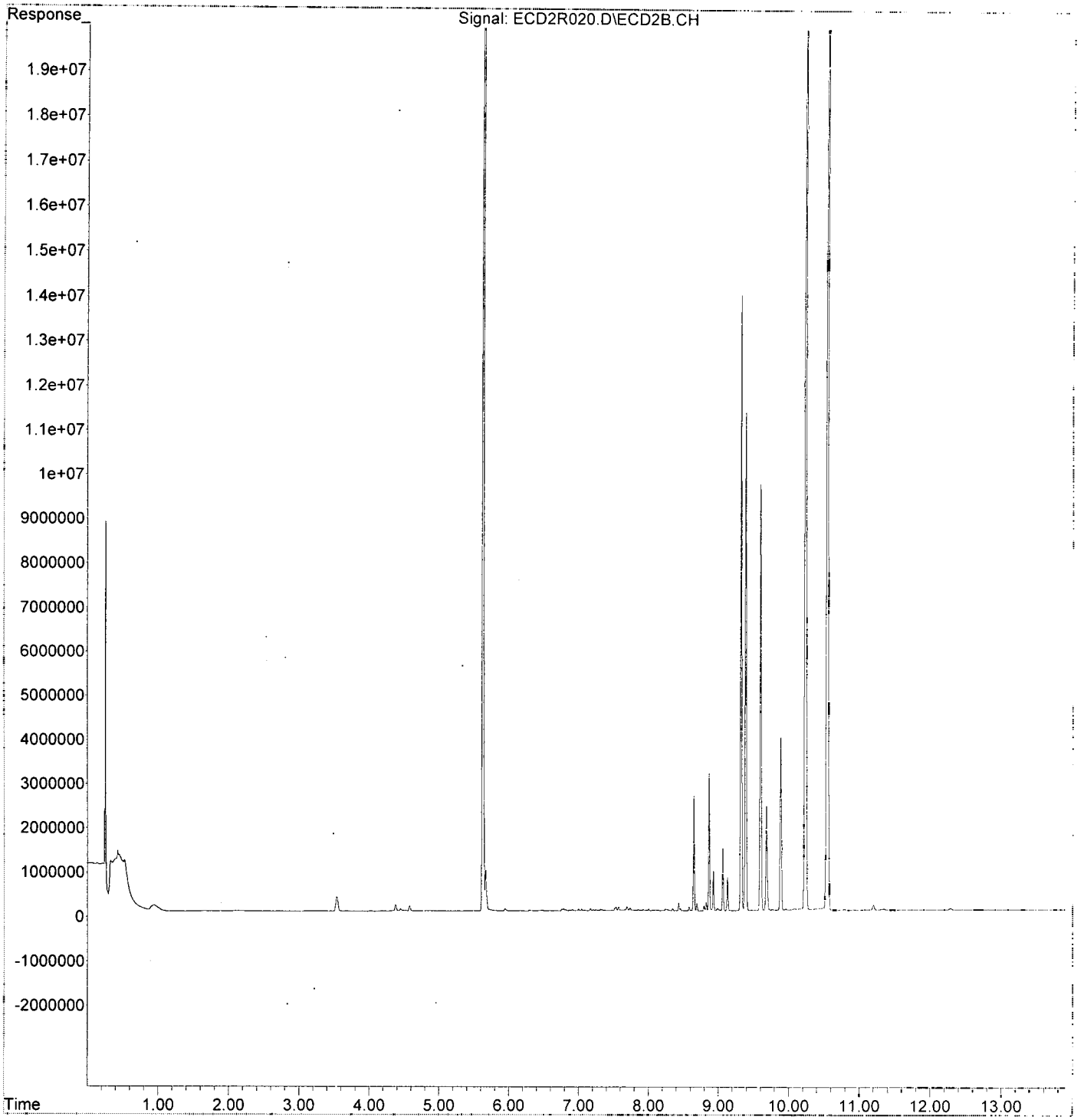
1/14/20

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

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

Polychlorinated Biphenyls by EPA 8082A
Calibration Data

Sequence 0B18016 (Cal ID A0B1902) DUALECD2F

ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence:	**0B18016**	Instrument:	**DUALECD2F**
Date:	**02/18/20 07:14**	Calibration:	**A0B1902**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0B18016-ICB1	Water	QC	QC				A20A395
2	0B18016-CAL1	Water	QC	QC				A19L280
3	0B18016-CAL2	Water	QC	QC				A19L281
4	0B18016-CAL3	Water	QC	QC				A19L282
5	0B18016-CAL4	Water	QC	QC				A19L283
6	0B18016-CAL5	Water	QC	QC				A19L276
7	0B18016-CAL6	Water	QC	QC				A19L278
8	0B18016-CAL7	Water	QC	QC				A19L279
9	0B18016-IBL1	Water	QC	QC				
10	0B18016-ICV1	Water	QC	QC				A19H459
11	0B18016-CAL8	Water	QC	QC				A19H447
12	0B18016-CAL9	Water	QC	QC				A19H448
13	0B18016-CALA	Water	QC	QC				A19H449
14	0B18016-CALB	Water	QC	QC				A19H450
15	0B18016-CALC	Water	QC	QC				A19H451
16	0B18016-CALD	Water	QC	QC				A19H452
17	0B18016-CALE	Water	QC	QC				A19H453
18	0B18016-ICV2	Water	QC	QC				A19H405
19	0B18016-ICV3	Water	QC	QC				A19J367
20	0B18016-ICV4	Water	QC	QC				A19H406
21	0B18016-ICV5	Water	QC	QC				A20B130

Comments:

Data Entered By: 2/19/20

Data Reviewed By: 2/20/2020

Calibration Status Report HP G1530A

Method Path : K:\METHODS\
Method File : FECD2_QUANTPCB_200218.M
Title : PCB Data Analysis
Last Update : Wed Feb 19 09:08:18 2020
Response Via : Initial Calibration

A0B1902

2/19/20

#	ID	Conc	ISTD Conc	Path\File
1	1	10	0	K:\DATA\0B18016\ECD2F008.D
2	2	25	0	K:\DATA\0B18016\ECD2F009.D
3	3	50	0	K:\DATA\0B18016\ECD2F010.D
4	4	100	0	K:\DATA\0B18016\ECD2F011.D
5	5	250	0	K:\DATA\0B18016\ECD2F023.D
6	6	500	0	K:\DATA\0B18016\ECD2F013.D
7	7	800	0	K:\DATA\0B18016\ECD2F014.D

#	ID	Update Time	Quant Time	Acquisition Time
1	1	Feb 19 09:05 2020	Feb 19 08:44 2020	18 Feb 2020 9:47
2	2	Feb 19 09:06 2020	Feb 19 08:45 2020	18 Feb 2020 10:04
3	3	Feb 19 09:06 2020	Feb 19 08:47 2020	18 Feb 2020 10:22
4	4	Feb 19 09:06 2020	Feb 19 08:48 2020	18 Feb 2020 10:40
5	5	Feb 19 09:08 2020	Feb 19 09:05 2020	18 Feb 2020 14:11
6	6	Feb 19 09:06 2020	Feb 19 08:49 2020	18 Feb 2020 11:15
7	7	Feb 19 09:06 2020	Feb 19 08:51 2020	18 Feb 2020 11:32

FECD2_QUANTPCB_200218.M Wed Feb 19 09:32:40 2020

Response Factor Report HP G1530A

Method Path : K:\METHODS\
Method File : FECD2_QUANTPCB_200218.M
Title : PCB Data Analysis
Last Update : Wed Feb 19 09:08:18 2020
Response Via : Initial Calibration

Calibration Files
1 =ECD2F008.D 2 =ECD2F009.D 3 =ECD2F010.D
4 =ECD2F011.D 5 =ECD2F023.D 6 =ECD2F013.D

2/19/20

A081902

		Compound		1	2	3	4	5	6	Avg		%RSD
1)	S	TCMX (S)		7.350	7.632	7.486	7.955	7.448	8.629	7.893	E4	7.33
2)		Aroclor 1016	...	5.721	5.165	4.485	4.404	4.286	4.175	4.608	E3	13.28✓
3)		Aroclor 1016	...	9.758	9.100	8.745	8.513	8.488	8.442	8.800	E3	5.45✓
4)		Aroclor 1016	...	5.487	5.169	4.618	4.661	4.574	4.577	4.787	E3	8.10✓
5)		Aroclor 1016	...	5.435	4.833	4.615	4.174	4.076	3.930	4.432	E3	12.58✓
6)		Aroclor 1016	...	6.226	5.608	5.066	5.040	4.731	4.405	5.114	E3	12.07✓
7)		Aroclor 1016	(6)	4.529	3.943	3.702	3.630	3.527	3.182	3.697	E3	11.90✓
8)		Aroclor 1016	...							0.000		-1.00
9)		Aroclor 1221	(1)					1.363		1.363	E3	0.00
10)		Aroclor 1221	(2)					9.212		9.212	E2	0.00
11)		Aroclor 1221	(3)					2.837		2.837	E3	0.00
12)		Aroclor 1221	...							0.000		-1.00
13)		Aroclor 1232	(1)					2.366		2.366	E3	0.00
14)		Aroclor 1232	(2)					3.587		3.587	E3	0.00
15)		Aroclor 1232	(3)					1.968		1.968	E3	0.00
16)		Aroclor 1232	(4)					1.519		1.519	E3	0.00
17)		Aroclor 1232	(5)					1.930		1.930	E3	0.00
18)		Aroclor 1232	(6)					1.575		1.575	E3	0.00
19)		Aroclor 1232	...							0.000		-1.00
20)		Aroclor 1242	...					3.521		3.521	E3	0.00
21)		Aroclor 1242	...					7.174		7.174	E3	0.00
22)		Aroclor 1242	...					3.676		3.676	E3	0.00
23)		Aroclor 1242	...					3.274		3.274	E3	0.00
24)		Aroclor 1242	...					4.099		4.099	E3	0.00
25)		Aroclor 1242	(6)					3.408		3.408	E3	0.00
26)		Aroclor 1242	...							0.000		-1.00
27)		Aroclor 1248	...					4.362		4.362	E3	0.00
28)		Aroclor 1248	...					5.705		5.705	E3	0.00
29)		Aroclor 1248	...					6.474		6.474	E3	0.00
30)		Aroclor 1248	...					7.354		7.354	E3	0.00
31)		Aroclor 1248	...					7.546		7.546	E3	0.00
32)		Aroclor 1248	(6)					4.103		4.103	E3	0.00
33)		Aroclor 1248	...							0.000		-1.00
34)		Aroclor 1254	...					8.860		8.860	E3	0.00
35)		Aroclor 1254	...					1.108		1.108	E4	0.00
36)		Aroclor 1254	...					1.664		1.664	E4	0.00
37)		Aroclor 1254	...					1.063		1.063	E4	0.00
38)		Aroclor 1254	...					1.158		1.158	E4	0.00
39)		Aroclor 1254	(6)					3.731		3.731	E3	0.00
40)		Aroclor 1254	...							0.000		-1.00
41)		Aroclor 1260	...	1.169	1.067	1.032	1.027	0.959	0.917	1.017	E4	8.38✓
42)		Aroclor 1260	...	1.447	1.318	1.209	1.280	1.192	1.177	1.264	E4	7.50✓
43)		Aroclor 1260	(3)	1.093	0.987	0.967	0.898	0.928	0.897	0.950	E4	7.76✓
44)		Aroclor 1260	(4)	2.378	2.324	2.170	2.245	2.270	2.142	2.250	E4	3.69✓
45)		Aroclor 1260	(5)	1.635	1.574	1.504	1.533	1.475	1.431	1.520	E4	4.46✓
46)		Aroclor 1260	(6)	7.032	6.207	6.110	6.034	5.917	5.645	6.139	E3	7.04✓
47)		Aroclor 1260	...							0.000		-1.00
48)		Aroclor 1262	(1)					1.074		1.074	E4	0.00
49)		Aroclor 1262	(2)					1.532		1.532	E4	0.00
50)		Aroclor 1262	(3)					1.277		1.277	E4	0.00
51)		Aroclor 1262	(4)					2.830		2.830	E4	0.00
52)		Aroclor 1262	(5)					1.807		1.807	E4	0.00
53)		Aroclor 1262	(6)					9.055		9.055	E3	0.00
54)		Aroclor 1262	...							0.000		-1.00
55)		Aroclor 1268	(1)					6.426		6.426	E3	0.00
56)		Aroclor 1268	(2)					2.968		2.968	E4	0.00
57)		Aroclor 1268	(3)					2.498		2.498	E4	0.00
58)		Aroclor 1268	(4)					2.306		2.306	E4	0.00
59)		Aroclor 1268	(5)					9.210		9.210	E3	0.00
60)		Aroclor 1268	(6)					6.486		6.486	E4	0.00

Method Path : K:\METHODS\
Method File : FECD2_QUANTPCB_200218.M
Title : PCB Data Analysis
Last Update : Wed Feb 19 09:08:18 2020
Response Via : Initial Calibration

Calibration Files
1 =ECD2F008.D 2 =ECD2F009.D 3 =ECD2F010.D
4 =ECD2F011.D 5 =ECD2F023.D 6 =ECD2F013.D

		Compound	1	2	3	4	5	6	Avg	%RSD
61)		Aroclor 1268 ...							0.000	-1.00
62)	S	DCBP (S)	1.375	1.333	1.368	1.365	1.293	1.365	1.358 E5	2.70

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

Compound List Report HP G1530A

Method Path : K:\METHODS\
Method File : FEED2_QUANTPCB_200218.M
Title : PCB Data Analysis
Last Update : Wed Feb 19 09:08:18 2020
Response Via : Initial Calibration

Total Cpnds : 62

2/19/20

PK#		Compound Name	Exp_RT	Rel_RT	Cal	A/H	ID
1	S	TCMX (S)	4.780	1.000	A	H	L
2		Aroclor 1016 (1)	5.692	1.000	A	H	R
3		Aroclor 1016 (2)	6.105	1.000	A	H	R
4		Aroclor 1016 (3)	6.186	1.000	A	H	R
5		Aroclor 1016 (4)	6.343	1.000	A	H	R
6		Aroclor 1016 (5)	6.565	1.000	A	H	R
7		Aroclor 1016 (6)	6.691	1.000	A	H	R
8		Aroclor 1016 - AVE	0.746	1.000	A	H	R
9		Aroclor 1221 (1)	5.133	1.000	A	H	R
10		Aroclor 1221 (2)	5.252	1.000	A	H	R
11		Aroclor 1221 (3)	5.333	1.000	A	H	R
12		Aroclor 1221 - AVE	0.746	1.000	A	H	R
13		Aroclor 1232 (1)	5.332	1.000	A	H	R
14		Aroclor 1232 (2)	6.104	1.000	A	H	R
15		Aroclor 1232 (3)	6.187	1.000	A	H	R
16		Aroclor 1232 (4)	6.344	1.000	A	H	R
17		Aroclor 1232 (5)	6.566	1.000	A	H	R
18		Aroclor 1232 (6)	6.691	1.000	A	H	R
19		Aroclor 1232 - AVE	0.746	1.000	A	H	R
20		Aroclor 1242 (1)	5.692	1.000	A	H	R
21		Aroclor 1242 (2)	6.105	1.000	A	H	R
22		Aroclor 1242 (3)	6.186	1.000	A	H	R
23		Aroclor 1242 (4)	6.344	1.000	A	H	R
24		Aroclor 1242 (5)	6.566	1.000	A	H	R
25		Aroclor 1242 (6)	6.692	1.000	A	H	R
26		Aroclor 1242 - AVE	0.746	1.000	A	H	R
27		Aroclor 1248 (1)	6.106	1.000	A	H	R
28		Aroclor 1248 (2)	6.345	1.000	A	H	R
29		Aroclor 1248 (3)	6.567	1.000	A	H	R
30		Aroclor 1248 (4)	6.861	1.000	A	H	R
31		Aroclor 1248 (5)	6.899	1.000	A	H	R
32		Aroclor 1248 (6)	7.375	1.000	A	H	R
33		Aroclor 1248 - AVE	0.746	1.000	A	H	R
34		Aroclor 1254 (1)	6.893	1.000	A	H	R
35		Aroclor 1254 (2)	7.004	1.000	A	H	R
36		Aroclor 1254 (3)	7.375	1.000	A	H	R
37		Aroclor 1254 (4)	7.541	1.000	A	H	R
38		Aroclor 1254 (5)	7.921	1.000	A	H	R
39		Aroclor 1254 (6)	8.212	1.000	A	H	R
40		Aroclor 1254 - AVE	0.746	1.000	A	H	R
41		Aroclor 1260 (1)	7.492	1.000	A	H	R
42		Aroclor 1260 (2)	7.626	1.000	A	H	R
43		Aroclor 1260 (3)	8.180	1.000	A	H	R
44		Aroclor 1260 (4)	8.351	1.000	A	H	R
45		Aroclor 1260 (5)	8.649	1.000	A	H	R
46		Aroclor 1260 (6)	9.038	1.000	A	H	R
47		Aroclor 1260 - AVE	0.746	1.000	A	H	R
48		Aroclor 1262 (1)	7.627	1.000	A	H	R
49		Aroclor 1262 (2)	7.950	1.000	A	H	R
50		Aroclor 1262 (3)	8.182	1.000	A	H	R
51		Aroclor 1262 (4)	8.353	1.000	A	H	R
52		Aroclor 1262 (5)	8.651	1.000	A	H	R
53		Aroclor 1262 (6)	9.040	1.000	A	H	R
54		Aroclor 1262 - AVE	0.746	1.000	A	H	R
55		Aroclor 1268 (1)	8.174	1.000	A	H	R
56		Aroclor 1268 (2)	8.599	1.000	A	H	R

57		Aroclor 1268 (3)	8.647	1.000	A	H	R
58		Aroclor 1268 (4)	8.829	1.000	A	H	R
59		Aroclor 1268 (5)	9.040	1.000	A	H	R
60		Aroclor 1268 (6)	9.296	1.000	A	H	R
61		Aroclor 1268 - AVE	0.749	1.000	A	H	R
62	S	DCBP (S)	9.526	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

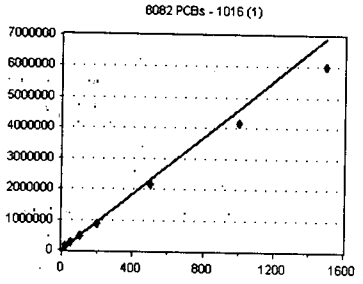
FECD2_QUANTPCB_200218.M Wed Feb 19 09:32:32 2020

Element Calibration Review Sheet

Calibration ID: **A0B1902** Instrument: **DUALECD2F** Calibration Date: **02/19/2020**

Analysis: **8082 PCBs** Instrument Cal ID: **FECD2_QUANTPCB_20021**

1016 (1)

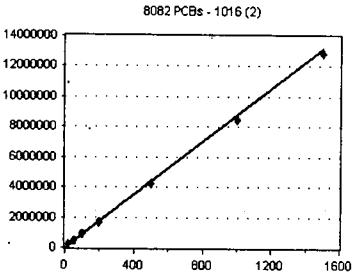


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0B18016-CAL7	1500	6027112	4018.075	5.69
0B18016-CAL6	1000	4174752	4174.752	5.69
0B18016-CAL5	500	2142875	4285.750	5.69
0B18016-CAL4	200	880891	4404.455	5.69
0B18016-CAL3	100	448508	4485.080	5.69
0B18016-CAL2	50	258248	5164.960	5.69
0B18016-CAL1	20	114423	5721.150	5.70

AVE RF **4607.746** RF RSD **13.28** AVE RT **5.69**

1016 (2)

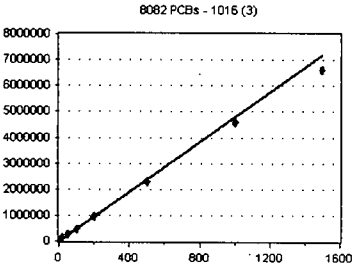


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0B18016-CAL7	1500	283232E+07	8554.880	6.11
0B18016-CAL6	1000	8442266	8442.266	6.11
0B18016-CAL5	500	4244215	8488.430	6.11
0B18016-CAL4	200	1702544	8512.720	6.11
0B18016-CAL3	100	874510	8745.100	6.11
0B18016-CAL2	50	455008	9100.160	6.11
0B18016-CAL1	20	195162	9758.100	6.11

AVE RF **8800.236** RF RSD **5.45** AVE RT **6.11**

1016 (3)

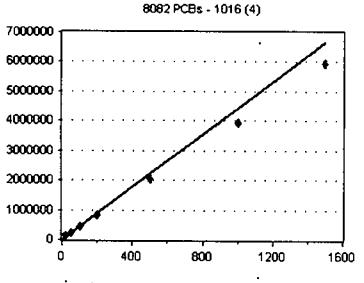


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0B18016-CAL7	1500	6633473	4422.315	6.19
0B18016-CAL6	1000	4576954	4576.954	6.19
0B18016-CAL5	500	2286878	4573.756	6.19
0B18016-CAL4	200	932254	4661.270	6.19
0B18016-CAL3	100	461765	4617.650	6.19
0B18016-CAL2	50	258433	5168.660	6.19
0B18016-CAL1	20	109732	5486.600	6.19

AVE RF **4786.744** RF RSD **8.10** AVE RT **6.19**

1016 (4)



Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0B18016-CAL7	1500	5944203	3962.802	6.34
0B18016-CAL6	1000	3930132	3930.132	6.34
0B18016-CAL5	500	2037988	4075.976	6.34
0B18016-CAL4	200	834830	4174.150	6.34
0B18016-CAL3	100	461493	4614.930	6.34
0B18016-CAL2	50	241632	4832.640	6.34
0B18016-CAL1	20	108700	5435.000	6.35

AVE RF **4432.233** RF RSD **12.58** AVE RT **6.34**

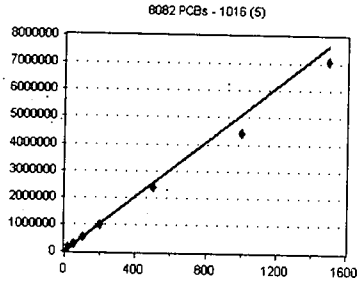
Element Calibration Review Sheet

Calibration ID: **A0B1902** Instrument: **DUALECD2F** Calibration Date: **02/19/2020**

Analysis: **8082 PCBs** Instrument Cal ID: **FECD2_QUANTPCB_20021**

1016 (5)

Curve Fit: **AVERAGE RF**

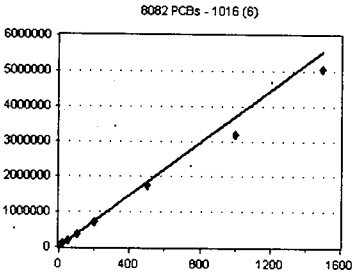


Standard	Concentration	Response	Response Factor	RT
0B18016-CAL7	1500	7087609	4725.073	6.57
0B18016-CAL6	1000	4405368	4405.368	6.57
0B18016-CAL5	500	2365422	4730.844	6.57
0B18016-CAL4	200	1008063	5040.315	6.57
0B18016-CAL3	100	506592	5065.920	6.57
0B18016-CAL2	50	280414	5608.280	6.57
0B18016-CAL1	20	124511	6225.550	6.57

AVE RF **5114.479** RF RSD **12.07** AVE RT **6.57**

1016 (6)

Curve Fit: **AVERAGE RF**

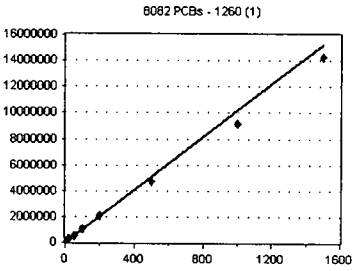


Standard	Concentration	Response	Response Factor	RT
0B18016-CAL7	1500	5047266	3364.844	6.69
0B18016-CAL6	1000	3181732	3181.732	6.69
0B18016-CAL5	500	1763397	3526.794	6.69
0B18016-CAL4	200	725904	3629.520	6.69
0B18016-CAL3	100	370235	3702.350	6.69
0B18016-CAL2	50	197133	3942.660	6.69
0B18016-CAL1	20	90576	4528.800	6.70

AVE RF **3696.671** RF RSD **11.90** AVE RT **6.69**

1260 (1)

Curve Fit: **AVERAGE RF**

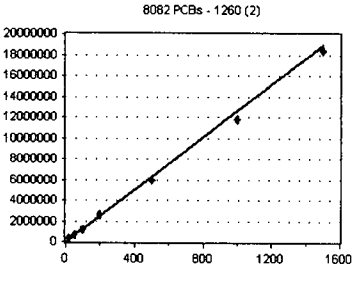


Standard	Concentration	Response	Response Factor	RT
0B18016-CAL7	1500	424795E+07	9498.634	7.49
0B18016-CAL6	1000	9172675	9172.675	7.49
0B18016-CAL5	500	4797117	9594.234	7.49
0B18016-CAL4	200	2053158	10265.790	7.49
0B18016-CAL3	100	1031700	10317.000	7.49
0B18016-CAL2	50	533393	10667.860	7.49
0B18016-CAL1	20	233755	11687.750	7.50

AVE RF **10171.990** RF RSD **8.38** AVE RT **7.49**

1260 (2)

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0B18016-CAL7	1500	841096E+07	12273.970	7.63
0B18016-CAL6	1000	176608E+07	11766.080	7.63
0B18016-CAL5	500	5959812	11919.620	7.63
0B18016-CAL4	200	2559676	12798.380	7.63
0B18016-CAL3	100	1208568	12085.680	7.63
0B18016-CAL2	50	658887	13177.740	7.63
0B18016-CAL1	20	289475	14473.750	7.63

AVE RF **12642.180** RF RSD **7.50** AVE RT **7.63**

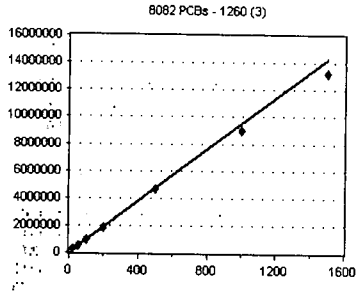
Element Calibration Review Sheet

Calibration ID: **A0B1902** Instrument: **DUALECD2F** Calibration Date: **02/19/2020**

Analysis: **8082 PCBs** Instrument Cal ID: **FECD2_QUANTPCB_20021**

1260 (3)

Curve Fit: **AVERAGE RF**

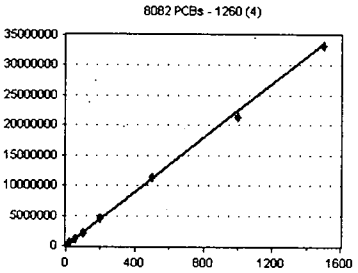


Standard	Concentration	Response	Response Factor	RT
0B18016-CAL7	1500	323205E+07	8821.366	8.18
0B18016-CAL6	1000	8969606	8969.606	8.18
0B18016-CAL5	500	4639944	9279.888	8.18
0B18016-CAL4	200	1795515	8977.575	8.18
0B18016-CAL3	100	967418	9674.180	8.18
0B18016-CAL2	50	493633	9872.660	8.18
0B18016-CAL1	20	218521	10926.050	8.19

AVE RF **9503.046** RF RSD **7.76** AVE RT **8.18**

1260 (4)

Curve Fit: **AVERAGE RF**

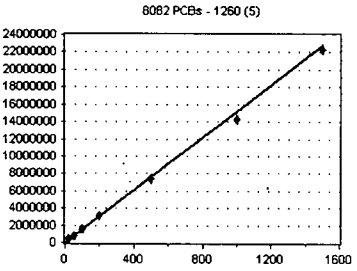


Standard	Concentration	Response	Response Factor	RT
0B18016-CAL7	1500	328561E+07	22190.410	8.35
0B18016-CAL6	1000	141804E+07	21418.040	8.35
0B18016-CAL5	500	134863E+07	22697.260	8.35
0B18016-CAL4	200	4490801	22454.010	8.35
0B18016-CAL3	100	2169781	21697.810	8.35
0B18016-CAL2	50	1161834	23236.680	8.35
0B18016-CAL1	20	475536	23776.800	8.36

AVE RF **22495.860** RF RSD **3.69** AVE RT **8.35**

1260 (5)

Curve Fit: **AVERAGE RF**

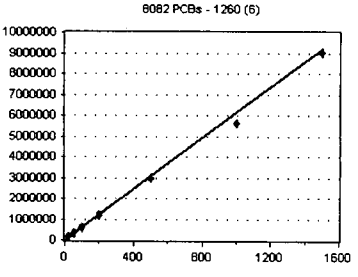


Standard	Concentration	Response	Response Factor	RT
0B18016-CAL7	1500	228838E+07	14858.920	8.65
0B18016-CAL6	1000	431165E+07	14311.650	8.65
0B18016-CAL5	500	7377000	14754.000	8.65
0B18016-CAL4	200	3066068	15330.340	8.65
0B18016-CAL3	100	1504417	15044.170	8.65
0B18016-CAL2	50	787003	15740.060	8.65
0B18016-CAL1	20	327005	16350.250	8.66

AVE RF **15198.480** RF RSD **4.46** AVE RT **8.65**

1260 (6)

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0B18016-CAL7	1500	9041001	6027.334	9.04
0B18016-CAL6	1000	5645108	5645.108	9.04
0B18016-CAL5	500	2958395	5916.790	9.04
0B18016-CAL4	200	1206819	6034.095	9.04
0B18016-CAL3	100	610990	6109.900	9.04
0B18016-CAL2	50	310348	6206.960	9.04
0B18016-CAL1	20	140639	7031.950	9.05

AVE RF **6138.877** RF RSD **7.04** AVE RT **9.04**

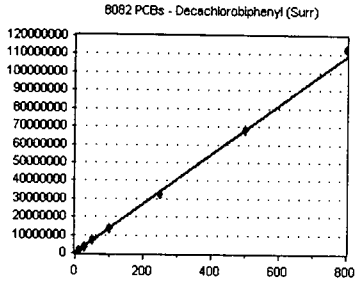
Element Calibration Review Sheet

Calibration ID: **A0B1902** Instrument: **DUALECD2F** Calibration Date: **02/19/2020**

Analysis: **8082 PCBs** Instrument Cal ID: **FECD2_QUANTPCB_20021**

Decachlorobiphenyl (Surr)

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0B18016-CAL7	800	128204E+08	141025.500	9.53
0B18016-CAL6	500	824199E+07	136484.000	9.53
0B18016-CAL5	250	3.23303E+07	129321.200	9.53
0B18016-CAL4	100	365267E+07	136526.700	9.53
0B18016-CAL3	50	6837726	136754.500	9.53
0B18016-CAL2	25	3331882	133275.300	9.53
0B18016-CAL1	10	1374925	137492.500	9.53

AVE RF **135840.000** RF RSD **2.70** AVE RT **9.53**

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 0B18016

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) (Diss)
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
0B18016-ICB1	Initial Cal Blank	Water	A20A395		2/18/2020 9:21:00AM
0B18016-CAL1	Cal Standard	Water	A19L280	"	2/18/2020 9:47:00AM
0B18016-CAL2	Cal Standard	Water	A19L281	"	2/18/2020 10:04:00AM
0B18016-CAL3	Cal Standard	Water	A19L282	"	2/18/2020 10:22:00AM
0B18016-CAL4	Cal Standard	Water	A19L283	"	2/18/2020 10:40:00AM
0B18016-CAL5	Cal Standard	Water	A19L276	"	2/18/2020 10:57:00AM
0B18016-CAL6	Cal Standard	Water	A19L278	"	2/18/2020 11:15:00AM
0B18016-CAL7	Cal Standard	Water	A19L279	"	2/18/2020 11:32:00AM
0B18016-ICV1	Initial Cal Check	Water	A19H459	"	2/18/2020 12:08:00PM
0B18016-CAL8	Cal Standard	Water	A19H447	"	2/18/2020 12:25:00PM
0B18016-CAL9	Cal Standard	Water	A19H448	"	2/18/2020 12:43:00PM
0B18016-CALA	Cal Standard	Water	A19H449	"	2/18/2020 1:00:00PM
0B18016-CALB	Cal Standard	Water	A19H450	"	2/18/2020 1:18:00PM
0B18016-CALC	Cal Standard	Water	A19H451	"	2/18/2020 1:36:00PM
0B18016-CALD	Cal Standard	Water	A19H452	"	2/18/2020 1:53:00PM
0B18016-CALE	Cal Standard	Water	A19H453	"	2/18/2020 2:11:00PM
0B18016-ICV2	Initial Cal Check	Water	A19H405	"	2/18/2020 2:29:00PM
0B18016-ICV3	Initial Cal Check	Water	A19J367	"	2/18/2020 2:46:00PM
0B18016-ICV4	Initial Cal Check	Water	A19H406	"	2/18/2020 3:04:00PM
0B18016-ICV5	Initial Cal Check	Water	A20B130	"	2/18/2020 3:21:00PM

CALIBRATION STANDARD RECOVERIES

Calibration: **A0B1902** Instrument: **DUALECD2F**

1311/8082 TCLP PCBs Sequence: **0B18016** Matrix: **Water**

0B18016-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	

0B18016-CAL2	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
Aroclor 1016	0.0000	0.00	50.0	0	

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 0B18016

Aroclor 1260	0.0000	0.00	50.0	0	
Aroclor 1016	0.0000	0.00	50.0	0	
Aroclor 1260	0.0000	0.00	50.0	0	
0B18016-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	
0B18016-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	
0B18016-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	
0B18016-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	
0B18016-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	
0B18016-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	
0B18016-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	
0B18016-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	
0B18016-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	
0B18016-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: 0B18016

0B18016-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	

0B18016-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: **A0B1902** Instrument: **DUALECD2F**

608 PCBs - LL (1000/1mL) +1 Sequence: **0B18016** Matrix: **Water**

0B18016-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\0B18016\
Data File : ECD2F007.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 9:21
Operator : MJB / KAK
Sample : 0B18016-ICB1
Misc : [redacted]
ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 09:29:59 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 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)	4.783	7429424	94.128 ng/ml
62) S	DCBP (S)	9.528	12779359	94.077 ng/ml
	Target Compounds			
2)	Aroclor 1016 (1)	5.695	6992	1.518 ng/ml
3)	Aroclor 1016 (2)	6.110	9461	1.075 ng/ml
4)	Aroclor 1016 (3)	6.171	7128	1.489 ng/ml
5)	Aroclor 1016 (4)	6.339	7763	1.751 ng/ml
6)	Aroclor 1016 (5)	6.561	9311	1.820 ng/ml
7)	Aroclor 1016 (6)	6.697	9947	2.691 ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9)	Aroclor 1221 (1)	5.098	19248	14.119 ng/ml
10)	Aroclor 1221 (2)	5.236	18971	20.594 ng/ml
11)	Aroclor 1221 (3)	5.341	13536	4.771 ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13)	Aroclor 1232 (1)	5.341	13536	5.721 ng/ml
14)	Aroclor 1232 (2)	6.110	9461	2.637 ng/ml
15)	Aroclor 1232 (3)	6.171	7128	3.621 ng/ml
16)	Aroclor 1232 (4)	6.348	7570	4.983 ng/ml
17)	Aroclor 1232 (5)	6.561	9311	4.823 ng/ml
18)	Aroclor 1232 (6)	6.697	9947	6.316 ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20)	Aroclor 1242 (1)	5.695	6992	1.986 ng/ml
21)	Aroclor 1242 (2)	6.110	9461	1.319 ng/ml
22)	Aroclor 1242 (3)	6.171	7128	1.939 ng/ml
23)	Aroclor 1242 (4)	6.348	7570	2.312 ng/ml
24)	Aroclor 1242 (5)	6.561	9311	2.272 ng/ml
25)	Aroclor 1242 (6)	6.697	9947	2.919 ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27)	Aroclor 1248 (1)	6.110	9461	2.169 ng/ml
28)	Aroclor 1248 (2)	6.348	7570	1.327 ng/ml
29)	Aroclor 1248 (3)	6.561	9311	1.438 ng/ml
30)	Aroclor 1248 (4)	6.862	9515	1.294 ng/ml
31)	Aroclor 1248 (5)	6.895	9371	1.242 ng/ml
32)	Aroclor 1248 (6)	7.383	10486	2.556 ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34)	Aroclor 1254 (1)	6.895	9371	1.058 ng/ml
35)	Aroclor 1254 (2)	7.003	8471	0.764 ng/ml
36)	Aroclor 1254 (3)	7.383	10486	0.630 ng/ml
37)	Aroclor 1254 (4)	7.540	8407	0.791 ng/ml
38)	Aroclor 1254 (5)	7.931	10399	0.898 ng/ml
39)	Aroclor 1254 (6)	8.214	1849	0.496 ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41)	Aroclor 1260 (1)	7.492	9695	0.953 ng/ml
42)	Aroclor 1260 (2)	7.608	6156	0.487 ng/ml
43)	Aroclor 1260 (3)	8.179	2854	0.300 ng/ml
44)	Aroclor 1260 (4)	8.348	17262	0.767 ng/ml
45)	Aroclor 1260 (5)	8.651	3666	0.241 ng/ml
46)	Aroclor 1260 (6)	9.036	4711	0.767 ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B18016\
Data File : ECD2F007.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 9:21
Operator : MJB / KAK
Sample : 0B18016-ICB1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 09:29:59 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

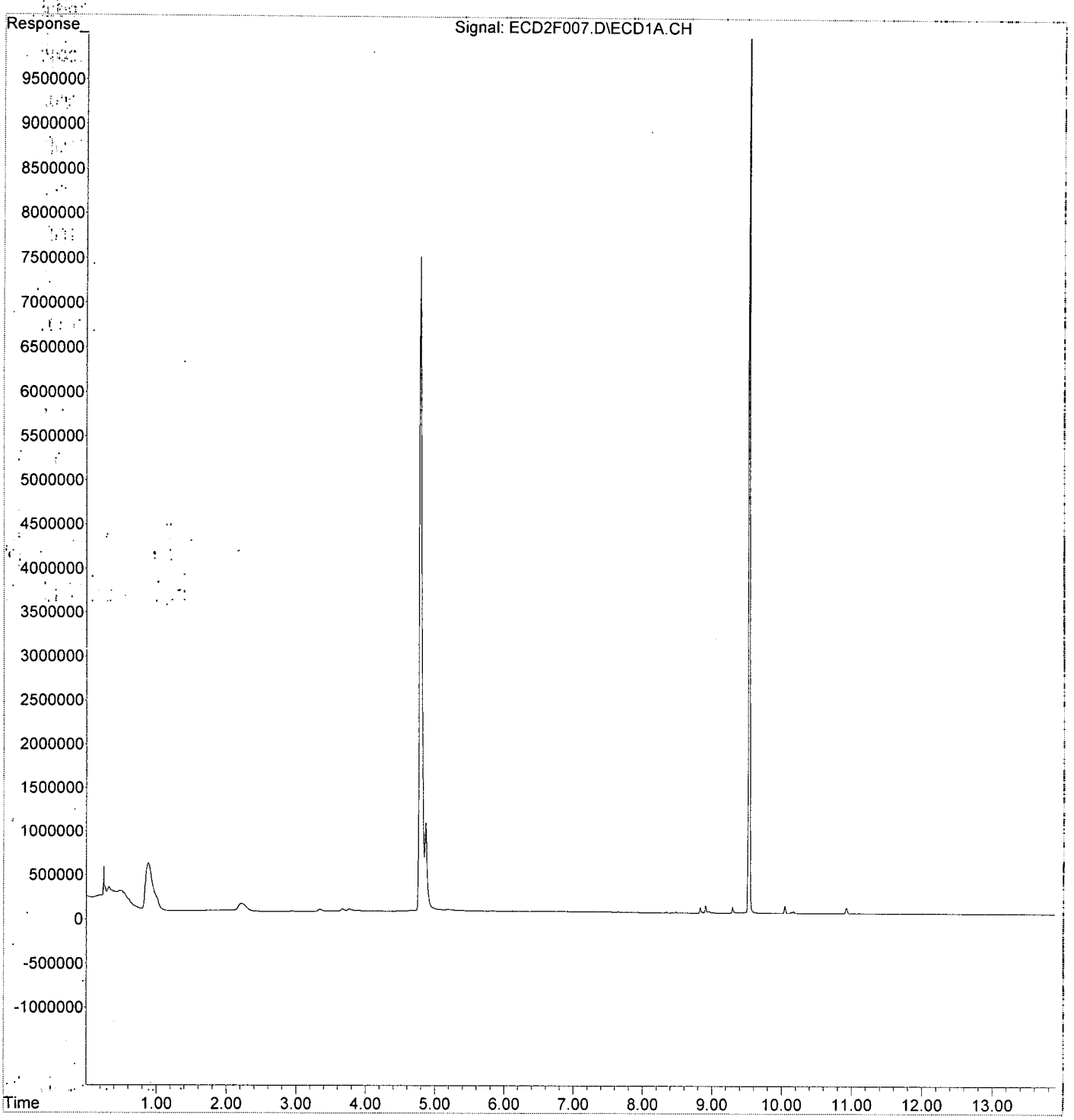
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	7.608	6156	0.573 ng/ml
49)	Aroclor 1262 (2)	7.931	10399	0.679 ng/ml
50)	Aroclor 1262 (3)	8.179	2854	0.224 ng/ml
51)	Aroclor 1262 (4)	8.348	17262	0.610 ng/ml
52)	Aroclor 1262 (5)	8.651	3666	0.203 ng/ml
53)	Aroclor 1262 (6)	9.036	4711	0.520 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.179	2854	0.444 ng/ml
56)	Aroclor 1268 (2)	8.602	2215	0.075 ng/ml
57)	Aroclor 1268 (3)	8.651	3666	0.147 ng/ml
58)	Aroclor 1268 (4)	8.831	66389	2.879 ng/ml
59)	Aroclor 1268 (5)	9.036	4711	0.511 ng/ml
60)	Aroclor 1268 (6)	9.296	71123	1.097 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\0B18016\
Data File : ECD2F007.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 9:21
Operator : MJB / KAK
Sample : 0B18016-ICB1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 09:29:59 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B18016\
Data File : ECD2F015.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 11:50
Operator : MJB / KAK
Sample : 0B18016-IBL1
Misc : [redacted]
ALS Vial : 1 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 09:30:21 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 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)	4.778	10788	0.137 ng/ml
62)	S DCBP (S)	9.525	33690	0.248 ng/ml
	Target Compounds			
2)	Aroclor 1016 (1)	5.692	4254	0.923 ng/ml
3)	Aroclor 1016 (2)	6.121	17131	1.947 ng/ml
4)	Aroclor 1016 (3)	6.176	5779	1.207 ng/ml
5)	Aroclor 1016 (4)	6.342	4183	0.944 ng/ml
6)	Aroclor 1016 (5)	6.571	9261	1.811 ng/ml
7)	Aroclor 1016 (6)	6.696	7128	1.928 ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9)	Aroclor 1221 (1)	5.141	1719	1.261 ng/ml
10)	Aroclor 1221 (2)	5.261	347	0.377 ng/ml
11)	Aroclor 1221 (3)	5.335	904	0.319 ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13)	Aroclor 1232 (1)	5.335	904	0.382 ng/ml
14)	Aroclor 1232 (2)	6.121	17131	4.776 ng/ml
15)	Aroclor 1232 (3)	6.176	5779	2.936 ng/ml
16)	Aroclor 1232 (4)	6.342	4183	2.753 ng/ml
17)	Aroclor 1232 (5)	6.571	9261	4.798 ng/ml
18)	Aroclor 1232 (6)	6.696	7128	4.526 ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20)	Aroclor 1242 (1)	5.692	4254	1.208 ng/ml
21)	Aroclor 1242 (2)	6.121	17131	2.388 ng/ml
22)	Aroclor 1242 (3)	6.176	5779	1.572 ng/ml
23)	Aroclor 1242 (4)	6.342	4183	1.278 ng/ml
24)	Aroclor 1242 (5)	6.571	9261	2.260 ng/ml
25)	Aroclor 1242 (6)	6.696	7128	2.091 ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27)	Aroclor 1248 (1)	6.121	17131	3.927 ng/ml
28)	Aroclor 1248 (2)	6.342	4183	0.733 ng/ml
29)	Aroclor 1248 (3)	6.571	9261	1.430 ng/ml
30)	Aroclor 1248 (4)	6.862	8108	1.102 ng/ml
31)	Aroclor 1248 (5)	6.897	8377	1.110 ng/ml
32)	Aroclor 1248 (6)	7.378	9420	2.296 ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34)	Aroclor 1254 (1)	6.897	8377	0.945 ng/ml
35)	Aroclor 1254 (2)	7.006	7440	0.671 ng/ml
36)	Aroclor 1254 (3)	7.378	9420	0.566 ng/ml
37)	Aroclor 1254 (4)	7.541	7642	0.719 ng/ml
38)	Aroclor 1254 (5)	7.920	10732	0.926 ng/ml
39)	Aroclor 1254 (6)	8.213	2521	0.676 ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41)	Aroclor 1260 (1)	7.494	9920	0.975 ng/ml
42)	Aroclor 1260 (2)	7.628	12694	1.004 ng/ml
43)	Aroclor 1260 (3)	8.181	5986	0.630 ng/ml
44)	Aroclor 1260 (4)	8.353	18505	0.823 ng/ml
45)	Aroclor 1260 (5)	8.650	13881	0.913 ng/ml
46)	Aroclor 1260 (6)	9.040	6437	1.049 ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B18016\
Data File : ECD2F015.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 11:50
Operator : MJB / KAK
Sample : 0B18016-IBL1
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 09:30:21 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

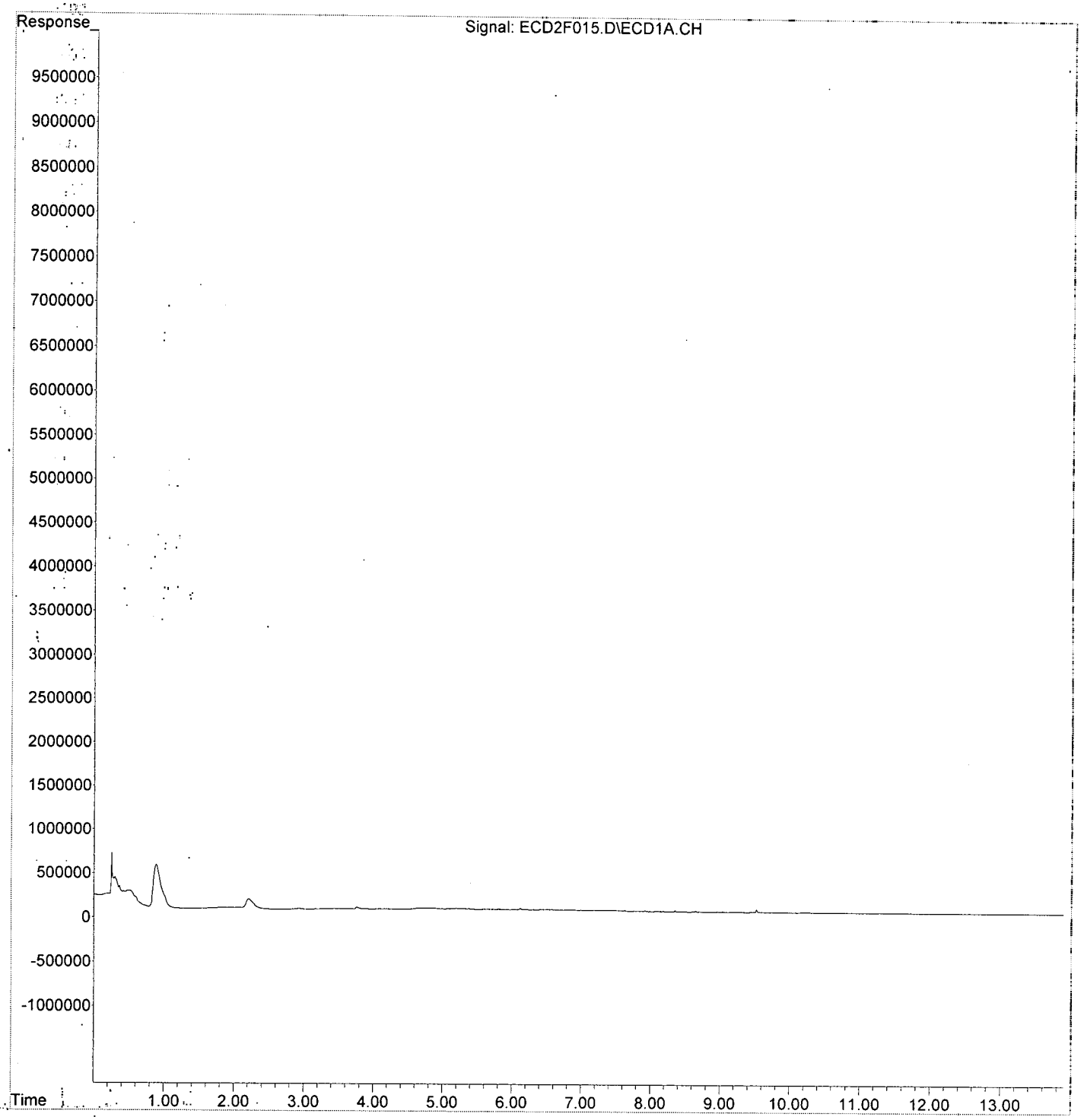
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	7.628	12694	1.181 ng/ml
49)	Aroclor 1262 (2)	7.949	5952	0.388 ng/ml
50)	Aroclor 1262 (3)	8.181	5986	0.469 ng/ml
51)	Aroclor 1262 (4)	8.353	18505	0.654 ng/ml
52)	Aroclor 1262 (5)	8.650	13881	0.768 ng/ml
53)	Aroclor 1262 (6)	9.040	6437	0.711 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.181	5986	0.932 ng/ml
56)	Aroclor 1268 (2)	8.599	4275	0.144 ng/ml
57)	Aroclor 1268 (3)	8.650	13881	0.556 ng/ml
58)	Aroclor 1268 (4)	8.829	1808	0.078 ng/ml
59)	Aroclor 1268 (5)	9.040	6437	0.699 ng/ml
60)	Aroclor 1268 (6)	9.295	4595	0.071 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\0B18016\
Data File : ECD2F015.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 11:50
Operator : MJB / KAK
Sample : 0B18016-IBL1
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 09:30:21 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B18016\
Data File : ECD2F016.D
Signal(s) : ECD1A.CH
Acq On : 18-Feb 2020 12:08
Operator : MJB / KAK
Sample : 0B18016-ICV1
Misc : [redacted]
ALS Vial : 11 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 09:30:43 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

2/19/20

1016, 1260

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
1) S	TCMX (S)	4.781	14484361	183.512 ng/ml
62) S	DCBP (S)	9.527	25827201	190.130 ng/ml
	Target Compounds			
2)	Aroclor 1016 (1)	5.694	2160933	468.978 ng/ml
3)	Aroclor 1016 (2)	6.106	4384748	498.253 ng/ml
4)	Aroclor 1016 (3)	6.187	2382176	497.661 ng/ml
5)	Aroclor 1016 (4)	6.345	2008839	453.234 ng/ml
6)	Aroclor 1016 (5)	6.567	2445574	478.167 ng/ml
7)	Aroclor 1016 (6)	6.693	1736348	469.706 ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9)	Aroclor 1221 (1)	5.134	210043	154.068 ng/ml
10)	Aroclor 1221 (2)	5.251	229122	248.717 ng/ml
11)	Aroclor 1221 (3)	5.333	1016160	358.167 ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13)	Aroclor 1232 (1)	5.333	1016160	429.510 ng/ml
14)	Aroclor 1232 (2)	6.106	4384748	1222.302 ng/ml
15)	Aroclor 1232 (3)	6.187	2382176	1210.328 ng/ml
16)	Aroclor 1232 (4)	6.345	2008839	1322.176 ng/ml
17)	Aroclor 1232 (5)	6.567	2445574	1266.882 ng/ml
18)	Aroclor 1232 (6)	6.693	1736348	1102.470 ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20)	Aroclor 1242 (1)	5.694	2160933	613.757 ng/ml
21)	Aroclor 1242 (2)	6.106	4384748	611.203 ng/ml
22)	Aroclor 1242 (3)	6.187	2382176	648.053 ng/ml
23)	Aroclor 1242 (4)	6.345	2008839	613.572 ng/ml
24)	Aroclor 1242 (5)	6.567	2445574	596.673 ng/ml
25)	Aroclor 1242 (6)	6.693	1736348	509.500 ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27)	Aroclor 1248 (1)	6.106	4384748	1005.196 ng/ml
28)	Aroclor 1248 (2)	6.345	2008839	352.117 ng/ml
29)	Aroclor 1248 (3)	6.567	2445574	377.725 ng/ml
30)	Aroclor 1248 (4)	6.861	415968	56.562 ng/ml
31)	Aroclor 1248 (5)	6.894	1829426	242.450 ng/ml
32)	Aroclor 1248 (6)	7.381	4081325	994.622 ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34)	Aroclor 1254 (1)	6.894	1829426	206.470 ng/ml
35)	Aroclor 1254 (2)	7.005	2123293	191.596 ng/ml
36)	Aroclor 1254 (3)	7.381	4081325	245.283 ng/ml
37)	Aroclor 1254 (4)	7.541	427251	40.201 ng/ml
38)	Aroclor 1254 (5)	7.921	5870269	506.753 ng/ml
39)	Aroclor 1254 (6)	8.212	612048	164.054 ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41)	Aroclor 1260 (1)	7.493	5617745	552.276 ng/ml
42)	Aroclor 1260 (2)	7.628	6845701	541.497 ng/ml
43)	Aroclor 1260 (3)	8.182	4234804	445.626 ng/ml
44)	Aroclor 1260 (4)	8.353	10430755	463.674 ng/ml
45)	Aroclor 1260 (5)	8.651	6958949	457.871 ng/ml
46)	Aroclor 1260 (6)	9.040	2335422	380.432 ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

477.667

473.563

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B18016\
Data File : ECD2F016.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 12:08
Operator : MJB / KAK
Sample : 0B18016-ICV1
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 09:30:43 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

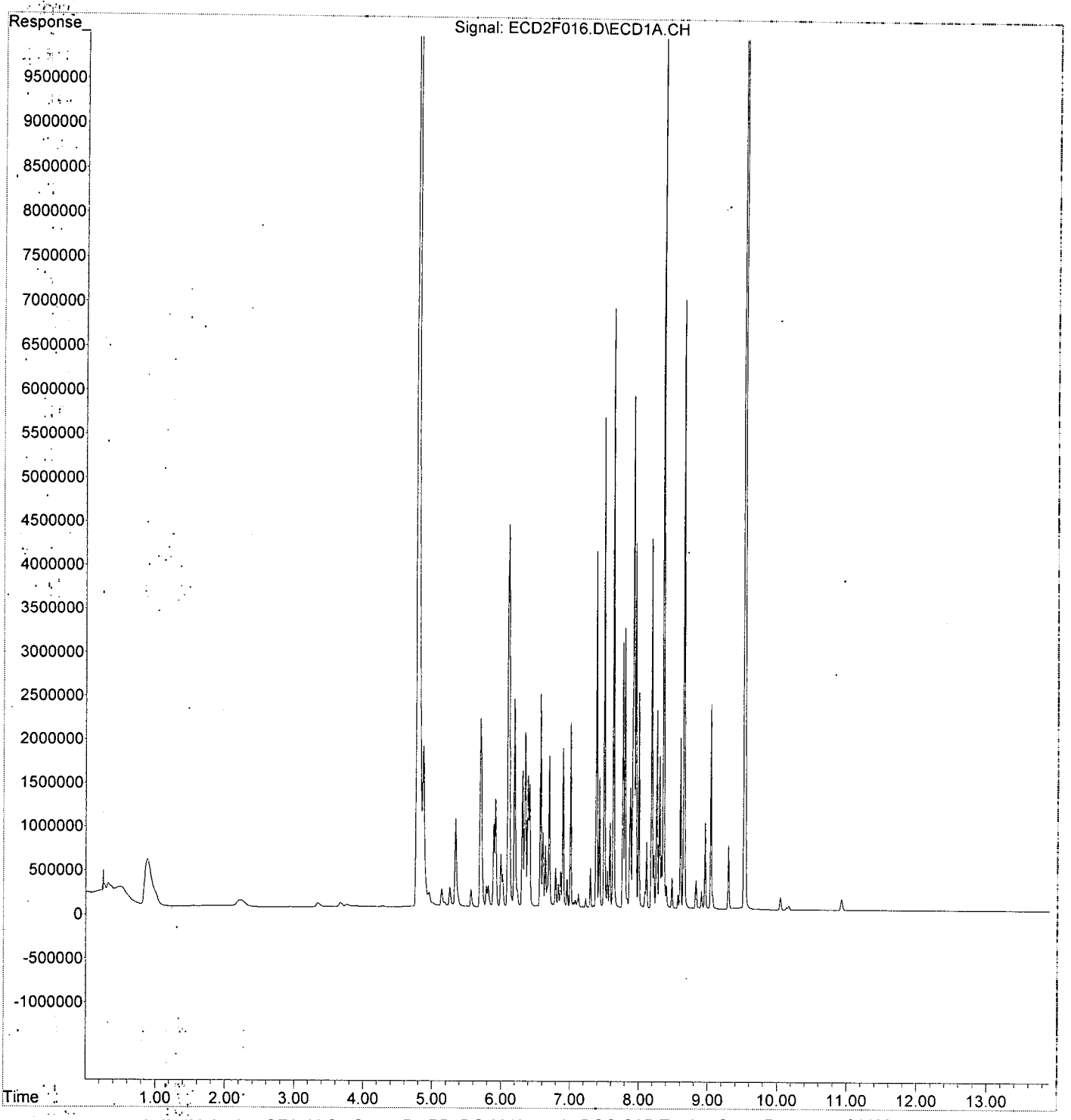
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	7.628	6845701	637.136 ng/ml
49)	Aroclor 1262 (2)	7.951	4180128	272.833 ng/ml
50)	Aroclor 1262 (3)	8.182	4234804	331.733 ng/ml
51)	Aroclor 1262 (4)	8.353	10430755	368.536 ng/ml
52)	Aroclor 1262 (5)	8.651	6958949	385.032 ng/ml
53)	Aroclor 1262 (6)	9.040	2335422	257.922 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.182	4234804	658.991 ng/ml
56)	Aroclor 1268 (2)	8.599	1959249	66.007 ng/ml
57)	Aroclor 1268 (3)	8.651	6958949	278.600 ng/ml
58)	Aroclor 1268 (4)	8.827	328242	14.232 ng/ml
59)	Aroclor 1268 (5)	9.040	2335422	253.573 ng/ml
60)	Aroclor 1268 (6)	9.296	733639	11.311 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\0B18016\
Data File : ECD2F016.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 12:08
Operator : MJB / KAK
Sample : 0B18016-ICV1
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 09:30:43 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B18016\
Data File : ECD2F024.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 14:29
Operator : MJB / KAK
Sample : 0B18016-ICV2
Misc : [redacted]
ALS Vial : 19 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 09:31:04 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 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)	4.781	3057724	38.740	ng/ml	
62) S	DCBP (S)	9.527	12087020	88.980	ng/ml	
	Target Compounds					
2)	Aroclor 1016 (1)	5.695	527279	114.433	ng/ml	
3)	Aroclor 1016 (2)	6.103	685397	77.884	ng/ml	
4)	Aroclor 1016 (3)	6.187	406995	85.025	ng/ml	
5)	Aroclor 1016 (4)	6.345	2316513	522.652	ng/ml	
6)	Aroclor 1016 (5)	6.566	1498244	292.942	ng/ml	
7)	Aroclor 1016 (6)	6.692	703553	190.321	ng/ml	
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml	
9)	Aroclor 1221 (1)	5.133	1417248	1039.561	ng/ml	1002.078
10)	Aroclor 1221 (2)	5.250	879183	954.372	ng/ml	
11)	Aroclor 1221 (3)	5.331	2872013	1012.302	ng/ml	
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml	
13)	Aroclor 1232 (1)	5.331	2872013	1213.941	ng/ml	
14)	Aroclor 1232 (2)	6.103	685397	191.063	ng/ml	
15)	Aroclor 1232 (3)	6.187	406995	206.785	ng/ml	
16)	Aroclor 1232 (4)	6.345	2316513	1524.681	ng/ml	
17)	Aroclor 1232 (5)	6.566	1498244	776.136	ng/ml	
18)	Aroclor 1232 (6)	6.692	703553	446.711	ng/ml	
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml	
20)	Aroclor 1242 (1)	5.695	527279	149.760	ng/ml	
21)	Aroclor 1242 (2)	6.103	685397	95.539	ng/ml	
22)	Aroclor 1242 (3)	6.187	406995	110.720	ng/ml	
23)	Aroclor 1242 (4)	6.345	2316513	707.547	ng/ml	
24)	Aroclor 1242 (5)	6.566	1498244	365.543	ng/ml	
25)	Aroclor 1242 (6)	6.692	703553	206.445	ng/ml	
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml	
27)	Aroclor 1248 (1)	6.103	685397	157.126	ng/ml	
28)	Aroclor 1248 (2)	6.345	2316513	406.047	ng/ml	
29)	Aroclor 1248 (3)	6.566	1498244	231.408	ng/ml	
30)	Aroclor 1248 (4)	6.860	2220465	301.930	ng/ml	
31)	Aroclor 1248 (5)	6.893	4340890	575.289	ng/ml	
32)	Aroclor 1248 (6)	7.375	7621181	1857.287	ng/ml	
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml	
34)	Aroclor 1254 (1)	6.893	4340890	489.915	ng/ml	455.104
35)	Aroclor 1254 (2)	7.004	5027208	453.631	ng/ml	
36)	Aroclor 1254 (3)	7.375	7621181	458.024	ng/ml	
37)	Aroclor 1254 (4)	7.540	4596090	432.458	ng/ml	
38)	Aroclor 1254 (5)	7.920	5205288	449.349	ng/ml	
39)	Aroclor 1254 (6)	8.211	1668574	447.246	ng/ml	
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml	
41)	Aroclor 1260 (1)	7.493	2890934	284.205	ng/ml	
42)	Aroclor 1260 (2)	7.626	3375381	266.994	ng/ml	
43)	Aroclor 1260 (3)	8.182	441772	46.487	ng/ml	
44)	Aroclor 1260 (4)	8.352	1131045	50.278	ng/ml	
45)	Aroclor 1260 (5)	8.651	941410	61.941	ng/ml	
46)	Aroclor 1260 (6)	9.040	74872	12.196	ng/ml	
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml	

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B18016\
Data File : ECD2F024.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 14:29
Operator : MJB / KAK
Sample : 0B18016-ICV2
Misc :
ALS Vial : 19 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 09:31:04 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

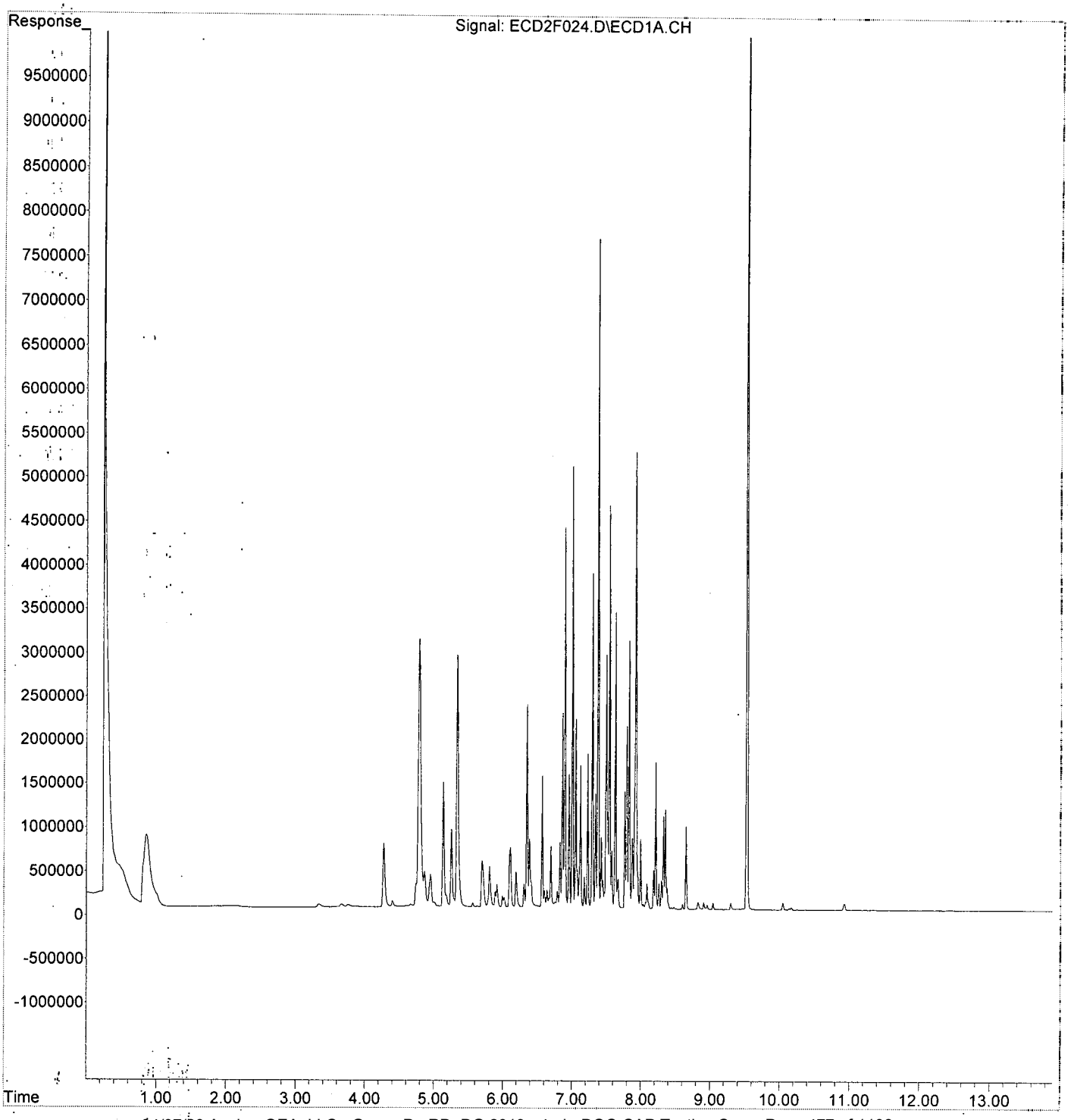
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	7.626	3375381	314.150 ng/ml
49)	Aroclor 1262 (2)	7.920	5205288	339.744 ng/ml
50)	Aroclor 1262 (3)	8.182	441772	34.606 ng/ml
51)	Aroclor 1262 (4)	8.352	1131045	39.962 ng/ml
52)	Aroclor 1262 (5)	8.651	941410	52.087 ng/ml
53)	Aroclor 1262 (6)	9.040	74872	8.269 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.182	441772	68.745 ng/ml
56)	Aroclor 1268 (2)	8.600	59217	1.995 ng/ml
57)	Aroclor 1268 (3)	8.651	941410	37.689 ng/ml
58)	Aroclor 1268 (4)	8.825	78462	3.402 ng/ml
59)	Aroclor 1268 (5)	9.040	74872	8.129 ng/ml
60)	Aroclor 1268 (6)	9.296	71595	1.104 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\0B18016\
Data File : ECD2F024.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 14:29
Operator : MJB / KAK
Sample : 0B18016-ICV2
Misc :
ALS Vial : 19 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 09:31:04 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B18016\
Data File : ECD2F025.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 14:46
Operator : MJB / KAK
Sample : 0B18016-ICV3
Misc : [redacted]
ALS Vial : 20 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 09:31:25 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

2/19/20

1232, 1262

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	4.782	3122493	39.561	ng/ml
62) S	DCBP (S)	9.527	12016074	88.458	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	5.694	1057601	229.527	ng/ml
3)	Aroclor 1016 (2)	6.106	2040123	231.826	ng/ml
4)	Aroclor 1016 (3)	6.188	1080561	225.740	ng/ml
5)	Aroclor 1016 (4)	6.344	837070	188.860	ng/ml
6)	Aroclor 1016 (5)	6.566	1071991	209.599	ng/ml
7)	Aroclor 1016 (6)	6.692	852022	230.484	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.133	467105	342.625	ng/ml
10)	Aroclor 1221 (2)	5.251	347214	376.908	ng/ml
11)	Aroclor 1221 (3)	5.332	1223841	431.369	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.332	1223841	517.292	ng/ml
14)	Aroclor 1232 (2)	6.106	2040123	568.709	ng/ml
15)	Aroclor 1232 (3)	6.188	1080561	549.008	ng/ml
16)	Aroclor 1232 (4)	6.344	837070	550.942	ng/ml
17)	Aroclor 1232 (5)	6.566	1071991	555.324	ng/ml
18)	Aroclor 1232 (6)	6.692	852022	540.980	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	5.694	1057601	300.384	ng/ml
21)	Aroclor 1242 (2)	6.106	2040123	284.379	ng/ml
22)	Aroclor 1242 (3)	6.188	1080561	293.958	ng/ml
23)	Aroclor 1242 (4)	6.344	837070	255.672	ng/ml
24)	Aroclor 1242 (5)	6.566	1071991	261.545	ng/ml
25)	Aroclor 1242 (6)	6.692	852022	250.011	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.106	2040123	467.695	ng/ml
28)	Aroclor 1248 (2)	6.344	837070	146.725	ng/ml
29)	Aroclor 1248 (3)	6.566	1071991	165.572	ng/ml
30)	Aroclor 1248 (4)	6.860	1043005	141.824	ng/ml
31)	Aroclor 1248 (5)	6.896	1468828	194.661	ng/ml
32)	Aroclor 1248 (6)	7.381	3539938	862.685	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	6.896	1468828	165.773	ng/ml
35)	Aroclor 1254 (2)	7.003	1000258	90.258	ng/ml
36)	Aroclor 1254 (3)	7.381	3539938	212.746	ng/ml
37)	Aroclor 1254 (4)	7.541	393777	37.052	ng/ml
38)	Aroclor 1254 (5)	7.920	2656583	229.331	ng/ml
39)	Aroclor 1254 (6)	8.181	6289732	1685.906	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	7.493	4397367	432.301	ng/ml
42)	Aroclor 1260 (2)	7.627	5332004	421.763	ng/ml
43)	Aroclor 1260 (3)	8.181	6289732	661.865	ng/ml
44)	Aroclor 1260 (4)	8.352	13863012	616.247	ng/ml
45)	Aroclor 1260 (5)	8.650	8535044	561.572	ng/ml
46)	Aroclor 1260 (6)	9.040	4483263	730.307	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

547.043

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B18016\
Data File : ECD2F025.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 14:46
Operator : MJB / KAK
Sample : 0B18016-ICV3
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 09:31:25 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	7.627	5332004	496.255	ng/ml
49)	Aroclor 1262 (2)	7.950	7443540	485.832	ng/ml
50)	Aroclor 1262 (3)	8.181	6289732	492.705	ng/ml
51)	Aroclor 1262 (4)	8.352	13863012	489.804	ng/ml
52)	Aroclor 1262 (5)	8.650	8535044	472.236	ng/ml
53)	Aroclor 1262 (6)	9.040	4483263	495.127	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	8.181	6289732	978.764	ng/ml
56)	Aroclor 1268 (2)	8.599	5201742	175.245	ng/ml
57)	Aroclor 1268 (3)	8.650	8535044	341.699	ng/ml
58)	Aroclor 1268 (4)	8.827	411201	17.830	ng/ml
59)	Aroclor 1268 (5)	9.040	4483263	486.780	ng/ml
60)	Aroclor 1268 (6)	9.295	1406322	21.682	ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/ml

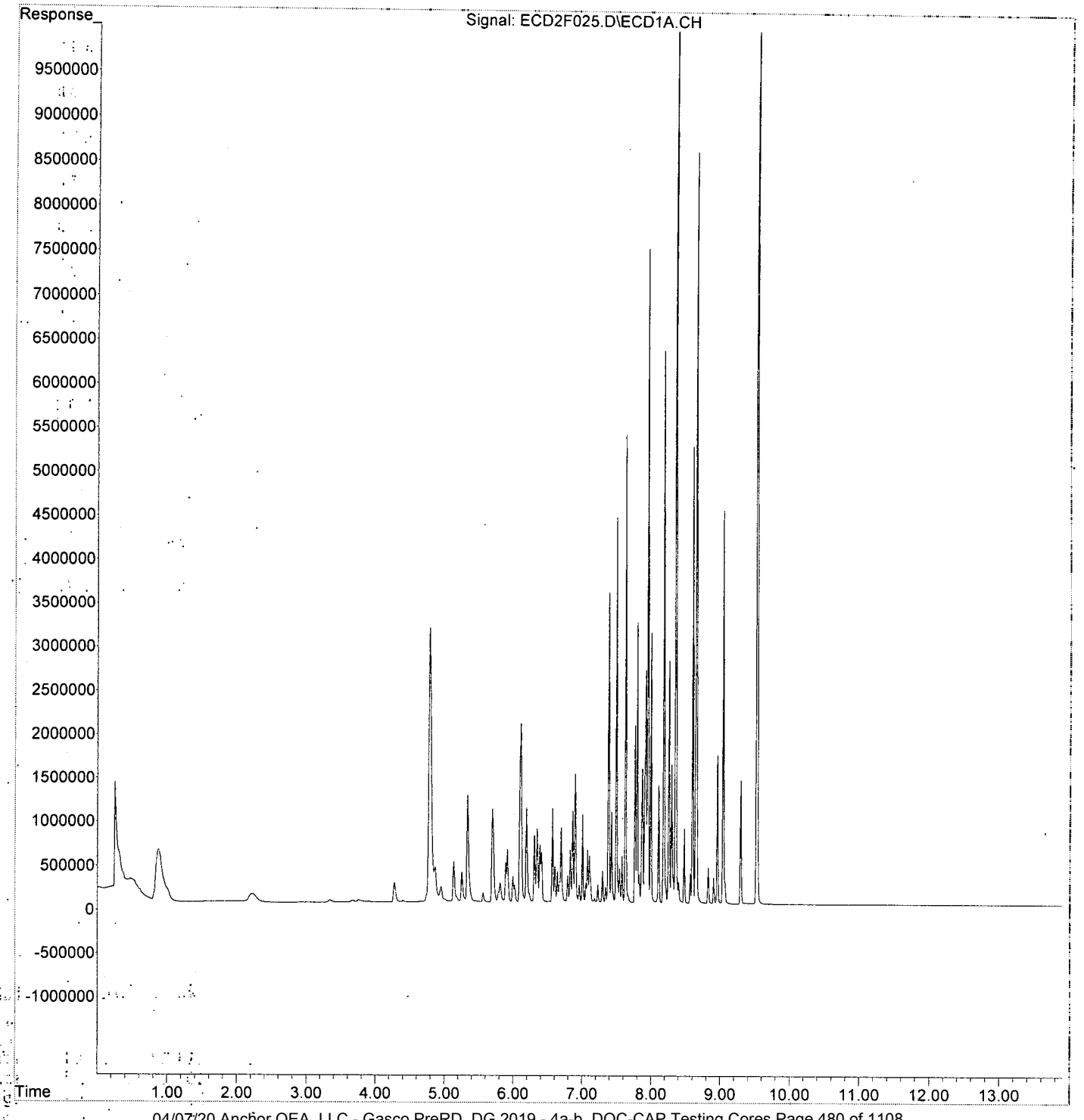
488.660

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

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B18016\
Data File : ECD2F025.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 14:46
Operator : MJB / KAK
Sample : 0B18016-ICV3
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 09:31:25 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B18016\
Data File : ECD2F026.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 15:04
Operator : MJB / KAK
Sample : 0B18016-ICV4
Misc : [redacted]
ALS Vial : 21 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 09:31:46 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

2/19/20

1242, 1268

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	4.781	3337421	42.284	ng/ml
62)	S DCBP (S)	9.525	5852470	43.084	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	5.691	1886881	409.502	ng/ml
3)	Aroclor 1016 (2)	6.103	3851185	437.623	ng/ml
4)	Aroclor 1016 (3)	6.185	1965659	410.646	ng/ml
5)	Aroclor 1016 (4)	6.343	1654034	373.183	ng/ml
6)	Aroclor 1016 (5)	6.564	2176811	425.617	ng/ml
7)	Aroclor 1016 (6)	6.690	1761552	476.524	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.131	190611	139.814	ng/ml
10)	Aroclor 1221 (2)	5.250	208801	226.658	ng/ml
11)	Aroclor 1221 (3)	5.332	903391	318.419	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.332	903391	381.845	ng/ml
14)	Aroclor 1232 (2)	6.103	3851185	1073.565	ng/ml
15)	Aroclor 1232 (3)	6.185	1965659	998.705	ng/ml
16)	Aroclor 1232 (4)	6.343	1654034	1088.650	ng/ml
17)	Aroclor 1232 (5)	6.564	2176811	1127.654	ng/ml
18)	Aroclor 1232 (6)	6.690	1761552	1118.473	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	5.691	1886881	535.919	ng/ml
21)	Aroclor 1242 (2)	6.103	3851185	536.828	ng/ml
22)	Aroclor 1242 (3)	6.185	1965659	534.743	ng/ml
23)	Aroclor 1242 (4)	6.343	1654034	505.202	ng/ml
24)	Aroclor 1242 (5)	6.564	2176811	531.100	ng/ml
25)	Aroclor 1242 (6)	6.690	1761552	516.896	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.103	3851185	882.878	ng/ml
28)	Aroclor 1248 (2)	6.343	1654034	289.925	ng/ml
29)	Aroclor 1248 (3)	6.564	2176811	336.214	ng/ml
30)	Aroclor 1248 (4)	6.858	2148796	292.185	ng/ml
31)	Aroclor 1248 (5)	6.896	2197932	291.287	ng/ml
32)	Aroclor 1248 (6)	7.372	732428	178.493	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	6.896	2197932	248.060	ng/ml
35)	Aroclor 1254 (2)	7.002	515240	46.493	ng/ml
36)	Aroclor 1254 (3)	7.372	732428	44.018	ng/ml
37)	Aroclor 1254 (4)	7.539	481888	45.342	ng/ml
38)	Aroclor 1254 (5)	7.919	94071	8.121	ng/ml
39)	Aroclor 1254 (6)	8.208	54022	14.480	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	7.513	269213	26.466	ng/ml
42)	Aroclor 1260 (2)	7.625	100723	7.967	ng/ml
43)	Aroclor 1260 (3)	8.172	3212310	338.029	ng/ml
44)	Aroclor 1260 (4)	8.351	1584476	70.434	ng/ml
45)	Aroclor 1260 (5)	8.645	13012949	856.201	ng/ml
46)	Aroclor 1260 (6)	9.038	5170845	842.311	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

526.781

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B18016\
Data File : ECD2F026.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 15:04
Operator : MJB / KAK
Sample : 0B18016-ICV4
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 09:31:46 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	7.625	100723	9.374	ng/ml
49)	Aroclor 1262 (2)	7.949	2805014	183.080	ng/ml
50)	Aroclor 1262 (3)	8.172	3212310	251.636	ng/ml
51)	Aroclor 1262 (4)	8.351	1584476	55.982	ng/ml
52)	Aroclor 1262 (5)	8.645	13012949	719.994	ng/ml
53)	Aroclor 1262 (6)	9.038	5170845	571.063	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	8.172	3212310	499.877	ng/ml
56)	Aroclor 1268 (2)	8.598	16232517	546.869	ng/ml
57)	Aroclor 1268 (3)	8.645	13012949	520.971	ng/ml
58)	Aroclor 1268 (4)	8.827	12206627	529.275	ng/ml
59)	Aroclor 1268 (5)	9.038	5170845	561.436	ng/ml
60)	Aroclor 1268 (6)	9.293	33274595	513.018	ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/ml

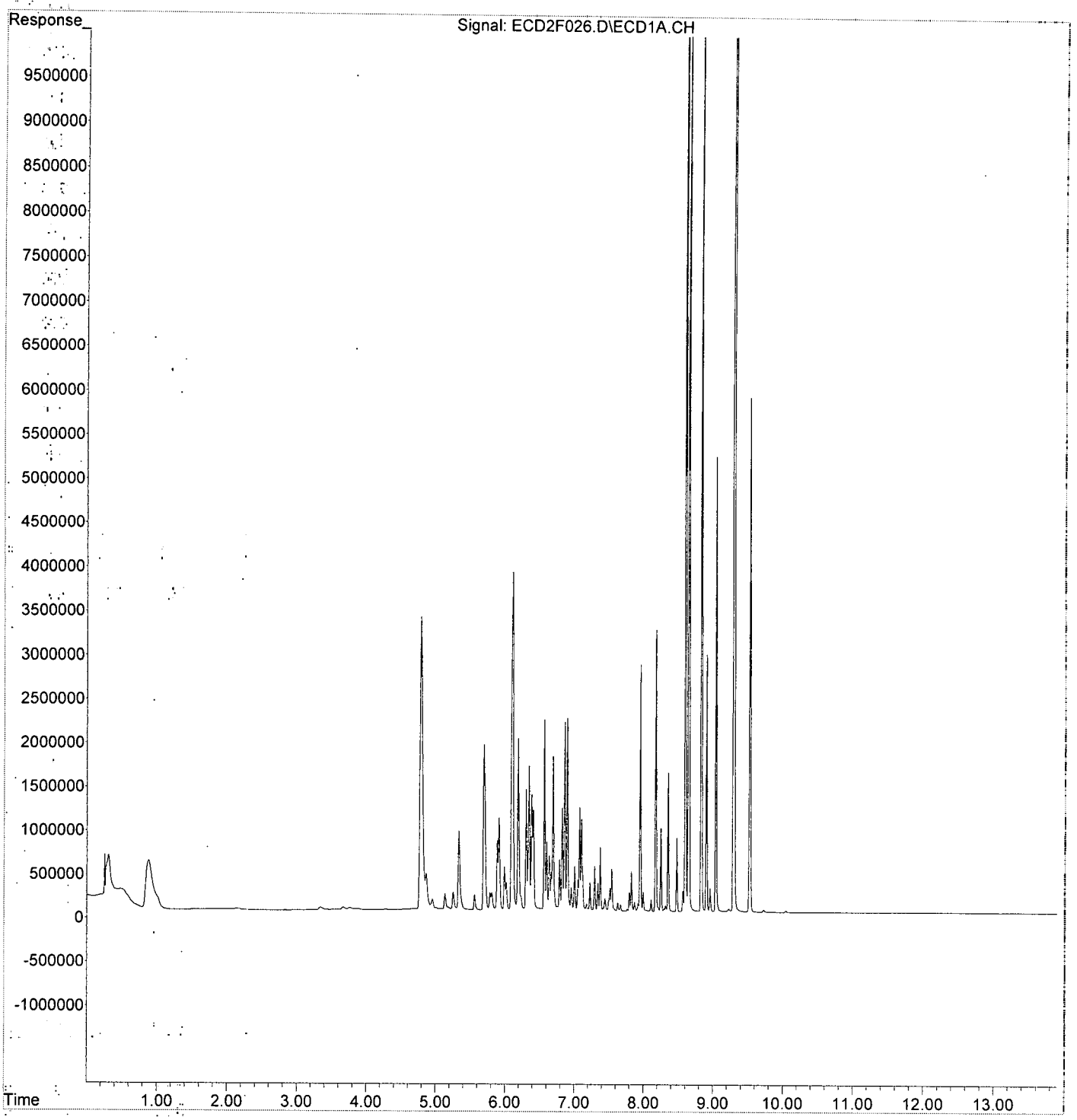
528.57A

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

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B18016\
Data File : ECD2F026.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 15:04
Operator : MJB / KAK
Sample : 0B18016-ICV4
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 09:31:46 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B18016\
Data File : ECD2F027.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 15:21
Operator : MJB / KAK
Sample : 0B18016-ICV5
Misc : [redacted]
ALS Vial : 22 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 09:32:07 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

2/19/20
1248

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
1)	S TCMX (S)	4.809	14152	0.179 ng/ml
62)	S DCBP (S)	9.527	4674	0.034 ng/ml
	Target Compounds			
2)	Aroclor 1016 (1)	5.691	928522	201.513 ng/ml
3)	Aroclor 1016 (2)	6.101	2056580	233.696 ng/ml
4)	Aroclor 1016 (3)	6.186	1084267	226.514 ng/ml
5)	Aroclor 1016 (4)	6.343	2734323	616.918 ng/ml
6)	Aroclor 1016 (5)	6.565	3304064	646.022 ng/ml
7)	Aroclor 1016 (6)	6.691	2518969	681.416 ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9)	Aroclor 1221 (1)	5.133	23802	17.459 ng/ml
10)	Aroclor 1221 (2)	5.250	28684	31.137 ng/ml
11)	Aroclor 1221 (3)	5.332	100089	35.279 ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13)	Aroclor 1232 (1)	5.332	100089	42.306 ng/ml
14)	Aroclor 1232 (2)	6.101	2056580	573.297 ng/ml
15)	Aroclor 1232 (3)	6.186	1084267	550.890 ng/ml
16)	Aroclor 1232 (4)	6.343	2734323	1799.674 ng/ml
17)	Aroclor 1232 (5)	6.565	3304064	1711.606 ng/ml
18)	Aroclor 1232 (6)	6.691	2518969	1599.385 ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20)	Aroclor 1242 (1)	5.691	928522	263.722 ng/ml
21)	Aroclor 1242 (2)	6.101	2056580	286.673 ng/ml
22)	Aroclor 1242 (3)	6.186	1084267	294.967 ng/ml
23)	Aroclor 1242 (4)	6.343	2734323	835.161 ng/ml
24)	Aroclor 1242 (5)	6.565	3304064	806.129 ng/ml
25)	Aroclor 1242 (6)	6.691	2518969	739.147 ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27)	Aroclor 1248 (1)	6.101	2056580	471.468 ng/ml
28)	Aroclor 1248 (2)	6.343	2734323	479.282 ng/ml
29)	Aroclor 1248 (3)	6.565	3304064	510.321 ng/ml
30)	Aroclor 1248 (4)	6.859	3799159	516.595 ng/ml
31)	Aroclor 1248 (5)	6.897	3781177	501.112 ng/ml
32)	Aroclor 1248 (6)	7.373	2158452	526.016 ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34)	Aroclor 1254 (1)	6.897	3781177	426.746 ng/ml
35)	Aroclor 1254 (2)	7.003	1388405	125.283 ng/ml
36)	Aroclor 1254 (3)	7.373	2158452	129.721 ng/ml
37)	Aroclor 1254 (4)	7.540	1460088	137.384 ng/ml
38)	Aroclor 1254 (5)	7.919	344177	29.711 ng/ml
39)	Aroclor 1254 (6)	8.211	135841	36.411 ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41)	Aroclor 1260 (1)	7.514	707301	69.534 ng/ml
42)	Aroclor 1260 (2)	7.626	224835	17.785 ng/ml
43)	Aroclor 1260 (3)	8.181	39166	4.121 ng/ml
44)	Aroclor 1260 (4)	8.352	87302	3.881 ng/ml
45)	Aroclor 1260 (5)	8.650	68774	4.525 ng/ml
46)	Aroclor 1260 (6)	9.039	20997	3.420 ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

500.799

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B18016\
Data File : ECD2F027.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 15:21
Operator : MJB / KAK
Sample : 0B18016-ICV5
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 09:32:07 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

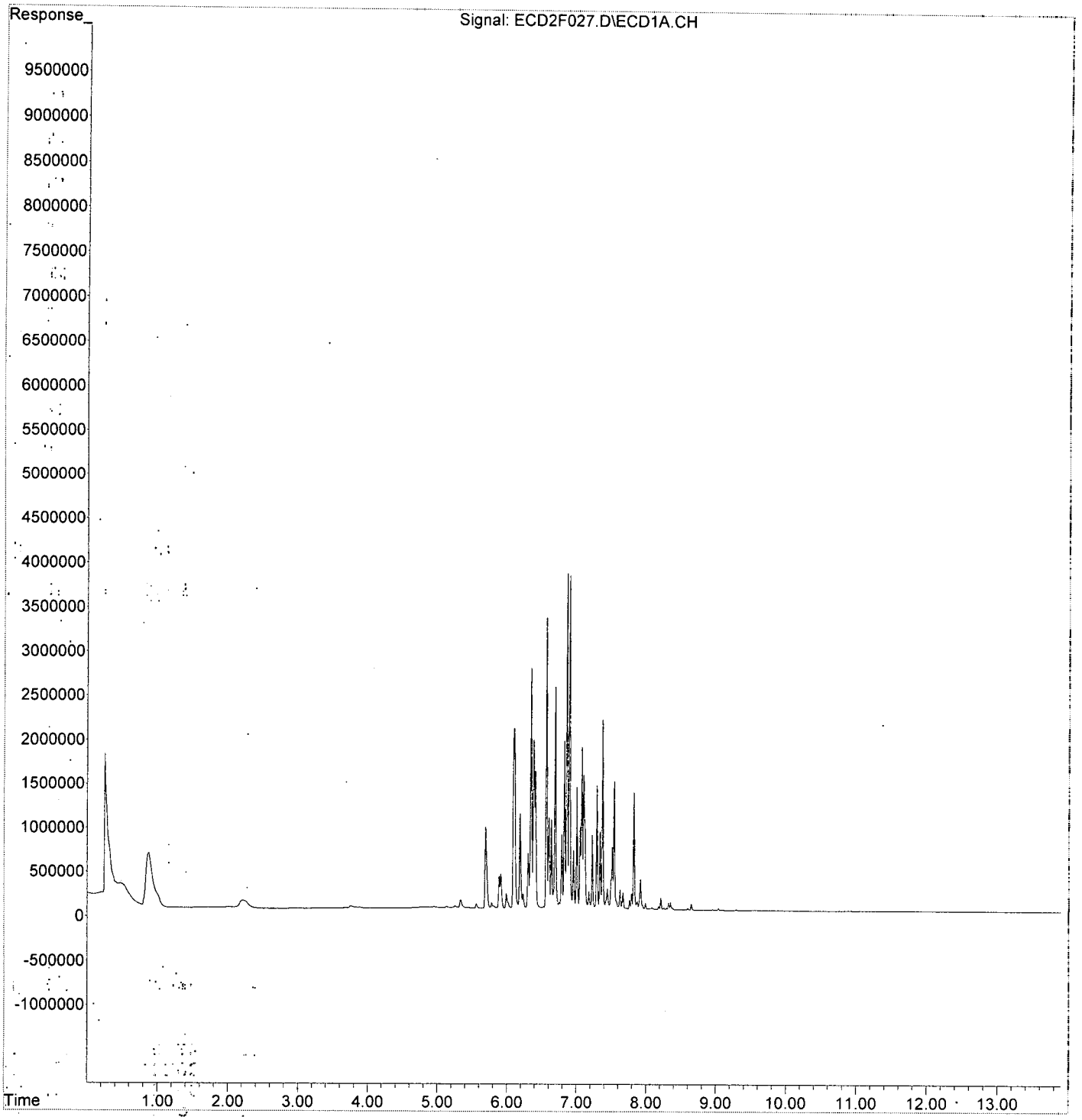
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	7.626	224835	20.926 ng/ml
49)	Aroclor 1262 (2)	7.919	344177	22.464 ng/ml
50)	Aroclor 1262 (3)	8.181	39166	3.068 ng/ml
51)	Aroclor 1262 (4)	8.352	87302	3.085 ng/ml
52)	Aroclor 1262 (5)	8.650	68774	3.805 ng/ml
53)	Aroclor 1262 (6)	9.039	20997	2.319 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.181	39166	6.095 ng/ml
56)	Aroclor 1268 (2)	8.599	22517	0.759 ng/ml
57)	Aroclor 1268 (3)	8.650	68774	2.753 ng/ml
58)	Aroclor 1268 (4)	8.825	6262	0.271 ng/ml
59)	Aroclor 1268 (5)	9.039	20997	2.280 ng/ml
60)	Aroclor 1268 (6)	9.294	11043	0.170 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\0B18016\
Data File : ECD2F027.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 15:21
Operator : MJB / KAK
Sample : 0B18016-ICV5
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 09:32:07 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0B18016\Requant\
Data File : ECD2F008.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 9:47
Operator : MJB / KAK
Sample : 0B18016-CAL1
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 09:15:03 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 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)	4.790	735047	9.313	ng/ml
62) S	DCBP (S)	9.532	1374925	10.122	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	5.698	114423	24.833	ng/ml
3)	Aroclor 1016 (2)	6.112	195162	22.177	ng/ml
4)	Aroclor 1016 (3)	6.194	109732	22.924	ng/ml
5)	Aroclor 1016 (4)	6.349	108700	24.525	ng/ml
6)	Aroclor 1016 (5)	6.571	124511	24.345	ng/ml
7)	Aroclor 1016 (6)	6.698	90576	24.502	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)	7.498	233755	22.980	ng/ml
42)	Aroclor 1260 (2)	7.631	289475	22.898	ng/ml
43)	Aroclor 1260 (3)	8.186	218521	22.995	ng/ml
44)	Aroclor 1260 (4)	8.357	475536	21.139	ng/ml
45)	Aroclor 1260 (5)	8.656	327005	21.516	ng/ml
46)	Aroclor 1260 (6)	9.045	140639	22.910	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

2/19/20

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0B18016\Requant\
Data File : ECD2F008.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 9:47
Operator : MJB / KAK
Sample : 0B18016-CAL1
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 09:15:03 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

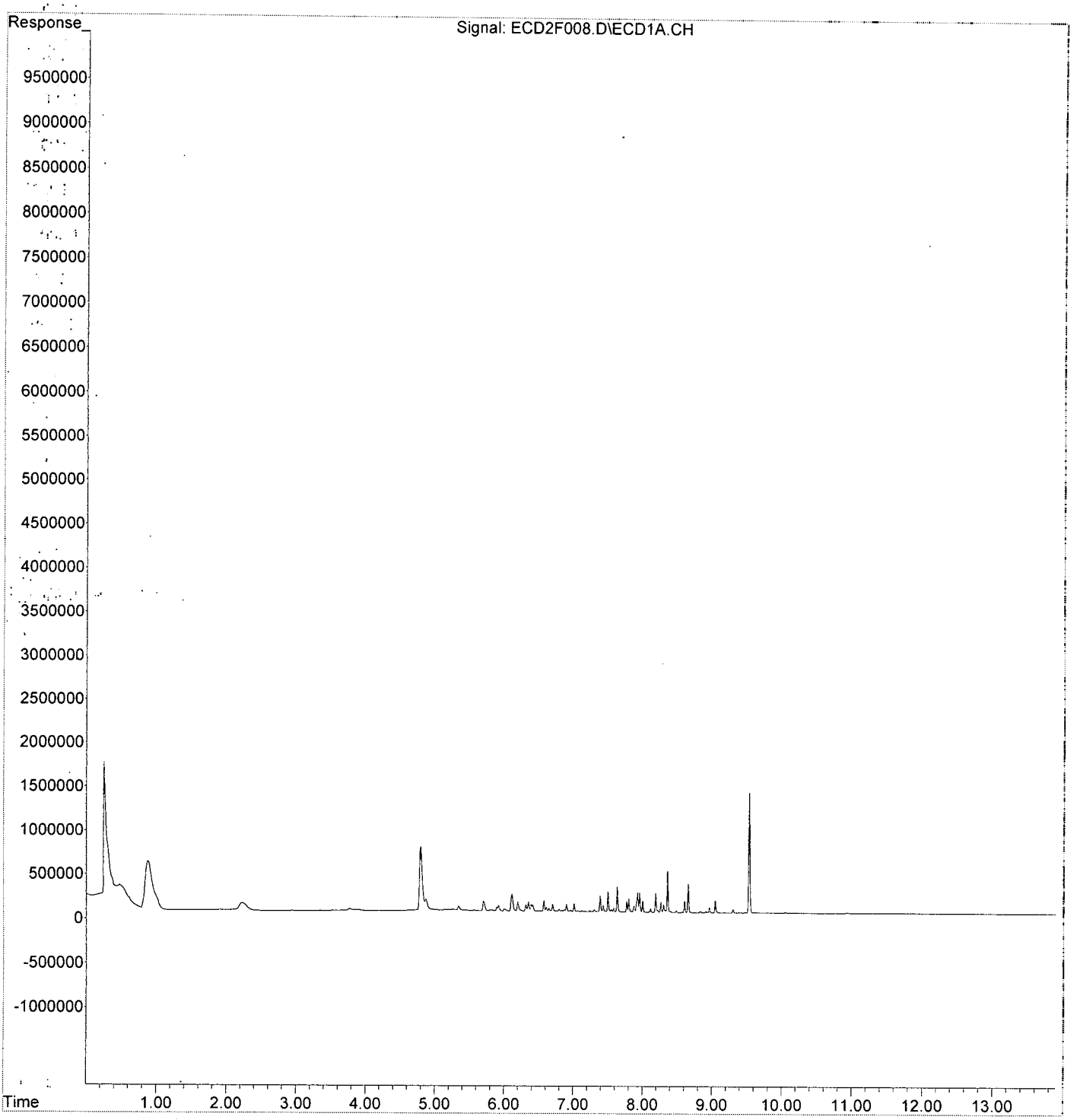
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	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\0B18016\Requant\
Data File : ECD2F008.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 9:47
Operator : MJB / KAK
Sample : 0B18016-CAL1
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 09:15:03 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0B18016\Requant\
Data File : ECD2F009.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 10:04
Operator : MJB / KAK
Sample : 0B18016-CAL2
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 09:15:43 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 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)	4.782	1907894	24.172	ng/ml	✓
62) S	DCBP (S)	9.526	3331882	24.528	ng/ml	✓
Target Compounds						
2)	Aroclor 1016 (1)	5.693	258248	56.046	ng/ml	
3)	Aroclor 1016 (2)	6.105	455008	51.704	ng/ml	
4)	Aroclor 1016 (3)	6.188	258433	53.989	ng/ml	✓
5)	Aroclor 1016 (4)	6.344	241632	54.517	ng/ml	
6)	Aroclor 1016 (5)	6.566	280414	54.828	ng/ml	
7)	Aroclor 1016 (6)	6.692	197133	53.327	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)	7.493	533393	52.437	ng/ml	
42)	Aroclor 1260 (2)	7.627	658887	52.118	ng/ml	
43)	Aroclor 1260 (3)	8.182	493633	51.945	ng/ml	
44)	Aroclor 1260 (4)	8.353	1161834	51.647	ng/ml	✓
45)	Aroclor 1260 (5)	8.651	787003	51.782	ng/ml	
46)	Aroclor 1260 (6)	9.039	310348	50.554	ng/ml	
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml	

2/19/20

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0B18016\Requant\
Data File : ECD2F009.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 10:04
Operator : MJB / KAK
Sample : 0B18016-CAL2
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 09:15:43 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

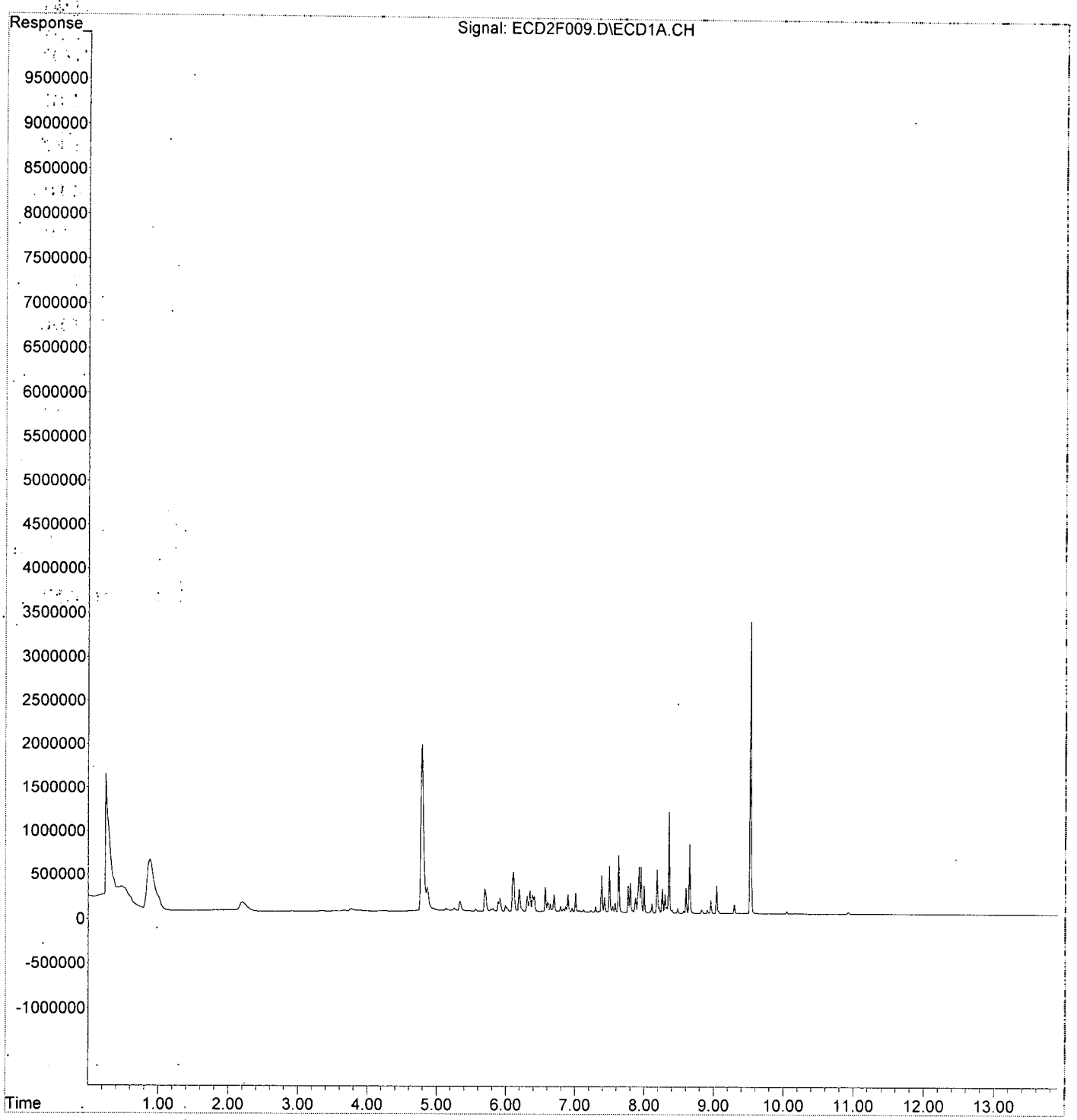
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	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\0B18016\Requant\
Data File : ECD2F009.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 10:04
Operator : MJB / KAK
Sample : 0B18016-CAL2
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 09:15:43 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0B18016\Requant\
Data File : ECD2F010.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 10:22
Operator : MJB / KAK
Sample : 0B18016-CAL3
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 09:16:10 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 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)	4.784	3742921	47.421	ng/ml	✓
62)	S DCBP (S)	9.527	6837726	50.337	ng/ml	✓
	Target Compounds					
2)	Aroclor 1016 (1)	5.693	448508	97.338	ng/ml	
3)	Aroclor 1016 (2)	6.106	874510	99.373	ng/ml	
4)	Aroclor 1016 (3)	6.187	461765	96.467	ng/ml	✓
5)	Aroclor 1016 (4)	6.344	461493	104.122	ng/ml	
6)	Aroclor 1016 (5)	6.566	506592	99.051	ng/ml	
7)	Aroclor 1016 (6)	6.692	370235	100.154	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)	7.493	1031700	101.426	ng/ml	
42)	Aroclor 1260 (2)	7.627	1208568	95.598	ng/ml	
43)	Aroclor 1260 (3)	8.181	967418	101.801	ng/ml	✓
44)	Aroclor 1260 (4)	8.352	2169781	96.452	ng/ml	
45)	Aroclor 1260 (5)	8.650	1504417	98.985	ng/ml	
46)	Aroclor 1260 (6)	9.040	610990	99.528	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\0B18016\Requant\
Data File : ECD2F010.D
Signal(s) : ECD1A.CH
Acq On : 18-Feb 2020 10:22
Operator : MJB / KAK
Sample : 0B18016-CAL3
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 09:16:10 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

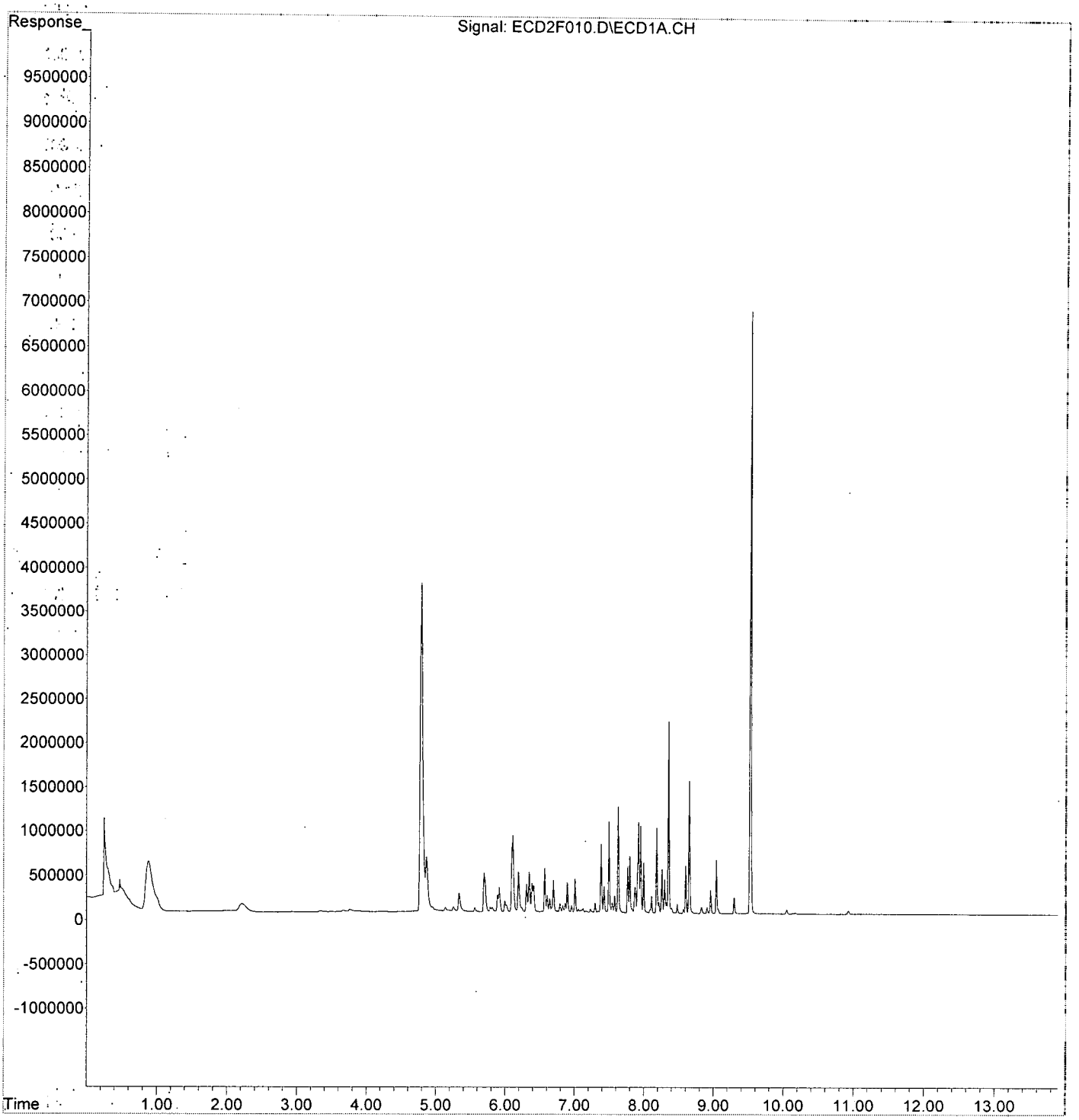
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	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\0B18016\Requant\
Data File : ECD2F010.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 10:22
Operator : MJB / KAK
Sample : 0B18016-CAL3
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 09:16:10 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0B18016\Requant\
Data File : ECD2F011.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 10:40
Operator : MJB / KAK
Sample : 0B18016-CAL4
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 09:16:51 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 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)	4.781	7955297	100.791	ng/ml
62) S	DCBP (S)	9.528	13652665	100.506	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	5.693	880891	191.176	ng/ml
3)	Aroclor 1016 (2)	6.105	1702544	193.466	ng/ml
4)	Aroclor 1016 (3)	6.187	932254	194.757	ng/ml
5)	Aroclor 1016 (4)	6.344	834830	188.354	ng/ml
6)	Aroclor 1016 (5)	6.566	1008063	197.100	ng/ml
7)	Aroclor 1016 (6)	6.693	725904	196.367	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)	7.494	2053158	201.844	ng/ml
42)	Aroclor 1260 (2)	7.627	2559676	202.471	ng/ml
43)	Aroclor 1260 (3)	8.183	1795515	188.941	ng/ml
44)	Aroclor 1260 (4)	8.353	4490801	199.628	ng/ml
45)	Aroclor 1260 (5)	8.651	3066068	201.735	ng/ml
46)	Aroclor 1260 (6)	9.040	1206819	196.586	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\0B18016\Requant\
Data File : ECD2F011.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 10:40
Operator : MJB / KAK
Sample : 0B18016-CAL4
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 09:16:51 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

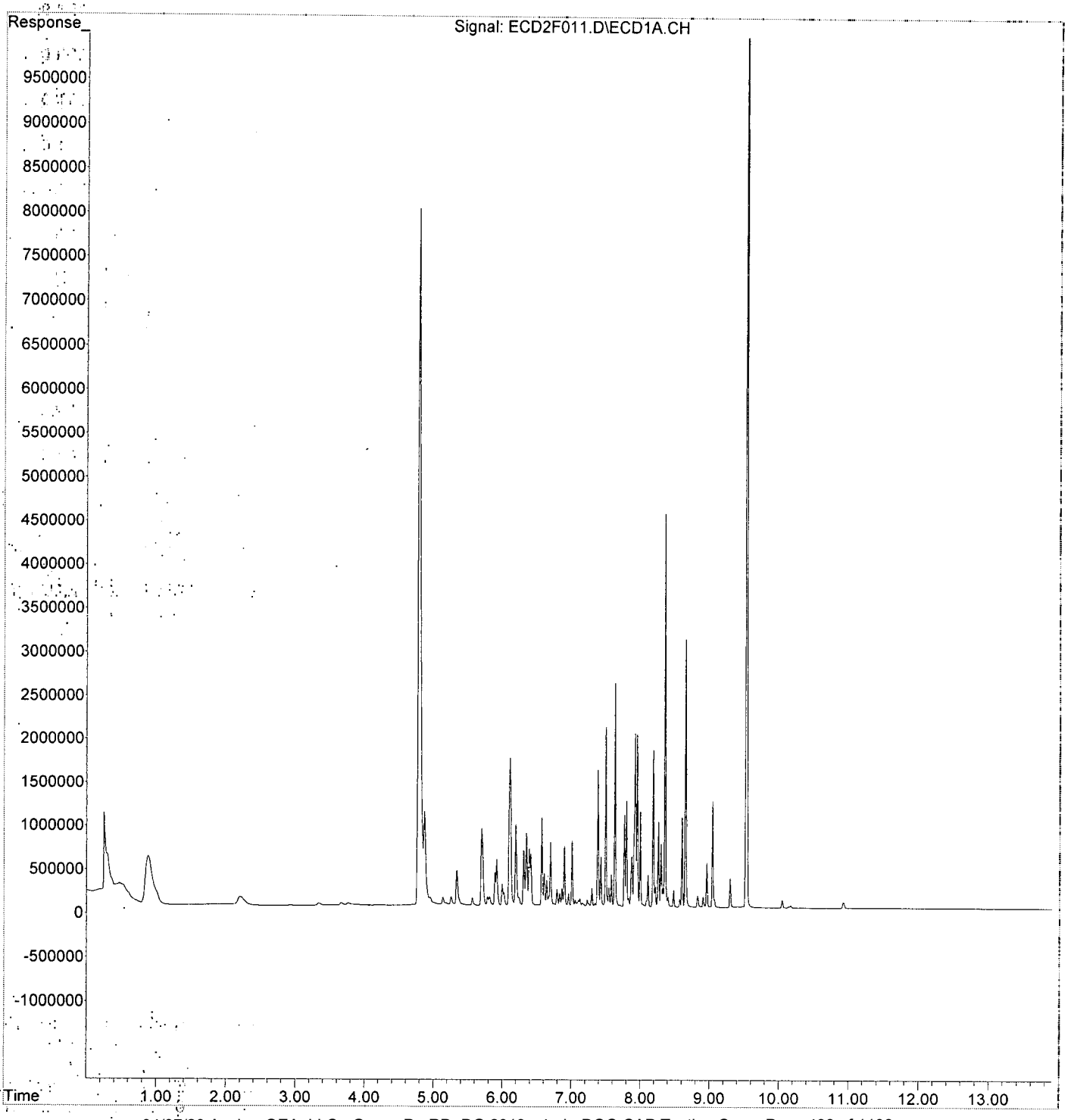
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	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\0B18016\Requant\
Data File : ECD2F011.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 10:40
Operator : MJB / KAK
Sample : 0B18016-CAL4
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 09:16:51 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0B18016\Requant\
Data File : ECD2F012.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 10:57
Operator : MJB / KAK
Sample : 0B18016-CAL5
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 09:25:09 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 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)	4.780	18620641	235.917	ng/ml ✓
62)	S DCBP (S)	9.527	32330296	238.003	ng/ml ✓
	Target Compounds				
2)	Aroclor 1016 (1)	5.692	2142875	465.059	ng/ml
3)	Aroclor 1016 (2)	6.105	4244215	482.284	ng/ml
4)	Aroclor 1016 (3)	6.186	2286878	477.752	ng/ml ✓
5)	Aroclor 1016 (4)	6.344	2037988	459.811	ng/ml
6)	Aroclor 1016 (5)	6.566	2365422	462.495	ng/ml
7)	Aroclor 1016 (6)	6.692	1763397	477.023	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)	7.492	4797117	471.600	ng/ml
42)	Aroclor 1260 (2)	7.626	5959812	471.423	ng/ml
43)	Aroclor 1260 (3)	8.181	4639944	488.259	ng/ml
44)	Aroclor 1260 (4)	8.352	11348630	504.476	ng/ml ✓
45)	Aroclor 1260 (5)	8.649	7377000	485.377	ng/ml
46)	Aroclor 1260 (6)	9.039	2958395	481.911	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\0B18016\Requant\
Data File : ECD2F012.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 10:57
Operator : MJB / KAK
Sample : 0B18016-CAL5
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 09:25:09 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

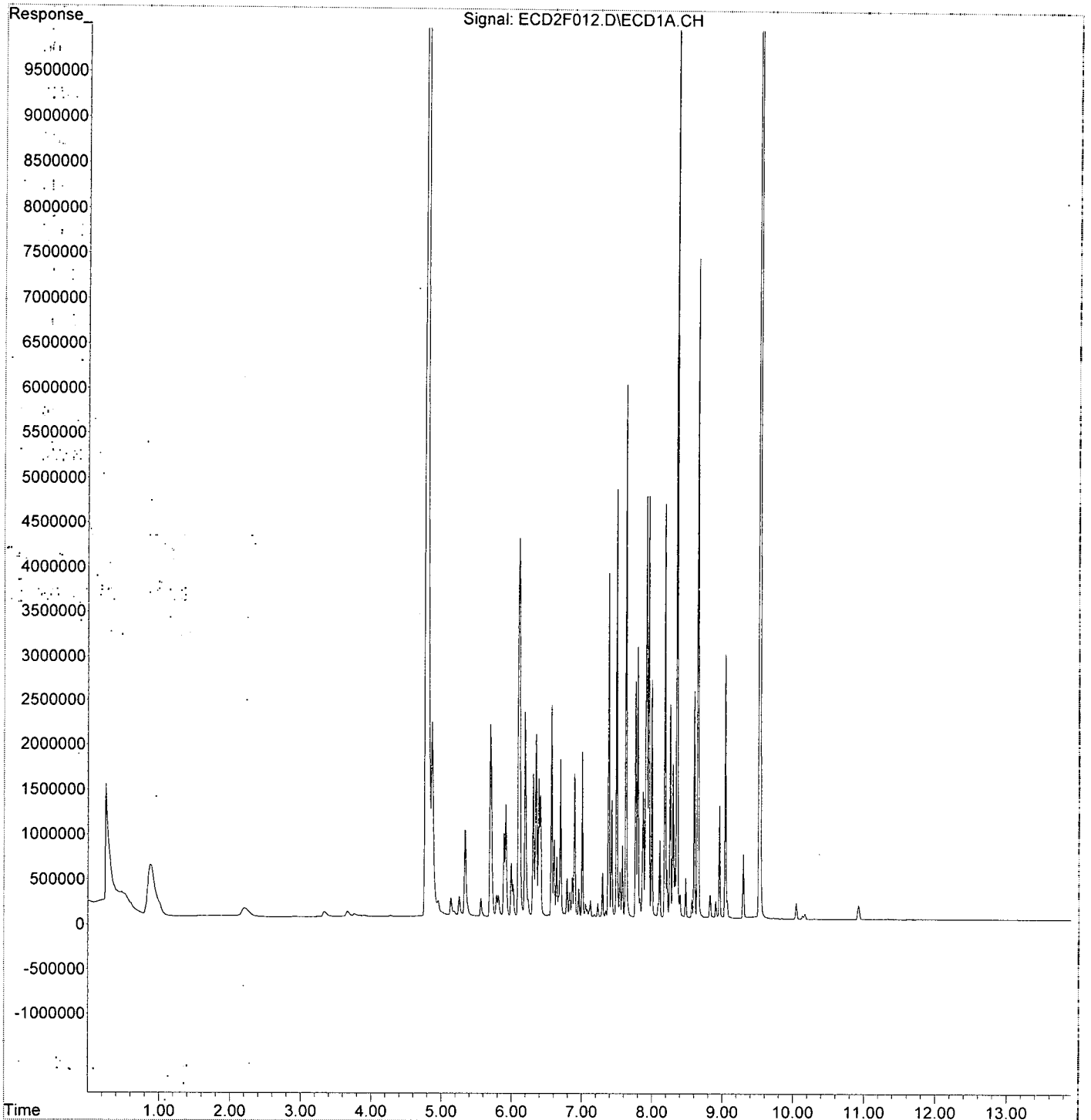
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	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\0B18016\Requant\
Data File : ECD2F012.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 10:57
Operator : MJB / KAK
Sample : 0B18016-CAL5
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 09:25:09 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0B18016\Requant\
Data File : ECD2F013.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 11:15
Operator : MJB / KAK
Sample : 0B18016-CAL6
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 09:17:50 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 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)	4.779	43144107	546.620	ng/ml
62)	S DCBP (S)	9.528	68241993	502.371	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	5.692	4174752	906.029	ng/ml
3)	Aroclor 1016 (2)	6.106	8442266	959.322	ng/ml
4)	Aroclor 1016 (3)	6.186	4576954	956.173	ng/ml
5)	Aroclor 1016 (4)	6.343	3930132	886.716	ng/ml
6)	Aroclor 1016 (5)	6.566	4405368	861.352	ng/ml
7)	Aroclor 1016 (6)	6.692	3181732	860.702	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)	7.493	9172675	901.758	ng/ml
42)	Aroclor 1260 (2)	7.627	11766076	930.700	ng/ml
43)	Aroclor 1260 (3)	8.183	8969606	943.866	ng/ml
44)	Aroclor 1260 (4)	8.353	21418035	952.088	ng/ml
45)	Aroclor 1260 (5)	8.651	14311647	941.650	ng/ml
46)	Aroclor 1260 (6)	9.039	5645108	919.567	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\0B18016\Requant\
Data File : ECD2F013.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 11:15
Operator : MJB / KAK
Sample : 0B18016-CAL6
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 09:17:50 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

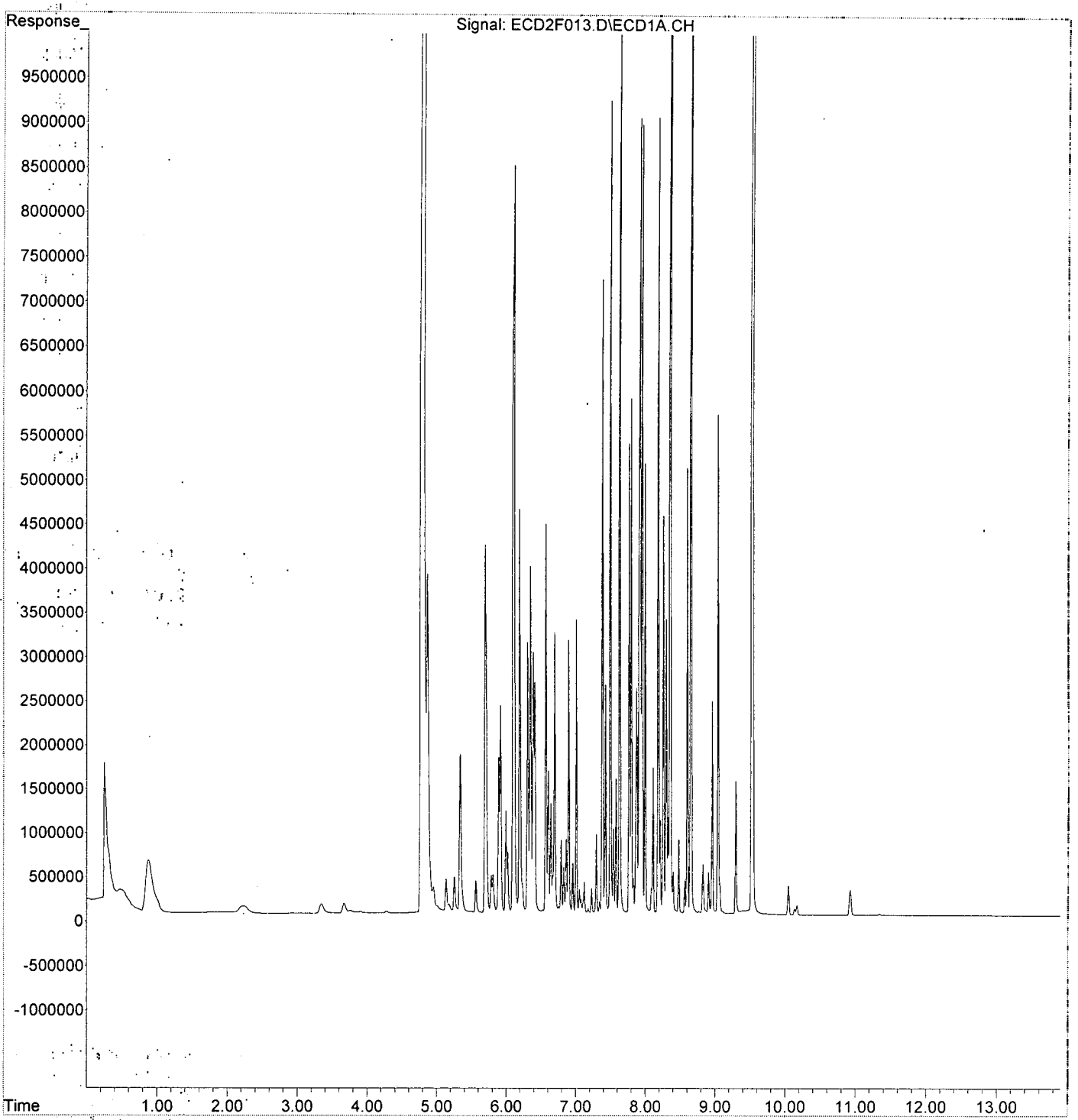
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	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\0B18016\Requant\
Data File : ECD2F013.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 11:15
Operator : MJB / KAK
Sample : 0B18016-CAL6
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 09:17:50 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0B18016\Requant\
Data File : ECD2F014.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 11:32
Operator : MJB / KAK
Sample : 0B18016-CAL7
Misc
ALS Vial : 10 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 09:18:28 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 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)	4.781	69999506	886.868	ng/ml
62)	S DCBP (S)	9.529	112820430	830.539	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	5.694	6027112	1308.039	ng/ml
3)	Aroclor 1016 (2)	6.105	12832323	1458.179	ng/ml
4)	Aroclor 1016 (3)	6.187	6633473	1385.801	ng/ml
5)	Aroclor 1016 (4)	6.344	5944203	1341.131	ng/ml
6)	Aroclor 1016 (5)	6.566	7087609	1385.793	ng/ml
7)	Aroclor 1016 (6)	6.692	5047266	1365.355	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)	7.494	14247948	1400.704	ng/ml
42)	Aroclor 1260 (2)	7.627	18410958	1456.313	ng/ml
43)	Aroclor 1260 (3)	8.182	13232054	1392.401	ng/ml
44)	Aroclor 1260 (4)	8.353	33285610	1479.633	ng/ml
45)	Aroclor 1260 (5)	8.651	22288379	1466.487	ng/ml
46)	Aroclor 1260 (6)	9.039	9041001	1472.745	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\0B18016\Requant\
Data File : ECD2F014.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 11:32
Operator : MJB / KAK
Sample : 0B18016-CAL7
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 09:18:28 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

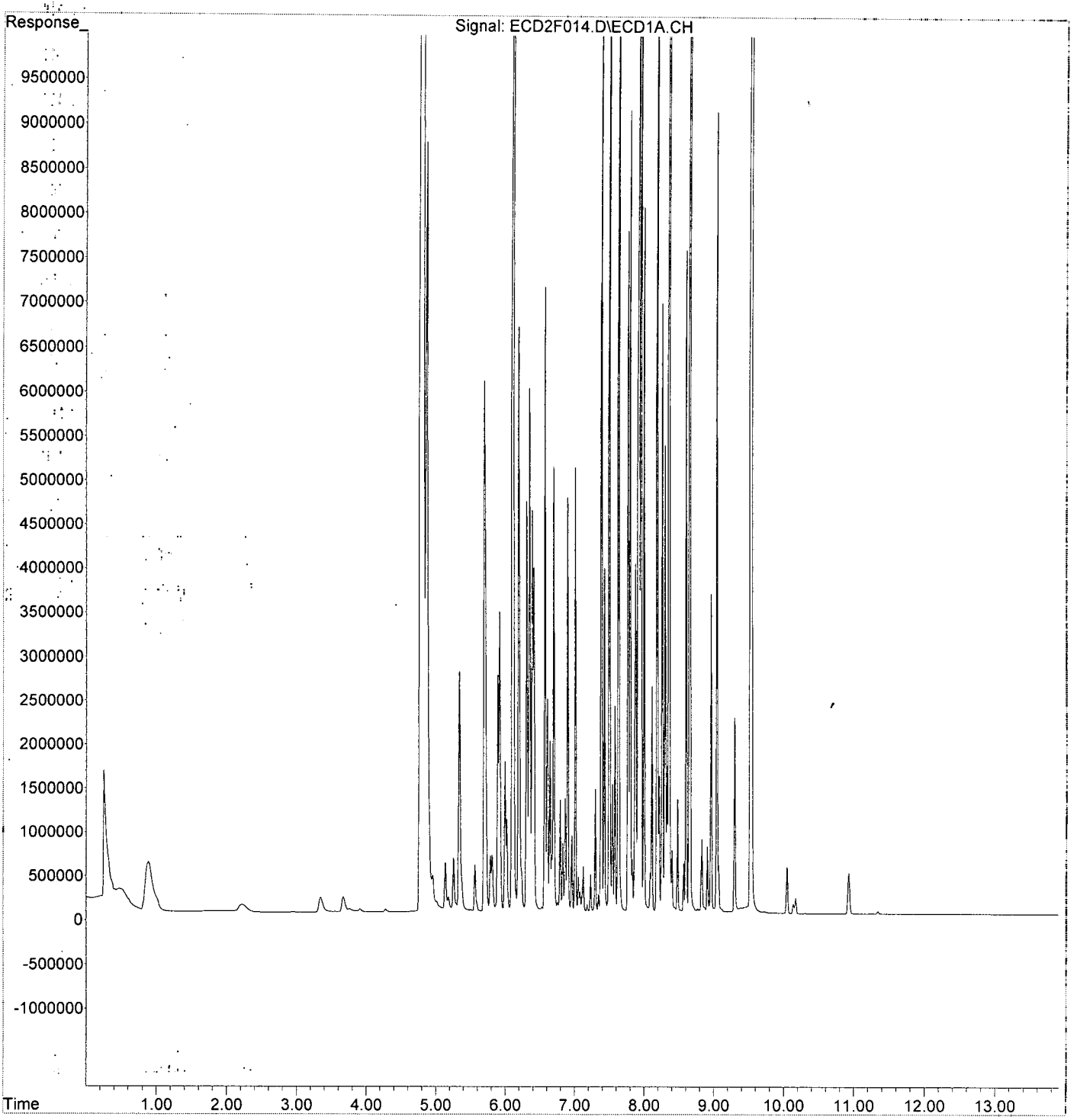
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	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\0B18016\Requant\
Data File : ECD2F014.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 11:32
Operator : MJB / KAK
Sample : 0B18016-CAL7
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 09:18:28 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:08:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Sequence: C:\HPCHEM\2\SEQUENCE\0B18016.S

Sequence Table (Front Injector):

Method and Injection Info Part:

Line	Location	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	Vial 1	Hexane	E2A21015	1	Sample		
2	Vial 1	Hexane	E2A21015	1	Sample		
3	Vial 2	0B18016-CCV1	E2A21015	1	Sample		
4	Vial 3	0B18016-CCB1	E2A21015	1	Sample		
5	Vial 1	Hexane	E2A21015	1	Sample		
6	Vial 2	0B18016-CCV2	E2A21015	1	Sample		
7	Vial 3	0B18016-~~CCB2~~ ICB1	E2A21015	1	Sample		
8	Vial 4	0B18016-CAL1	E2A21015	1	Sample		
9	Vial 5	0B18016-CAL2	E2A21015	1	Sample		
10	Vial 6	0B18016-CAL3	E2A21015	1	Sample		
11	Vial 7	0B18016-CAL4	E2A21015	1	Sample		
12	Vial 8	0B18016-CAL5	E2A21015	1	Sample		
13	Vial 9	0B18016-CAL6	E2A21015	1	Sample		
14	Vial 10	0B18016-CAL7	E2A21015	1	Sample		
15	Vial 1	0B18016-IBL1	E2A21015	1	Sample		
16	Vial 11	0B18016-ICV1	E2A21015	1	Sample		
17	Vial 12	0B18016-CAL8	E2A21015	1	Sample		
18	Vial 13	0B18016-CAL9	E2A21015	1	Sample		
19	Vial 14	0B18016-CALA	E2A21015	1	Sample		
20	Vial 15	0B18016-CALB	E2A21015	1	Sample		
21	Vial 16	0B18016-CALC	E2A21015	1	Sample		
22	Vial 17	0B18016-CALD	E2A21015	1	Sample		
23	Vial 18	0B18016-CALE	E2A21015	1	Sample		
24	Vial 19	0B18016-ICV2	E2A21015	1	Sample		
25	Vial 20	0B18016-ICV3	E2A21015	1	Sample		
26	Vial 21	0B18016-ICV4	E2A21015	1	Sample		
27	Vial 22	0B18016-ICV5	E2A21015	1	Sample		
28	Vial 1	Hexane	E2A21015	1	Sample		
29	Vial 1	Hexane	E2A21015	1	Sample		
30	Vial 1	Hexane	E2A21015	1	Sample		

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Sequence Table (Back Injector):

Method and Injection Info Part:

Line	Location	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	Vial 51	Hexane	E2A21015	1	Sample		
2	Vial 51	Hexane	E2A21015	1	Sample		
3	Vial 52	0B18017-CCV1	E2A21015	1	Sample		
4	Vial 53	0B18017-CCB1	E2A21015	1	Sample		
5	Vial 54	0020441-BLK1	E2A21015	1	Sample		
6	Vial 55	0020441-BS1	E2A21015	1	Sample		
7	Vial 56	A0B0357-13	E2A21015	1	Sample		
8	Vial 51	0B18017-IBL1	E2A21015	1	Sample		
9	Vial 57	0020441-DUP1	E2A21015	1	Sample		
10	Vial 51	0B18017-IBL2	E2A21015	1	Sample		
11	Vial 58	A0B0357-14	E2A21015	1	Sample		
12	Vial 51	0B18017-IBL3	E2A21015	1	Sample		
13	Vial 59	A0B0373-01	E2A21015	1	Sample		
14	Vial 51	0B18017-IBL4	E2A21015	1	Sample		
15	Vial 52	0B18017-CCV2	E2A21015	1	Sample		
16	Vial 53	0B18017-CCB2	E2A21015	1	Sample		
17	Vial 60	A0B0359-01	E2A21015	1	Sample		
18	Vial 51	0B18017-IBL5	E2A21015	1	Sample		
19	Vial 61	A0B0359-02	E2A21015	1	Sample		
20	Vial 51	0B18017-IBL6	E2A21015	1	Sample		

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0B18016\
Data File : ECD2F008.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 9:47
Operator : MJB / KAK
Sample : 0B18016-CAL1
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 08:42:58 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
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)	4.790	735047	11.039	ng/ml
62) S	DCBP (S)	9.532	1374925	12.312	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	5.698	114423	30.611	ng/ml
3)	Aroclor 1016 (2)	6.112	195162	27.129	ng/ml
4)	Aroclor 1016 (3)	6.194	109732	27.620	ng/ml
5)	Aroclor 1016 (4)	6.349	108700	30.386	ng/ml
6)	Aroclor 1016 (5)	6.571	124511	29.992	ng/ml
7)	Aroclor 1016 (6)	6.698	90576	30.879	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)	7.498	233755	28.069	ng/ml
42)	Aroclor 1260 (2)	7.631	289475	28.373	ng/ml
43)	Aroclor 1260 (3)	8.186	218521	27.783	ng/ml
44)	Aroclor 1260 (4)	8.357	475536	25.541	ng/ml
45)	Aroclor 1260 (5)	8.656	327005	27.034	ng/ml
46)	Aroclor 1260 (6)	9.045	140639	27.498	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

2/19/20

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0B18016\
Data File : ECD2F008.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 9:47
Operator : MJB / KAK
Sample : 0B18016-CAL1
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 08:42:58 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

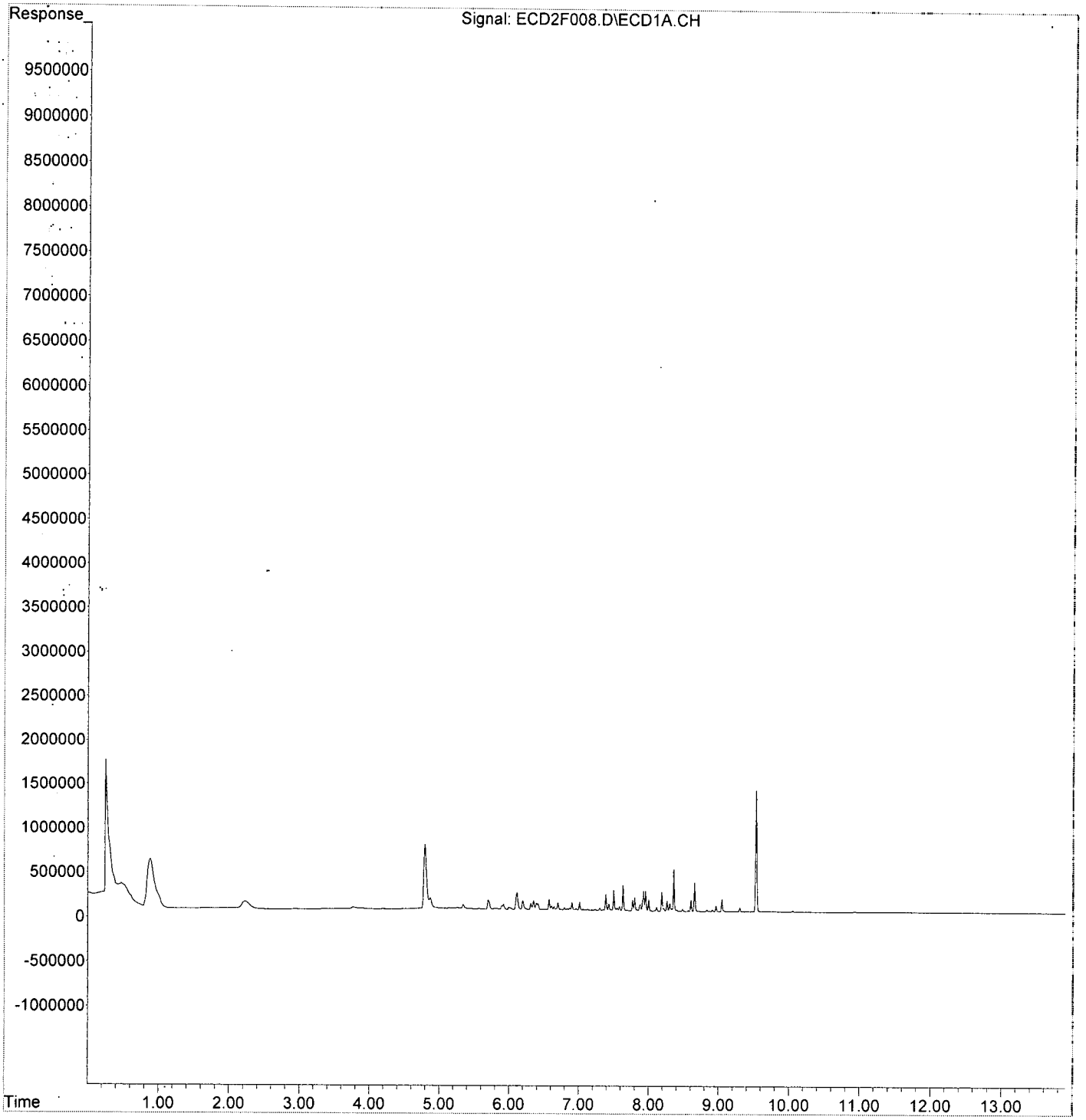
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	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\0B18016\
Data File : ECD2F008.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 9:47
Operator : MJB / KAK
Sample : 0B18016-CAL1
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 08:42:58 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0B18016\
Data File : ECD2F009.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 10:04
Operator : MJB / KAK
Sample : 0B18016-CAL2
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 08:44:36 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
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)	4.782	1907894	28.652 ng/ml
62) S	DCBP (S)	9.526	3331882	29.835 ng/ml
	Target Compounds			
2)	Aroclor 1016 (1)	5.693	258248	69.088 ng/ml
3)	Aroclor 1016 (2)	6.105	455008	63.249 ng/ml
4)	Aroclor 1016 (3)	6.188	258433	65.049 ng/ml
5)	Aroclor 1016 (4)	6.344	241632	67.545 ng/ml
6)	Aroclor 1016 (5)	6.566	280414	67.546 ng/ml
7)	Aroclor 1016 (6)	6.692	197133	67.207 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)	7.493	533393	64.050 ng/ml
42)	Aroclor 1260 (2)	7.627	658887	64.582 ng/ml
43)	Aroclor 1260 (3)	8.182	493633	62.762 ng/ml
44)	Aroclor 1260 (4)	8.353	1161834	62.402 ng/ml
45)	Aroclor 1260 (5)	8.651	787003	65.063 ng/ml
46)	Aroclor 1260 (6)	9.039	310348	60.679 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\0B18016\
Data File : ECD2F009.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 10:04
Operator : MJB / KAK
Sample : 0B18016-CAL2
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 08:44:36 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

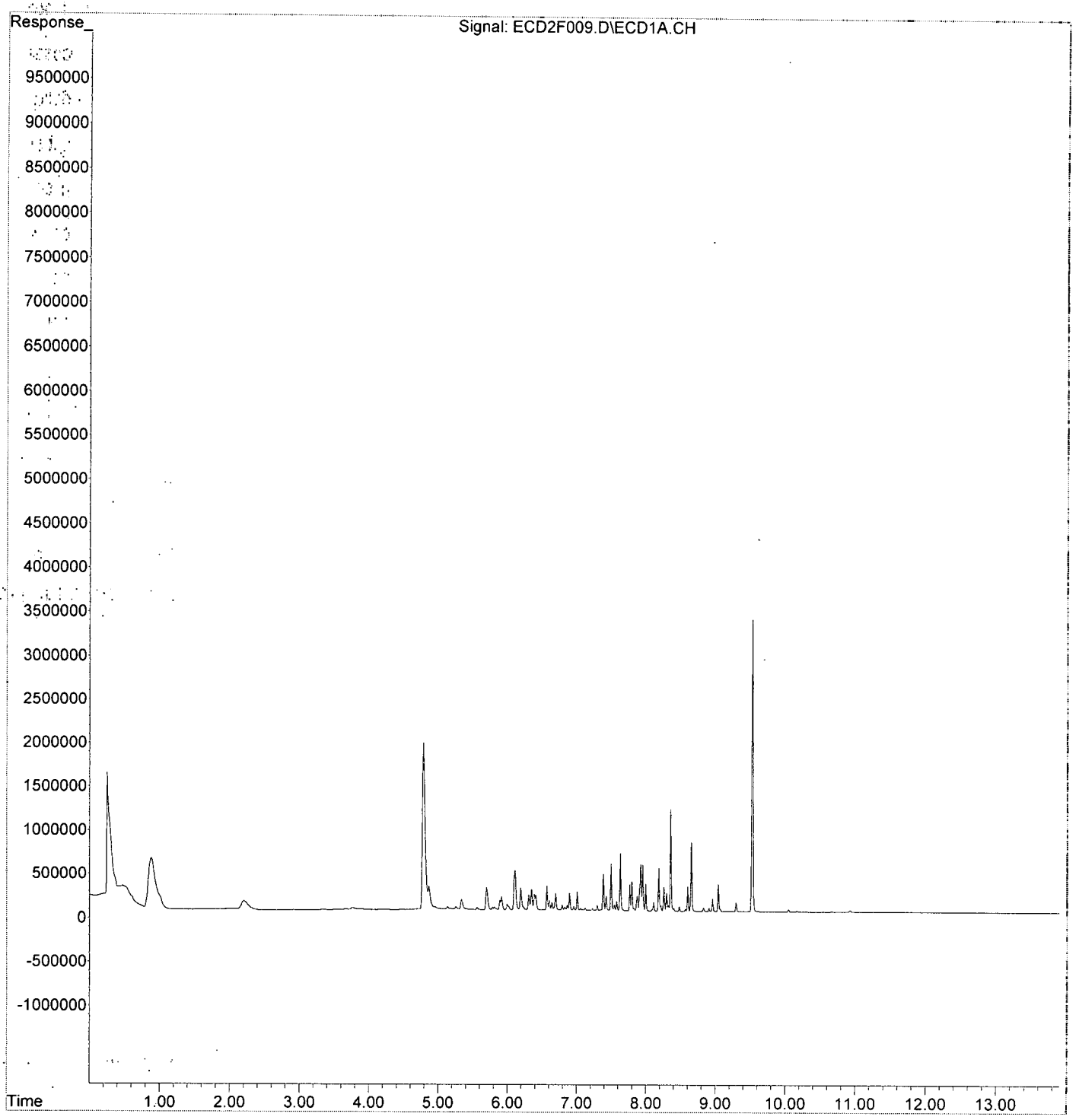
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	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\0B18016\
Data File : ECD2F009.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 10:04
Operator : MJB / KAK
Sample : 0B18016-CAL2
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 08:44:36 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0B18016\
Data File : ECD2F010.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 10:22
Operator : MJB / KAK
Sample : 0B18016-CAL3
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 08:46:04 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
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)	4.784	3742921	56.210 ng/ml
62) S	DCBP (S)	9.527	6837726	61.229 ng/ml
	Target Compounds			
2)	Aroclor 1016 (1)	5.693	448508	119.988 ng/ml
3)	Aroclor 1016 (2)	6.106	874510	121.563 ng/ml
4)	Aroclor 1016 (3)	6.187	461765	116.228 ng/ml
5)	Aroclor 1016 (4)	6.344	461493	129.004 ng/ml
6)	Aroclor 1016 (5)	6.566	506592	122.027 ng/ml
7)	Aroclor 1016 (6)	6.692	370235	126.221 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)	7.493	1031700	123.886 ng/ml
42)	Aroclor 1260 (2)	7.627	1208568	118.459 ng/ml
43)	Aroclor 1260 (3)	8.181	967418	123.000 ng/ml
44)	Aroclor 1260 (4)	8.352	2169781	116.539 ng/ml
45)	Aroclor 1260 (5)	8.650	1504417	124.373 ng/ml
46)	Aroclor 1260 (6)	9.040	610990	119.460 ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D. ng/mld

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Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0B18016\
Data File : ECD2F010.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 10:22
Operator : MJB / KAK
Sample : 0B18016-CAL3
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 08:46:04 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

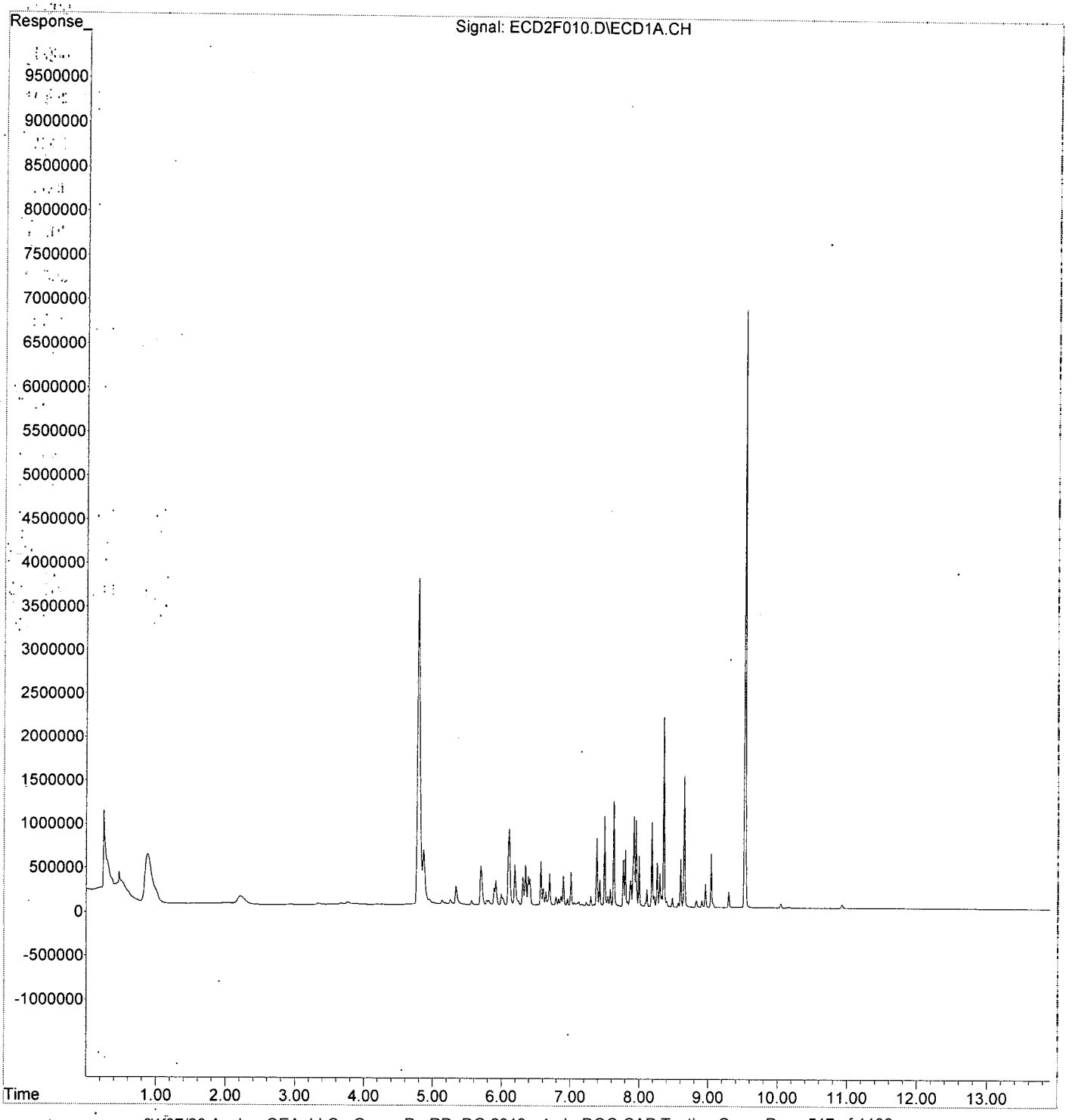
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	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\0B18016\
Data File : ECD2F010.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 10:22
Operator : MJB / KAK
Sample : 0B18016-CAL3
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 08:46:04 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0B18016\
Data File : ECD2F011.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 10:40
Operator : MJB / KAK
Sample : 0B18016-CAL4
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 08:47:15 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
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)	4.781	7955297	119.471 ng/ml
62)	S DCBP (S)	9.528	13652665	122.253 ng/ml
	Target Compounds			
2)	Aroclor 1016 (1)	5.693	880891	235.661 ng/ml
3)	Aroclor 1016 (2)	6.105	1702544	236.665 ng/ml
4)	Aroclor 1016 (3)	6.187	932254	234.652 ng/ml
5)	Aroclor 1016 (4)	6.344	834830	233.365 ng/ml
6)	Aroclor 1016 (5)	6.566	1008063	242.820 ng/ml
7)	Aroclor 1016 (6)	6.693	725904	247.476 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)	7.494	2053158	246.543 ng/ml
42)	Aroclor 1260 (2)	7.627	2559676	250.890 ng/ml
43)	Aroclor 1260 (3)	8.183	1795515	228.287 ng/ml
44)	Aroclor 1260 (4)	8.353	4490801	241.201 ng/ml
45)	Aroclor 1260 (5)	8.651	3066068	253.478 ng/ml
46)	Aroclor 1260 (6)	9.040	1206819	235.956 ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D. ng/mld

2/19/20

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0B18016\
Data File : ECD2F011.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 10:40
Operator : MJB / KAK
Sample : 0B18016-CAL4
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 08:47:15 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

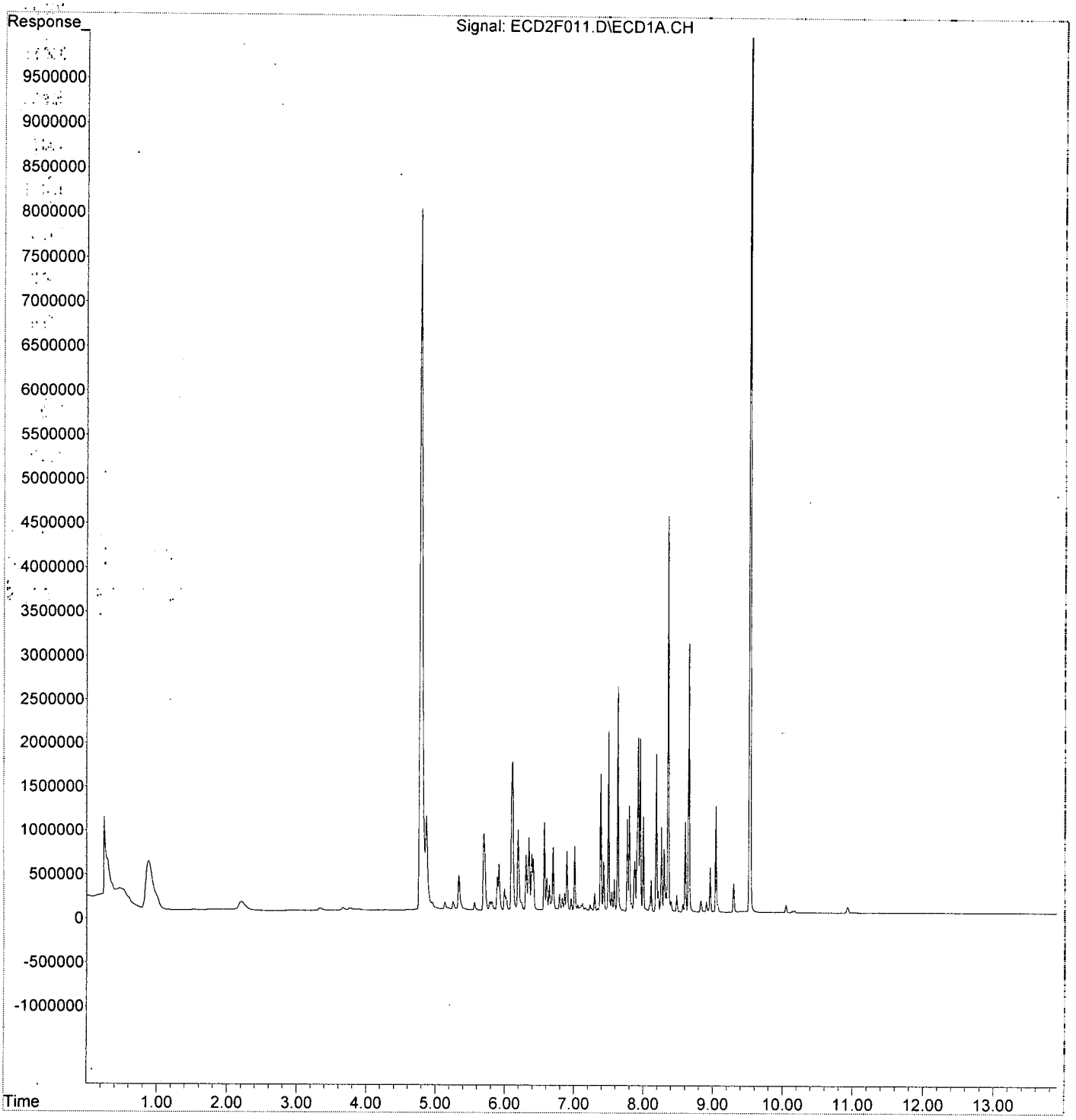
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	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\0B18016\
Data File : ECD2F011.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 10:40
Operator : MJB / KAK
Sample : 0B18016-CAL4
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 08:47:15 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0B18016\
Data File : ECD2F012.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 10:57
Operator : MJB / KAK
Sample : 0B18016-CAL5
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 08:41:36 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
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)	4.780	18620641	279.641	ng/ml
62)	S DCBP (S)	9.527	32330296	289.503	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	5.692	2142875	573.274	ng/ml
3)	Aroclor 1016 (2)	6.105	4244215	589.974	ng/ml
4)	Aroclor 1016 (3)	6.186	2286878	575.616	ng/ml
5)	Aroclor 1016 (4)	6.344	2037988	569.691	ng/ml
6)	Aroclor 1016 (5)	6.566	2365422	569.777	ng/ml
7)	Aroclor 1016 (6)	6.692	1763397	601.180	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)	7.492	4797117	576.037	ng/ml
42)	Aroclor 1260 (2)	7.626	5959812	584.158	ng/ml
43)	Aroclor 1260 (3)	8.181	4639944	589.936	ng/ml
44)	Aroclor 1260 (4)	8.352	11348630	609.536	ng/ml
45)	Aroclor 1260 (5)	8.649	7377000	609.872	ng/ml
46)	Aroclor 1260 (6)	9.039	2958395	578.421	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/mld

2/19/20

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0B18016\
Data File : ECD2F012.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 10:57
Operator : MJB / KAK
Sample : 0B18016-CAL5
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 08:41:36 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

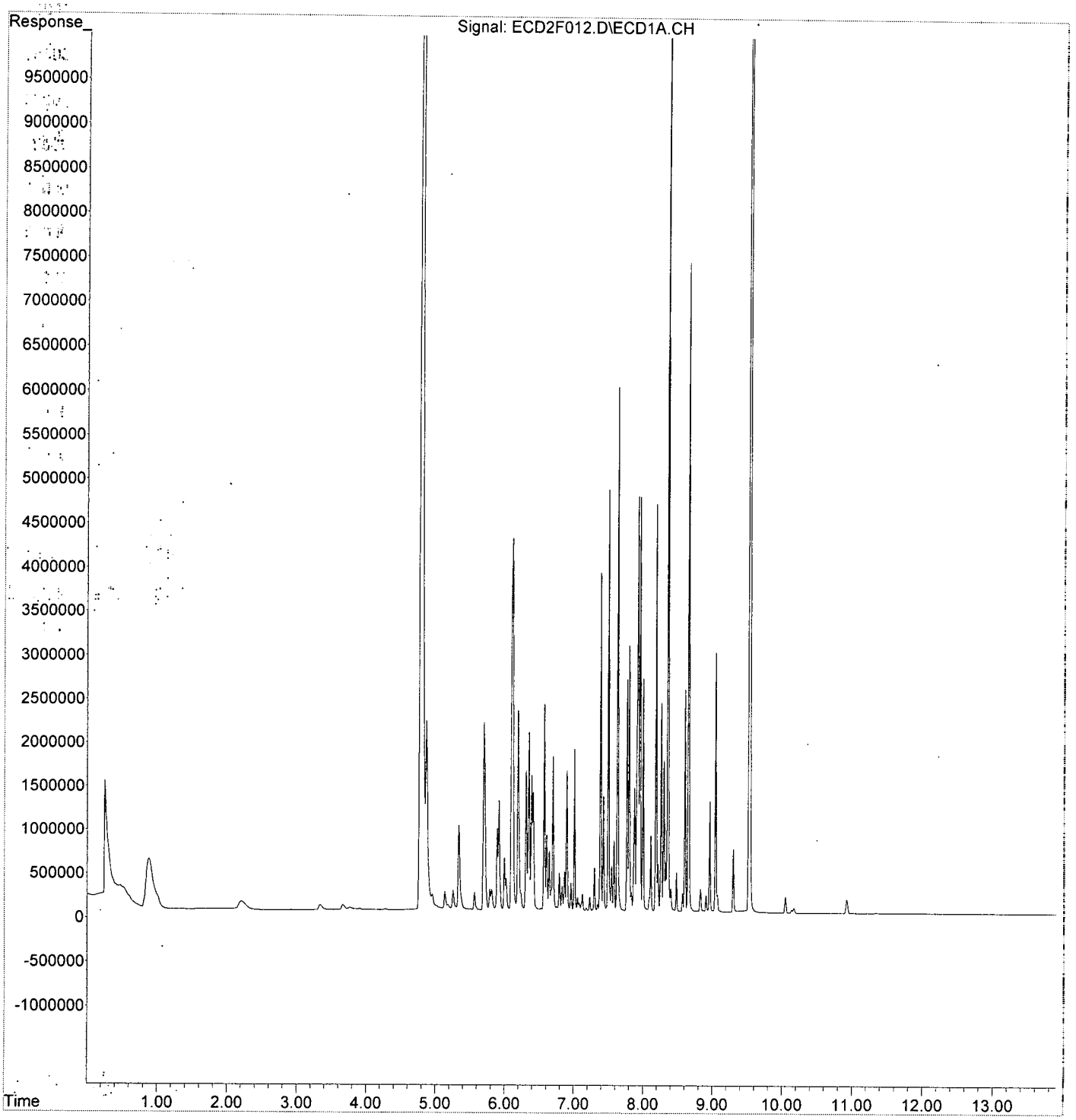
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	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\0B18016\
Data File : ECD2F012.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 10:57
Operator : MJB / KAK
Sample : 0B18016-CAL5
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 08:41:36 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0B18016\
Data File : ECD2F013.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 11:15
Operator : MJB / KAK
Sample : 0B18016-CAL6
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 08:48:38 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
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)	4.779	43144107	647.928	ng/ml
62)	S DCBP (S)	9.528	68241993	611.076	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	5.692	4174752	1116.854	ng/ml
3)	Aroclor 1016 (2)	6.106	8442266	1173.530	ng/ml
4)	Aroclor 1016 (3)	6.186	4576954	1152.036	ng/ml
5)	Aroclor 1016 (4)	6.343	3930132	1098.614	ng/ml
6)	Aroclor 1016 (5)	6.566	4405368	1061.155	ng/ml
7)	Aroclor 1016 (6)	6.692	3181732	1084.720	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)	7.493	9172675	1101.454	ng/ml
42)	Aroclor 1260 (2)	7.627	11766076	1153.266	ng/ml
43)	Aroclor 1260 (3)	8.183	8969606	1140.423	ng/ml
44)	Aroclor 1260 (4)	8.353	21418035	1150.365	ng/ml
45)	Aroclor 1260 (5)	8.651	14311647	1183.174	ng/ml
46)	Aroclor 1260 (6)	9.039	5645108	1103.724	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/mld

2/19/20

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0B18016\
Data File : ECD2F013.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 11:15
Operator : MJB / KAK
Sample : 0B18016-CAL6
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 08:48:38 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

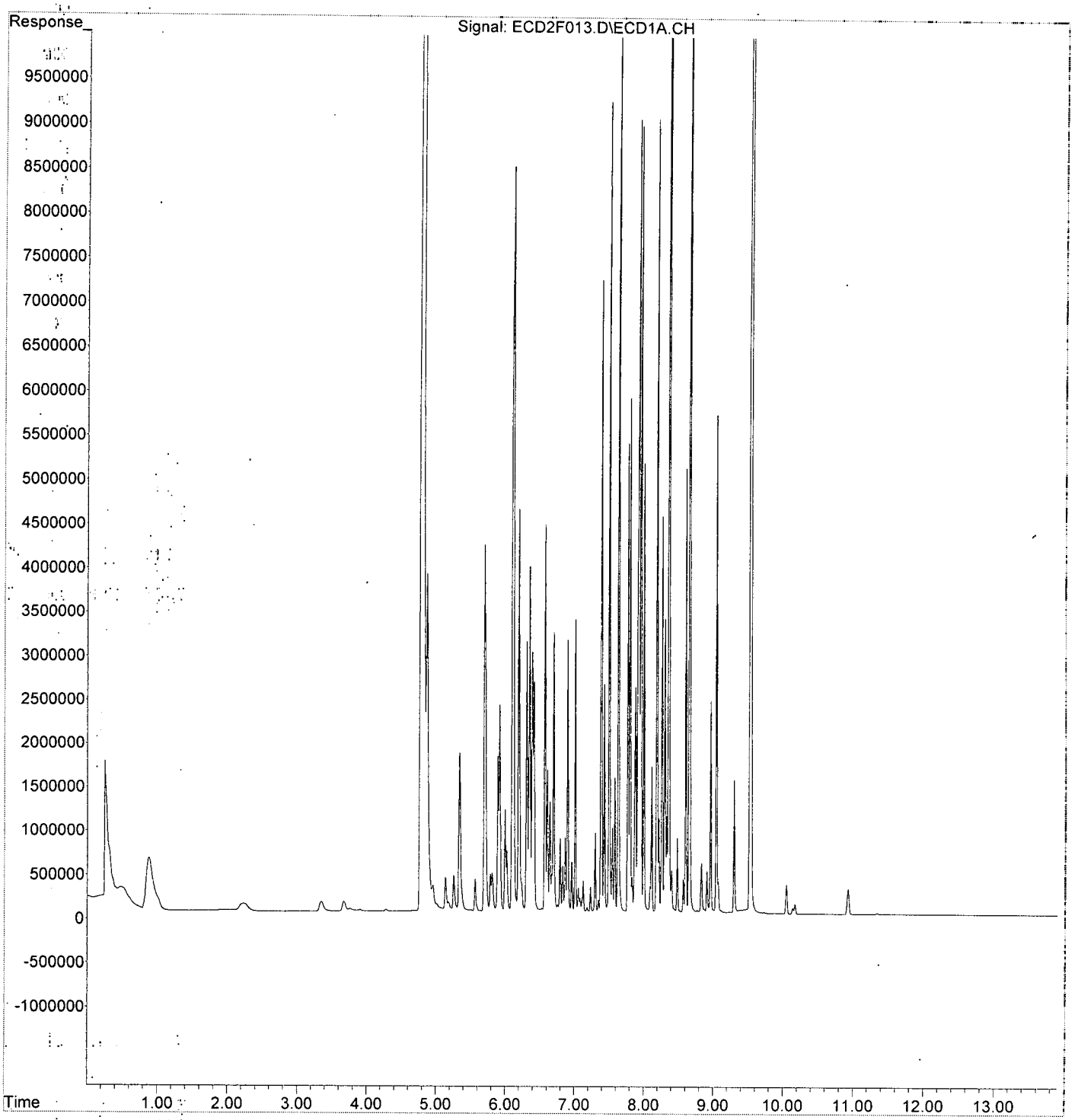
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	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\0B18016\
Data File : ECD2F013.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 11:15
Operator : MJB / KAK
Sample : 0B18016-CAL6
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 08:48:38 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0B18016\
Data File : ECD2F014.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 11:32
Operator : MJB / KAK
Sample : 0B18016-CAL7
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 08:50:02 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
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)	4.781	69999506	1051.237	ng/ml
62) S	DCBP (S)	9.529	112820430	1010.255	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	5.694	6027112	1612.408	ng/ml
3)	Aroclor 1016 (2)	6.105	12832323	1783.777	ng/ml
4)	Aroclor 1016 (3)	6.187	6633473	1669.670	ng/ml
5)	Aroclor 1016 (4)	6.344	5944203	1661.620	ng/ml
6)	Aroclor 1016 (5)	6.566	7087609	1707.246	ng/ml
7)	Aroclor 1016 (6)	6.692	5047266	1720.720	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)	7.494	14247948	1710.892	ng/ml
42)	Aroclor 1260 (2)	7.627	18410958	1804.572	ng/ml
43)	Aroclor 1260 (3)	8.182	13232054	1682.363	ng/ml
44)	Aroclor 1260 (4)	8.353	33285610	1787.774	ng/ml
45)	Aroclor 1260 (5)	8.651	22288379	1842.628	ng/ml
46)	Aroclor 1260 (6)	9.039	9041001	1767.684	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

2/19/20

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0B18016\
Data File : ECD2F014.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 11:32
Operator : MJB / KAK
Sample : 0B18016-CAL7
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 08:50:02 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

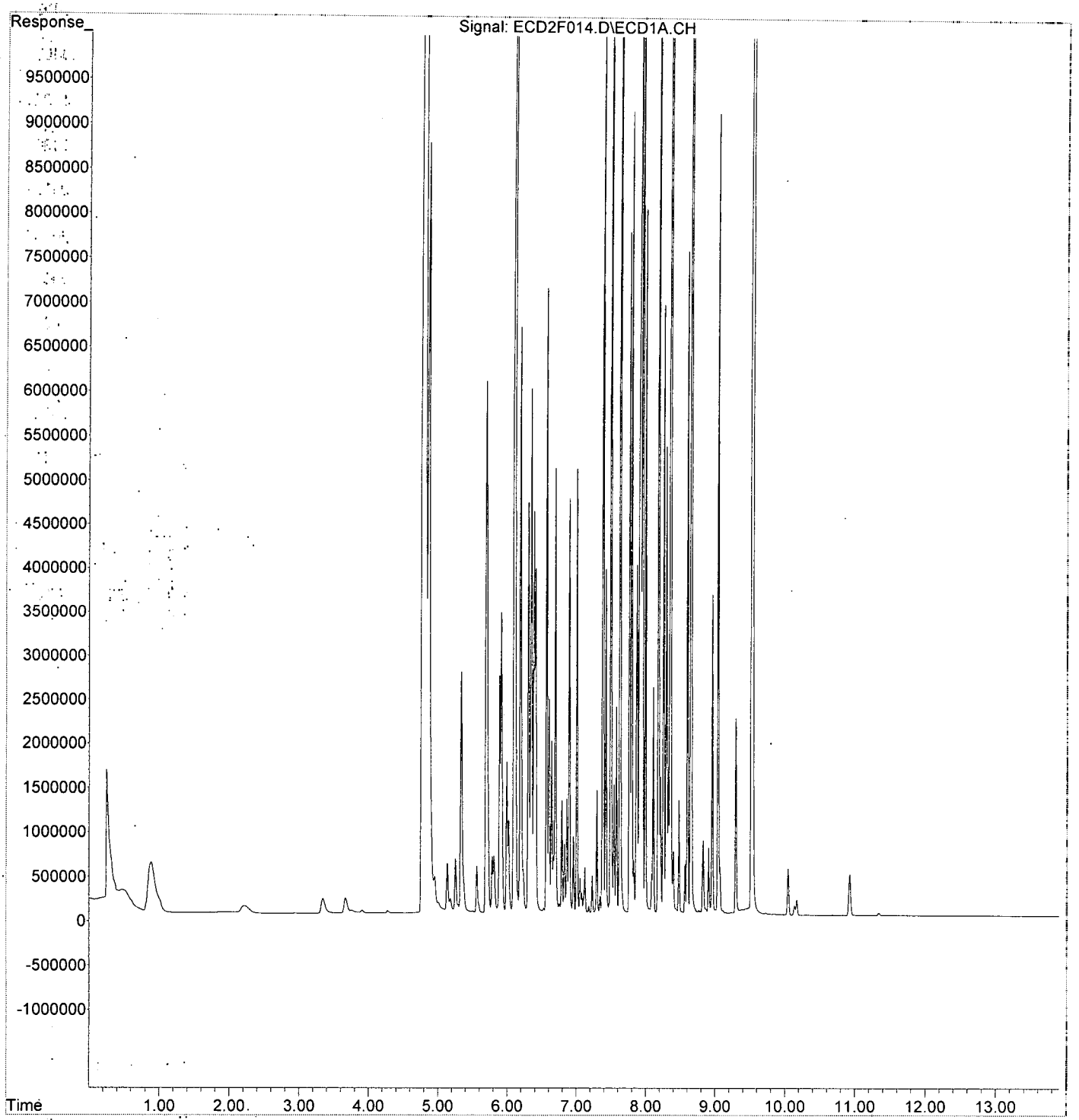
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	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\0B18016\
Data File : ECD2F014.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 11:32
Operator : MJB / KAK
Sample : 0B18016-CAL7
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 08:50:02 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0B18016\
Data File : ECD2F017.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 12:25
Operator : MJB / KAK
Sample : 0B18016-CAL8
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 08:52:27 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 08:52:20 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)	5.133	681657	629.745	ng/ml
10)	Aroclor 1221 (2)	5.252	460608	641.901	ng/ml
11)	Aroclor 1221 (3)	5.333	1418555	606.191	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

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Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0B18016\
Data File : ECD2F017.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 12:25
Operator : MJB / KAK
Sample : 0B18016-CAL8
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 08:52:27 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 08:52:20 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

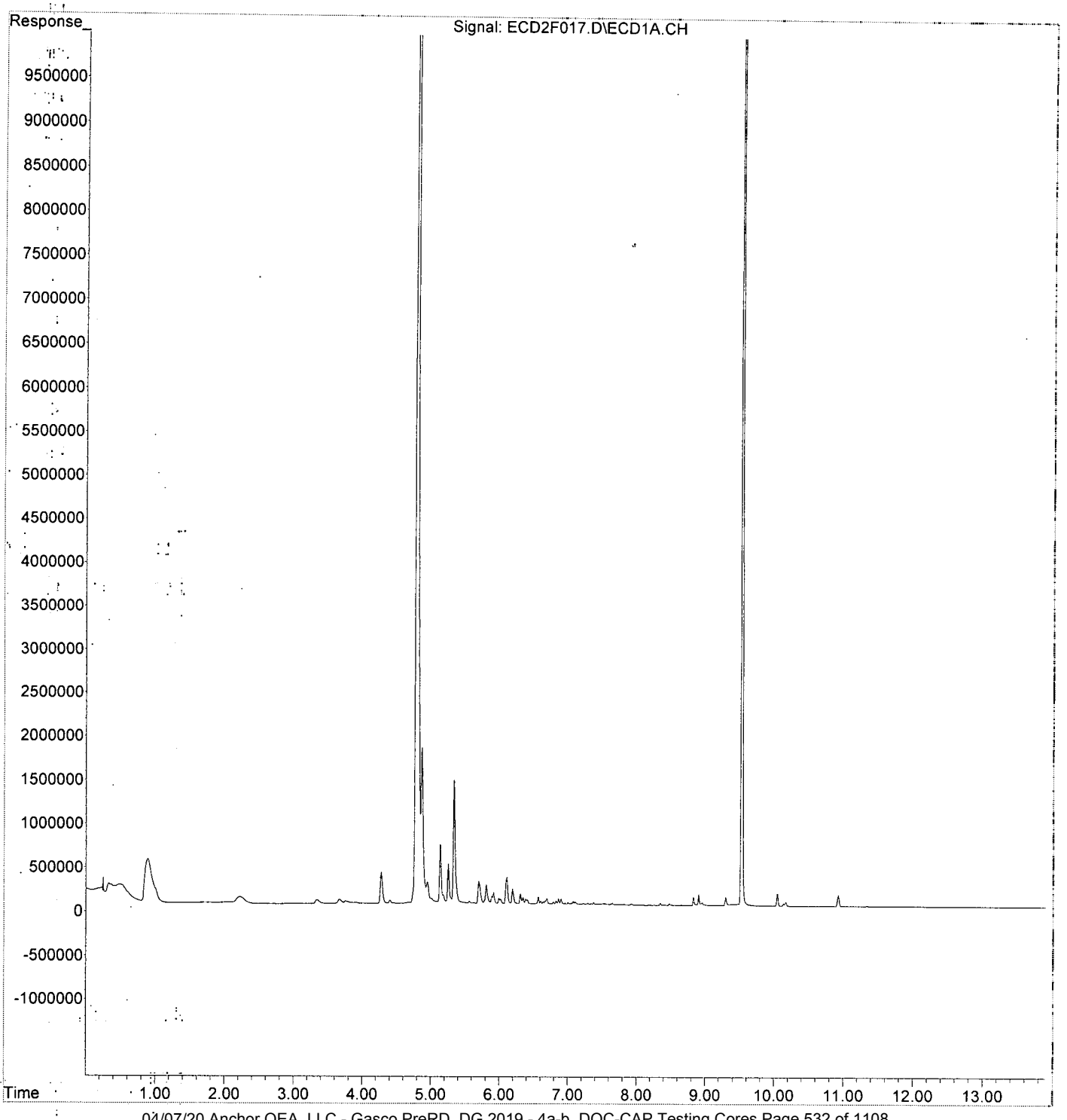
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	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\0B18016\
Data File : ECD2F017.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 12:25
Operator : MJB / KAK
Sample : 0B18016-CAL8
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 08:52:27 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 08:52:20 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0B18016\
Data File : ECD2F018.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 12:43
Operator : MJB / KAK
Sample : 0B18016-CAL9
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 08:54:34 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 08:54:28 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)	5.332	1182929	665.999	ng/ml
14)	Aroclor 1232 (2)	6.104	1793644	645.153	ng/ml
15)	Aroclor 1232 (3)	6.187	984104	670.854	ng/ml
16)	Aroclor 1232 (4)	6.344	759672	666.750	ng/ml
17)	Aroclor 1232 (5)	6.566	965194	672.151	ng/ml
18)	Aroclor 1232 (6)	6.691	787481	657.263	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

2/19/20

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0B18016\
Data File : ECD2F018.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 12:43
Operator : MJB / KAK
Sample : 0B18016-CAL9
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 08:54:34 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 08:54:28 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

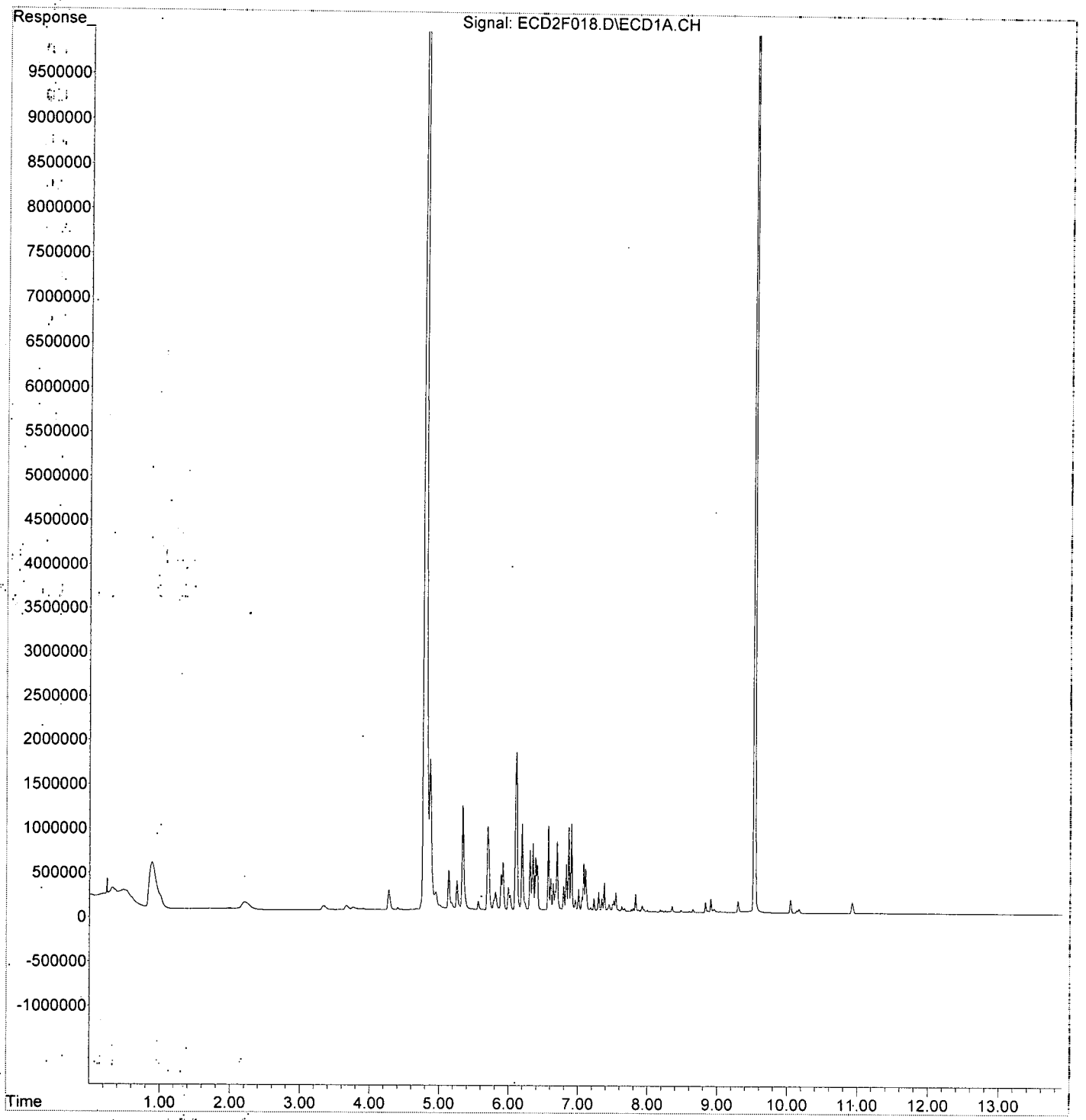
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	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\0B18016\
Data File : ECD2F018.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 12:43
Operator : MJB / KAK
Sample : 0B18016-CAL9
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 08:54:34 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 08:54:28 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0B18016\
Data File : ECD2F019.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 13:00
Operator : MJB / KAK
Sample : 0B18016-CALA
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 08:56:30 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 08:56:23 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)	5.692	1760415	662.801	ng/ml
21)	Aroclor 1242 (2)	6.105	3586981	691.522	ng/ml
22)	Aroclor 1242 (3)	6.186	1837949	651.715	ng/ml
23)	Aroclor 1242 (4)	6.344	1637004	715.105	ng/ml
24)	Aroclor 1242 (5)	6.566	2049340	686.614	ng/ml
25)	Aroclor 1242 (6)	6.692	1703971	679.084	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\0B18016\
Data File : ECD2F019.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 13:00
Operator : MJB / KAK
Sample : 0B18016-CALA
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 08:56:30 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 08:56:23 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

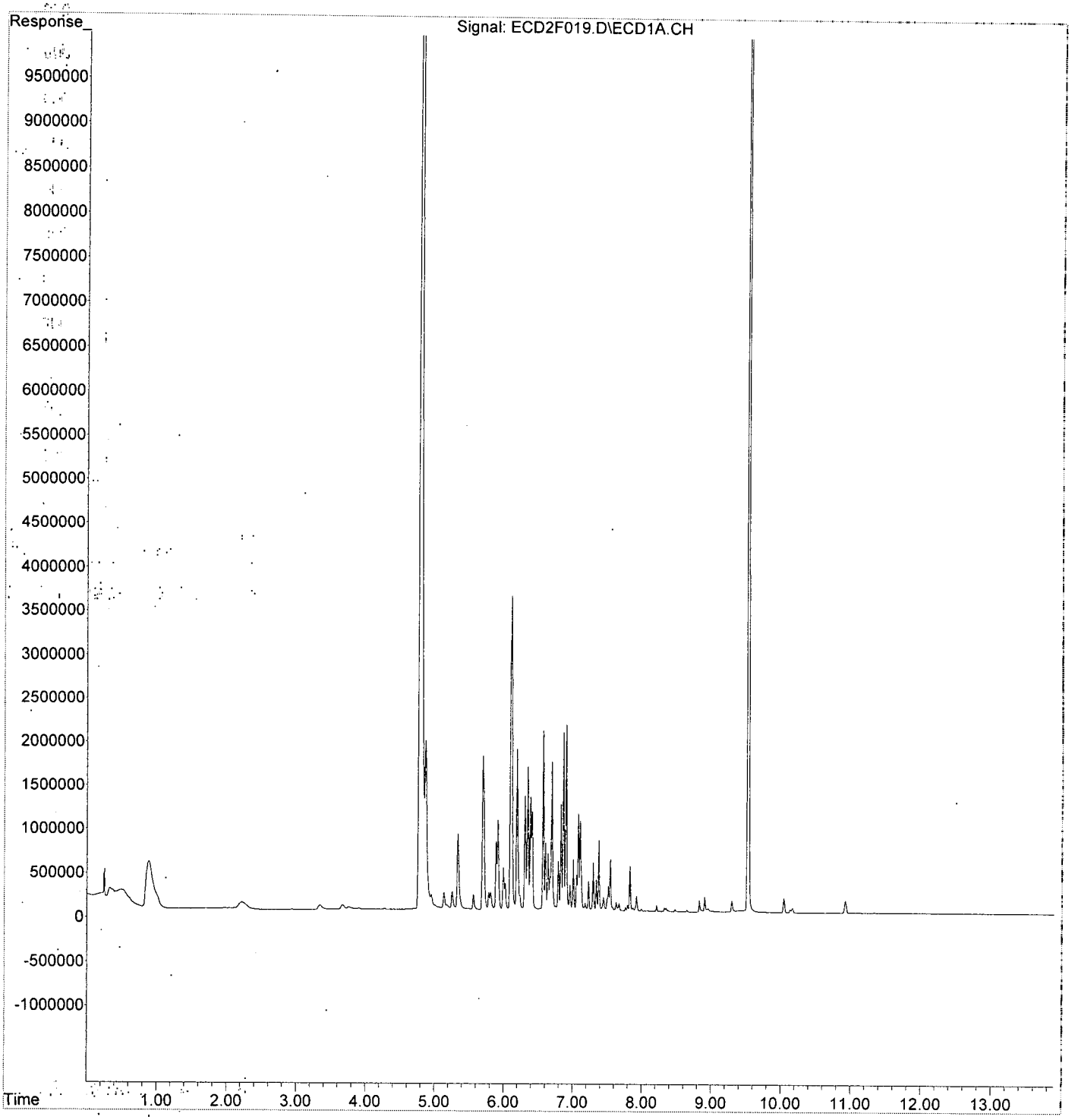
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	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\0B18016\
Data File : ECD2F019.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 13:00
Operator : MJB / KAK
Sample : 0B18016-CALA
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 08:56:30 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 08:56:23 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0B18016\
Data File : ECD2F020.D
Signal(s) : ECD1A,CH
Acq On : 18 Feb 2020 13:18
Operator : MJB / KAK
Sample : 0B18016-CALB
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 08:58:34 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 08:58:28 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)	6.106	2181041	640.862	ng/ml
28)	Aroclor 1248 (2)	6.345	2852519	631.757	ng/ml
29)	Aroclor 1248 (3)	6.567	3237239	620.296	ng/ml
30)	Aroclor 1248 (4)	6.861	3677118	633.424	ng/ml
31)	Aroclor 1248 (5)	6.899	3772790	612.535	ng/ml
32)	Aroclor 1248 (6)	7.375	2051697	600.365	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

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Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0B18016\
Data File : ECD2F020.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 13:18
Operator : MJB / KAK
Sample : 0B18016-CALB
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 08:58:34 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 08:58:28 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

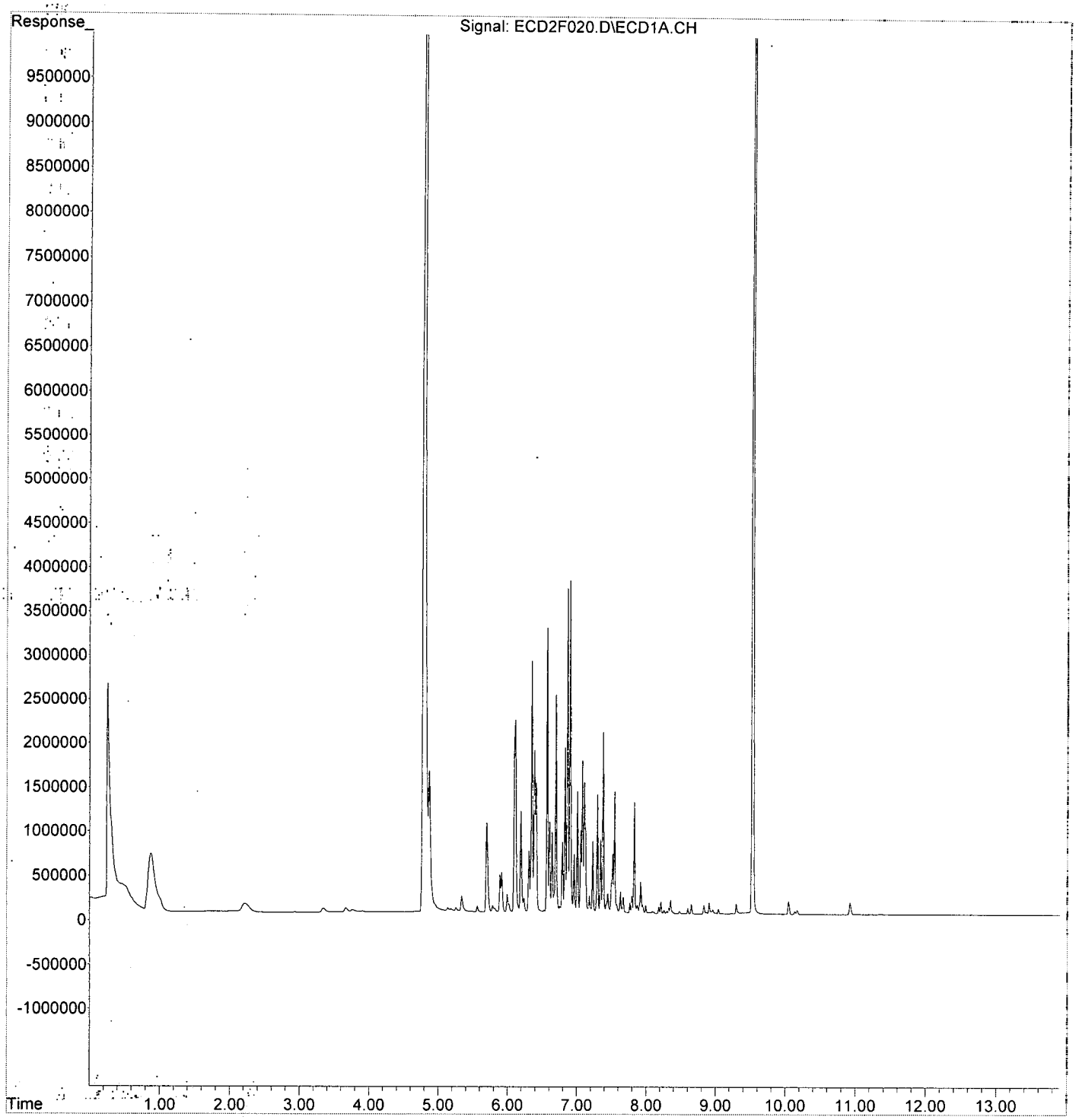
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	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\0B18016\
Data File : ECD2F020.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 13:18
Operator : MJB / KAK
Sample : 0B18016-CALB
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 08:58:34 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 08:58:28 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0B18016\
Data File : ECD2F021.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 13:36
Operator : MJB / KAK
Sample : 0B18016-CALC
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 09:00:39 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:00:34 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)	6.893	4430248	738.606	ng/ml
35)	Aroclor 1254 (2)	7.004	5541078	760.347	ng/ml
36)	Aroclor 1254 (3)	7.375	8319621	742.162	ng/ml
37)	Aroclor 1254 (4)	7.541	5313910	745.286	ng/ml
38)	Aroclor 1254 (5)	7.921	5792036	736.240	ng/ml
39)	Aroclor 1254 (6)	8.212	1865386	747.983	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

2/19/20

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0B18016\
Data File : ECD2F021.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 13:36
Operator : MJB / KAK
Sample : 0B18016-CALC
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 09:00:39 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:00:34 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

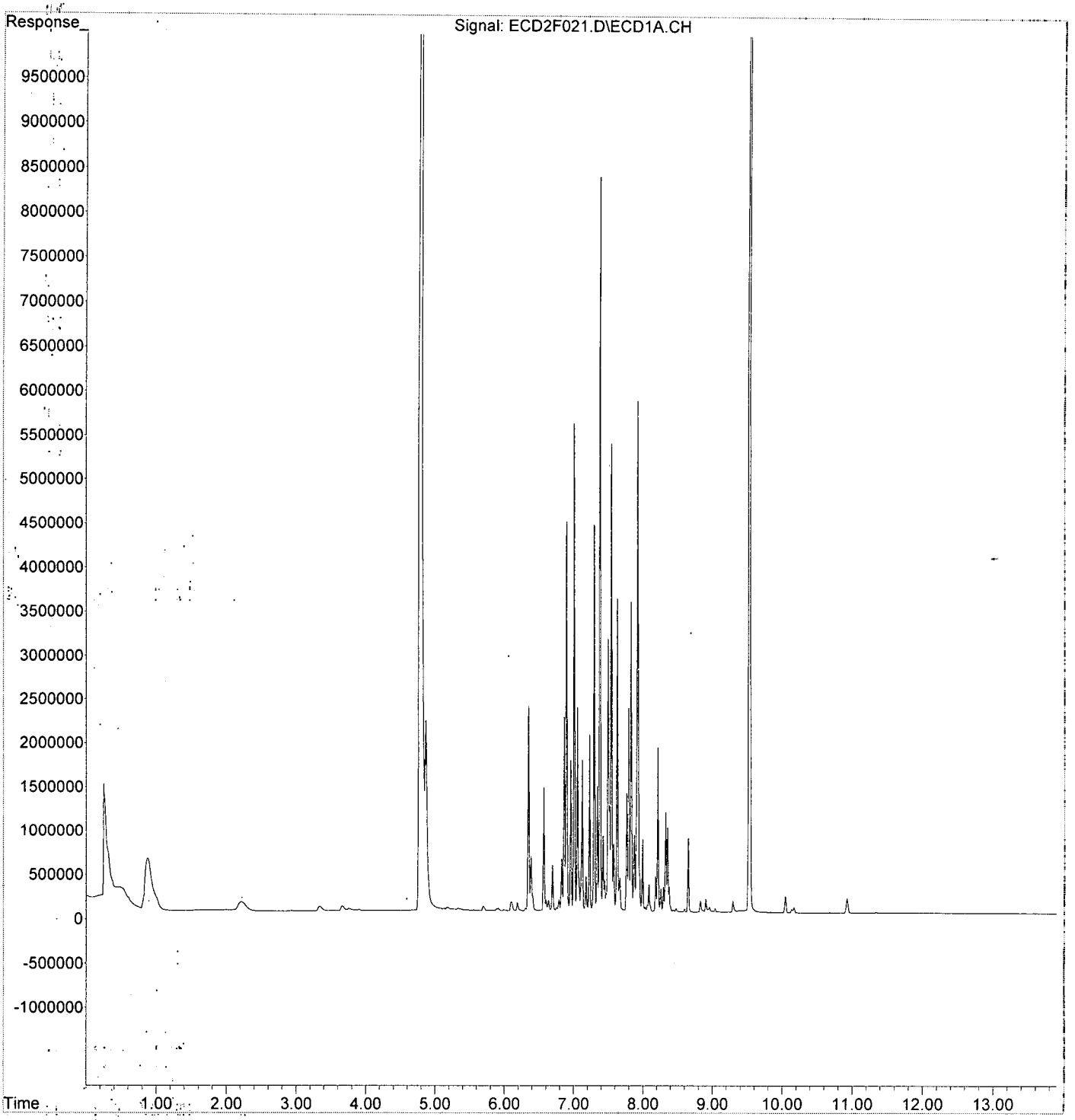
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	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\0B18016\
Data File : ECD2F021.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 13:36
Operator : MJB / KAK
Sample : 0B18016-CALC
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 09:00:39 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:00:34 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0B18016\
Data File : ECD2F022.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 13:53
Operator : MJB / KAK
Sample : 0B18016-CALD
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 09:02:23 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:02:17 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)	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\0B18016\
Data File : ECD2F022.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 13:53
Operator : MJB / KAK
Sample : 0B18016-CALD
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 09:02:23 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:02:17 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	7.627	5372243	667.657	ng/ml
49)	Aroclor 1262 (2)	7.950	7660611	682.455	ng/ml
50)	Aroclor 1262 (3)	8.182	6382858	657.692	ng/ml
51)	Aroclor 1262 (4)	8.353	14151592	684.972	ng/ml
52)	Aroclor 1262 (5)	8.651	9036851	690.766	ng/ml
53)	Aroclor 1262 (6)	9.040	4527383	678.093	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

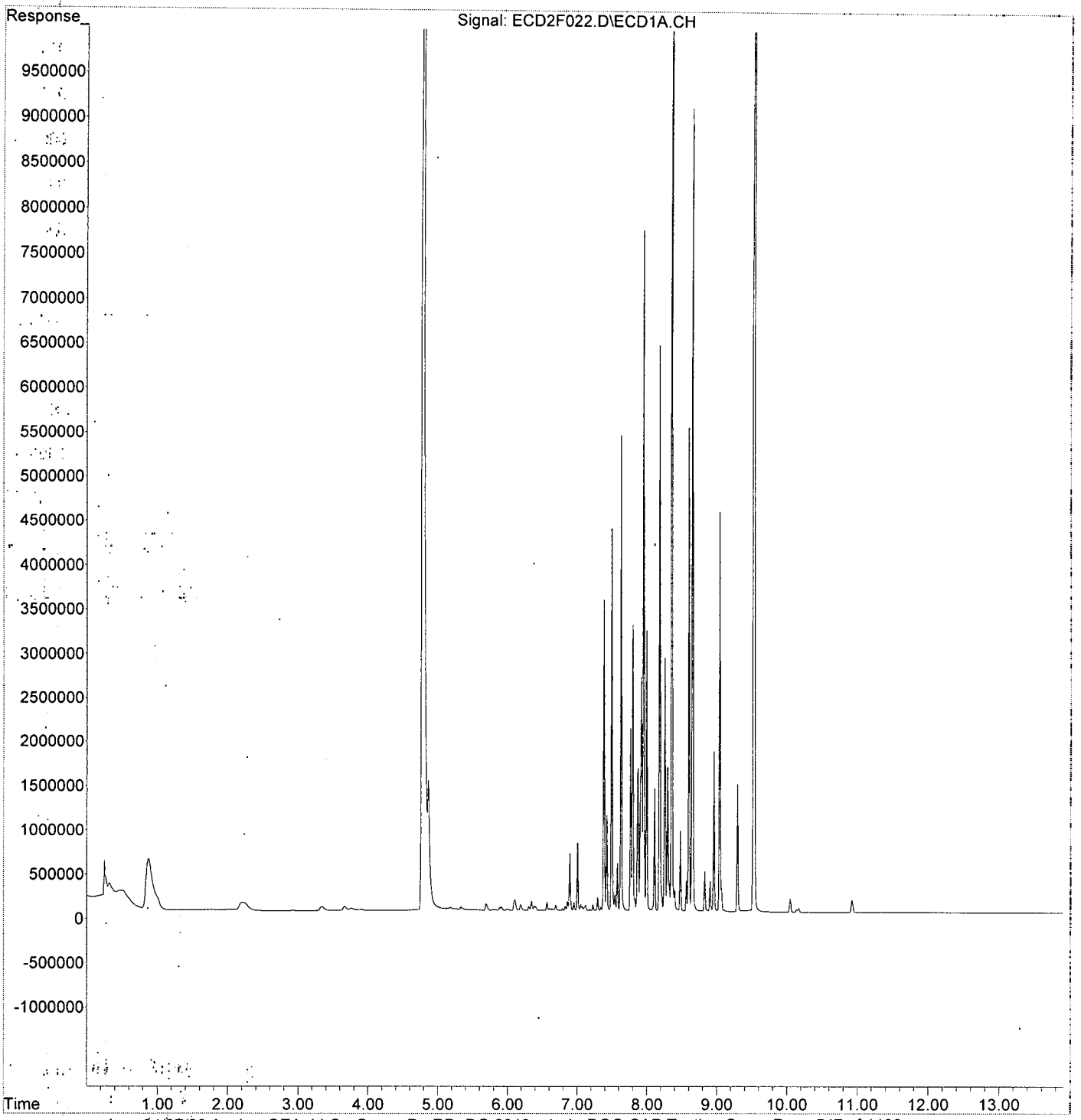
2/19/20

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

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0B18016\
Data File : ECD2F022.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 13:53
Operator : MJB / KAK
Sample : 0B18016-CALD
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 09:02:23 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:02:17 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0B18016\
Data File : ECD2F023.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb-2020 14:11
Operator : MJB / KAK
Sample : 0B18016-CALE
Misc :
ALS Vial : 18 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 09:04:18 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:04:12 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)	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\0B18016\
Data File : ECD2F023.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 14:11
Operator : MJB / KAK
Sample : 0B18016-CALE
Misc :
ALS Vial : 18 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 09:04:18 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_200218.M
Quant Title : PCB Data Analysis
QLast Update : Wed Feb 19 09:04:12 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)	8.174	3213099	629.497	ng/ml
56)	Aroclor 1268 (2)	8.599	14841314	605.134	ng/ml
57)	Aroclor 1268 (3)	8.647	12489121	611.786	ng/ml
58)	Aroclor 1268 (4)	8.829	11531463	602.059	ng/ml
59)	Aroclor 1268 (5)	9.040	4605021	594.216	ng/ml
60)	Aroclor 1268 (6)	9.296	32430266	620.277	ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/ml

2/19/20

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

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0B18016\
Data File : ECD2F023.D
Signal(s) : ECD1A.CH
Acq On : 18 Feb 2020 14:11
Operator : MJB / KAK
Sample : 0B18016-CALE
Misc :
ALS Vial : 18 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Feb 19 09:04:18 2020
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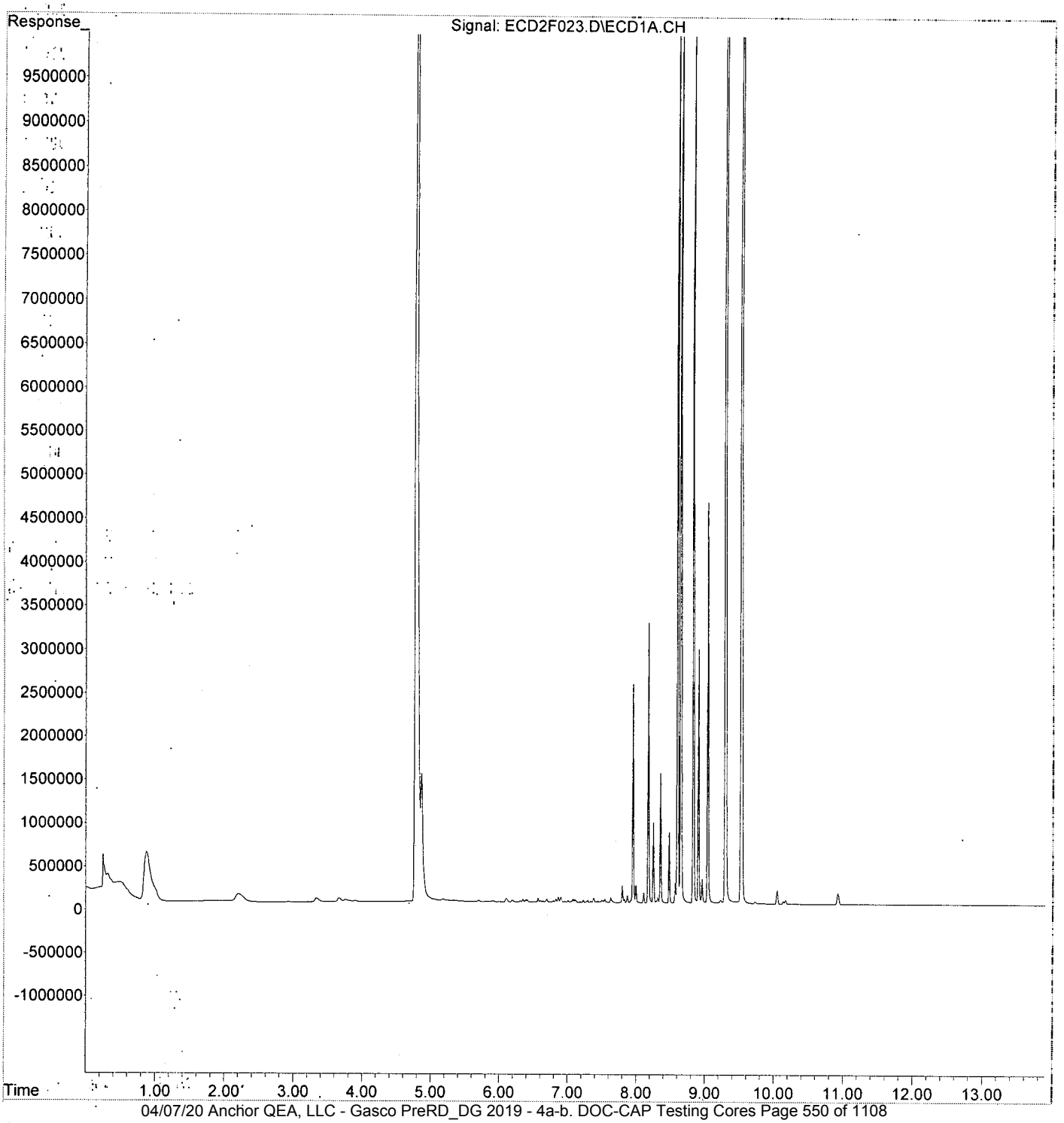


APEX LABORATORIES, LLC
6700 SW Sandburg St. Tigard OR 97223 phone 503-718-2323

Organochloride Pesticides by EPA 8081B
Benchsheet & Analysis Sequence Data

Batch 0020808
Sequence 0B28030 (A0B0680-01RE1,02RE1,03RE1,04RE1,05RE1)

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0020808 (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
	0020808-BLK1		QC	02/26/20 12:26	11	10				100					
	0020808-BS1		QC	02/26/20 12:26	10	10	A20A310		100	100					
	A0B0679-01RE1	A	8081B 2,4+4,4-DDx Only (+Add)	02/26/20 12:26	10.23	10				100	PDI-014SC-A-04 -05-191003	MDL. Use Custom Spike.			
	A0B0679-02RE1	A	8081B 2,4+4,4-DDx Only (+Add)	02/26/20 12:26	10.33	10				100	PDI-014SC-A-05 -06-191003	MDL. Use Custom Spike.			
	0020808-DUP1		QC	02/26/20 12:26	10.37	10		A0B0679-02RE1		100					
	A0B0679-03RE1	A	8081B 2,4+4,4-DDx Only (+Add)	02/26/20 12:26	10.03	10				100	PDI-014SC-A-06 -07-191003	MDL. Use Custom Spike.			
	A0B0679-04RE1	A	8081B 2,4+4,4-DDx Only (+Add)	02/26/20 12:26	10.02	10				100	PDI-084SC-A-03 -04-191002	MDL. Use Custom Spike.			
	A0B0679-05RE1	A	8081B 2,4+4,4-DDx Only (+Add)	02/26/20 12:26	10.1	10				100	PDI-084SC-A-04 -05-191002	MDL. Use Custom Spike.			
	A0B0679-06RE1	A	8081B 2,4+4,4-DDx Only (+Add)	02/26/20 12:26	10.35	10				100	PDI-084SC-A-05 -06-191002	MDL. Use Custom Spike.			
	A0B0679-07RE1	A	8081B 2,4+4,4-DDx Only (+Add)	02/26/20 12:26	10.75	10				100	PDI-084SC-A-06 -07-191002	MDL. Use Custom Spike.			
	A0B0679-08RE1	A	8081B 2,4+4,4-DDx Only (+Add)	02/26/20 12:26	10.12	10				100	PDI-084SC-A-07 -08-191002	MDL. Use Custom Spike.			
	A0B0679-09RE1	A	8081B 2,4+4,4-DDx Only (+Add)	02/26/20 12:26	10.3	10				100	PDI-084SC-A-08 -09-191002	MDL. Use Custom Spike.			
	A0B0679-09RE2	A	8081B 2,4+4,4-DDx Only (+Add)	02/26/20 12:26	10.3	10				100	PDI-084SC-A-08 -09-191002	Added 2/28/2020 By MJB			
	A0B0679-10RE1	A	8081B 2,4+4,4-DDx Only (+Add)	02/26/20 12:26	10.04	10				100	PDI-084SC-A-09 -10-191002	MDL. Use Custom Spike.			
	A0B0679-11RE1	A	8081B 2,4+4,4-DDx Only (+Add)	02/26/20 12:26	10.51	10				100	PDI-084SC-A-10 -11-191002	MDL. Use Custom Spike.			
	A0B0679-12RE1	A	8081B 2,4+4,4-DDx Only (+Add)	02/26/20 12:26	10.53	10				100	PDI-084SC-A-11 -12-191002	MDL. Use Custom Spike.			
	A0B0679-13RE1	A	8081B 2,4+4,4-DDx Only (+Add)	02/26/20 12:26	10.37	10				100	PDI-084SC-A-12 -13-191002	MDL. Use Custom Spike.			
	A0B0679-14RE1	A	8081B 2,4+4,4-DDx Only (+Add)	02/26/20 12:26	10.16	10				100	PDI-084SC-A-13 -14-191002	MDL. Use Custom Spike.			
	A0B0679-15RE1	A	8081B 2,4+4,4-DDx Only (+Add)	02/26/20 12:26	10.26	10				100	PDI-084SC-A-14 -15-191002	MDL. Use Custom Spike.			

Prepared By: Date

MJB 3/2/20

Reviewed By: Date

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0020808 (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
	A0B0680-01RE1	A	8081B 2,4+4,4-DDx Only (+Add)	02/26/20 12:26	10.33	10				100	PDI-049SC-A-03 -04-191015	MDL. Use Custom Spike.			
	A0B0680-02RE1	A	8081B 2,4+4,4-DDx Only (+Add)	02/26/20 12:26	10.23	10				100	PDI-049SC-A-04 -05-191015	MDL. Use Custom Spike.			
	A0B0680-03RE1	A	8081B 2,4+4,4-DDx Only (+Add)	02/26/20 12:26	10.47	10				100	PDI-049SC-A-05 -06-191015	MDL. Use Custom Spike.			
	A0B0680-04RE1	A	8081B 2,4+4,4-DDx Only (+Add)	02/26/20 12:26	10.43	10				100	PDI-049SC-A-06 -07-191015	MDL. Use Custom Spike.			
	0020808-MS1		QC	02/26/20 12:26	10.38	10	A20A310	A0B0680-04RE1	100	100					
	0020808-MSD1		QC	02/26/20 12:26	10.46	10	A20A310	A0B0680-04RE1	100	100					
	A0B0680-05RE1	A	8081B 2,4+4,4-DDx Only (+Add)	02/26/20 12:26	10.21	10				100	PDI-049SC-A-07 -08-191015	MDL. Use Custom Spike.			

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 0020784 on 2/26/2020 by ajj

Prepared By: _____ Date _____

Reviewed By: _____ Date _____

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0020808 (Sediment)

Prep Method: EPA 3546/3640A (GPC)

MVB 2/27/20

In Out

#	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
2	0020808-BLK1		QC	02/26/20 12:26	11	8/10				100		1mL 2mL			
3	0020808-BS1		QC	02/26/20 12:26	10	5/10	A20A310		100	100		1mL 2mL			
4	A0B0679-01RE1	A	8081B 2,4+4,4-DDx Only (+Add)	02/26/20 12:26	10.23	5/10				100	PDI-014SC-A-04-05-191003	MDL. Use Custom Spike. 1mL 2mL			
5	A0B0679-02RE1	A	8081B 2,4+4,4-DDx Only (+Add)	02/26/20 12:26	10.33	5/10				100	PDI-014SC-A-05-06-191003	MDL. Use Custom Spike. 1mL 2mL			
6	0020808-DUP1		QC	02/26/20 12:26	10.37	5/10		A0B0679-02RE1		100		1mL 2mL			
7	A0B0679-03RE1	A	8081B 2,4+4,4-DDx Only (+Add)	02/26/20 12:26	10.03	5/10				100	PDI-01[illegible]C-A-06[illegible]3	MDL. Use Custom Spike. 1mL 2mL			
8	A0B0679-04RE1	A	8081B 2,4+4,4-DDx Only (+Add)	02/26/20 12:26	10.02	5/10				100	PDI-[illegible]4SC-A-03-04-191002	MDL. Use Custom Spike. 1mL 2mL			
9	A0B0679-05RE1	A	8081B 2,4+4,4-DDx Only (+Add)	02/26/20 12:26	10.1	5/10				100	PDI-084SC-A-04-05-191002	MDL. Use Custom Spike. 1mL 2mL			
10	A0B0679-06RE1	A	8081B 2,4+4,4-DDx Only (+Add)	02/26/20 12:26	10.35	5/10				100	PDI-084SC-A-05-06-191002	MDL. Use Custom Spike. 1mL 2mL			
11	A0B0679-07RE1	A	8081B 2,4+4,4-DDx Only (+Add)	02/26/20 12:26	10.75	5/10				100	PDI-084SC-A-06-07-191002	MDL. Use Custom Spike. 1mL 2mL			
12	A0B0679-08RE1	A	8081B 2,4+4,4-DDx Only (+Add)	02/26/20 12:26	10.12	5/10				100	PDI-084SC-A-07-08-191002	MDL. Use Custom Spike. 1mL 2mL			
13	A0B0679-09RE1	A	8081B 2,4+4,4-DDx Only (+Add)	02/26/20 12:26	10.3	5/10				100	PDI-084SC-A-08-09-191002	MDL. Use Custom Spike. 1mL 2mL			
14	A0B0679-10RE1	A	8081B 2,4+4,4-DDx Only (+Add)	02/26/20 12:26	10.04	5/10				100	PDI-084SC-A-09-10-191002	MDL. Use Custom Spike. 1mL 2mL			
15	A0B0679-11RE1	A	8081B 2,4+4,4-DDx Only (+Add)	02/26/20 12:26	10.51	5/10				100	PDI-084SC-A-10-11-191002	MDL. Use Custom Spike. 1mL 2mL			
16	A0B0679-12RE1	A	8081B 2,4+4,4-DDx Only (+Add)	02/26/20 12:26	10.53	5/10				100	PDI-084SC-A-11-12-191002	MDL. Use Custom Spike. 1mL 2mL			
17	A0B0679-13RE1	A	8081B 2,4+4,4-DDx Only (+Add)	02/26/20 12:26	10.37	5/10				100	PDI-084SC-A-12-13-191002	MDL. Use Custom Spike. 1mL 2mL			
18	A0B0679-14RE1	A	8081B 2,4+4,4-DDx Only (+Add)	02/26/20 12:26	10.16	5/10				100	PDI-084SC-A-13-14-191002	MDL. Use Custom Spike. 1mL 2mL			
19	A0B0679-15RE1	A	8081B 2,4+4,4-DDx Only (+Add)	02/26/20 12:26	10.26	5/10				100	PDI-084SC-A-14-15-191002	MDL. Use Custom Spike. 1mL 2mL			
20	A0B0680-01RE1	A	8081B 2,4+4,4-DDx Only (+Add)	02/26/20 12:26	10.33	5/10				100	PDI-049SC-A-03-04-191015 ★	MDL. Use Custom Spike. 1mL 2mL			

MVB 2-26-20
Prepared By: Date

MVB 3/2/20
Reviewed By: Date

2/27/20
2/28/20

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0020808 (Sediment)

Prep Method: EPA 3546/3640A (GPC)

MJP 5/27/20

In / Out

#	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
21	A0B0680-02RE1	A	8081B 2,4+4,4-DDx Only (+Add)	02/26/20 1226	10.23	5/10				100	PDI-049SC-A-04-05-191015	MDL. Use Custom Spike. ☆ 1mL 2mL			
22	A0B0680-03RE1	A	8081B 2,4+4,4-DDx Only (+Add)	02/26/20 1226	10.47	5/10				100	PDI-049SC-A-05-06-191015	MDL. Use Custom Spike. ☆ 1mL 2mL			
	A0B0680-04RE1	A	8081B 2,4+4,4-DDx Only (+Add)	02/26/20 1226	10.43	5/10				100	PDI-049SC-A-06-07-191015	MDL. Use Custom Spike. 1mL 2mL			
	0020808-MS1		QC	02/26/20 1226	10.38	5/10	A20A310	A0B0680-04RE1	100	100		1mL 2mL			
	0020808-MSD1		QC	02/26/20 1226	10.46	5/10	A20A310	A0B0680-04RE1	100	100		1mL 2mL			
	A0B0680-05RE1	A	8081B 2,4+4,4-DDx Only (+Add)	02/26/20 1226	10.21	5/10				100	PDI-049SC-A-07-08-191015	MDL. Use Custom Spike. 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 0020784 on 2/26/2020 by ajj

☆ = Staining on Turbovap

AJJ 2.26-20

Prepared By: Date

Reviewed By: Date

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0020784 (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	0020784-BLK1		QC	02/26/20 08:03	~~10~~ 11	5				100					
2	0020784-BS1		QC	02/26/20 08:03	10	5	A20A310		100	100					
3	A0B0679-01	A	8081B 2,4+4,4-DDx Only (+Add)	02/26/20 08:03	~~10~~ 10.73	5		JAG 3/2/2020		100	PDI-014SC-A-04 -05-191003	MDL. Use Custom Spike. Sand			
4	A0B0679-02	A	8081B 2,4+4,4-DDx Only (+Add)	02/26/20 08:03	~~10~~ 10.33	5				100	PDI-014SC-A-05 -06-191003	MDL. Use Custom Spike. Sand			
5	0020784-DUP1		QC	02/26/20 08:03	~~10~~ 10.37	5		A0B0679-02		100		Sand			
6	A0B0679-03	A	8081B 2,4+4,4-DDx Only (+Add)	02/26/20 08:03	~~10~~ 10.03	5				100	PDI-014SC-A-06 -07-191003	MDL. Use Custom Spike. Sand			
7	A0B0679-04	A	8081B 2,4+4,4-DDx Only (+Add)	02/26/20 08:03	~~10~~ 10.02	5				100	PDI-084SC-A-03 -04-191002	MDL. Use Custom Spike. mud			
8	A0B0679-05	A	8081B 2,4+4,4-DDx Only (+Add)	02/26/20 08:03	~~10~~ 10.10	5				100	PDI-084SC-A-04 -05-191002	MDL. Use Custom Spike. mud			
9	A0B0679-06	A	8081B 2,4+4,4-DDx Only (+Add)	02/26/20 08:03	~~10~~ 10.35	5				100	PDI-084SC-A-05 -06-191002	MDL. Use Custom Spike. mud			
10	A0B0679-07	A	8081B 2,4+4,4-DDx Only (+Add)	02/26/20 08:03	~~10~~ 10.75	5				100	PDI-084SC-A-06 -07-191002	MDL. Use Custom Spike. mud			
11	A0B0679-08	A	8081B 2,4+4,4-DDx Only (+Add)	02/26/20 08:03	~~10~~ 10.12	5				100	PDI-084SC-A-07 -08-191002	MDL. Use Custom Spike. mud			
12	A0B0679-09	A	8081B 2,4+4,4-DDx Only (+Add)	02/26/20 08:03	~~10~~ 10.30	5				100	PDI-084SC-A-08 -09-191002	MDL. Use Custom Spike. mud			
13	A0B0679-10	A	8081B 2,4+4,4-DDx Only (+Add)	02/26/20 08:03	~~10~~ 10.04	5				100	PDI-084SC-A-09 -10-191002	MDL. Use Custom Spike. mud (S)			
14	A0B0679-11	A	8081B 2,4+4,4-DDx Only (+Add)	02/26/20 08:03	~~10~~ 10.51	5				100	PDI-084SC-A-10 -11-191002	MDL. Use Custom Spike. mud (S)			
15	A0B0679-12	A	8081B 2,4+4,4-DDx Only (+Add)	02/26/20 08:03	~~10~~ 10.53	5				100	PDI-084SC-A-11 -12-191002	MDL. Use Custom Spike. mud (S)			
16	A0B0679-13	A	8081B 2,4+4,4-DDx Only (+Add)	02/26/20 08:03	~~10~~ 10.37	5				100	PDI-084SC-A-12 -13-191002	MDL. Use Custom Spike. mud			
17	A0B0679-14	A	8081B 2,4+4,4-DDx Only (+Add)	02/26/20 08:03	~~10~~ 10.16	5				100	PDI-084SC-A-13 -14-191002	MDL. Use Custom Spike. mud			
18	A0B0679-15	A	8081B 2,4+4,4-DDx Only (+Add)	02/26/20 08:03	~~10~~ 10.26	5				100	PDI-084SC-A-14 -15-191002	MDL. Use Custom Spike. mud			
19	A0B0680-01	A	8081B 2,4+4,4-DDx Only (+Add)	02/26/20 08:03	~~10~~ 10.33	5				100	PDI-049SC-A-03 -04-191015	MDL. Use Custom Spike. mud (S)			

JAG 2/26/2020
Prepared By: Date

MJB 3/2/20
Reviewed By: Date

AJG 2-26

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0020784 (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
20	A0B0680-02	A	8081B 2,4+4,4-DDx Only (+Add)	02/26/20 08:03	~~10~~ 10.23	5				100	PDI-049SC-A-04-05-191015	MDL. Use Custom Spike. mud (S)			
21	A0B0680-03	A	8081B 2,4+4,4-DDx Only (+Add)	02/26/20 08:03	~~10~~ 10.47	5				100	PDI-049SC-A-05-06-191015	MDL. Use Custom Spike mud (S)			
22	A0B0680-04	A	8081B 2,4+4,4-DDx Only (+Add)	02/26/20 08:03	~~10~~ 10.43	5				100	PDI-049SC-A-06-07-191015	MDL. Use Custom Spike. mud			
23	0020784-MS1		QC	02/26/20 08:03	~~10~~ 10.38	5	A20A310	A0B0680-04	100	100		mud			
24	0020784-MSD1		QC	02/26/20 08:03	~~10~~ 10.46	5	A20A310	A0B0680-04	100 JAG 2-26-20	100		mud			
25	A0B0680-05	A	8081B 2,4+4,4-DDx Only (+Add)	02/26/20 08:03	~~10~~ 10.71	5				100	PDI-049SC-A-07-08-191015	MDL. Use Custom Spike. 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
~~A20A032~~	~~06/30/23~~	~~n-Hexane Lot# 197051~~ AJJ 2-26-20
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: JAG

Witness: AJJ 2-26-20

(S) = Staining on turbovap tube AJJ 2/26/20

Prepared By: AJJ Date 2-26-20

Reviewed By: Date

APEX LABORATORIES

ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence: **0B28030** Instrument: **DUALECD8**

Date: **02/28/20 11:11** Calibration: **A0B0404**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0B28030-BKD1	Sediment	QC	QC				A20A019
2	0B28030-CCV1	Sediment	QC	QC				A19K133
3	0B28030-BKD2	Sediment	QC	QC				A20A019
4	0B28030-BKD3	Sediment	QC	QC				A20A019
5	0B28030-CCV2	Sediment	QC	QC				A19K133
6	0B28030-CCV3	Sediment	QC	QC				A19J408
7	0B28030-CCB1	Sediment	QC	QC				A20B383
8	A0B0679-13RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	02/28/20	0020808		
9	A0B0679-14RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	02/28/20	0020808		
10	A0B0679-15RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	02/28/20	0020808		
11	A0B0680-05RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	02/28/20	0020808		
12	A0B0679-12RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	02/28/20	0020808		
13	0B28030-IBL1	Sediment	QC	QC				
14	A0B0679-11RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	02/28/20	0020808		
15	0B28030-IBL2	Sediment	QC	QC				
16	0B28030-CCV4	Sediment	QC	QC				A19K134
17	0B28030-CCV5	Sediment	QC	QC				A19J409
18	0B28030-CCB2	Sediment	QC	QC				A20B383
19	A0B0680-04RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	02/28/20	0020808		
20	0B28030-IBL3	Sediment	QC	QC				
21	0020808-MS1	Sediment	QC	QC		0020808		
22	0B28030-IBL4	Sediment	QC	QC				
23	0020808-MSD1	Sediment	QC	QC		0020808		
24	0B28030-IBL5	Sediment	QC	QC				
25	A0B0680-01RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	02/28/20	0020808		
26	0B28030-IBL6	Sediment	QC	QC				
27	A0B0680-02RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	02/28/20	0020808		
28	0B28030-IBL7	Sediment	QC	QC				
29	A0B0680-03RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	02/28/20	0020808		
30	0B28030-IBL8	Sediment	QC	QC				
31	A0B0679-09RE2	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	02/28/20	0020808		
32	0B28030-CCV6	Sediment	QC	QC				A19K133
33	0B28030-CCV7	Sediment	QC	QC				A19J408
34	0B28030-CCB3	Sediment	QC	QC				A20B383

Comments:

Data Entered By: MJB 3/2/20

Data Reviewed By: MJB 3/3/20

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B28030\
Data File : ECD8-02282003.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2020 11:54
Operator : MJB
Sample : 0B28030-BKD1
Misc : A20A019
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 28 12:09:19 2020
Quant Method : C:\msdchem\1\methods\PestBreakdownCHK_200201RT7.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	7.503	19236772	NoCal	ng/mL
2)	Endrin	7.861	1741974038	NoCal	ng/mL
3)	4,4'-DDD	7.919	57958101	NoCal	ng/mL
4)	4,4'-DDT	8.115	3060268459	NoCal	ng/mL
5)	Endrin Aldehyde	8.305	80627836	NoCal	ng/mL
6)	Endrin Ketone	8.798	71258984	NoCal	ng/mL
8)	4,4'-DDE [2C]	8.363	28652877	NoCal	ng/mL
9)	Endrin [2C]	8.735	1613115942	NoCal	ng/mL
10)	4,4'-DDD [2C]	8.777	54752634	NoCal	ng/mL
11)	Endrin Aldehyde [2C]	9.118	56758399	NoCal	ng/mL
12)	4,4'-DDT [2C]	9.002	3311992862	NoCal	ng/mL
13)	Endrin Ketone [2C]	9.709	171133290	NoCal	ng/mL

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

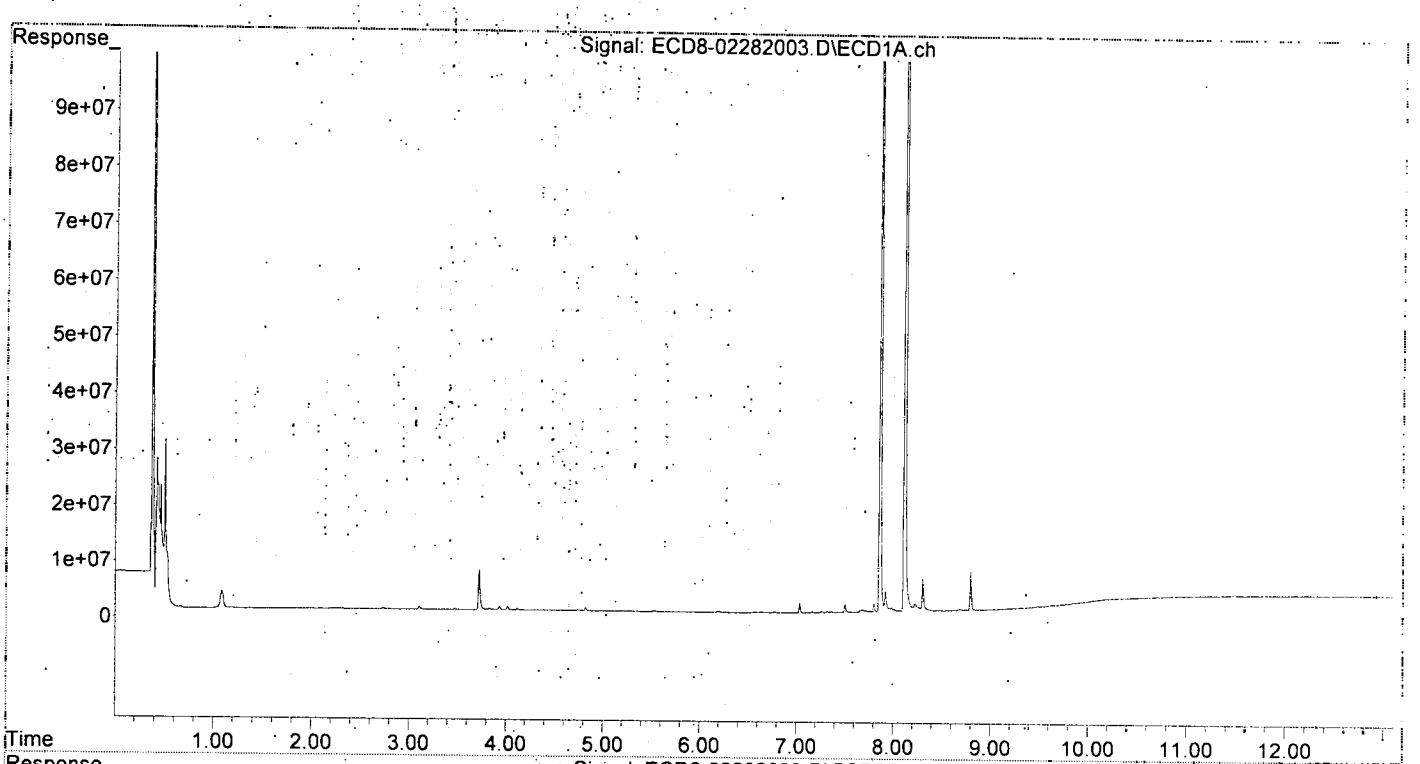
Rear Base line maintenance performed. Changed

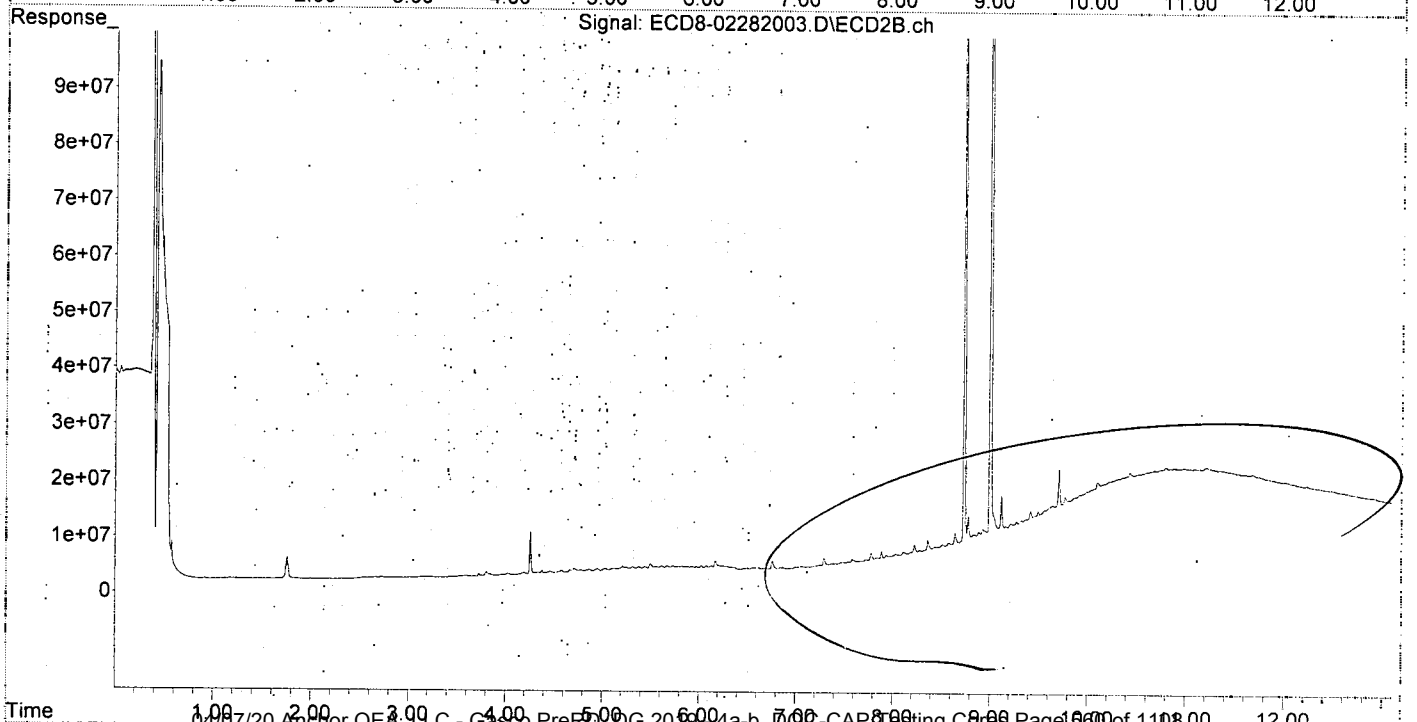
MJB 3/2/20

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B28030\
Data File : ECD8-02282003.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2020 11:54
Operator : MJB
Sample : 0B28030-BKD1
Misc : A20A019
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 28 12:09:19 2020
Quant Method : C:\msdchem\1\methods\PestBreakdownCHK_200201RT7.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\0B28030\
Data File : ECD8-02282004.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2020 12:10
Operator : MJB
Sample : 0B28030-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: Mar 02 10:44:47 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

Q-14

MJB 3/2/20

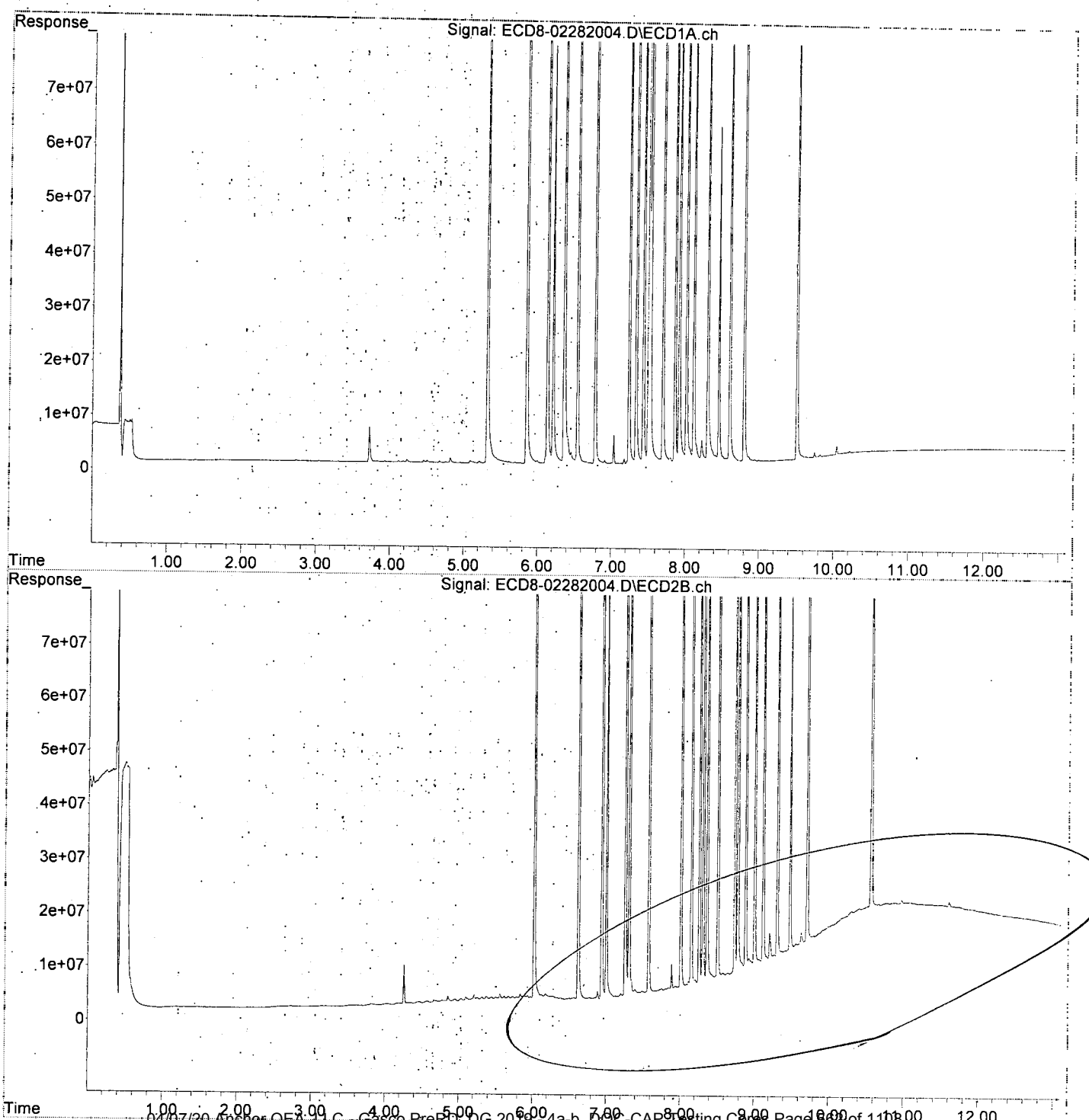
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S TCMX (S)	5.316	6.020	153.1E6	174.6E6	43.793	50.623
22)	S DCBP (S)	9.508	10.565	134.9E6	152.1E6	51.282	69.669 #
	Target Compounds						
2)	a-BHC	5.850	6.619	233.5E6	255.2E6	49.429	54.187
3)	g-BHC	6.132	6.936	209.2E6	224.6E6	50.259	53.160
4)	b-BHC	6.209	7.000	77534783	87722185	44.518	50.530
5)	Heptachlor	6.542	7.308	201.8E6	226.3E6	49.091	53.743
6)	d-BHC	6.357	7.254	169.9E6	201.1E6	46.602	51.880
7)	Aldrin	6.781	7.574	212.6E6	215.6E6	52.613	53.414
8)	Heptachlo...	7.239	8.010	191.7E6	198.9E6	51.905	55.397
9)	trans-Chl...	7.335	8.149	190.3E6	199.7E6	50.601	53.719
10)	cis-Chlor...	7.432	8.256	187.4E6	193.7E6	51.038	54.994
11)	Endosulfa...	7.526	8.307	180.0E6	177.0E6	51.900	53.569
12)	4,4'-DDE	7.500	8.360	168.0E6	180.5E6	50.578	52.533
13)	Dieldrin	7.698	8.507	196.1E6	203.7E6	51.436	53.980
14)	Endrin	7.861	8.735	162.2E6	159.0E6	49.705	51.124
15)	4,4'-DDD	7.917	8.776	126.9E6	144.7E6	49.875	54.130
16)	Endosulfa...	8.016	8.882	143.9E6	161.1E6	48.104	55.477
17)	4,4'-DDT	8.115	9.002	141.3E6	154.8E6	52.568	55.290
18)	Endrin Al...	8.304	9.117	126.7E6	139.6E6	48.118	52.813
19)	Endosulfa...	8.603	9.308	136.0E6	148.6E6	47.520	54.053
20)	Methoxychlor	8.456	9.479	62360121	75052904	51.681	60.998
21)	Endrin Ke...	8.797	9.709	169.8E6	178.1E6	49.111	56.990
23)	Hexachlor...	3.115	3.729	55322	39972	0.014	0.008 #
24)	Hexachlor...	5.700	6.483	257591	168192	0.077	0.004 #
25)	Oxychlordane	7.177	7.936	987052	427458	0.142	0.134
26)	2,4'-DDE	7.239	8.149	191.7E6	199.7E6	82.901	87.878
27)	trans-Non...	7.432	8.210	187.4E6	926090	51.123	0.257 #
28)	2,4'-DDD	7.658f	8.507	804879	203.7E6	0.416	106.396 #
29)	2,4'-DDT	7.802	8.735	984443	159.0E6	0.411	66.297 #
30)	cis-Nonac...	7.917	8.776	126.9E6	144.7E6	31.191	36.301
31)	Mirex	8.546f	9.709	706725	178.1E6	0.085	82.194 #
32)	Chlordane...	0.000	8.210f	0	926090	N.D.	2.132 #
33)	Chlordane...	7.500f	8.307	168.0E6	177.0E6	345.359	486.980 #
34)	Chlordane...	8.016	8.926f	143.9E6	3279940	1105.292	27.619 #
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36)	Toxaphene...	7.500	8.555	168.0E6	1169228	10260.460	39.677 #
37)	Toxaphene...	7.802f	8.882	984443	161.1E6	31.336	4007.771 #
38)	Toxaphene...	8.115f	8.926	141.3E6	3279940	2047.667	50.697 #
39)	Toxaphene...	8.304f	9.002	126.7E6	154.8E6	1908.143	1449.026
40)	Toxaphene...	8.546	9.165	706725	3170722	13.039	55.307 #
41)	Toxaphene...	8.603	9.561	136.0E6	4668944	1788.325	70.684 #
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\0B28030\
Data File : ECD8-02282004.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2020 12:10
Operator : MJB
Sample : 0B28030-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: Mar 02 10:44:47 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.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\0B28030\
Data File : ECD8-02282006.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2020 13:05
Operator : MJB
Sample : 0B28030-BKD2
Misc : A20A019
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Mar 02 10:45:03 2020
Quant Method : C:\msdchem\1\methods\PestBreakdownCHK_200201RT7.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	7.497	20243106	NoCal	ng/mL
2)	Endrin	7.855	1609419733	NoCal	ng/mL
3)	4,4'-DDD	7.913	36232178	NoCal	ng/mL
4)	4,4'-DDT	8.107	2778884006	NoCal	ng/mL
5)	Endrin Aldehyde	8.298	89330261	NoCal	ng/mL
6)	Endrin Ketone	8.789	58491140	NoCal	ng/mL
8)	4,4'-DDE [2C]	8.363	38811758	NoCal	ng/mL
9)	Endrin [2C]	8.731	1573518987	NoCal	ng/mL
10)	4,4'-DDD [2C]	8.774	43043496	NoCal	ng/mL
11)	Endrin Aldehyde [2C]	9.114	55141200	NoCal	ng/mL
12)	4,4'-DDT [2C]	8.998	3217291978	NoCal	ng/mL
13)	Endrin Ketone [2C]	9.705	115644167	NoCal	ng/mL

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

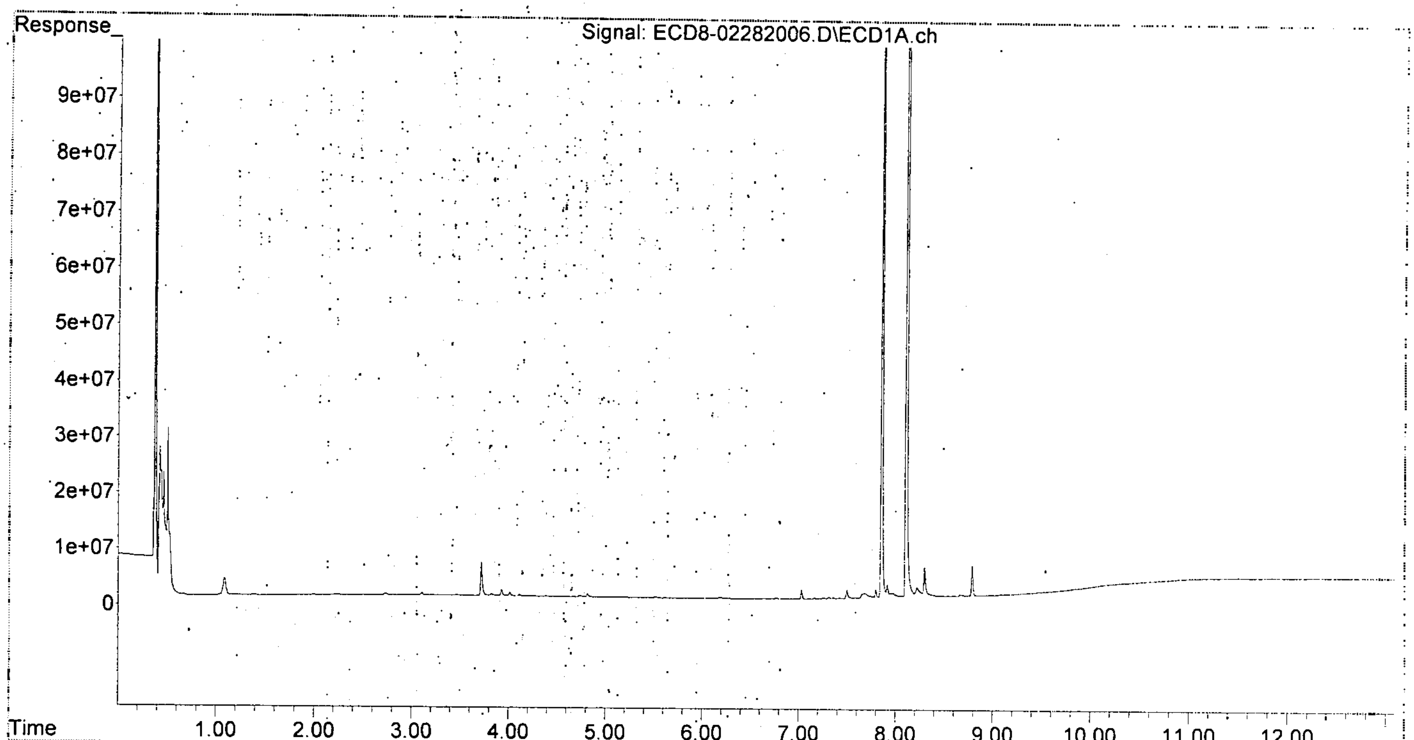
Replaced y-splitter. New Baseline still not normal. ~~Maintenance~~ MJB 3/2/20 maintenance performed

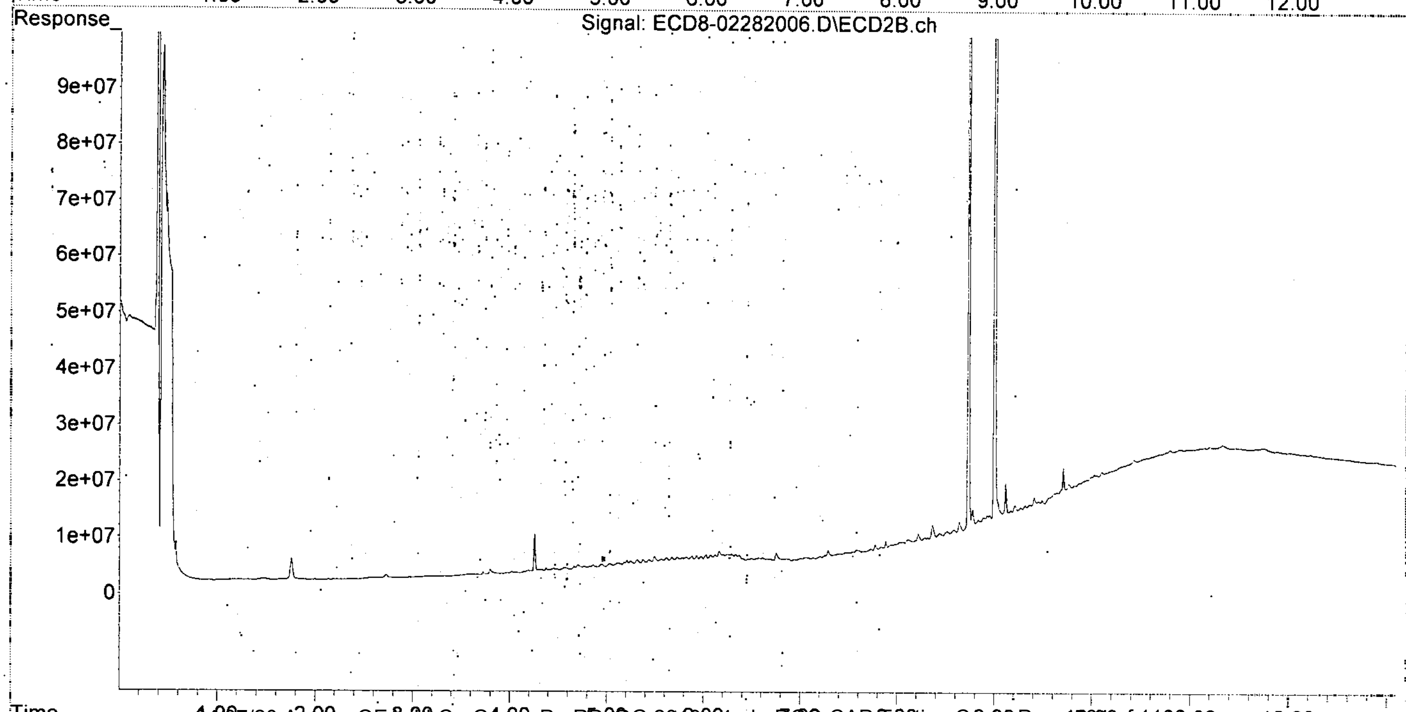
MJB 3/2/20

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B28030\
Data File : ECD8-02282006.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2020 13:05
Operator : MJB
Sample : 0B28030-BKD2
Misc : A20A019
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Mar 02 10:45:03 2020
Quant Method : C:\msdchem\1\methods\PestBreakdownCHK_200201RT7.M
Quant Title : Pesticides
QLast Update : Fri Nov 09 13:28:51 2018
Response via : Initial Calibration
Integrator: ChemStation





Pesticide Breakdown Check (Validated 8/8/2013)

Sequence: 0B28030 BKD3
Data File: ECD8-02282007.D

First Column Area Counts		Percent Breakdown	
DDE	19986506		
DDD	32918083		
DDT	2756081572	**1.88**	**PASS**
Endrin	1624627571	**7.39**	**PASS**
Endrin Aldehyde	76635788		
Endrin Ketone	52964857		

Second Column Area Counts		Percent Breakdown	
DDE	29379820		
DDD	37244977		
DDT	2860165452	**2.28**	**PASS**
Endrin	1512895381	**5.33**	**PASS**
Endrin Aldehyde	42154201		
Endrin Ketone	43096247		

Breakdown must be less than 15% to accept sample data.

MB 3/21/20

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B28030\
Data File : ECD8-02282007.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2020 13:34
Operator : MJB
Sample : 0B28030-BKD3
Misc : A20A019
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 28 13:49:06 2020
Quant Method : C:\msdchem\1\methods\PestBreakdownCHK_200201RT7.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	7.512	19986506	NoCal	ng/mL
2)	Endrin	7.872	1624627571	NoCal	ng/mL
3)	4,4'-DDD	7.931	32918083	NoCal	ng/mL
4)	4,4'-DDT	8.126	2756081572	NoCal	ng/mL
5)	Endrin Aldehyde	8.318	76635788	NoCal	ng/mL
6)	Endrin Ketone	8.811	52964857	NoCal	ng/mL
8)	4,4'-DDE [2C]	8.371	29379820	NoCal	ng/mL
9)	Endrin [2C]	8.741	1512895381	NoCal	ng/mL
10)	4,4'-DDD [2C]	8.784	37244977	NoCal	ng/mL
11)	Endrin Aldehyde [2C]	9.125	42154201	NoCal	ng/mL
12)	4,4'-DDT [2C]	9.009	2860165452	NoCal	ng/mL
13)	Endrin Ketone [2C]	9.717	43096247	NoCal	ng/mL

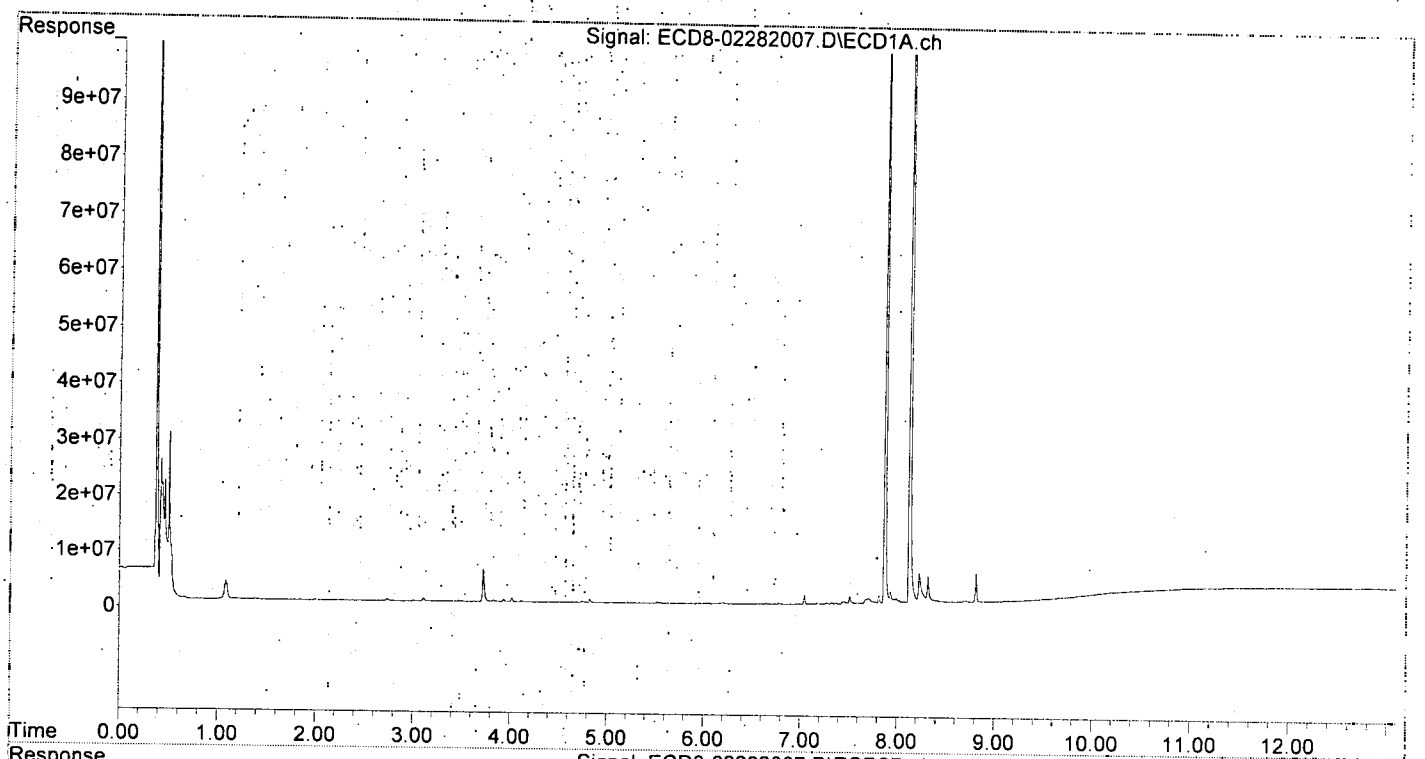
(f)=RT Delta > 1/2 Window (m)=manual int.

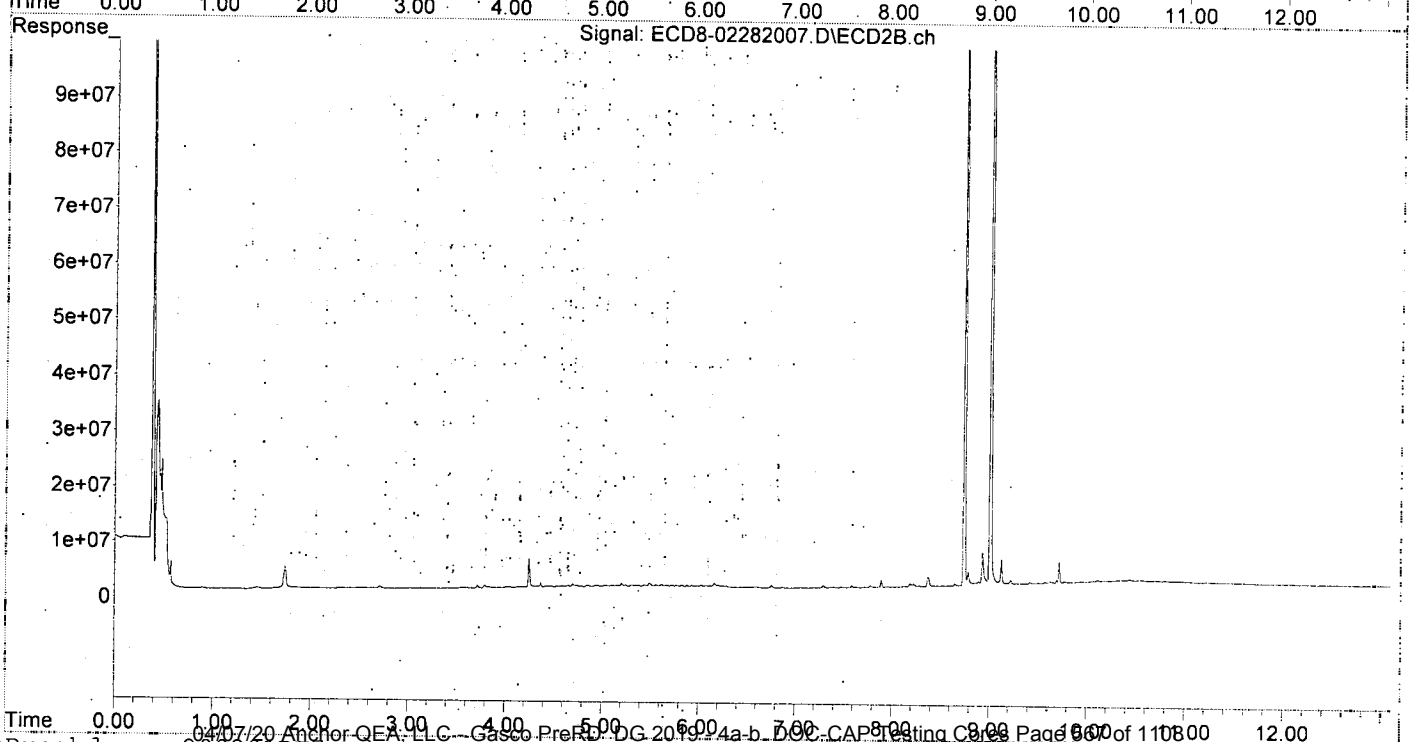
Trybrencid Rear Detector
2nd
MJB 3/28/20

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B28030\
Data File : ECD8-02282007.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2020 13:34
Operator : MJB
Sample : 0B28030-BKD3
Misc : A20A019
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 28 13:49:06 2020
Quant Method : C:\msdchem\1\methods\PestBreakdownCHK_200201RT7.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\0B28030\
Data File : ECD8-02282008.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2020 13:51
Operator : MJB
Sample : 0B28030-CCV2
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: Mar 02 10:52:51 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 3/2/20

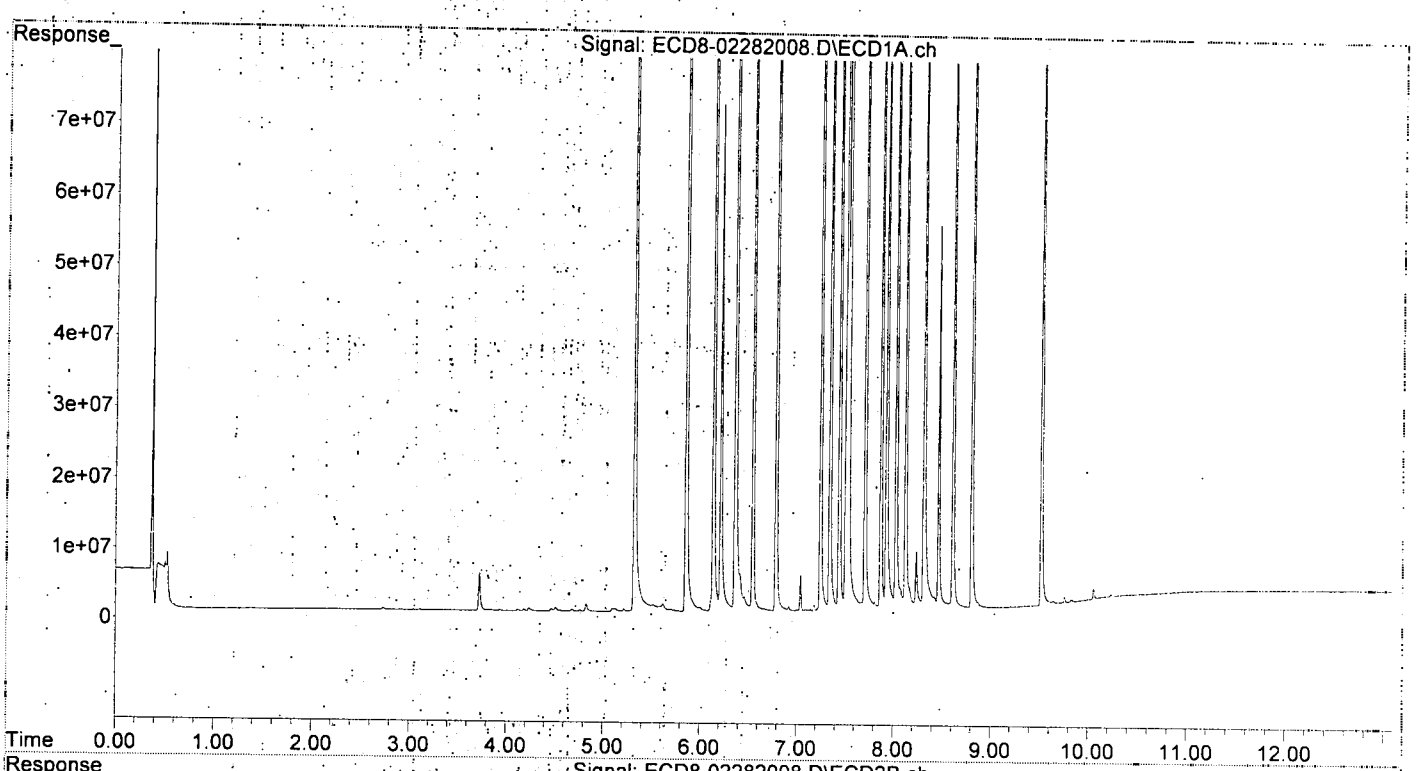
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.322	6.023	142.7E6	170.8E6	40.803	49.506	
22)	S DCBP (S)	9.520	10.572	133.5E6	125.3E6	50.746	57.985	
	Target Compounds							
2)	a-BHC	5.856	6.622	219.7E6	239.8E6	46.506	51.191	
3)	g-BHC	6.138	6.940	198.3E6	208.6E6	47.634	49.628	
4)	b-BHC	6.215	7.004	71984589	82389021	41.331	47.458	
5)	Heptachlor	6.548	7.313	181.2E6	186.1E6	44.092	44.194	
6)	d-BHC	6.364	7.258	153.4E6	179.3E6	42.312	46.730	
7)	Aldrin	6.788	7.579	204.7E6	211.6E6	50.672	52.474	
8)	Heptachlo...	7.246	8.015	179.5E6	186.5E6	48.605	51.962	
9)	trans-Chl...	7.343	8.155	182.1E6	193.2E6	48.422	51.971	
10)	cis-Chlor...	7.440	8.262	183.4E6	182.7E6	49.940	51.861	
11)	Endosulfa...	7.534	8.313	172.3E6	172.9E6	49.675	52.318	
12)	4,4'-DDE	7.508	8.367	161.5E6	175.8E6	48.643	51.279	
13)	Dieldrin	7.705	8.513	192.0E6	200.2E6	50.340	53.133	
14)	Endrin	7.868	8.740	156.8E6	149.6E6	48.036	48.307	
15)	4,4'-DDD	7.926	8.783	113.5E6	128.0E6	44.614	48.530	
16)	Endosulfa...	8.025	8.888	135.1E6	148.8E6	45.164	51.571	
17)	4,4'-DDT	8.123	9.008	128.2E6	140.6E6	47.692	50.740	
18)	Endrin Al...	8.313	9.124	113.9E6	133.7E6	43.254	50.574	
19)	Endosulfa...	8.612	9.315	123.6E6	132.2E6	43.173	48.535	
20)	Methoxychlor	8.465	9.486	54565175	63747022	45.221	52.734	
21)	Endrin Ke...	8.806	9.716	146.8E6	127.0E6	42.485	41.641	
23)	Hexachlor...	3.114	3.727	67256	114974	0.017	0.024	#
24)	Hexachlor...	5.706	6.508	311565	160278	0.093	0.001	#
25)	Oxychlordane	7.184	7.930	901550	174477	0.114	0.055	#
26)	2,4'-DDE	7.246	8.155	179.5E6	193.2E6	77.630	85.019	
27)	trans-Non...	7.440	8.215	183.4E6	664057	50.023	0.184	#
28)	2,4'-DDD	0.000	8.513	0	200.2E6	N.D.	104.605	#
29)	2,4'-DDT	7.810	8.740	1169418	149.6E6	0.489	62.752	#
30)	cis-Nonac...	7.926f	8.783	113.5E6	128.0E6	27.901	32.112	
31)	Mirex	8.552	9.716	834278	127.0E6	0.138	59.230	#
32)	Chlordane...	7.343f	8.215f	182.1E6	664057	454.685	1.528	#
33)	Chlordane...	7.508f	8.313	161.5E6	172.9E6	332.146	475.610	#
34)	Chlordane...	8.025	8.969	135.1E6	1193130	1037.747	10.047	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.508f	8.585f	161.5E6	329115	9867.915	11.168	#
37)	Toxaphene...	7.810f	8.888	1169418	148.8E6	37.224	3701.577	#
38)	Toxaphene...	8.123f	8.937	128.2E6	1748039	1853.641	27.019	#
39)	Toxaphene...	8.313	9.008	113.9E6	140.6E6	1717.891	1326.735	
40)	Toxaphene...	8.552	0.000	834278	0	15.392	N.D.	#
41)	Toxaphene...	8.612	9.570	123.6E6	1186007	1624.752	17.955	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

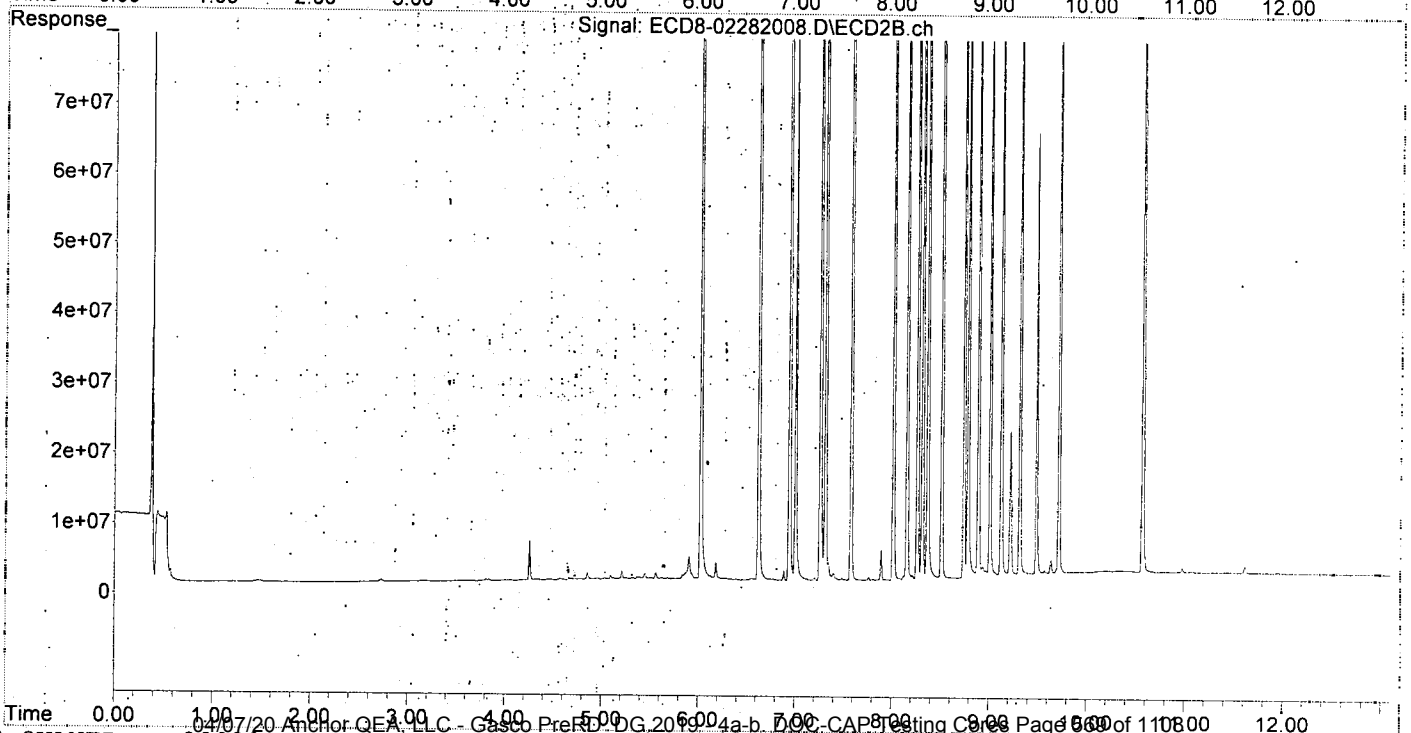
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B28030\
Data File : ECD8-02282008.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2020 13:51
Operator : MJB
Sample : 0B28030-CCV2
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: Mar 02 10:52:51 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.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\0B28030\
Data File : ECD8-02282009.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2020 14:08
Operator : MJB
Sample : 0B28030-CCV3
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: Mar 02 10:52:56 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 3/2/20

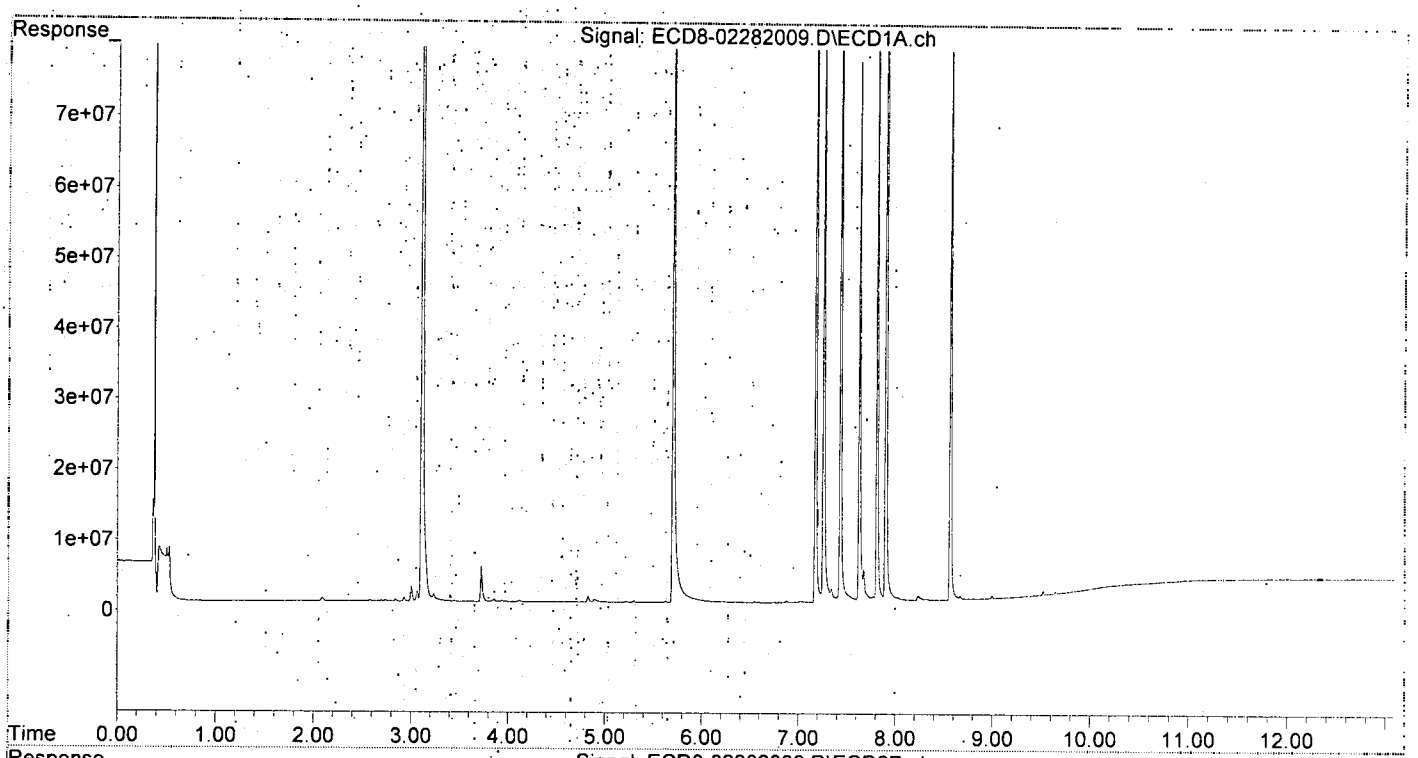
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.299f	6.032	253415	477145	0.072	0.138	#
22)	S DCBP (S)	9.521	10.573	742323	1105135	BelowCal	0.039	
	Target Compounds							
2)	a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)	g-BHC	6.117f	0.000	61900	0	0.015	N.D.	#
4)	b-BHC	6.219	7.007	126140	93093	0.072	0.054	#
5)	Heptachlor	6.550	7.313	193779	142607	0.047	0.034	#
6)	d-BHC	6.374	7.270	27809	66002	0.115	0.116	
7)	Aldrin	6.789	7.571	13910	29196	0.003	0.020	#
8)	Heptachlo...	7.259	8.014	94076310	408412	25.475	0.114	#
9)	trans-Chl...	7.343	8.146	1991121	98608146	0.529	26.519	#
10)	cis-Chlor...	7.434	0.000	153.1E6	0	41.697	N.D.	#
11)	Endosulfa...	0.000	8.321	0	258272	N.D.	0.078	#
12)	4,4'-DDE	0.000	8.361	0	172306	N.D.	0.144	#
13)	Dieldrin	7.675f	8.519	4619795	80539135	1.211	22.318	#
14)	Endrin	7.901f	8.742	166.6E6	96077895	51.061	31.806	#
15)	4,4'-DDD	7.901f	8.782	166.6E6	174.8E6	65.480	63.923	
16)	Endosulfa...	8.026	8.890	579480	326429	0.194	0.093	#
17)	4,4'-DDT	8.127	9.012	187139	329692	0.070	0.109	#
18)	Endrin Al...	8.318	9.127	210331	321601	0.080	0.122	#
19)	Endosulfa...	0.000	9.316	0	317933	N.D.	0.038	#
20)	Methoxychlor	0.000	9.486	0	347036	N.D.	BelowCal	
21)	Endrin Ke...	8.809	9.708	79047	100.0E6	0.023	33.252	#
23)	Hexachlor...	3.111	3.728	167.9E6	209.8E6	43.074	43.330	
24)	Hexachlor...	5.703	6.490	119.4E6	154.7E6	35.525	49.484	#
25)	Oxychlordane	7.177	7.945	133.7E6	140.0E6	43.083	43.775	
26)	2,4'-DDE	7.259	8.146	94076310	98608146	40.689	43.382	
27)	trans-Non...	7.434	8.218	153.1E6	154.0E6	41.766	42.672	
28)	2,4'-DDD	7.629	8.519	76797037	80539135	39.652	42.073	
29)	2,4'-DDT	7.810	8.742	92862178	96077895	38.804	41.767	
30)	cis-Nonac...	7.901	8.782	166.6E6	174.8E6	40.950	43.863	
31)	Mirex	8.568	9.708	104.0E6	100.0E6	42.964	46.928	
32)	Chlordane...	7.343f	8.218f	1991121	154.0E6	4.972	354.511	#
33)	Chlordane...	0.000	8.321f	0	258272	N.D.	0.710	#
34)	Chlordane...	8.026	8.942	579480	996388	4.451	8.390	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	0.000	8.519f	0	80539135	N.D.	2733.016	#
37)	Toxaphene...	7.780	8.890	778078	326429	24.767	8.122	#
38)	Toxaphene...	8.127f	8.942	187139	996388	96751.278	15.401	#
39)	Toxaphene...	8.318	8.998	210331	319312	BelowCal	BelowCal	
40)	Toxaphene...	8.568	9.177	104.0E6	259802	1918.971	4.532	#
41)	Toxaphene...	0.000	9.538	0	347460	N.D.	5.260	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

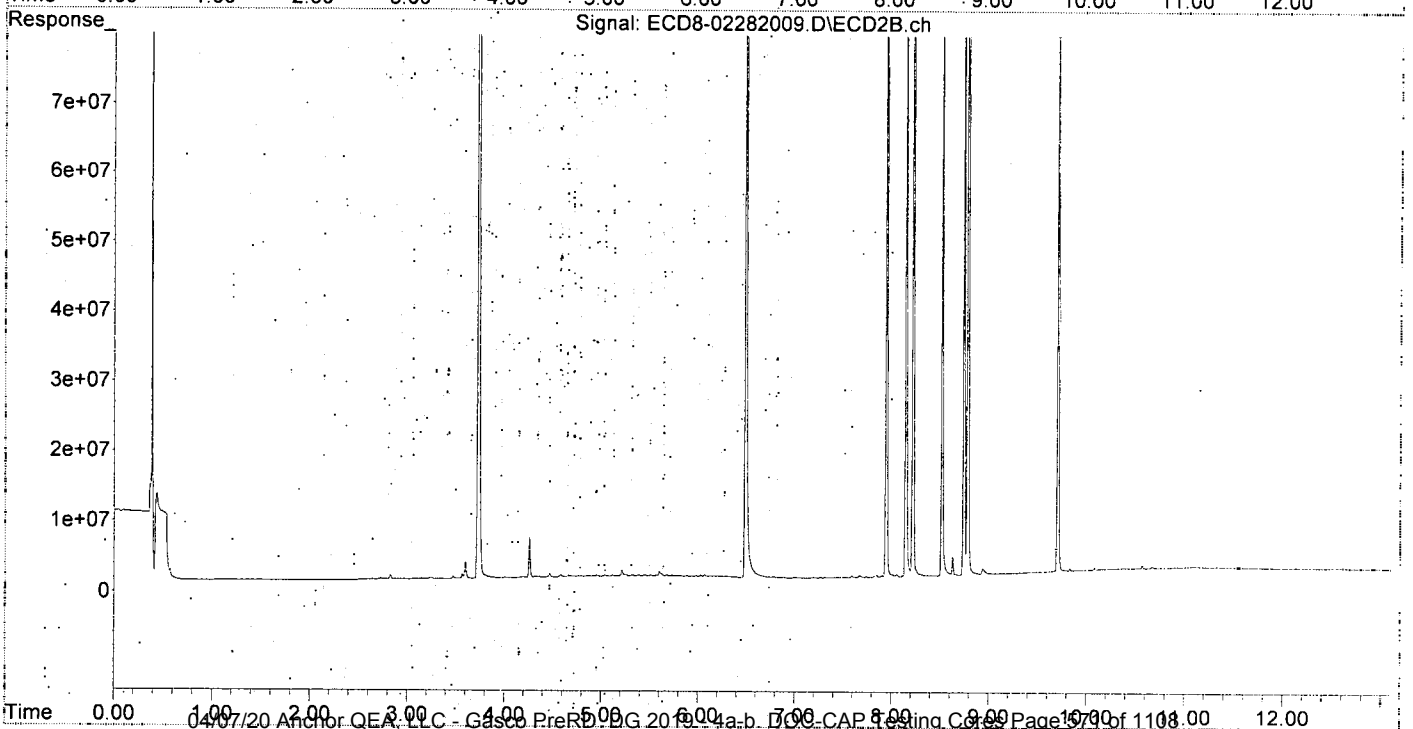
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B28030\
Data File : ECD8-02282009.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2020 14:08
Operator : MJB
Sample : 0B28030-CCV3
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: Mar 02 10:52:56 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.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\0B28030\
Data File : ECD8-02282010.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2020 14:24
Operator : MJB
Sample : 0B28030-CCB1
Misc : A20B383
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Mar 02 10:53:00 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 3/2/20

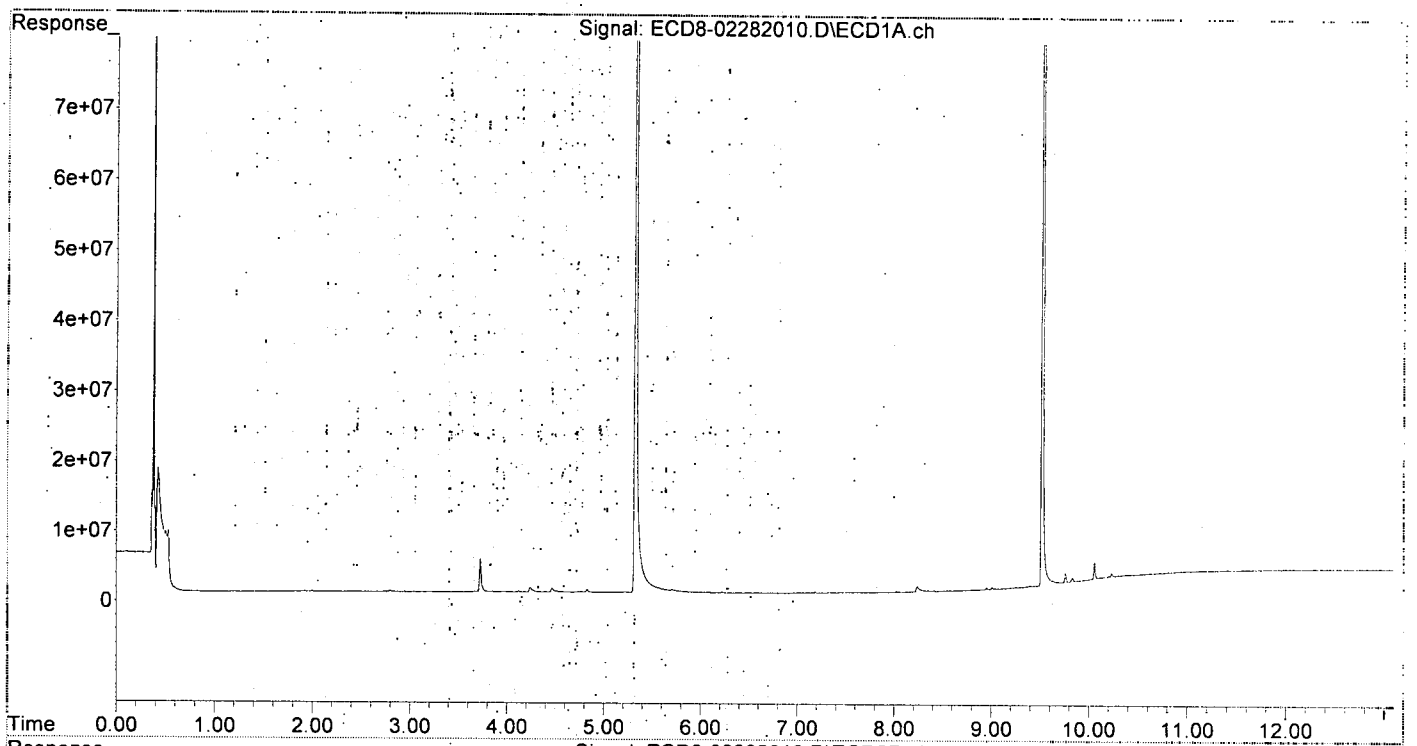
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.322	6.024	262.6E6	326.8E6	75.113	94.731	#
22)	S	DCBP (S)	9.519	10.572	241.8E6	225.1E6	90.534	100.284	
		Target Compounds							
2)		a-BHC	0.000	6.584f	0	186367	N.D.	0.119	#
3)		g-BHC	0.000	0.000	0	0	N.D.	N.D.	
4)		b-BHC	6.224	7.006	115012	61517	0.066	0.035	#
5)		Heptachlor	0.000	7.275f	0	71488	N.D.	0.017	#
6)		d-BHC	0.000	7.275	0	71488	N.D.	0.118	#
7)		Aldrin	0.000	7.567	0	44940	N.D.	0.024	#
8)		Heptachlo...	7.216f	8.022	11862	32643	0.003	0.009	#
9)		trans-Chl...	7.346	8.156	65608	51958	0.017	0.014	
10)		cis-Chlor...	7.438	8.264	47512	42961	0.013	0.012	
11)		Endosulfa...	0.000	8.313	0	32342	N.D.	0.010	#
12)		4,4'-DDE	7.491	8.385	33479	48730	0.010	0.104	#
13)		Dieldrin	7.686	8.501	25235	21268	0.007	0.038	#
14)		Endrin	7.868	8.738	10423	34280	0.003	0.004	#
15)		4,4'-DDD	7.923	8.785	6653	61870	0.003	0.069	#
16)		Endosulfa...	8.027	8.900	151865	53002	0.051	BelowCal	#
17)		4,4'-DDT	8.133	9.010	13289	128193	0.005	0.027	#
18)		Endrin Al...	8.314	9.123	213006	112528	0.081	0.043	#
19)		Endosulfa...	8.614	9.325	49691	69998	0.017	BelowCal	#
20)		Methoxychlor	8.465	9.477	101643	113731	0.084	BelowCal	#
21)		Endrin Ke...	8.812	9.715	26964	226056	0.008	BelowCal	#
23)		Hexachlor...	3.116	3.718	53324	9150	0.014	0.002	#
24)		Hexachlor...	5.708	6.509	393815	200159	0.117	0.015	#
25)		Oxychlordane	7.184	7.948	163150	79465	BelowCal	0.025	
26)		2,4'-DDE	0.000	8.149	0	57946	N.D.	0.025	#
27)		trans-Non...	7.438	8.216	47512	98613	0.013	0.027	#
28)		2,4'-DDD	7.632	8.532	15039	64515	0.008	0.034	#
29)		2,4'-DDT	7.819	8.743	12179	30230	0.005	BelowCal	#
30)		cis-Nonac...	7.905	8.785	20512	61870	0.005	0.016	#
31)		Mirex	8.572	9.715	94560	226056	8199.090	BelowCal	#
32)		Chlordane...	7.346f	8.216f	65608	98613	0.164	0.227	#
33)		Chlordane...	7.471	8.300	33708	43245	0.069	0.119	#
34)		Chlordane...	8.027	8.941	151865	881761	1.166	7.425	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.481	8.532	36210	64515	2.212	2.189	
37)		Toxaphene...	7.770	8.900	6281	53002	0.200	1.319	#
38)		Toxaphene...	8.084	8.941	9876	881761	96753.796	13.629	#
39)		Toxaphene...	8.314	9.010	213006	128193	BelowCal	BelowCal	
40)		Toxaphene...	8.572	9.183	94560	60449	1.745	1.054	#
41)		Toxaphene...	8.614	9.567	49691	166867	0.653	2.526	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

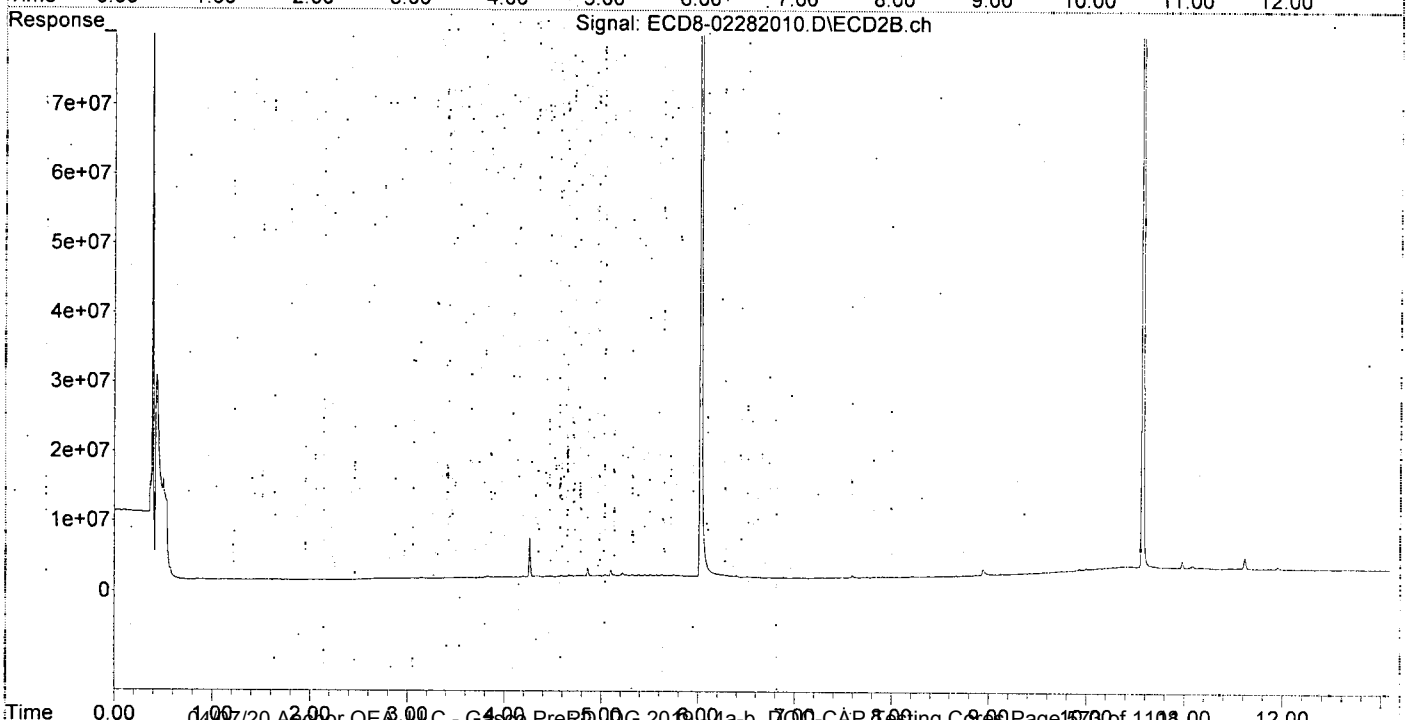
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B28030\
Data File : ECD8-02282010.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2020 14:24
Operator : MJB
Sample : 0B28030-CCB1
Misc : A20B383
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Mar 02 10:53:00 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.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\0B28030\
Data File : ECD8-02282014.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2020 15:32
Operator : MJB
Sample : A0B0680-05RE1
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: Mar 02 10:53:16 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 3/2/20

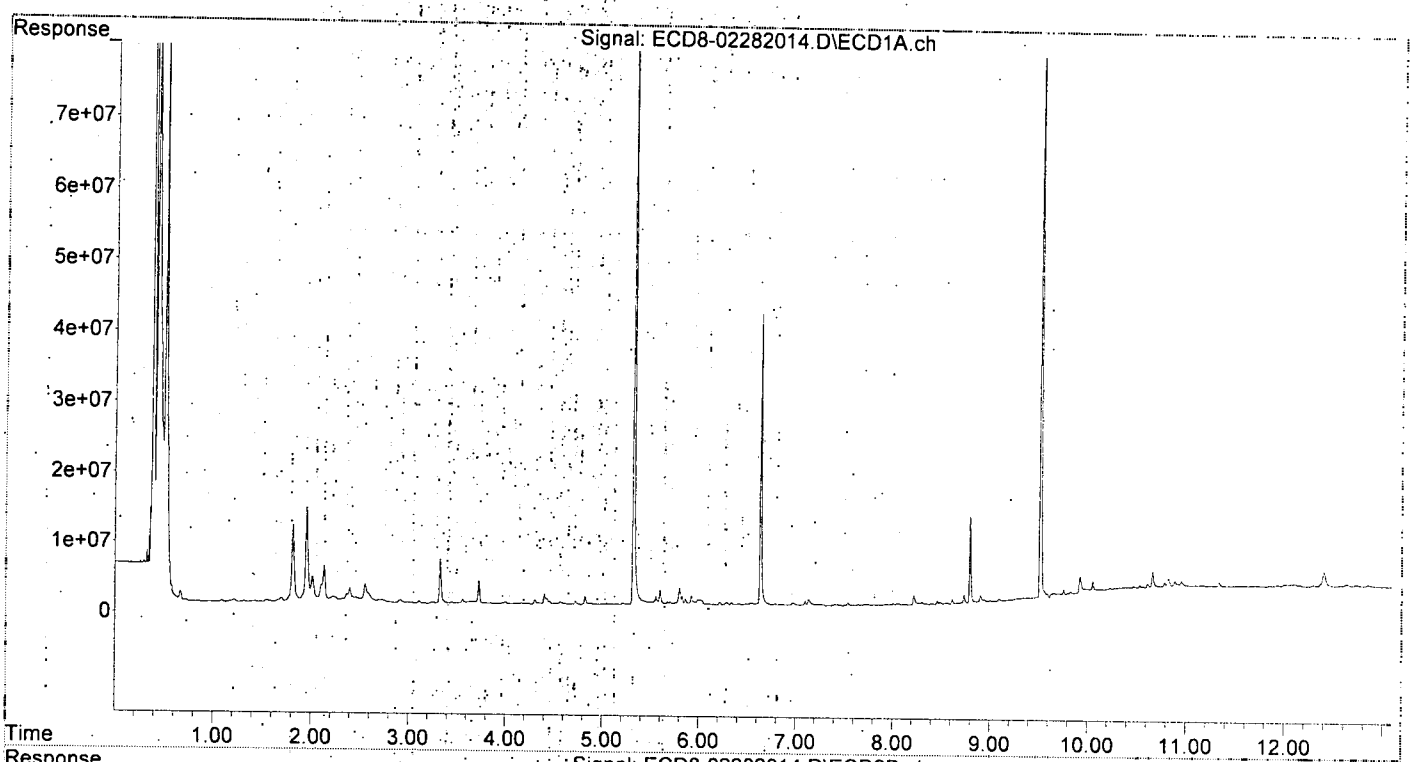
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.322	6.022	99401571	116.9E6	28.432	33.883	
22)	S DCBP (S)	9.517	10.570	111.2E6	94942948	42.388	44.431	
	Target Compounds							
2)	a-BHC	5.861	6.630	889876	358586	0.188	0.160	
3)	g-BHC	6.144	6.909f	176649	680723	0.042	0.217	#
4)	b-BHC	6.216	6.986	507566	199307	0.291	0.115	#
5)	Heptachlor	6.536	7.281f	397920	141585	0.097	0.034	#
6)	d-BHC	6.370	7.281f	195295	141585	0.163	0.138	
7)	Aldrin	6.791	7.588	271223	301350	0.067	0.093	#
8)	Heptachlo...	7.236	7.993f	210769	625543	0.057	0.174	#
9)	trans-Chl...	7.348	8.174	110586	273401	0.029	0.074	#
10)	cis-Chlor...	7.437	8.289f	168586	138174	0.046	0.039	
11)	Endosulfa...	7.542	8.303	468396	136881	0.135	0.041	#
12)	4,4'-DDE	7.507	8.377	158677	659346	0.048	0.300	#
13)	Dieldrin	7.726f	8.515	200347	107524	0.053	0.063	
14)	Endrin	7.851	8.741	71756	47221	0.022	0.009	#
15)	4,4'-DDD	7.936	8.780	119001	87134	0.047	0.080	#
16)	Endosulfa...	8.007	8.880	219333	289516	0.073	0.079	
17)	4,4'-DDT	8.121	9.011	92301	274906	0.034	0.087	#
18)	Endrin Al...	8.303	9.135	343569	314384	0.131	0.119	
19)	Endosulfa...	8.614	9.333	700871	528288	0.245	0.122	#
20)	Methoxychlor	8.462	9.484	497585	899384	0.412	0.475	
21)	Endrin Ke...	8.797	9.722	12345702	2346992	3.572	0.609	#
23)	Hexachlor...	3.111	3.702f	357239	5834858	0.092	1.205	#
24)	Hexachlor...	5.702	6.498	511408	1202281	0.152	0.364	#
25)	Oxychlordane	0.000	7.955	0	1101096	N.D.	0.344	#
26)	2,4'-DDE	7.236f	8.134	210769	132520	0.091	0.058	#
27)	trans-Non...	7.437	8.207	168586	627224	0.046	0.174	#
28)	2,4'-DDD	7.650f	8.515	182336	107524	0.094	0.056	#
29)	2,4'-DDT	7.805	8.741	108155	47221	0.045	BelowCal	#
30)	cis-Nonac...	7.908	8.780	89278	87134	0.022	0.022	
31)	Mirex	8.564	9.722	171363	2346992	8199.058	0.882	#
32)	Chlordane...	7.348f	8.174	110586	273401	0.276	0.629	#
33)	Chlordane...	7.471	8.289	119161	138174	0.245	0.380	#
34)	Chlordane...	8.007	8.925f	219333	1787289	1.685	15.050	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.471	8.515f	119161	107524	7.279	3.649	#
37)	Toxaphene...	7.805f	8.880	108155	289516	3.443	7.204	#
38)	Toxaphene...	8.068f	8.925	239525	1787289	0.243	27.626	#
39)	Toxaphene...	8.352f	9.011	145698	274906	BelowCal	BelowCal	
40)	Toxaphene...	8.564	9.173	171363	293864	3.162	5.126	#
41)	Toxaphene...	8.614	9.586f	700871	1181087	9.215	17.881	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

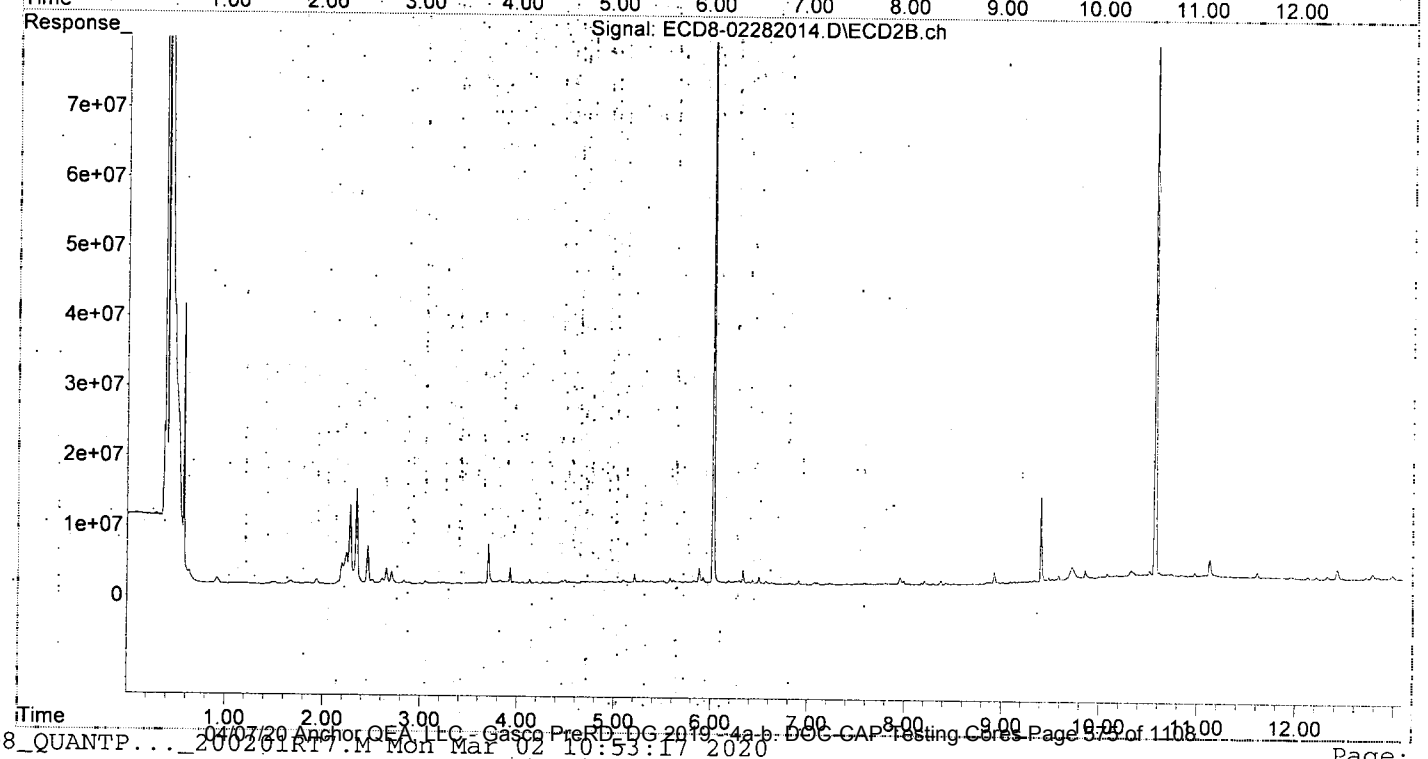
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B28030\
Data File : ECD8-02282014.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2020 15:32
Operator : MJB
Sample : A0B0680-05RE1
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: Mar 02 10:53:16 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.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\0B28030\
Data File : ECD8-02282019.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2020 17:04
Operator : MJB
Sample : 0B28030-CCV4
Misc : A19K134, AB 100 ppb
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Mar 02 10:53:28 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 3/2/20

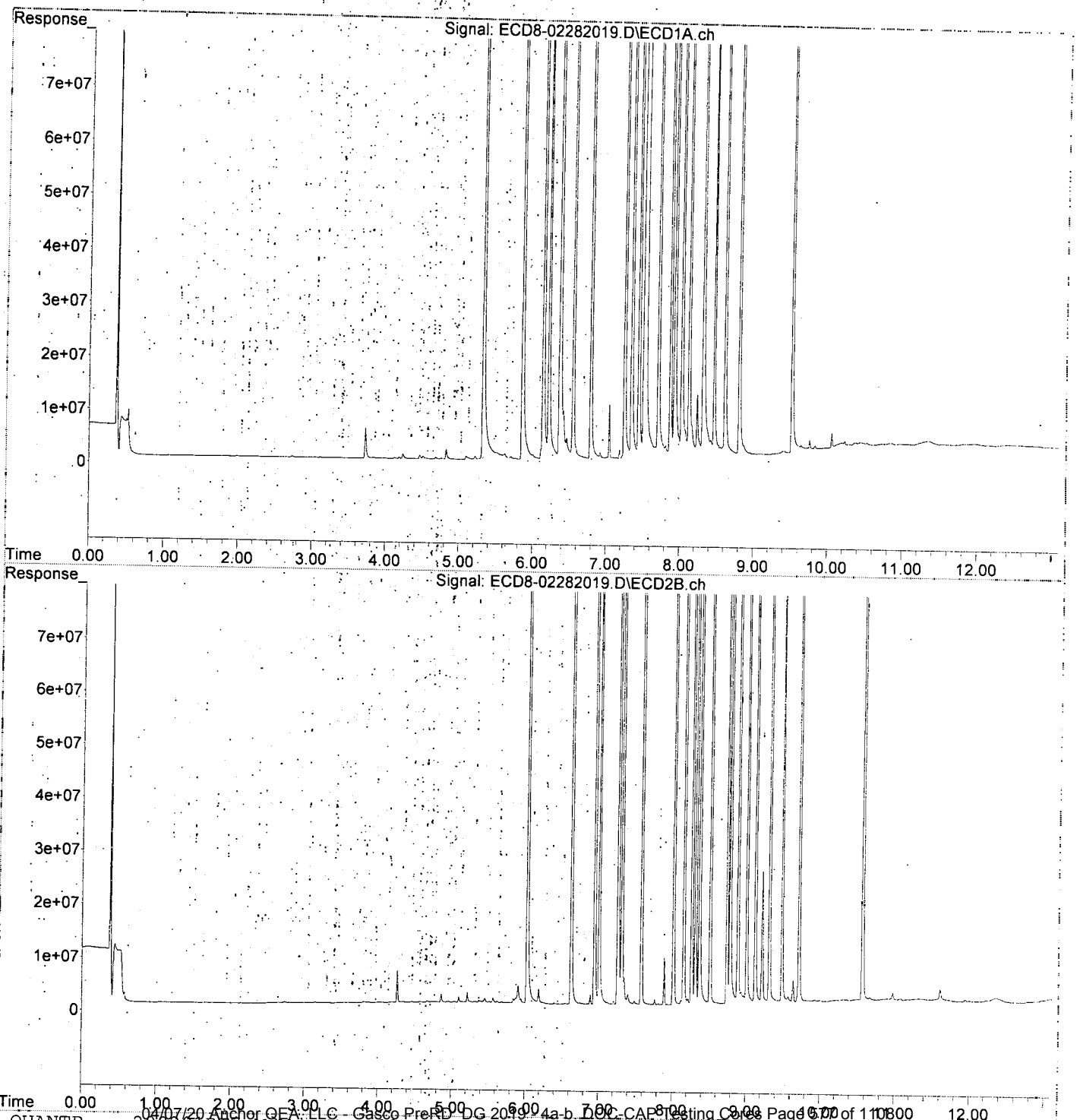
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.322	6.023	301.7E6	369.7E6	86.302	107.167	
22)	S DCBP (S)	9.519	10.569	278.2E6	248.1E6	103.586	109.558	
	Target Compounds							
2)	a-BHC	5.856	6.623	467.2E6	534.9E6	98.886	104.335	
3)	g-BHC	6.137	6.940	419.0E6	454.3E6	100.629	100.547	
4)	b-BHC	6.213	7.003	154.6E6	179.2E6	88.741	103.220	
5)	Heptachlor	6.548	7.313	396.2E6	420.3E6	96.405	99.811	
6)	d-BHC	6.362	7.258	351.8E6	406.9E6	91.582	96.661	
7)	Aldrin	6.788	7.580	422.5E6	442.7E6	104.563	102.673	
8)	Heptachlo...	7.246	8.014	384.3E6	408.1E6	104.063	113.692	
9)	trans-Chl...	7.342	8.154	379.4E6	395.1E6	100.889	106.269	
10)	cis-Chlor...	7.439	8.261	380.6E6	384.4E6	103.632	109.130	
11)	Endosulfa...	7.533	8.313	359.8E6	371.6E6	103.714	112.434	
12)	4,4'-DDE	7.507	8.366	339.4E6	387.2E6	102.190	103.027	
13)	Dieldrin	7.705	8.512	398.0E6	419.6E6	104.360	104.121	
14)	Endrin	7.868	8.740	335.4E6	329.0E6	102.775	98.682	
15)	4,4'-DDD	7.925	8.781	259.6E6	291.9E6	102.011	98.777	
16)	Endosulfa...	8.023	8.887	286.8E6	315.6E6	95.872	101.082	
17)	4,4'-DDT	8.122	9.007	279.6E6	298.9E6	104.004	97.493	
18)	Endrin Al...	8.312	9.122	248.8E6	285.0E6	94.517	107.810	
19)	Endosulfa...	8.611	9.314	276.8E6	295.6E6	96.719	99.979	
20)	Methoxychlor	8.464	9.483	116.9E6	138.9E6	96.914	103.385	
21)	Endrin Ke...	8.805	9.714	330.4E6	317.3E6	95.591	95.554	
23)	Hexachlor...	3.115	3.731	65864	177074	0.017	0.037	#
24)	Hexachlor...	5.705	6.504	542054	90814	0.161	BelowCal	#
25)	Oxychlordane	7.183	7.929	1635239	138163	0.353	0.043	#
26)	2,4'-DDE	7.246	8.154	384.3E6	395.1E6	166.206	173.844	
27)	trans-Non...	7.439	8.216	380.6E6	1160069	103.804	0.321	#
28)	2,4'-DDD	7.663f	8.512	1990071	419.6E6	1.028	219.179	#
29)	2,4'-DDT	7.809	8.740	2200458	329.0E6	0.919	124.800	#
30)	cis-Nonac...	7.925f	8.781	259.6E6	291.9E6	63.797	73.240	
31)	Mirex	8.551	9.714	1644386	317.3E6	0.473	142.259	#
32)	Chlordane...	7.342f	8.216f	379.4E6	1160069	947.354	2.670	#
33)	Chlordane...	7.507f	8.313	339.4E6	371.6E6	697.782	1022.108	#
34)	Chlordane...	8.023	8.968	286.8E6	1632792	2202.859	13.749	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.507f	8.512f	339.4E6	419.6E6	20730.785	14237.692	#
37)	Toxaphene...	7.809f	8.887	2200458	315.6E6	70.044	7852.317	#
38)	Toxaphene...	8.122f	8.932	279.6E6	2416141	4146.247	37.346	#
39)	Toxaphene...	8.312	9.007	248.8E6	298.9E6	3687.641	2600.229	#
40)	Toxaphene...	8.551	9.217f	1644386	25209546	30.338	439.733	#
41)	Toxaphene...	8.611	9.568	276.8E6	1512313	3639.864	22.895	#
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\0B28030\
Data File : ECD8-02282019.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2020 17:04
Operator : MJB
Sample : 0B28030-CCV4
Misc : A19K134, AB 100 ppb
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Mar 02 10:53:28 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.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\0B28030\
Data File : ECD8-02282020.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2020 17:21
Operator : MJB
Sample : 0B28030-CCV5
Misc : A19J409, 9-42 100 ppb
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Mar 02 10:53:32 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MR 2/12/20

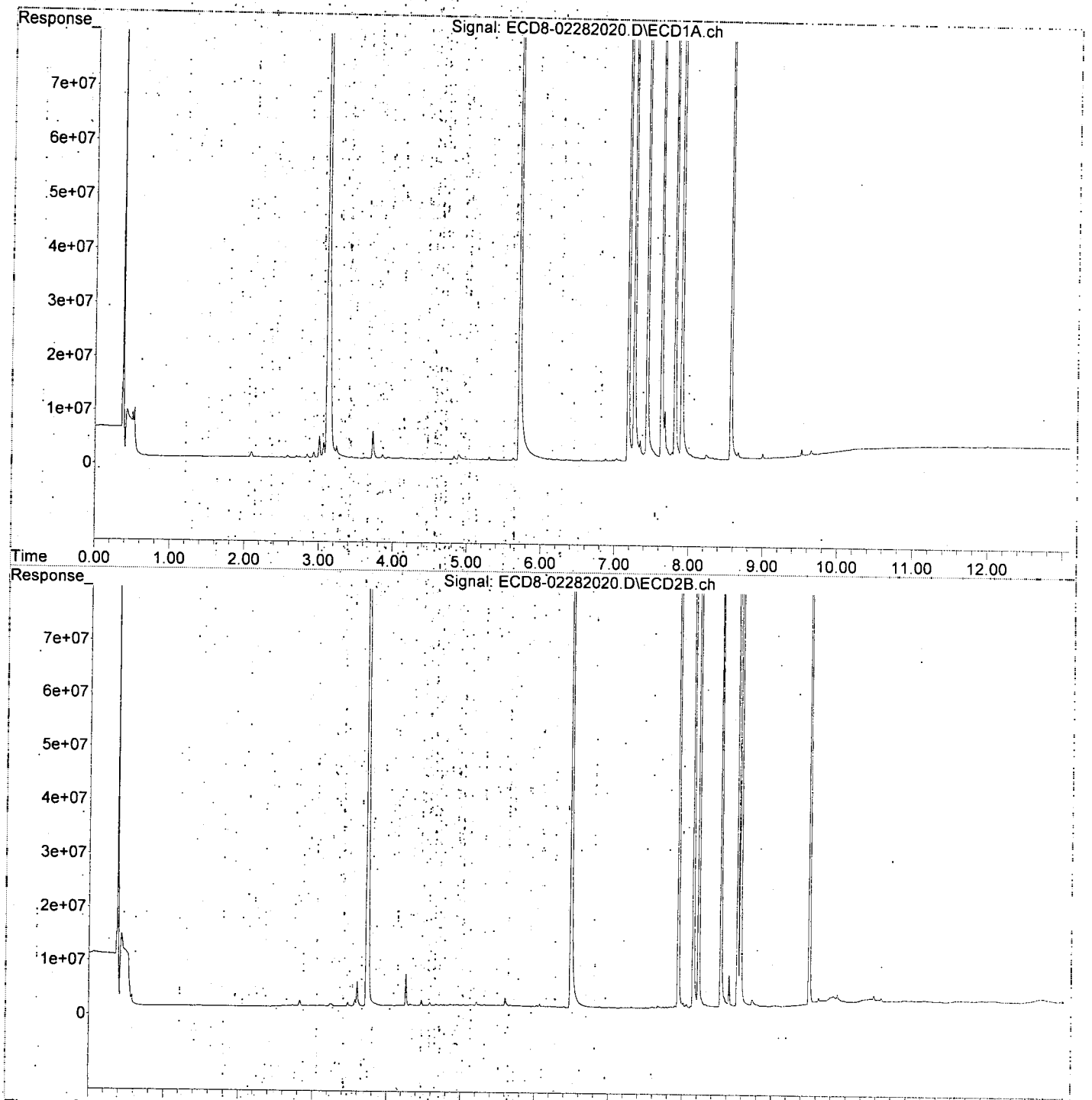
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.298f	6.029	554751	420165	0.159	0.122	
22)	S DCBP (S)	9.522	10.571	1449241	1822701	0.233	0.395	#
	Target Compounds							
2)	a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)	g-BHC	6.116f	6.942	279319	68053	0.067	0.060	
4)	b-BHC	6.217	7.009	236120	139297	0.136	0.080	#
5)	Heptachlor	6.550	7.313	336900	275900	0.082	0.066	
6)	d-BHC	6.370	7.264	57118	82565	0.123	0.121	
7)	Aldrin	6.788	7.592	28334	245597	0.007	0.078	#
8)	Heptachlo...	7.258	8.012	211.0E6	909370	57.137	0.253	#
9)	trans-Chl...	7.343	8.145	3778874	230.3E6	1.005	61.931	#
10)	cis-Chlor...	7.433	0.000	343.4E6	0	93.524	N.D.	#
11)	Endosulfa...	0.000	8.313	0	536966	N.D.	0.162	#
12)	4,4'-DDE	0.000	8.362	0	290044	N.D.	0.181	#
13)	Dieldrin	7.708	8.517	2091935	196.2E6	0.549	52.124	#
14)	Endrin	7.901f	8.742	383.1E6	229.4E6	117.376	71.542	#
15)	4,4'-DDD	7.901f	8.782	383.1E6	410.2E6	150.521	130.106	
16)	Endosulfa...	8.027	8.886	1001963	545362	0.335	0.176	#
17)	4,4'-DDT	8.126	9.008	411122	416805	0.153	0.144	
18)	Endrin Al...	8.328	9.124	308367	199558	0.117	0.075	#
19)	Endosulfa...	0.000	9.314	0	73666	N.D.	BelowCal	
20)	Methoxychlor	8.473	9.494	29698	143984	0.025	BelowCal	#
21)	Endrin Ke...	8.811	9.707	149318	234.5E6	0.043	73.131	#
23)	Hexachlor...	3.110	3.729	330.2E6	441.0E6	84.719	91.086	
24)	Hexachlor...	5.702	6.488	278.1E6	352.8E6	82.715	103.619	#
25)	Oxychlordane	7.176	7.944	307.5E6	320.5E6	98.516	100.208	
26)	2,4'-DDE	7.258	8.145	211.0E6	230.3E6	91.258	101.312	
27)	trans-Non...	7.433	8.217	343.4E6	351.8E6	93.679	97.452	
28)	2,4'-DDD	7.628	8.517	175.0E6	196.2E6	90.363	102.477	
29)	2,4'-DDT	7.811	8.742	204.4E6	229.4E6	85.420	91.696	
30)	cis-Nonac...	7.901	8.782	383.1E6	410.2E6	94.134	102.927	
31)	Mirex	8.567	9.707	230.0E6	234.5E6	95.893	106.940	
32)	Chlordane...	7.343f	8.217f	3778874	351.8E6	9.436	809.603	#
33)	Chlordane...	0.000	8.313	0	536966	N.D.	1.477	#
34)	Chlordane...	8.027	8.940	1001963	1361209	7.696	11.462	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	0.000	8.517f	0	196.2E6	N.D.	6656.815	#
37)	Toxaphene...	7.779	8.886	1552050	545362	49.404	13.570	#
38)	Toxaphene...	8.126f	8.940	411122	1361209	2.681	21.040	#
39)	Toxaphene...	8.328	9.008	308367	416805	BelowCal	0.150	
40)	Toxaphene...	8.567	0.000	230.0E6	0	4243.993	N.D.	#
41)	Toxaphene...	0.000	0.000	0	0	N.D.	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\0B28030\
Data File : ECD8-02282020.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2020 17:21
Operator : MJB
Sample : 0B28030-CCV5
Misc : A19J409, 9-42 100 ppb
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Mar 02 10:53:32 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.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\0B28030\
Data File : ECD8-02282021.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2020 17:38
Operator : MJB
Sample : 0B28030-CCB2
Misc : A20B383
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Mar 02 10:53:36 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 3/2/20

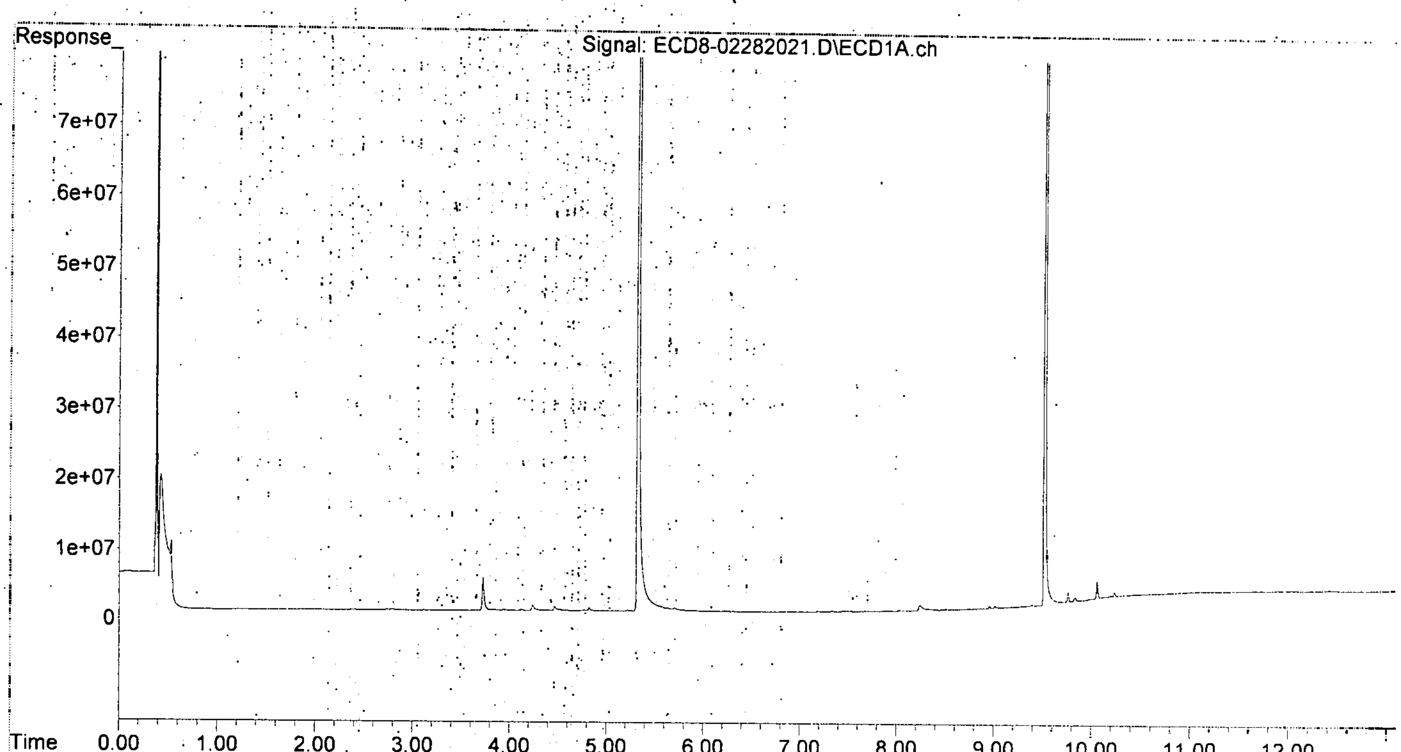
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.322	6.022	269.2E6	320.4E6	77.007	92.889	
22)	S DCBP (S)	9.521	10.570	242.5E6	219.2E6	90.782	97.857	
	Target Compounds							
2)	a-BHC	0.000	6.583f	0	128671	N.D.	0.106	#
3)	g-BHC	6.171f	0.000	14922	0	0.004	N.D.	#
4)	b-BHC	6.223	7.001	128586	41642	0.074	0.024	#
5)	Heptachlor	0.000	7.323	0	29677	N.D.	0.007	#
6)	d-BHC	0.000	7.265	0	55490	N.D.	0.113	#
7)	Aldrin	6.810f	7.593	17457	399437	0.004	0.119	#
8)	Heptachlo...	7.262	8.004	17914	80306	0.005	0.022	#
9)	trans-Chl...	7.350	8.152	62282	121002	0.017	0.033	#
10)	cis-Chlor...	7.443	8.295f	58018	23700	0.016	0.007	#
11)	Endosulfa...	7.495f	8.330	30678	8282	0.009	0.003	#
12)	4,4'-DDE	7.495	8.387f	30678	31718	0.009	0.098	#
13)	Dieldrin	7.707	8.519	17128	90371	0.004	0.058	#
14)	Endrin	7.852	8.742	7045	113573	0.002	0.032	#
15)	4,4'-DDD	7.924	8.784	7652	150630	0.003	0.107	#
16)	Endosulfa...	8.029	8.907	145809	70189	0.049	BelowCal	#
17)	4,4'-DDT	8.117	9.025	6341	259337	0.002	0.080	#
18)	Endrin Al...	8.319	0.000	237738	0	0.090	N.D.	#
19)	Endosulfa...	8.617	9.312	37979	759188	0.013	0.215	#
20)	Methoxychlor	8.472	0.000	95369	0	0.079	N.D.	#
21)	Endrin Ke...	8.811	9.709	31411	5029864	0.009	1.558	#
23)	Hexachlor...	3.113	3.742	58975	165515	0.015	0.034	#
24)	Hexachlor...	5.705	6.495	408973	134949	0.122	BelowCal	#
25)	Oxychlordane	7.185	7.950	166210	102624	BelowCal	0.032	
26)	2,4'-DDE	7.262	8.152	17914	121002	0.008	0.053	#
27)	trans-Non...	7.443	8.210	58018	168741	0.016	0.047	#
28)	2,4'-DDD	7.639	8.519	19773	90371	0.010	0.047	#
29)	2,4'-DDT	7.814	8.742	10127	113573	0.004	0.004	
30)	cis-Nonac...	7.903	8.784	32828	150630	0.008	0.038	#
31)	Mirex	8.576	9.709	72471	5029864	8199.099	2.177	#
32)	Chlordane...	7.350f	8.199	62282	176145	0.156	0.405	#
33)	Chlordane...	7.474	8.295	42939	23700	0.088	0.065	#
34)	Chlordane...	8.029	8.939	145809	1149368	1.120	9.678	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.483	8.556	43427	53048	2.653	1.800	#
37)	Toxaphene...	7.798	8.907	6928	70189	0.221	1.746	#
38)	Toxaphene...	8.080	8.939	10099	1149368	96753.793	17.766	#
39)	Toxaphene...	8.319	9.025f	237738	259337	BelowCal	BelowCal	
40)	Toxaphene...	8.554	9.177	35638	604478	0.657	10.544	#
41)	Toxaphene...	8.617	0.000	37979	0	0.499	N.D.	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

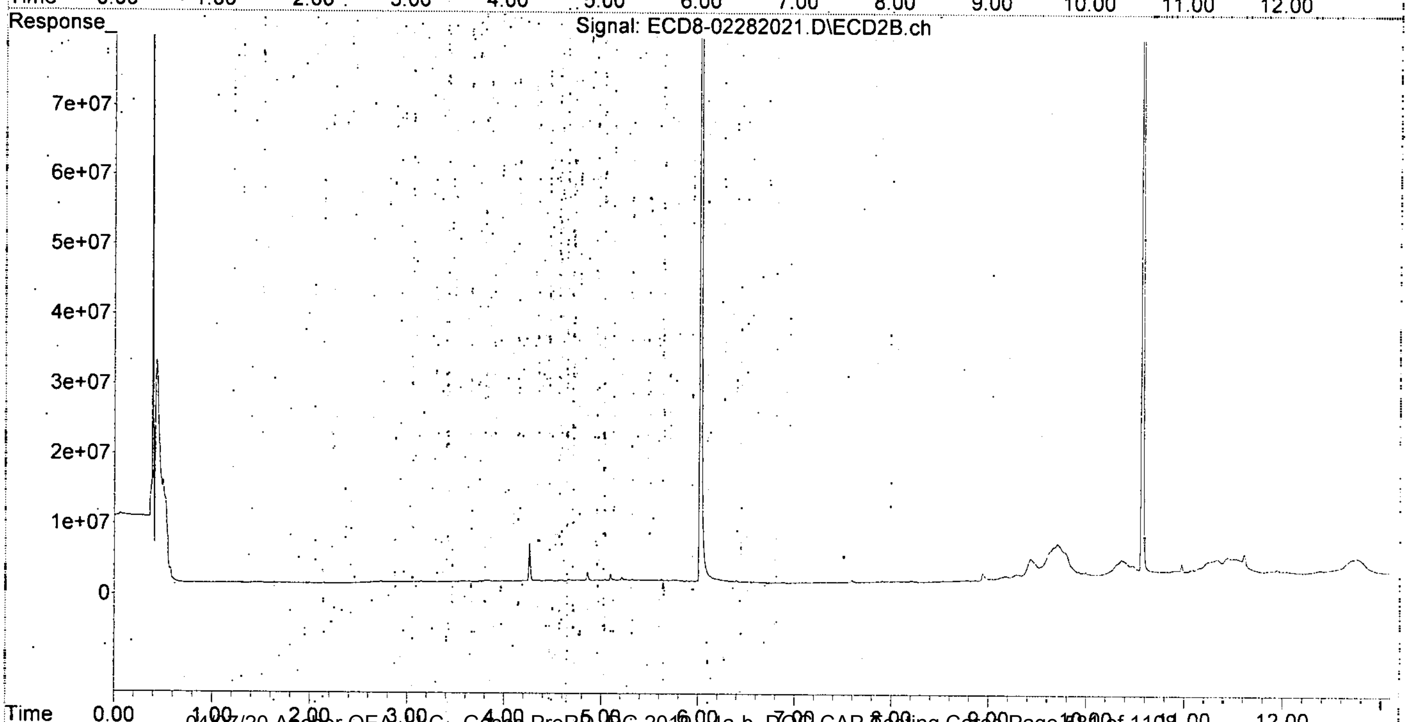
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B28030\
Data File : ECD8-02282021.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2020 17:38
Operator : MJB
Sample : 0B28030-CCB2
Misc : A20B383
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Mar 02 10:53:36 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B28030\
Data File : ECD8-02282022.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2020 17:55
Operator : MJB
Sample : A0B0680-04RE1(2)
Misc : 2x, 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: Mar 02 10:53:40 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

P-04

MJB 3/2/20

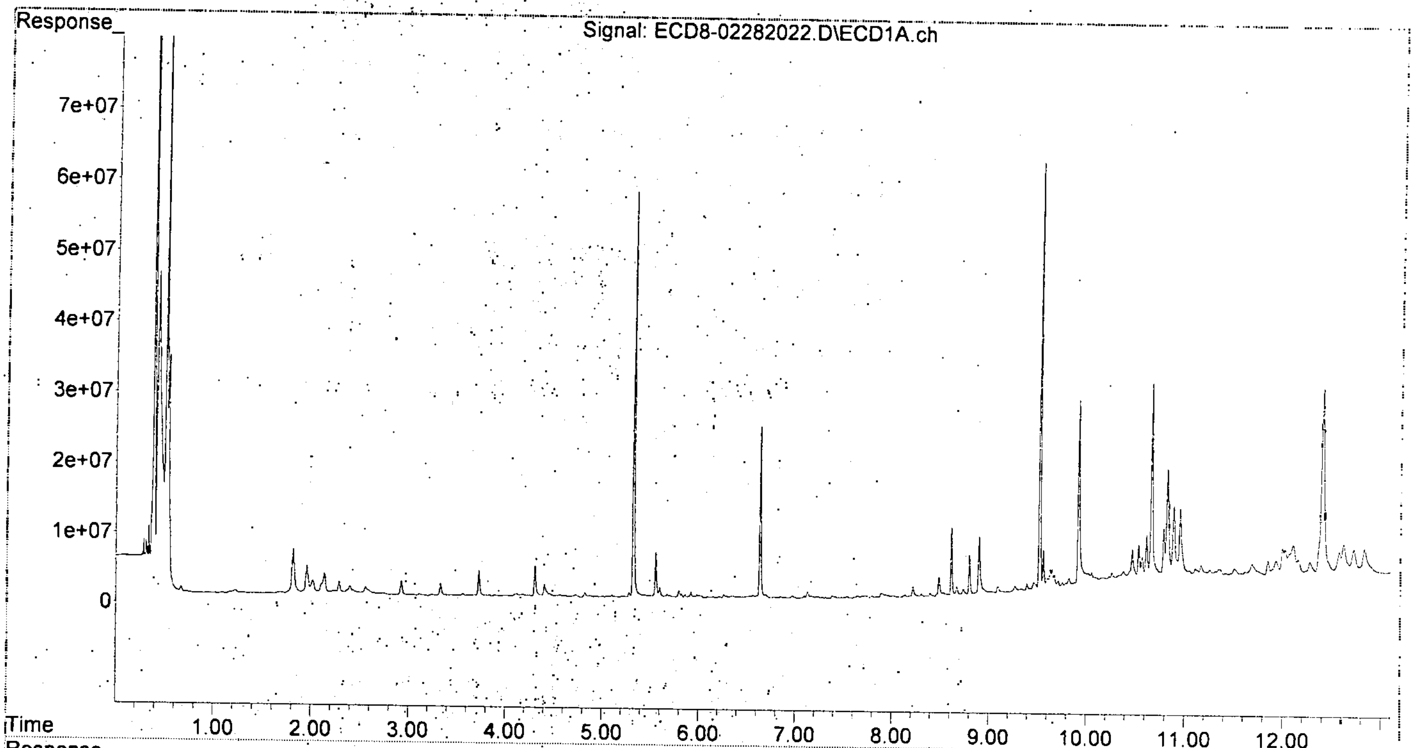
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.320	6.021	57609984	68302923	16.478	19.801	
22)	S DCBP (S)	9.519	10.570	60647892	52647881	23.167	24.920	
	Target Compounds							
2)	a-BHC	5.858	6.624	482862	533802	0.102	0.201	#
3)	g-BHC	6.150	6.971f	154917	165284	0.037	0.084	#
4)	b-BHC	6.216	7.018	215310	191024	0.124	0.110	
5)	Heptachlor	6.560	7.323	436712	134418	0.106	0.032	#
6)	d-BHC	6.338f	7.256	288182	176629	0.190	0.148	
7)	Aldrin	6.786	7.586	157439	252885	0.039	0.080	#
8)	Heptachlo...	7.223f	8.037f	242902	208538	0.066	0.058	
9)	trans-Chl...	7.345	8.162	48033	365113	0.013	0.098	#
10)	cis-Chlor...	7.414f	8.286f	206461	520760	0.056	0.148	#
11)	Endosulfa...	7.538	8.286f	251182	520760	0.072	0.158	#
12)	4,4'-DDE	7.520	8.371	106569	642104	0.032m	0.294	#
13)	Dieldrin	7.713	8.512	276254	355369	0.072	0.134	#
14)	Endrin	7.851	8.737	85408	171957	0.026	0.052	#
15)	4,4'-DDD	7.930	8.777	380451	217314	0.149	0.136	
16)	Endosulfa...	8.012	8.875	218037	258759	0.073	0.068	
17)	4,4'-DDT	8.122	9.015	191448	302576	0.071	0.098	#
18)	Endrin Al...	8.305	9.131	340663	302277	0.129	0.114	
19)	Endosulfa...	8.613	9.330	9769120	2301897	3.413	0.831	#
20)	Methoxychlor	8.485f	9.482	2773011	867384	2.298	0.445	#
21)	Endrin Ke...	8.798	9.713	5682067	1671978	1.644	0.370	#
23)	Hexachlor...	3.110	3.742	238604	313764	0.061	0.065	
24)	Hexachlor...	5.701	6.495	358614	775493	0.107	0.216	#
25)	Oxychlordane	7.167	7.946	350890	941533	BelowCal	0.294	
26)	2,4'-DDE	7.241	8.137	185025	237424	0.080m	0.104	#
27)	trans-Non...	7.414	8.206	206461	526237	0.056	0.146	#
28)	2,4'-DDD	7.650f	8.512	284477	355369	0.147	0.186	#
29)	2,4'-DDT	7.795	8.753	252086	190810	0.105	0.040m	#
30)	cis-Nonac...	7.890	8.777	633186	217314	0.156	0.055	#
31)	Mirex	8.561	9.713	263755	1671978	8199.020	0.556	#
32)	Chlordane...	7.383	8.206	397417	526237	0.992	1.211	
33)	Chlordane...	7.481	8.286	79274	520760	0.163	1.432	#
34)	Chlordane...	8.012	8.921f	218037	2052283	1.675	17.282	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.481	8.572f	79274	80997	4.843	2.749	#
37)	Toxaphene...	7.795	8.875f	252086	258759	8.024	6.439	
38)	Toxaphene...	8.099	8.921	23959	2052283	96753.596	31.722	#
39)	Toxaphene...	8.305f	9.015	340663	302576	BelowCal	BelowCal	
40)	Toxaphene...	8.561	9.184	263755	303859	4.866	5.300	
41)	Toxaphene...	8.613	9.584f	9769120	11205729	128.450	169.645	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

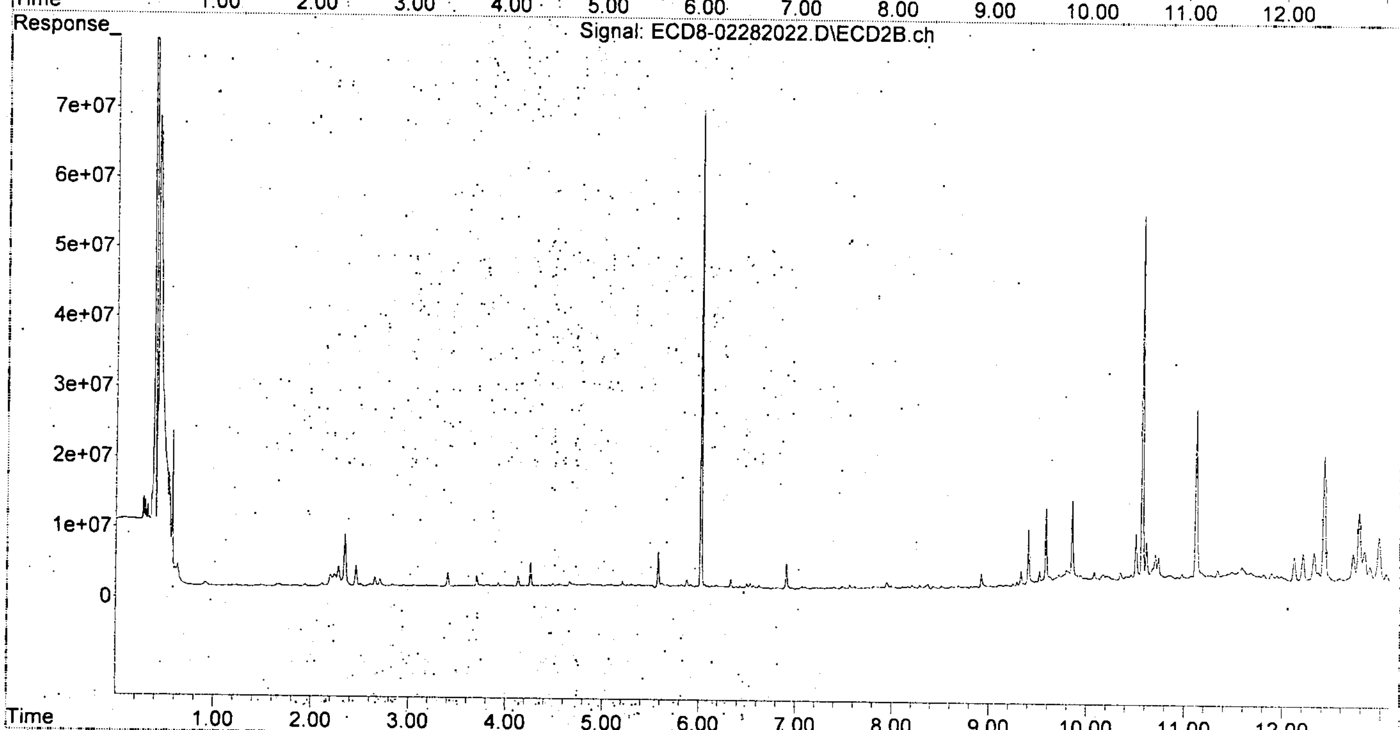
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

```
Data Path : C:\msdchem\1\data\2020-02\0B28030\
Data File : ECD8-02282022.D
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    : 28 Feb 2020  17:55
Operator  : MJB
Sample    : A0B0680-04RE1@2
Misc      : 2x, 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: Mar 02 10:53:40 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.M
Quant Title  : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation
```

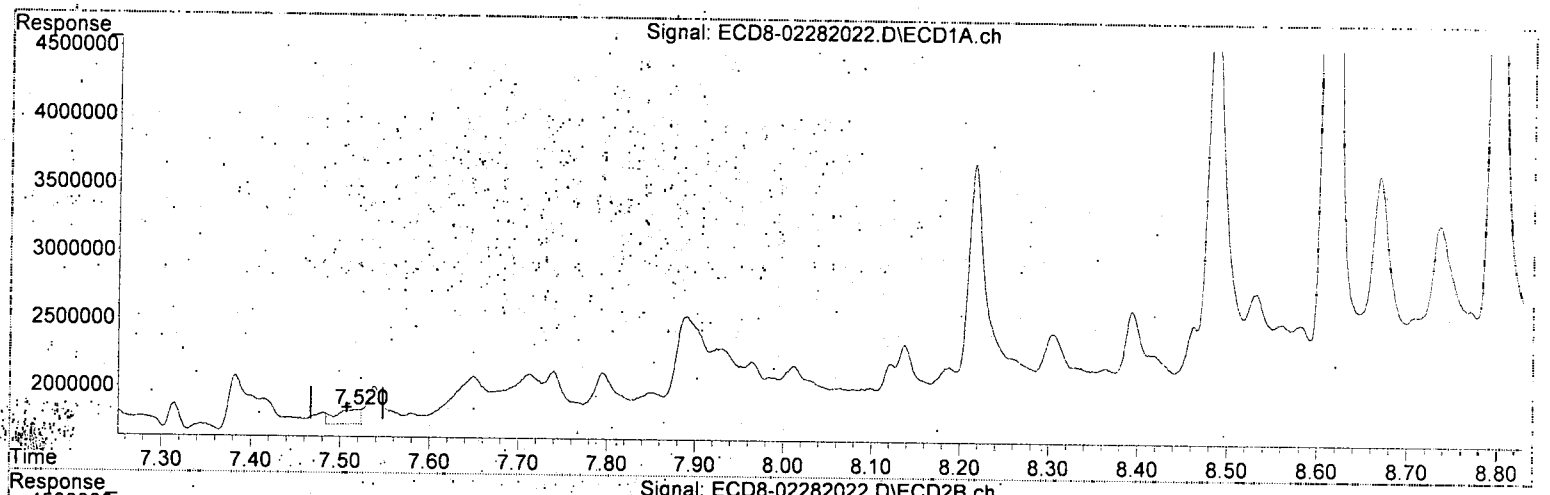


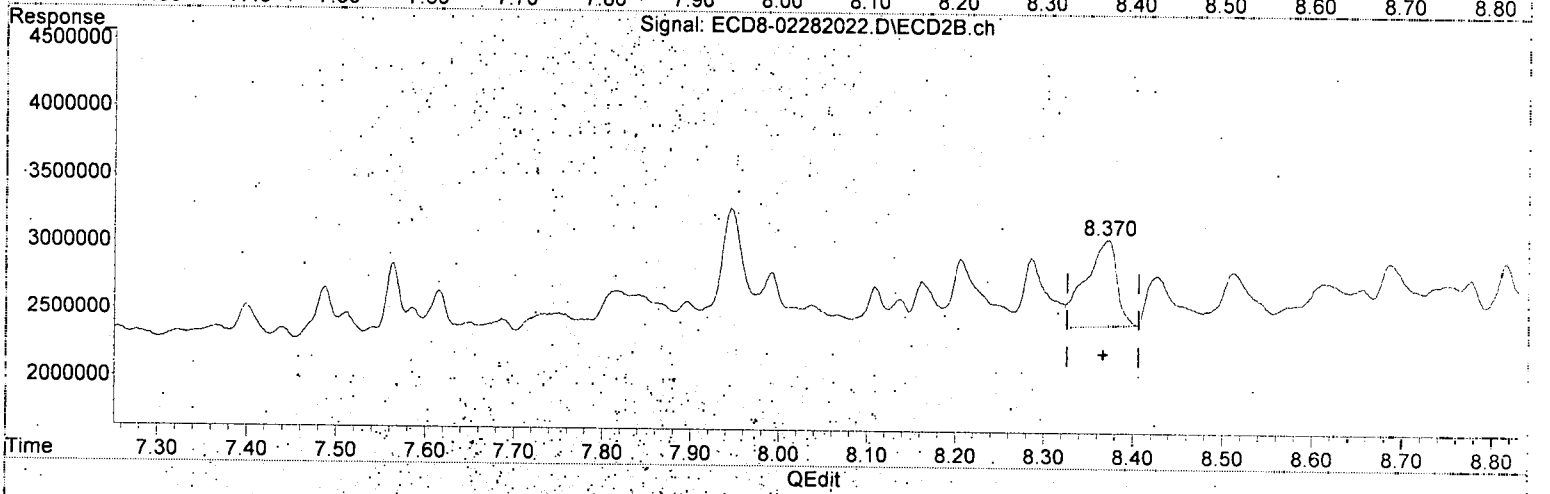


Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B28030\
Data File : ECD8-02282022.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2020 17:55
Operator : MJB
Sample : A0B0680-04RE1@2
Misc : 2x, 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: Mar 02 10:53:40 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.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

7.520min 0.032 ng/mL m

response 106569

MJB 3/2/20 MJB 3/2/20

(12) 4,4'-DDE #2

8.371min 0.294 ng/mL

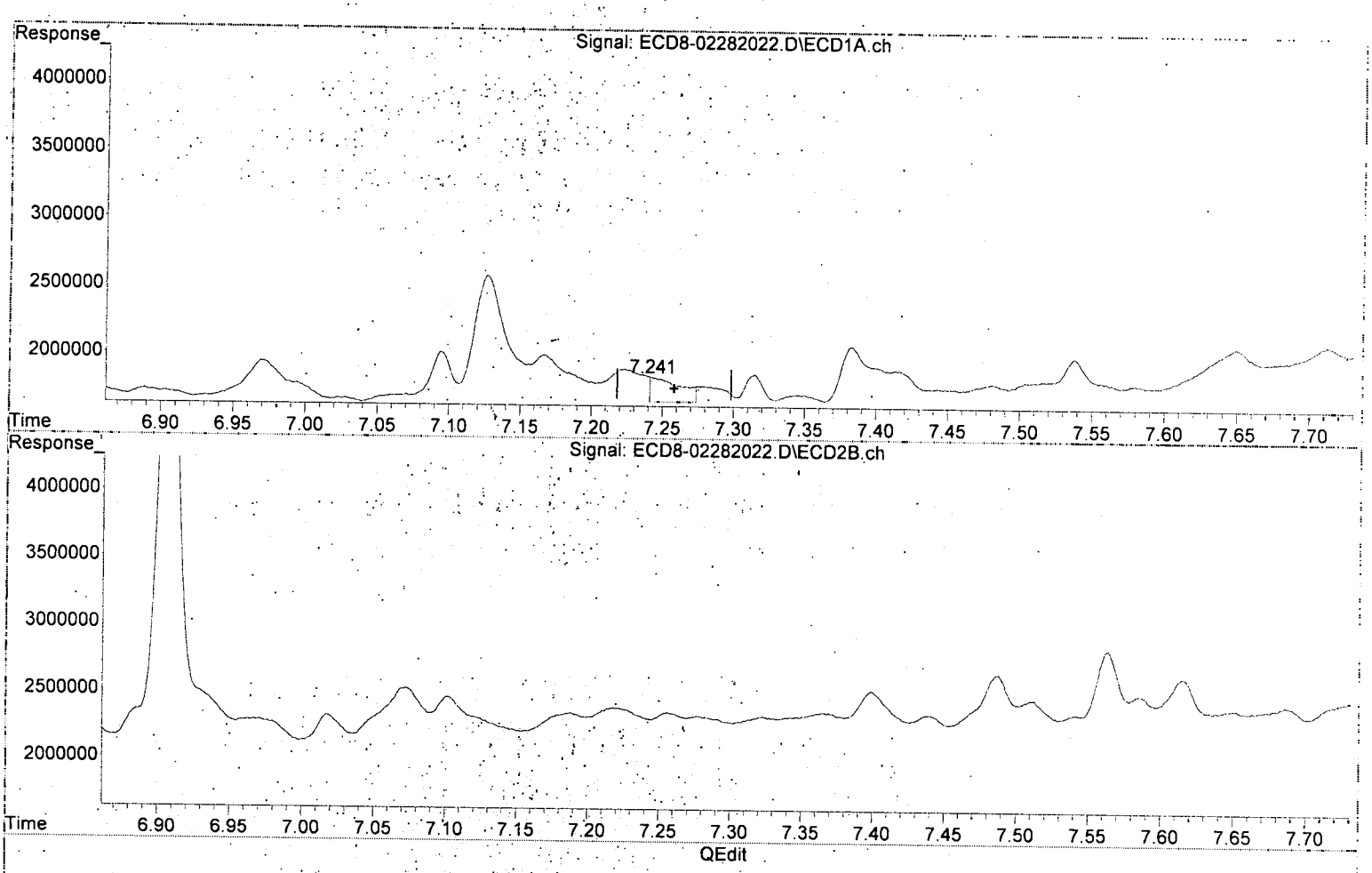
response 642104

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B28030\
Data File : ECD8-02282022.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2020 17:55
Operator : MJB
Sample : A0B0680-04RE1@2
Misc : 2x, 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: Mar 02 10:53:40 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(26) 2,4'-DDE

7.241min 0.080 ng/mL (m)

response 185025

MJB 3/2/20

(26) 2,4'-DDE #2

8.137min 0.104 ng/mL

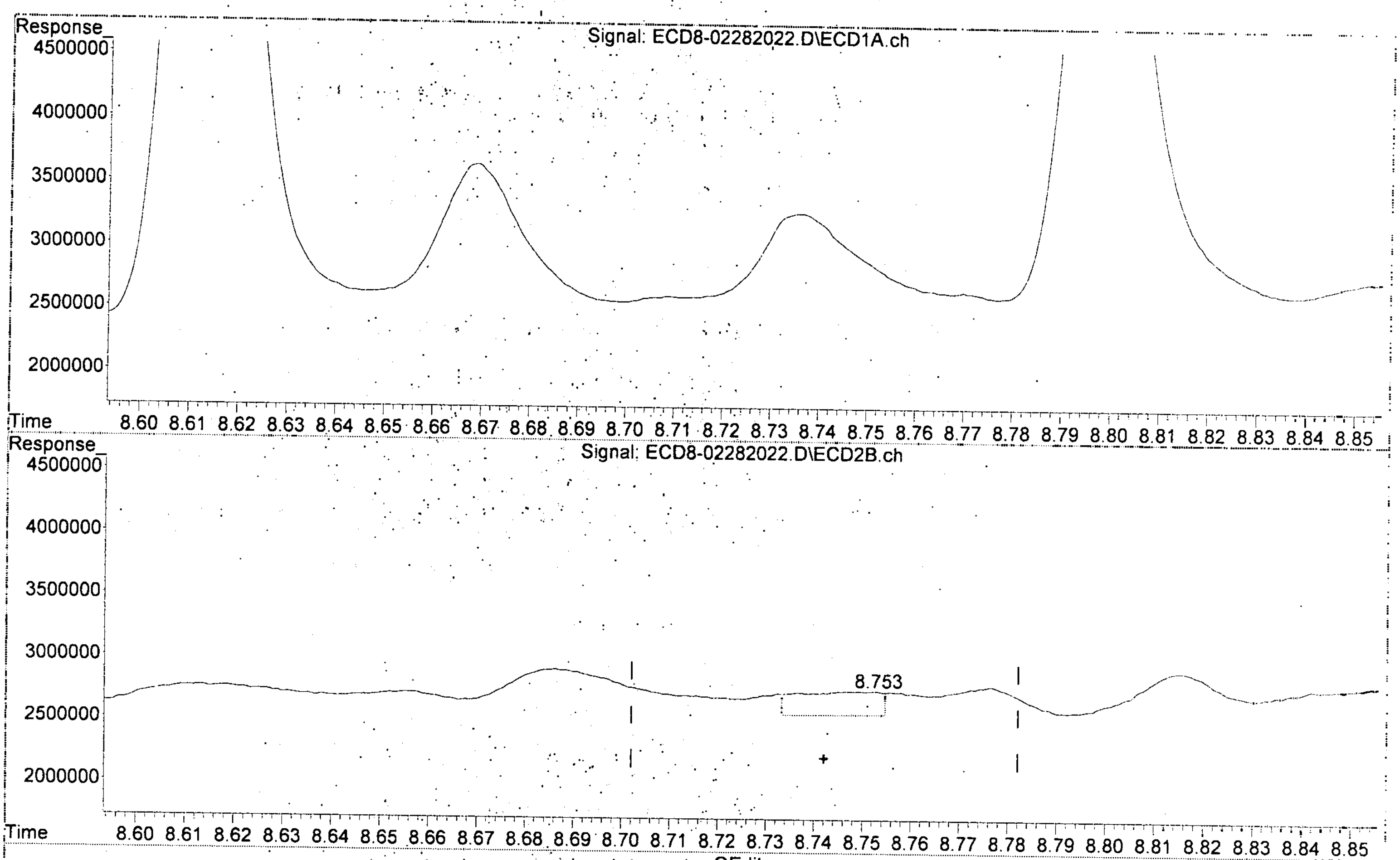
response 237424

(+) = Expected Retention Time

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\2020-02\0B28030\
Data File : ECD8-02282022.D
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    : 28 Feb 2020  17:55
Operator  : MJB
Sample    : A0B0680-04RE1@2
Misc      : 2x, 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: Mar 02 10:53:40 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.M
Quant Title  : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation
```



QEdit

(29) 2,4'-DDT

7.795min 0.105 ng/mL

response 252086

MJB 3/2/20

(29) 2,4'-DDT #2

8.753min 0.040 ng/mL (m)

response 190810

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B28030\
Data File : ECD8-02282022.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2020 17:55
Operator : MJB
Sample : A0B0680-04RE1@2
Misc : 2x, 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: Mar 02 10:53:40 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.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)	5.320	6.021	57609984	68302923	16.478	19.801	
22)	S DCBP (S)	9.519	10.570	60647892	52647881	23.167	24.920	
	Target Compounds							
2)	a-BHC	5.858	6.624	482862	533802	0.102	0.201	#
3)	g-BHC	6.150	6.971f	154917	165284	0.037	0.084	#
4)	b-BHC	6.216	7.018	215310	191024	0.124	0.110	
5)	Heptachlor	6.560	7.323	436712	134418	0.106	0.032	#
6)	d-BHC	6.338f	7.256	288182	176629	0.190	0.148	
7)	Aldrin	6.786	7.586	157439	252885	0.039	0.080	#
8)	Heptachlo...	7.223f	8.037f	242902	208538	0.066	0.058	
9)	trans-Chl...	7.345	8.162	48033	365113	0.013	0.098	#
10)	cis-Chlor...	7.414f	8.286f	206461	520760	0.056	0.148	#
11)	Endosulfa...	7.538	8.286f	251182	520760	0.072	0.158	#
12)	4,4'-DDE	7.481f	8.371	79274	642104	0.024	0.294	#
13)	Dieldrin	7.713	8.512	276254	355369	0.072	0.134	#
14)	Endrin	7.851	8.737	85408	171957	0.026	0.052	#
15)	4,4'-DDD	7.930	8.777	380451	217314	0.149	0.136	
16)	Endosulfa...	8.012	8.875	218037	258759	0.073	0.068	
17)	4,4'-DDT	8.122	9.015	191448	302576	0.071	0.098	#
18)	Endrin Al...	8.305	9.131	340663	302277	0.129	0.114	
19)	Endosulfa...	8.613	9.330	9769120	2301897	3.413	0.831	#
20)	Methoxychlor	8.485f	9.482	2773011	867384	2.298	0.445	#
21)	Endrin Ke...	8.798	9.713	5682067	1671978	1.644	0.370	#
23)	Hexachlor...	3.110	3.742	238604	313764	0.061	0.065	
24)	Hexachlor...	5.701	6.495	358614	775493	0.107	0.216	#
25)	Oxychlordane	7.167	7.946	350890	941533	BelowCal	0.294	
26)	2,4'-DDE	7.279f	8.137	114831	237424	0.050	0.104	#
27)	trans-Non...	7.414	8.206	206461	526237	0.056	0.146	#
28)	2,4'-DDD	7.650f	8.512	284477	355369	0.147	0.186	#
29)	2,4'-DDT	7.795	8.737	252086	171957	0.105	0.032	#
30)	cis-Nonac...	7.890	8.777	633186	217314	0.156	0.055	#
31)	Mirex	8.561	9.713	263755	1671978	8199.020	0.556	#
32)	Chlordane...	7.383	8.206	397417	526237	0.992	1.211	
33)	Chlordane...	7.481	8.286	79274	520760	0.163	1.432	#
34)	Chlordane...	8.012	8.921f	218037	2052283	1.675	17.282	#
35)	Chlordane....	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.481	8.572f	79274	80997	4.843	2.749	#
37)	Toxaphene...	7.795	8.875f	252086	258759	8.024	6.439	
38)	Toxaphene...	8.099	8.921	23959	2052283	96753.596	31.722	#
39)	Toxaphene...	8.305f	9.015	340663	302576	BelowCal	BelowCal	
40)	Toxaphene...	8.561	9.184	263755	303859	4.866	5.300	
41)	Toxaphene...	8.613	9.584f	9769120	11205729	128.450	169.645	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

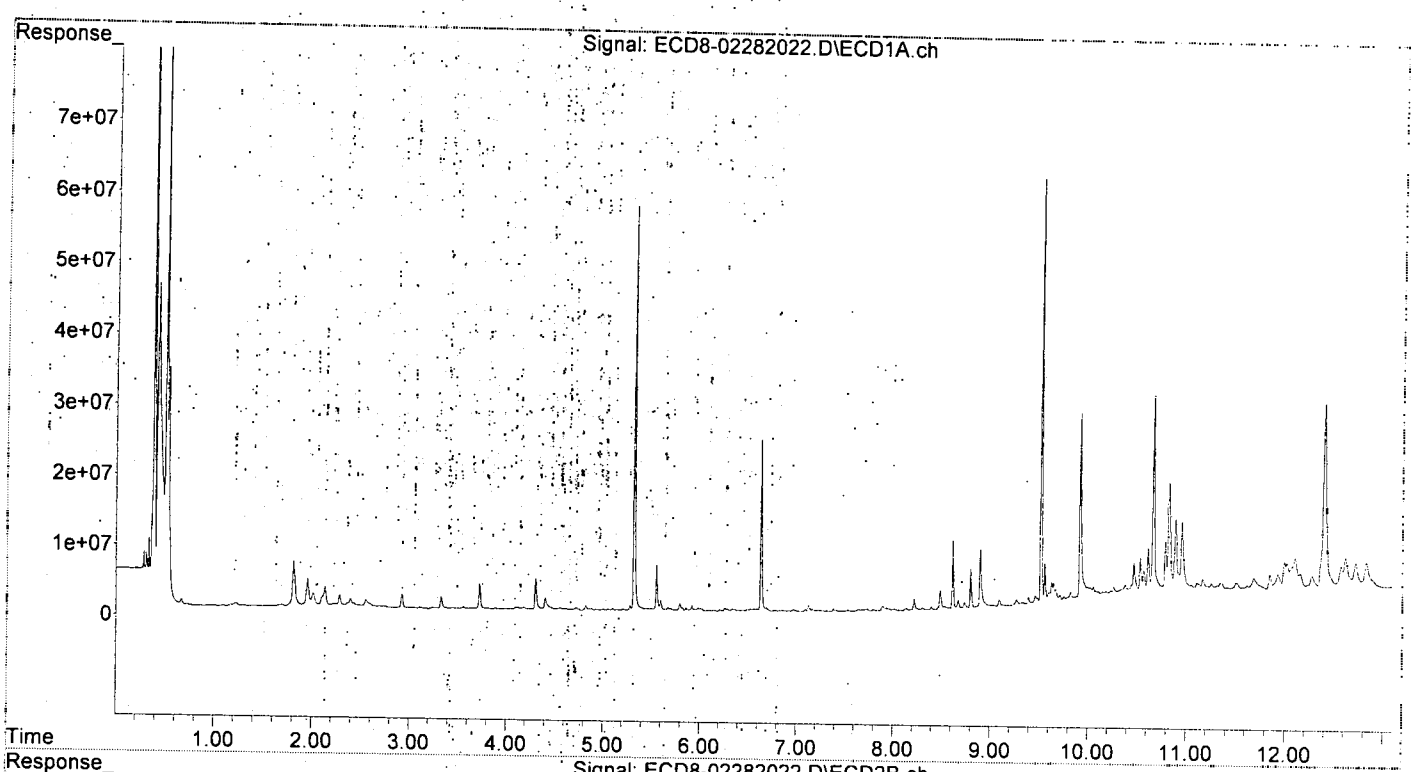
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

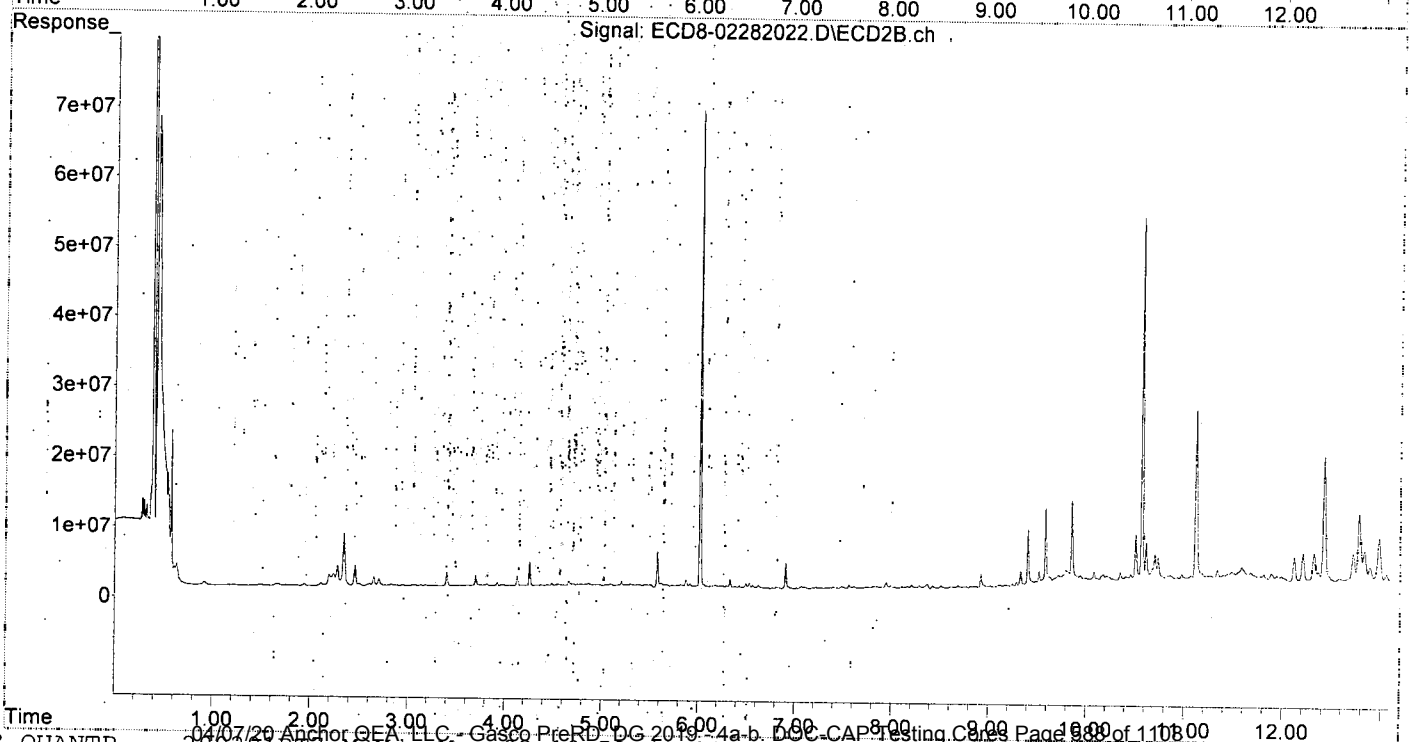
MJB 3/2/20 MJB 3/2/20

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B28030\
Data File : ECD8-02282022.D
Signal(s) : Signal #1: ECD1A.ch , Signal #2: ECD2B.ch
Acq On : 28 Feb 2020 17:55
Operator : MJB
Sample : A0B0680-04RE1@2
Misc : 2x, 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: Mar 02 10:53:40 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.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\0B28030\
Data File : ECD8-02282024.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2020 18:33
Operator : MJB
Sample : 0020808-MS1@2
Misc : 2x, 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: Mar 02 10:53:44 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

R.04

MJB 3/2/20

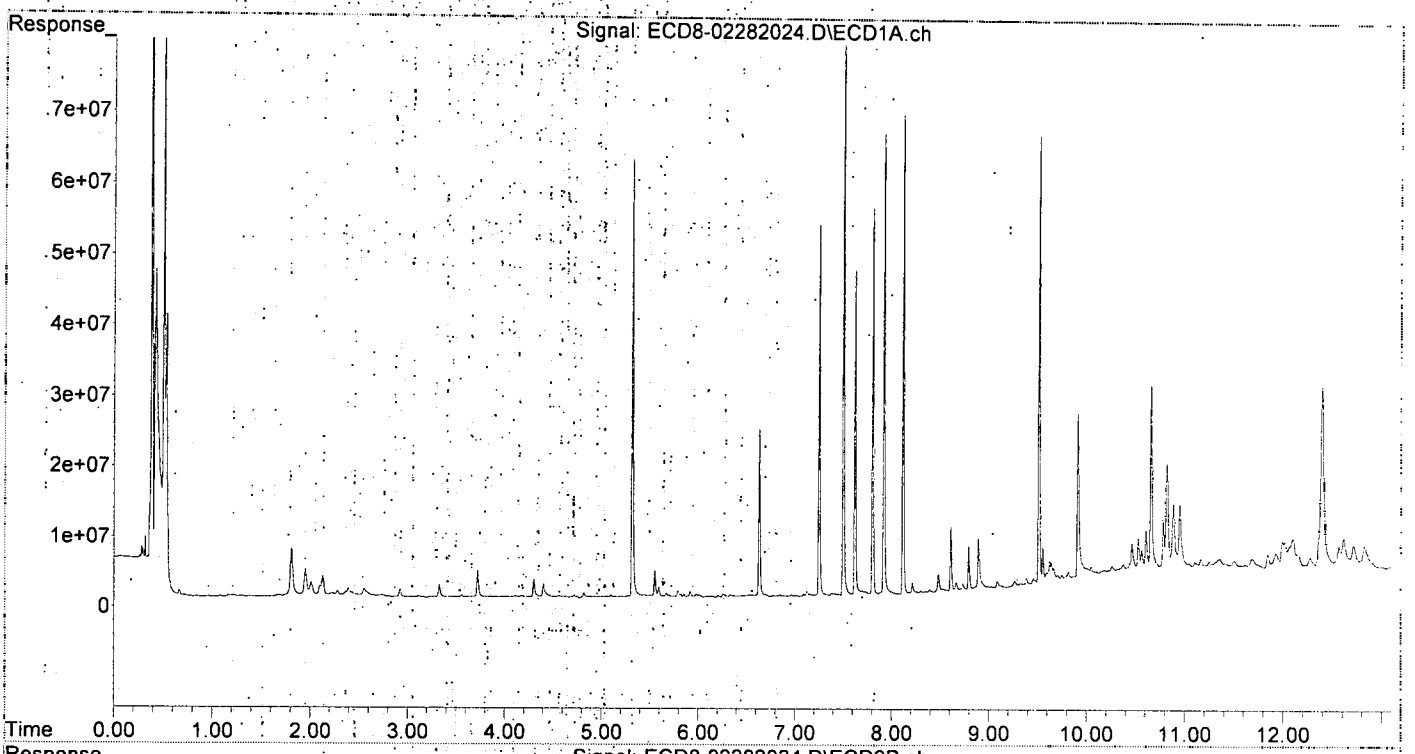
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.320	6.021	62152236	72387579	17.778	20.985	
22)	S DCBP (S)	9.517	10.567	64076912	55062199	24.481	26.055	
	Target Compounds							
2)	a-BHC	5.857	6.624	542224	464304	0.115	0.185	#
3)	g-BHC	6.148	6.932	155531	285691	0.037	0.115	#
4)	b-BHC	6.209	7.017	233011	163636	0.134	0.094	#
5)	Heptachlor	6.559	7.325	342053	99283	0.083	0.024	#
6)	d-BHC	6.336f	7.256	318340	169473	0.199	0.146	#
7)	Aldrin	6.787	7.586	113472	269537	0.028	0.084	#
8)	Heptachlo...	7.252	8.038f	52766266	112898	14.289	0.031	#
9)	trans-Chl...	7.342	8.142	120250	52916838	0.032	14.231	#
10)	cis-Chlor...	7.440	8.285f	146093	284491	0.040	0.081	#
11)	Endosulfa...	7.503f	8.285f	82327404	284491	23.734	0.086	#
12)	4,4'-DDE	7.503	8.362	82327404	87146037	24.791	26.665	
13)	Dieldrin	7.708	8.514	522208	45764112	0.137	12.866	#
14)	Endrin	0.000	8.739	0	56008005	N.D.	18.916	#
15)	4,4'-DDD	7.921	8.777	65330801	68625051	25.670	27.424	
16)	Endosulfa...	8.008	8.874	310345	172436	0.104	0.035	#
17)	4,4'-DDT	8.119	9.004	67979061	67950287	25.287	25.980	
18)	Endrin Al...	8.303	9.127	294563	332562	0.112	0.126	
19)	Endosulfa...	8.612	9.329	9253300	2068048	3.233	0.738	#
20)	Methoxychlor	8.484	9.480	2541010	645703	2.106	0.235	#
21)	Endrin Ke...	8.796	9.712	6389316	1233515	1.849	0.215	#
23)	Hexachlor...	3.109	3.741	256462	373798	0.066	0.077	
24)	Hexachlor...	5.701	6.495	403839	879626	0.120	0.252	#
25)	Oxychlordane	7.165	7.946	285484	794799	BelowCal	0.249	
26)	2,4'-DDE	7.252	8.142	52766266	52916838	22.822	23.280	
27)	trans-Non...	7.440	8.205	146093	405820	0.040	0.112	#
28)	2,4'-DDD	7.623	8.514	46167503	45764112	23.837	23.907	
29)	2,4'-DDT	7.806	8.739	54970132	56008005	22.970	25.069	
30)	cis-Nonac...	7.921f	8.777	65330801	68625051	16.054	17.220	
31)	Mirex	8.558	9.712	249288	1233515	8199.026	0.344	#
32)	Chlordane...	7.383	8.205	325722	405820	0.813	0.934	
33)	Chlordane...	7.503f	8.285	82327404	284491	169.284	0.783	#
34)	Chlordane...	8.008	8.921f	310345	1873453	2.384	15.776	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.503	8.571	82327404	83246	5029.345	2.825	#
37)	Toxaphene...	7.806f	8.921f	54970132	1873453	1749.781	46.616	#
38)	Toxaphene...	8.119f	8.921	67979061	1873453	972.295	28.958	#
39)	Toxaphene...	8.342	9.004	159406	67950287	BelowCal	669.095	
40)	Toxaphene...	8.558	9.184	249288	172173	4.599	3.003	#
41)	Toxaphene...	8.612	9.543	9253300	682326	121.667	10.330	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

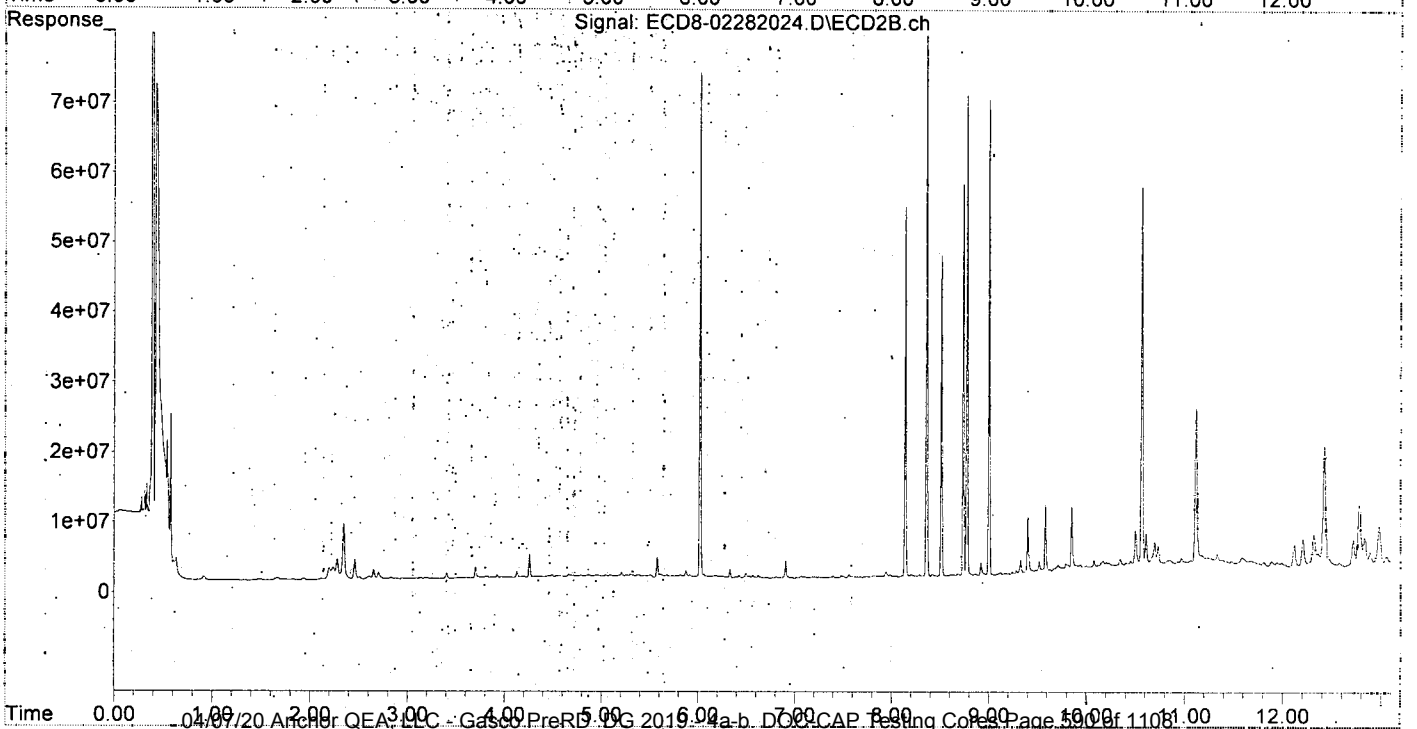
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B28030\
Data File : ECD8-02282024.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2020 18:33
Operator : MJB
Sample : 0020808-MS1@2
Misc : 2x, 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: Mar 02 10:53:44 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.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\0B28030\
Data File : ECD8-02282026.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2020 19:15
Operator : MJB
Sample : 0020808-MSD1@2
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Mar 02 10:53:48 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

R-04

WB 3/2/20

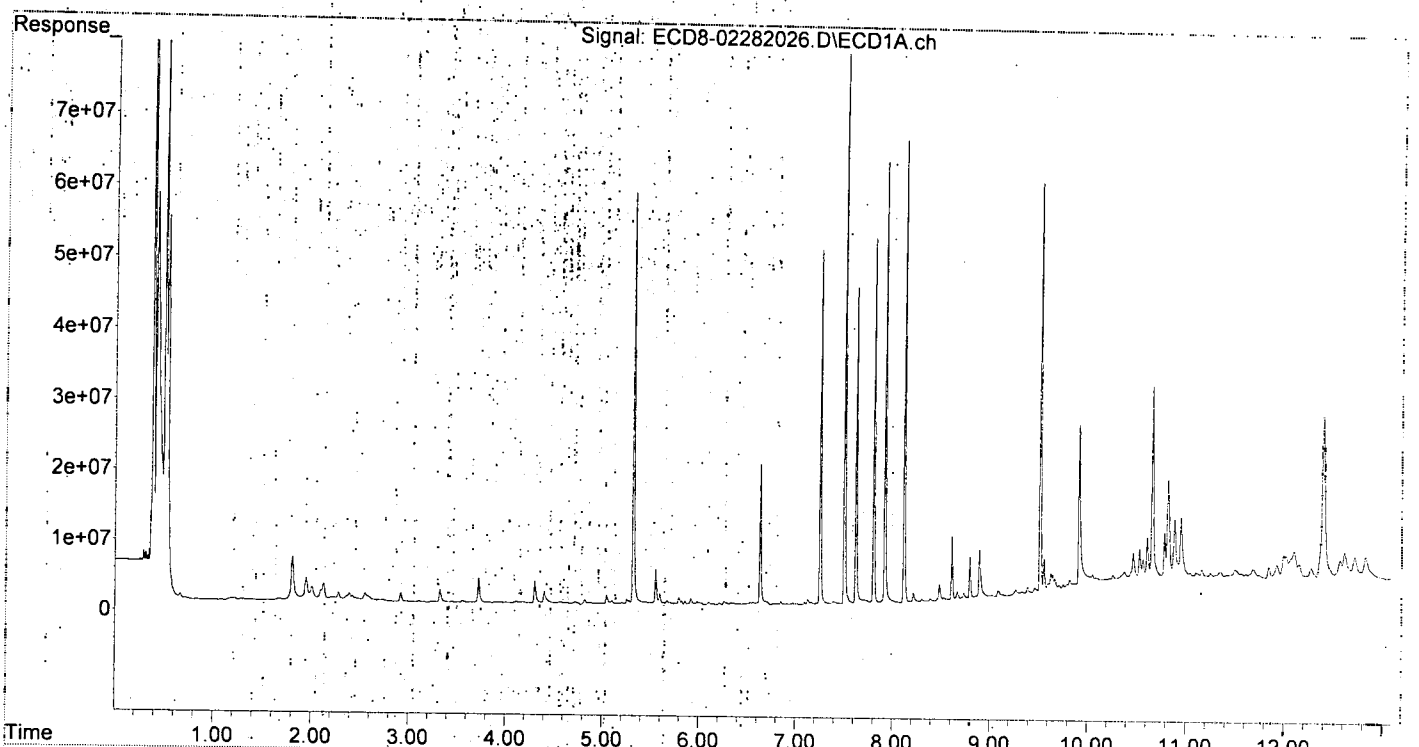
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.319	6.020	58466935	72288084	16.723	20.956	#
22)	S DCBP (S)	9.516	10.566	58773556	57687652	22.448	27.285	
	Target Compounds							
2)	a-BHC	5.857	6.624	508885	3574245	0.108	0.912	#
3)	g-BHC	6.147	6.964f	149194	3512816	0.036	0.941	#
4)	b-BHC	6.207	7.018	223282	3551194	0.128	2.046	#
5)	Heptachlor	6.559	7.339f	388348	3741644	0.094	0.889	#
6)	d-BHC	6.335f	7.256	295927	3730108	0.192	1.160	#
7)	Aldrin	6.785	7.584	139206	4201283	0.034	1.133	#
8)	Heptachlo...	7.252	8.037f	50329331	4302668	13.629	1.199	#
9)	trans-Chl...	7.312f	8.142	310155	55003644	0.082	14.792	#
10)	cis-Chlor...	7.436	8.285f	121864	4695966	0.033	1.333	#
11)	Endosulfa...	7.502f	8.285f	77884620	4695966	22.453	1.421	#
12)	4,4'-DDE	7.502	8.361	77884620	84996301	23.454	26.041	
13)	Dieldrin	7.711	8.514	491675	49386060	0.129	13.863	#
14)	Endrin	0.000	8.738	0	58600335	N.D.	19.765	#
15)	4,4'-DDD	7.920	8.777	62643476	68803358	24.614	27.491	
16)	Endosulfa...	8.009	8.877	310816	5132559	0.104	1.911	#
17)	4,4'-DDT	8.119	9.003	65634152	69222784	24.415	26.437	
18)	Endrin Al...	8.304	9.124	347049	5477469	0.132	2.072	#
19)	Endosulfa...	8.611	9.328	9157793	7271832	3.200	2.808	
20)	Methoxychlor	8.483	9.480	2343304	6036658	1.942	5.263	#
21)	Endrin Ke...	8.796	9.712	6056405	6748940	1.752	2.164	
23)	Hexachlor...	3.108	3.702f	236863	3238699	0.061	0.669	#
24)	Hexachlor...	5.700	6.494	376221	3978156	0.112	1.329	#
25)	Oxychlordane	7.164	7.947	261361	4912730	BelowCal	1.536	
26)	2,4'-DDE	7.252	8.142	50329331	55003644	21.768	24.199	
27)	trans-Non...	7.436	8.204	121864	4677458	0.033	1.296	#
28)	2,4'-DDD	7.622	8.514	44946942	49386060	23.207	25.799	
29)	2,4'-DDT	7.805	8.738	51947014	58600335	21.707	26.178	
30)	cis-Nonac...	7.920	8.777	62643476	68803358	15.394	17.265	
31)	Mirex	8.561	9.712	233045	6748940	8199.033	3.005	#
32)	Chlordane...	7.382	8.204	303689	4677458	0.758	10.766	#
33)	Chlordane...	7.463	8.285	77751	4695966	0.160	12.917	#
34)	Chlordane...	8.009	8.920f	310816	6765352	2.387	56.969	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.502	8.573f	77884620	4749557	4757.938	161.172	#
37)	Toxaphene...	7.805f	8.877f	51947014	5132559	1653.551	127.711	#
38)	Toxaphene...	8.119f	8.920	65634152	6765352	938.313	104.571	#
39)	Toxaphene...	8.304f	9.003	347049	69222784	BelowCal	681.118	
40)	Toxaphene...	8.561	9.183	233045	5401342	4.300	94.216	#
41)	Toxaphene...	8.611	9.542	9157793	6165887	120.412	93.346	
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

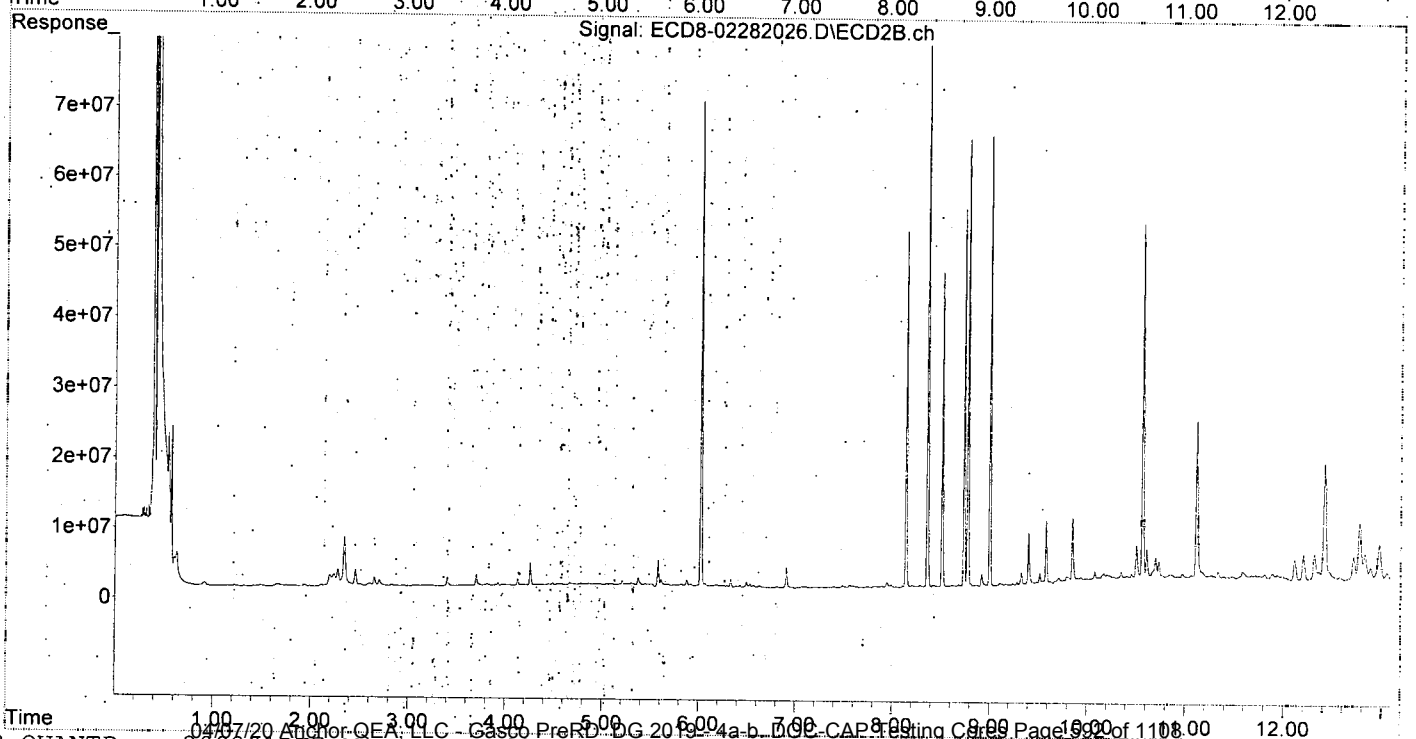
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B28030\
Data File : ECD8-02282026.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2020 19:15
Operator : MJB
Sample : 0020808-MSD1@2
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Mar 02 10:53:48 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B28030\
Data File : ECD8-02282028.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2020 19:52
Operator : MJB
Sample : A0B0680-01RE1(5)
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Mar 02 10:53:52 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 3/2/20

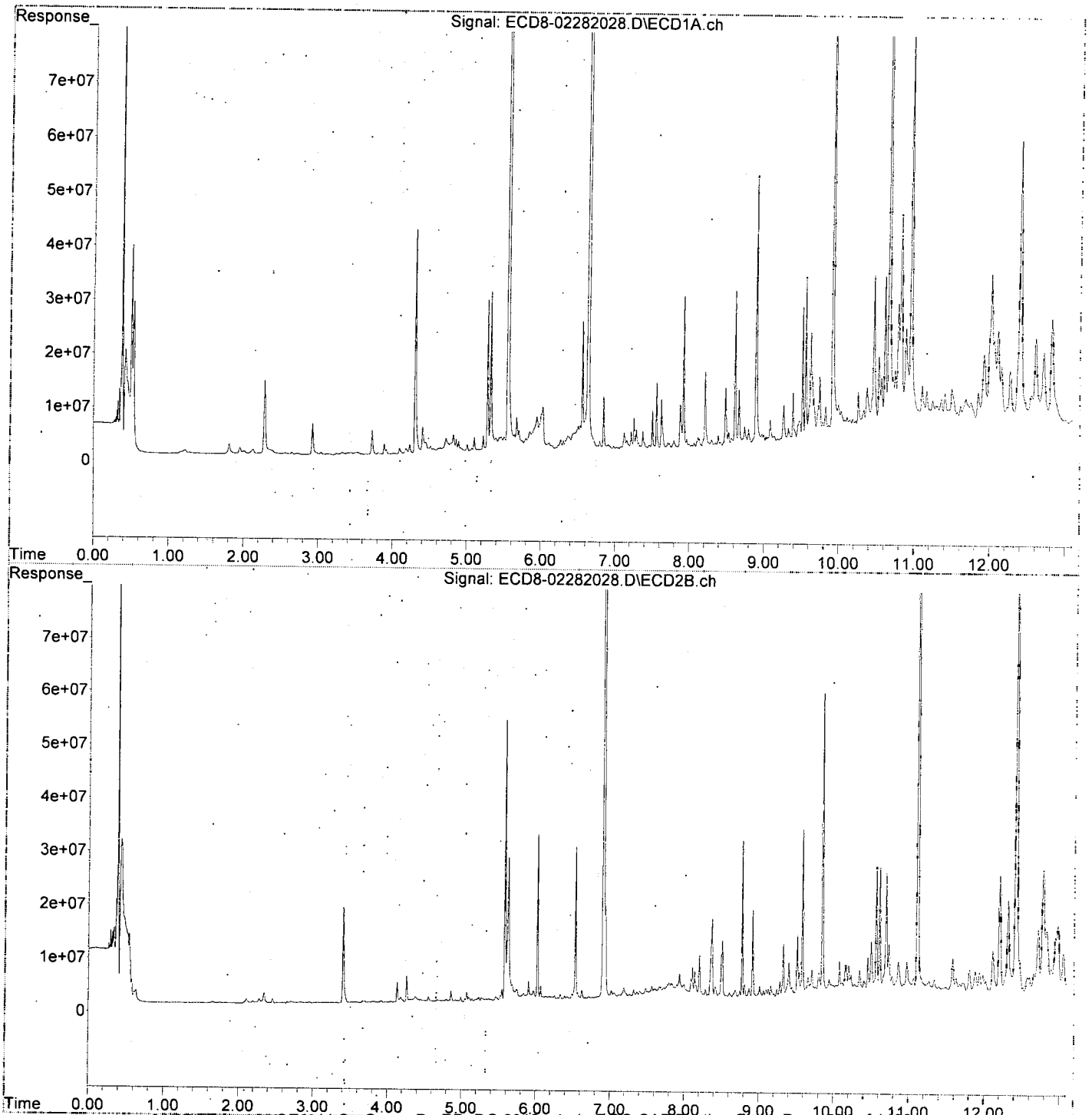
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.319	6.020	29743409	30954241	8.508	8.973	
22)	S	DCBP (S)	9.515	10.565	24745316	23678546	9.316	11.096	
		Target Compounds							
2)		a-BHC	5.847	6.618	3595904	1798420	0.761	0.497	#
3)		g-BHC	6.146	6.934	904051	17406039	0.217	4.472	#
4)		b-BHC	6.200	7.017	495582	1641991	0.285	0.946	#
5)		Heptachlor	6.556	7.319	23800719	1701568	5.791	0.404	#
6)		d-BHC	6.355	7.256	2604468	827935	0.860	0.334	#
7)		Aldrin	6.791	7.563	1521977	2280273	0.377	0.621	#
8)		Heptachlo...	7.252	7.995	5595033	2584517	1.515	0.720	#
9)		trans-Chl...	7.338	8.139	504237	4957062	0.134	1.333	#
10)		cis-Chlor...	7.422	8.260	255021	658982	0.069	0.187	#
11)		Endosulfa...	7.556f	8.317	12080587	656790	3.483	0.199	#
12)		4,4'-DDE	7.500	8.371	6921881	14734746	2.084	4.780	# P-11
13)		Dieldrin	7.709	8.511	918396	10727817	0.241	3.083	#
14)		Endrin	7.875	8.741	7891905	1183833	2.418	0.404	#
15)		4,4'-DDD	7.919	8.776	28078883	29094853	11.033	12.117	
16)		Endosulfa...	8.029	8.867f	326716	1609513	0.109	0.580	#
17)		4,4'-DDT	8.115	9.011	1693540	1984428	0.630	0.783	
18)		Endrin Al...	8.298	9.128	1107224	1392472	0.421	0.527	#
19)		Endosulfa...	8.611	9.327	28454069	9758008	9.941	3.791	#
20)		Methoxychlor	8.484	9.473	10749270	750466	8.908	0.334	#
21)		Endrin Ke...	8.793	9.707	2696305	4776068	0.780	1.468	#
23)		Hexachlor...	3.110	3.749f	232288	156108	0.060	0.032	#
24)		Hexachlor...	5.700	6.487	3864793	1179687	1.150	0.356	#
25)		Oxychlordane	7.183	7.934	727442	4550198	0.057	1.423	#
26)		2,4'-DDE	7.252	8.139	5595033	4957062	2.420	2.181	
27)		trans-Non...	7.422	8.233	255021	1132005	0.070	0.314	#
28)		2,4'-DDD	7.620	8.510	8860338	10783929	4.575m	5.633m	
29)		2,4'-DDT	7.791	8.741	1226527	1183833	0.513	0.507	
30)		cis-Nonac...	7.919	8.776	28078883	29094853	6.900	7.301	
31)		Mirex	8.563	9.707	1222024	4776068	0.298	2.054	#
32)		Chlordane...	7.372	8.202	3115840	7904940	7.780	18.194	#
33)		Chlordane...	7.458	8.284	560762	1534544	1.153	4.221	#
34)		Chlordane...	8.029	8.944	326716	478831	2.509	4.032	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.500	8.565	6921881	269367	422.855	9.141	#
37)		Toxaphene...	7.791	8.916	1226527	16246002	39.042	404.241	#
38)		Toxaphene...	8.063f	8.944	630945	478831	5.804	7.401	#
39)		Toxaphene...	8.328	9.011	268068	1984428	BelowCal	16.432	
40)		Toxaphene...	8.563	9.161	1222024	1977655	22.546	34.496	#
41)		Toxaphene...	8.611	9.537	28454069	4419500	374.129	66.908	#
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 (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B28030\
Data File : ECD8-02282028.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2020 19:52
Operator : MJB
Sample : A0B0680-01RE1@5
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 17 Sample Multiplier: 1

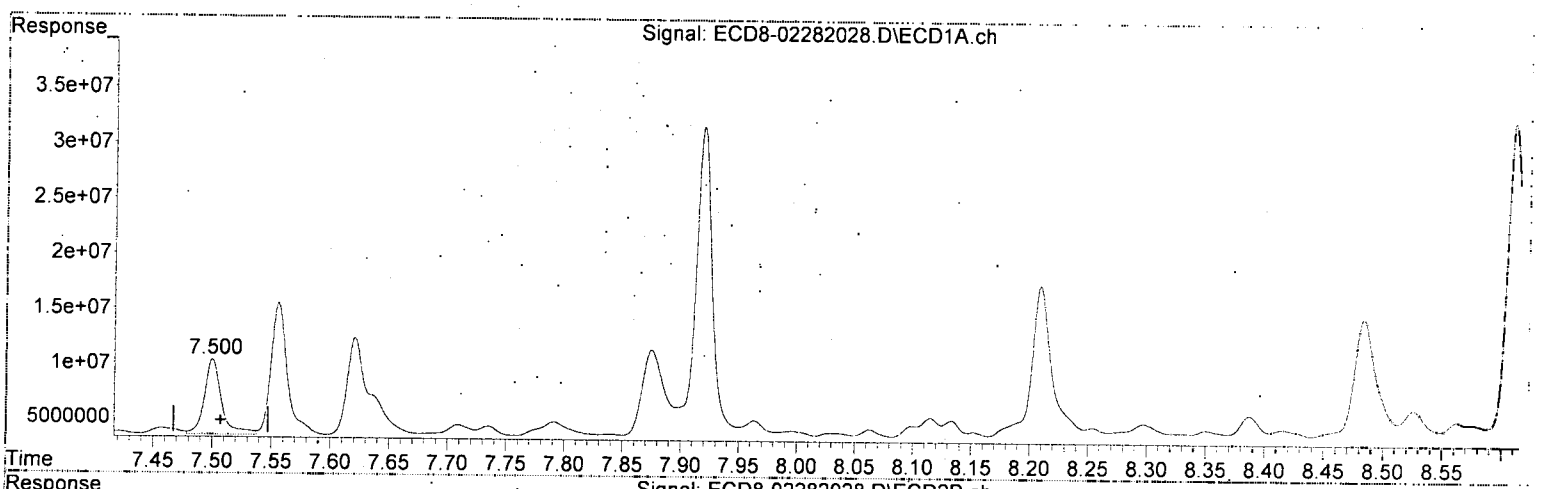
Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Mar 02 10:53:52 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

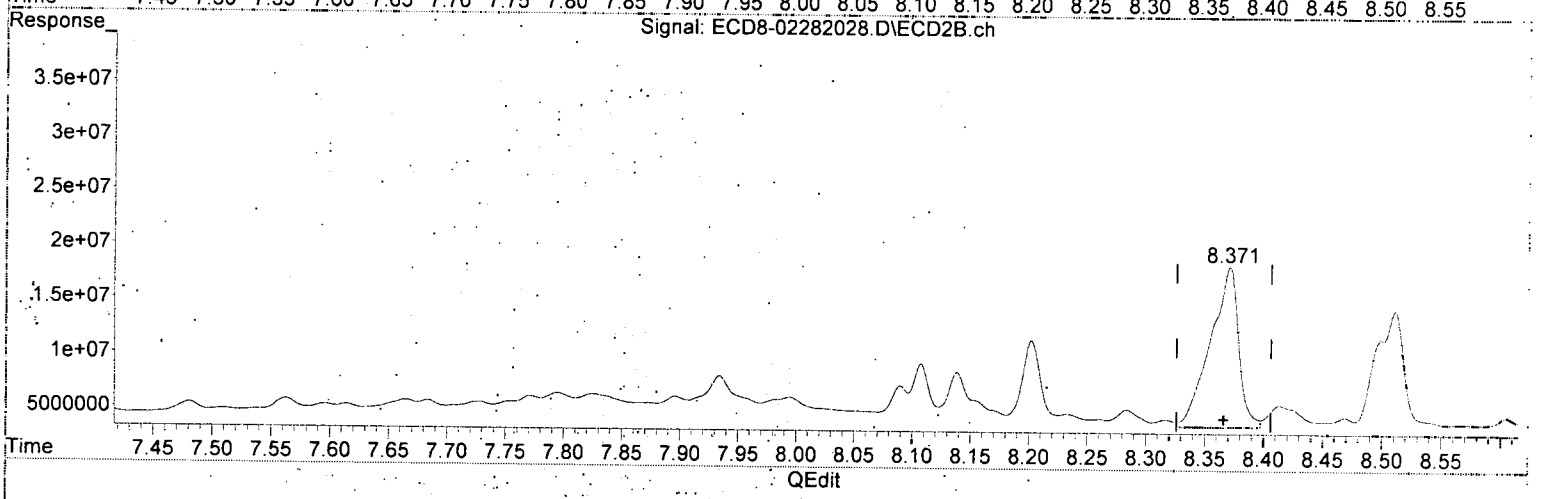


Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B28030\
Data File : ECD8-02282028.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2020 19:52
Operator : MJB
Sample : A0B0680-01RE1@5
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Mar 02 10:53:52 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.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
7.500min 2.084 ng/mL
response 6921881

P-11

WB 3/12/20

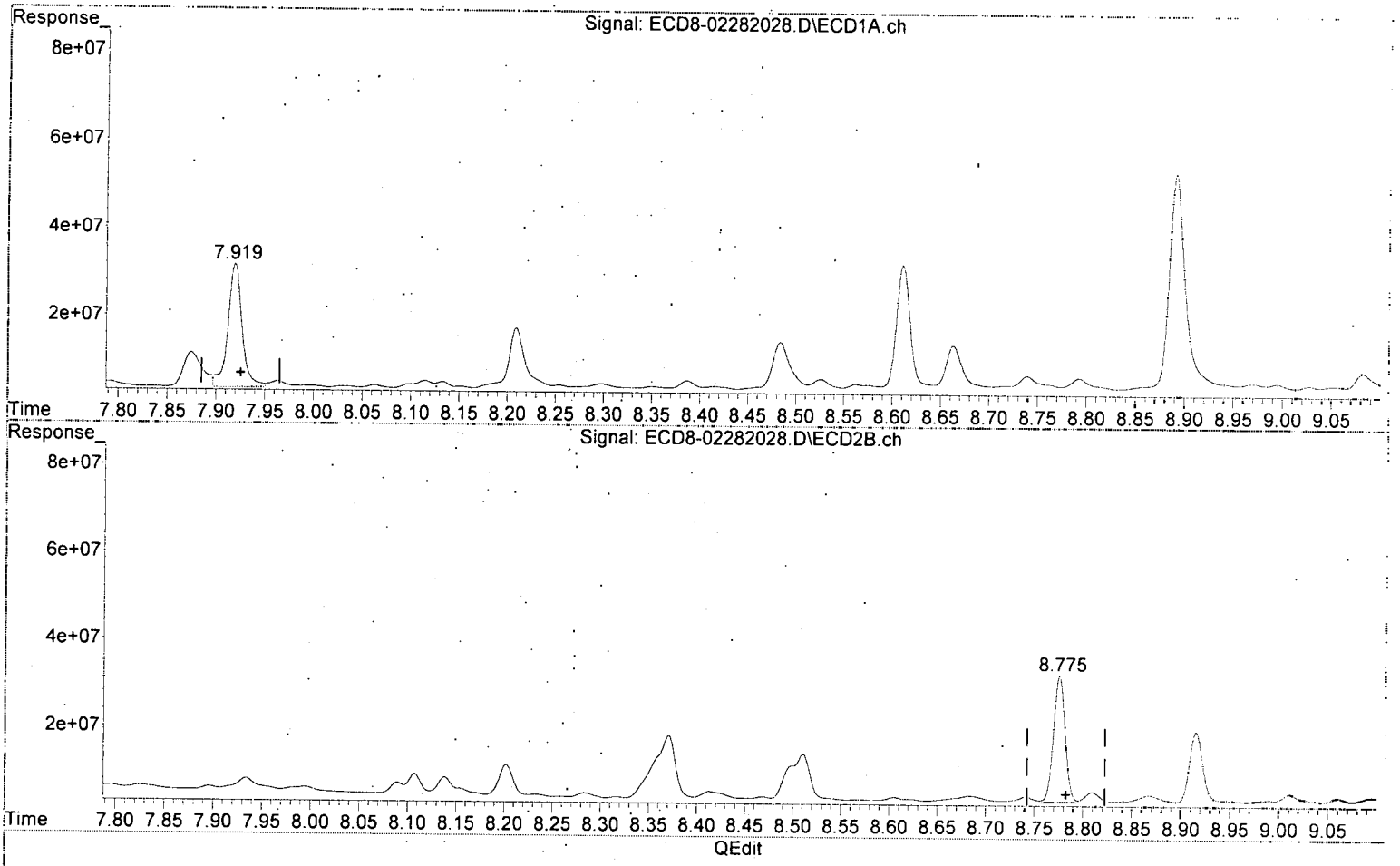
(12) 4,4'-DDE #2
8.371min 4.780 ng/mL
response 14734746

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B28030\
Data File : ECD8-02282028.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2020 19:52
Operator : MJB
Sample : A0B0680-01RE1@5
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Mar 02 10:53:52 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(15) 4,4'-DDD

7.919min 11.033 ng/mL

response 28078883

MJB 3/2/20

(15) 4,4'-DDD #2

8.776min 12.117 ng/mL

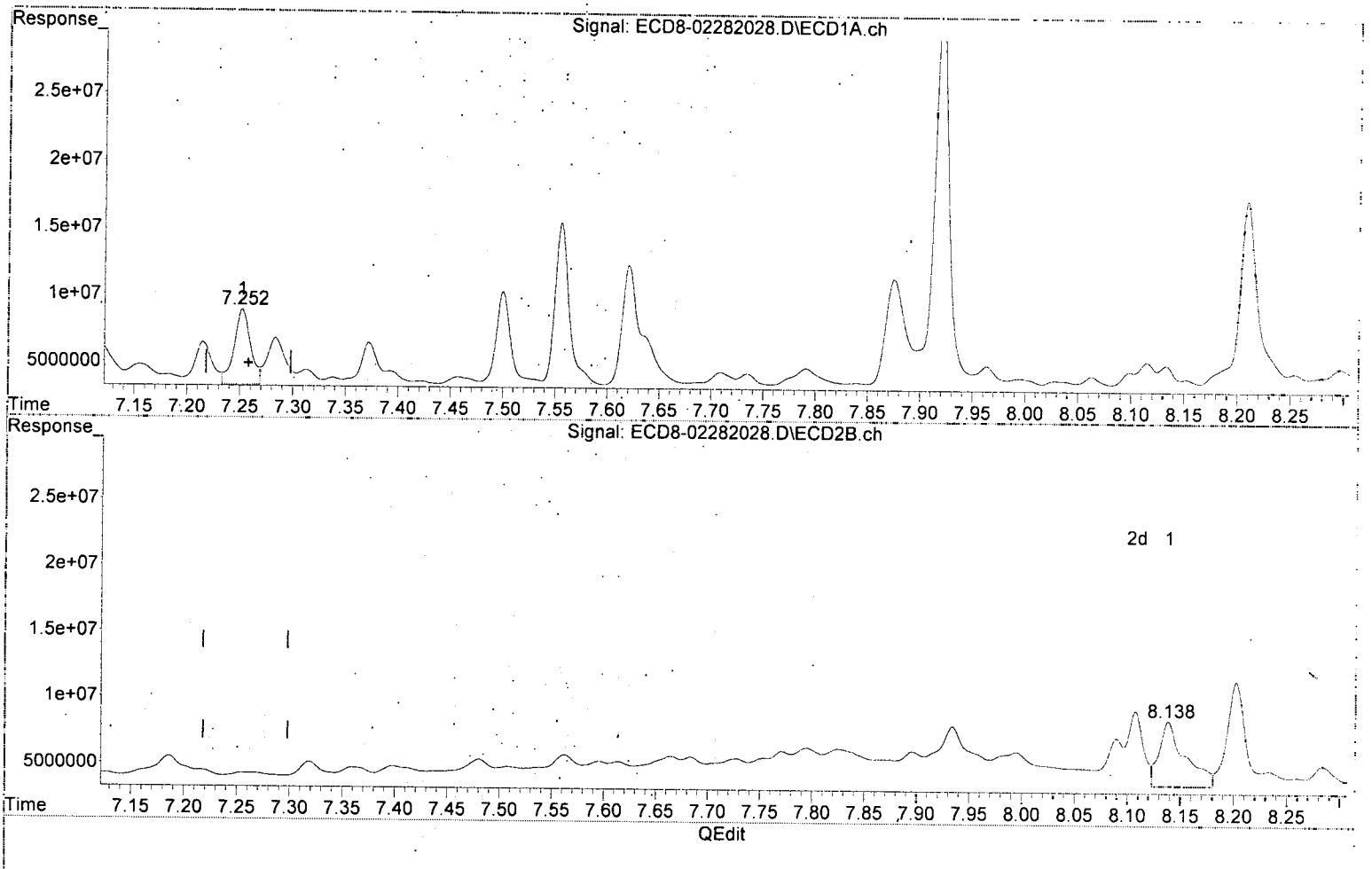
response 29094853

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B28030\
Data File : ECD8-02282028.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2020 19:52
Operator : MJB
Sample : A0B0680-01RE1@5
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Mar 02 10:53:52 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(26) 2,4'-DDE

7.252min 2.420 ng/mL

response 5595033

MJB 3/2/20

(26) 2,4'-DDE #2

8.139min 2.181 ng/mL

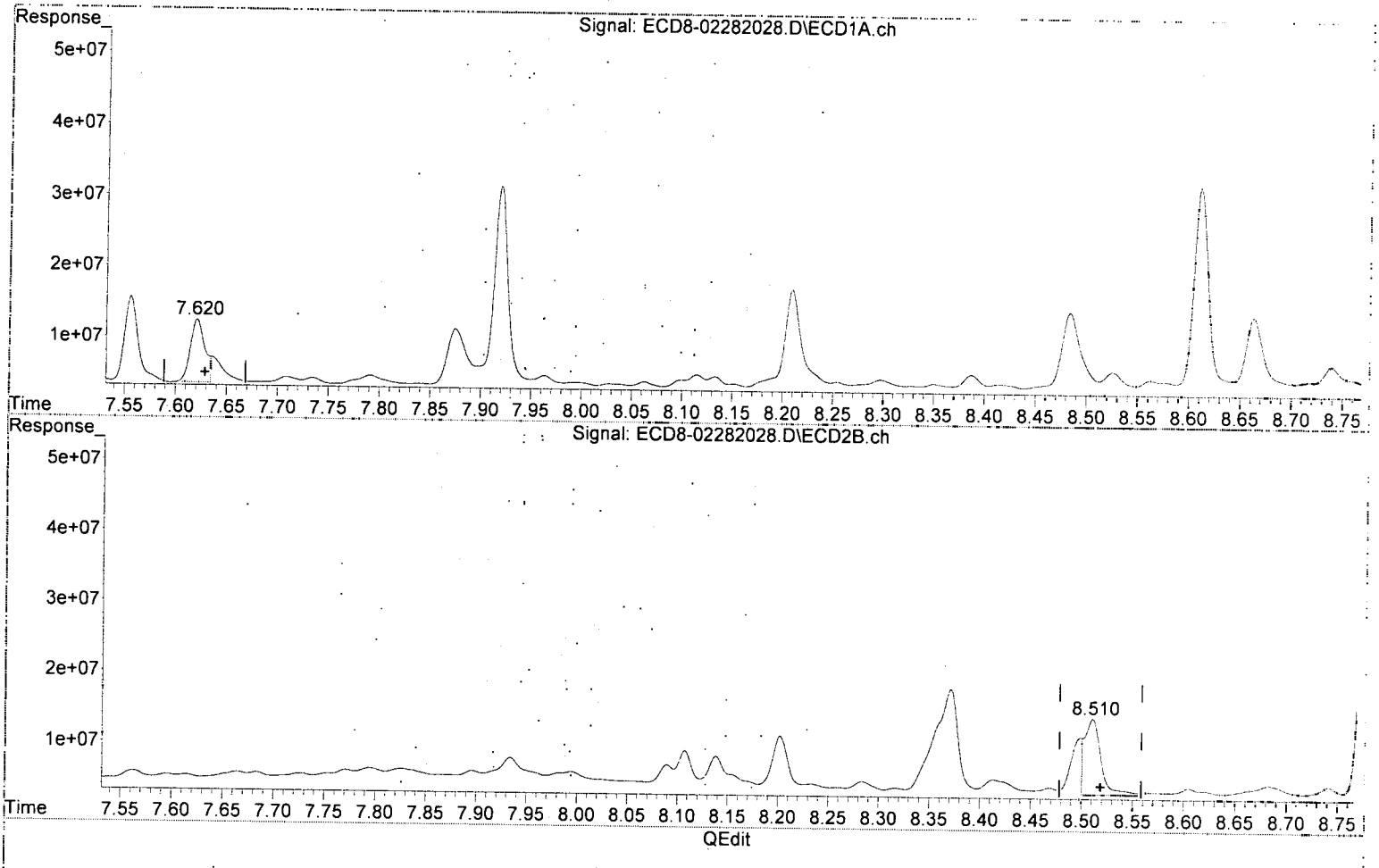
response 4957062

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B28030\
Data File : ECD8-02282028.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2020 19:52
Operator : MJB
Sample : A0B0680-01RE1@5
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Mar 02 10:53:52 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(28) 2,4'-DDD

7.620min 4.575 ng/mL m

response 8860338

MJB 3/2/20

(28) 2,4'-DDD #2

8.510min 5.633 ng/mL m

response 10783929

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B28030\
Data File : ECD8-02282028.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2020 19:52
Operator : MJB
Sample : A0B0680-01RE1@5
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Mar 02 10:53:52 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MI
MJP 3/2/20

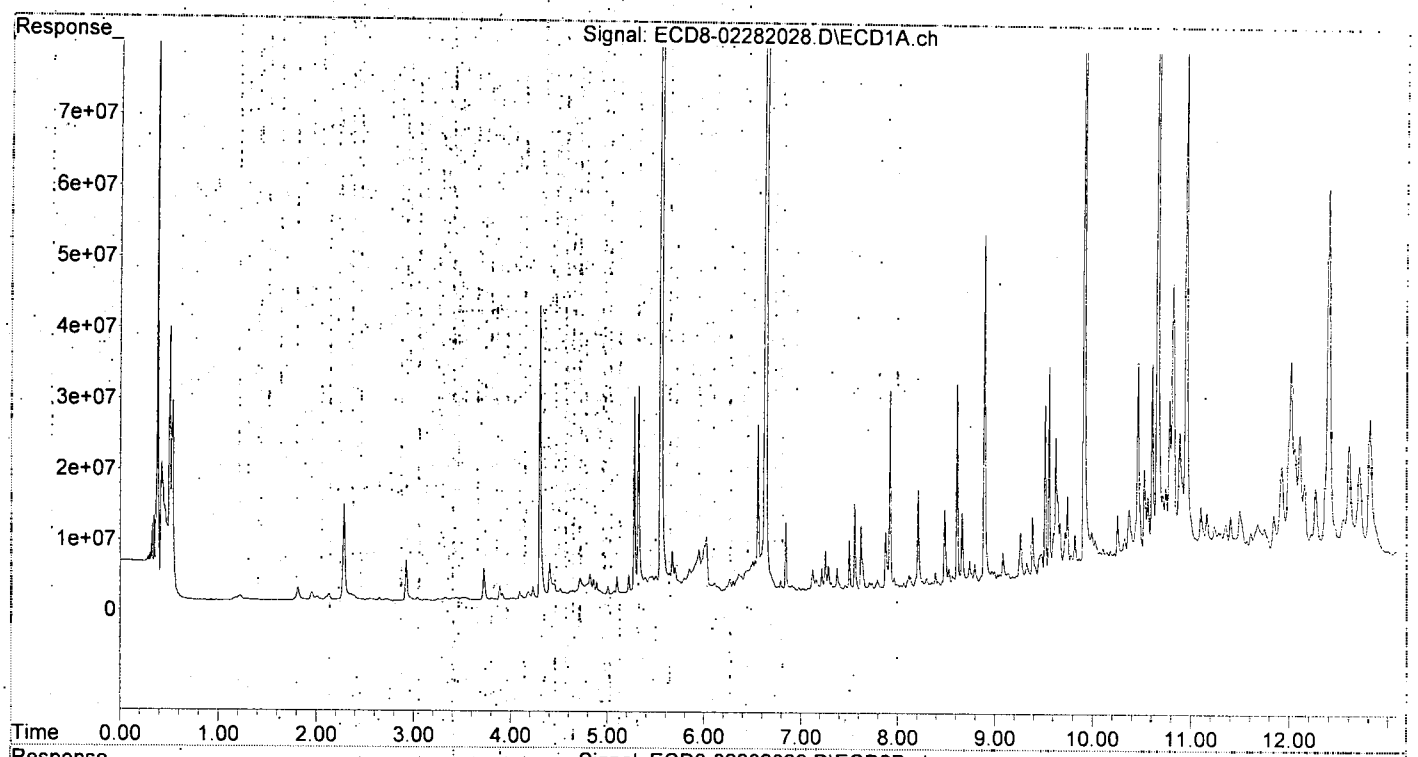
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.319	6.020	29743409	30954241	8.508	8.973	
22)	S DCBP (S)	9.515	10.565	24745316	23678546	9.316	11.096	
	Target Compounds							
2)	a-BHC	5.847	6.618	3595904	1798420	0.761	0.497	#
3)	g-BHC	6.146	6.934	904051	17406039	0.217	4.472	#
4)	b-BHC	6.200	7.017	495582	1641991	0.285	0.946	#
5)	Heptachlor	6.556	7.319	23800719	1701568	5.791	0.404	#
6)	d-BHC	6.355	7.256	2604468	827935	0.860	0.334	#
7)	Aldrin	6.791	7.563	1521977	2280273	0.377	0.621	#
8)	Heptachlo...	7.252	7.995	5595033	2584517	1.515	0.720	#
9)	trans-Chl...	7.338	8.139	504237	4957062	0.134	1.333	#
10)	cis-Chlor...	7.422	8.260	255021	658982	0.069	0.187	#
11)	Endosulfa...	7.556f	8.317	12080587	656790	3.483	0.199	#
12)	4,4'-DDE	7.500	8.371	6921881	14734746	2.084	4.780	#
13)	Dieldrin	7.709	8.511	918396	10727817	0.241	3.083	#
14)	Endrin	7.875	8.741	7891905	1183833	2.418	0.404	#
15)	4,4'-DDD	7.919	8.776	28078883	29094853	11.033	12.117	
16)	Endosulfa...	8.029	8.867f	326716	1609513	0.109	0.580	#
17)	4,4'-DDT	8.115	9.011	1693540	1984428	0.630	0.783	
18)	Endrin Al...	8.298	9.128	1107224	1392472	0.421	0.527	#
19)	Endosulfa...	8.611	9.327	28454069	9758008	9.941	3.791	#
20)	Methoxychlor	8.484	9.473	10749270	750466	8.908	0.334	#
21)	Endrin Ke...	8.793	9.707	2696305	4776068	0.780	1.468	#
23)	Hexachlor...	3.110	3.749f	232288	156108	0.060	0.032	#
24)	Hexachlor...	5.700	6.487	3864793	1179687	1.150	0.356	#
25)	Oxychlordane	7.183	7.934	727442	4550198	0.057	1.423	#
26)	2,4'-DDE	7.252	8.139	5595033	4957062	2.420	2.181	
27)	trans-Non...	7.422	8.233	255021	1132005	0.070	0.314	#
28)	2,4'-DDD	7.621	8.511	8904200	10727817	4.597	5.604	
29)	2,4'-DDT	7.791	8.741	1226527	1183833	0.513	0.507	
30)	cis-Nonac...	7.919	8.776	28078883	29094853	6.900	7.301	
31)	Mirex	8.563	9.707	1222024	4776068	0.298	2.054	#
32)	Chlordane...	7.372	8.202	3115840	7904940	7.780	18.194	#
33)	Chlordane...	7.458	8.284	560762	1534544	1.153	4.221	#
34)	Chlordane...	8.029	8.944	326716	478831	2.509	4.032	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.500	8.565	6921881	269367	422.855	9.141	#
37)	Toxaphene...	7.791	8.916	1226527	16246002	39.042	404.241	#
38)	Toxaphene...	8.063f	8.944	630945	478831	5.804	7.401	#
39)	Toxaphene...	8.328	9.011	268068	1984428	BelowCal	16.432	
40)	Toxaphene...	8.563	9.161	1222024	1977655	22.546	34.496	#
41)	Toxaphene...	8.611	9.537	28454069	4419500	374.129	66.908	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

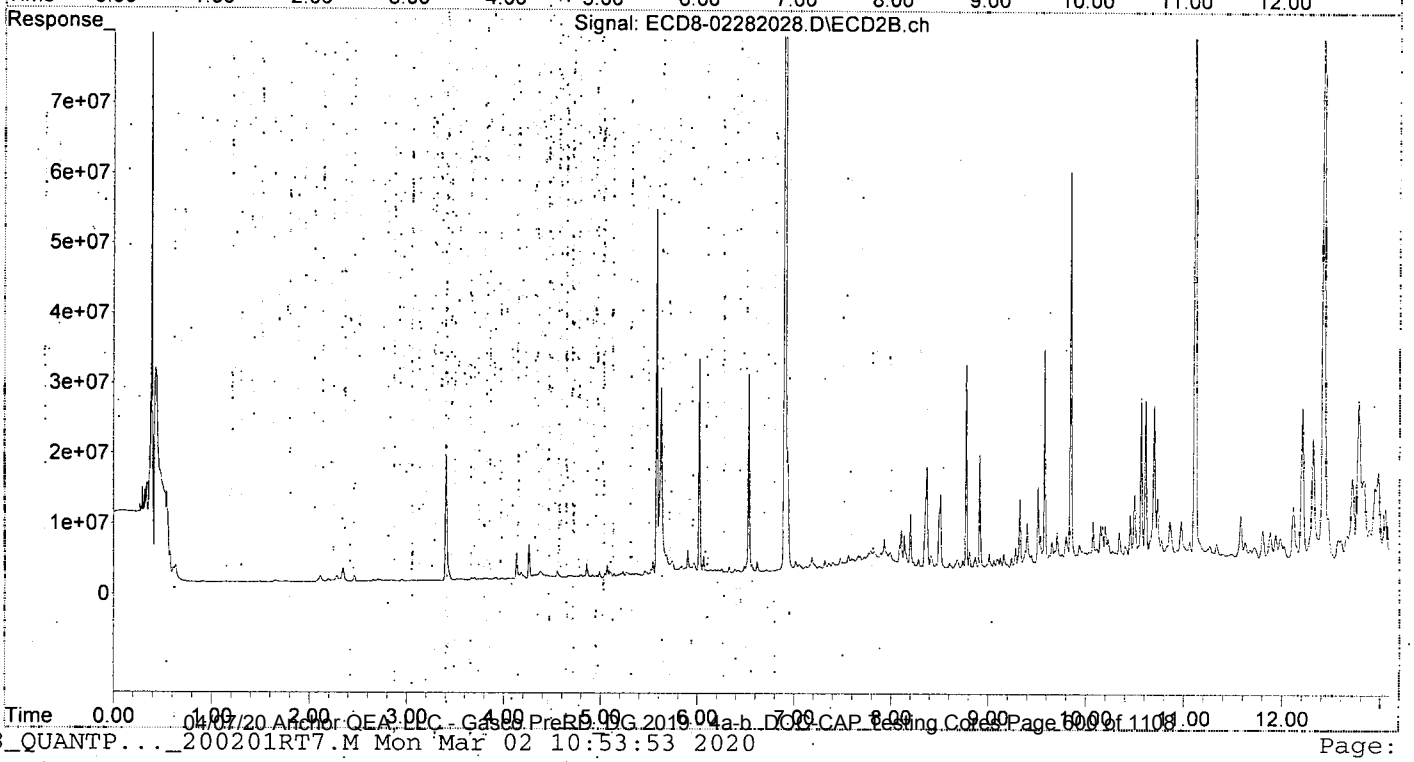
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B28030\
Data File : ECD8-02282028.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2020 19:52
Operator : MJB
Sample : A0B0680-01RE1@5
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Mar 02 10:53:52 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B28030\
Data File : ECD8-02282030.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2020 20:30
Operator : MJB
Sample : A0B0680-02RE1@5
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Mar 02 10:53:56 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 3/2/20

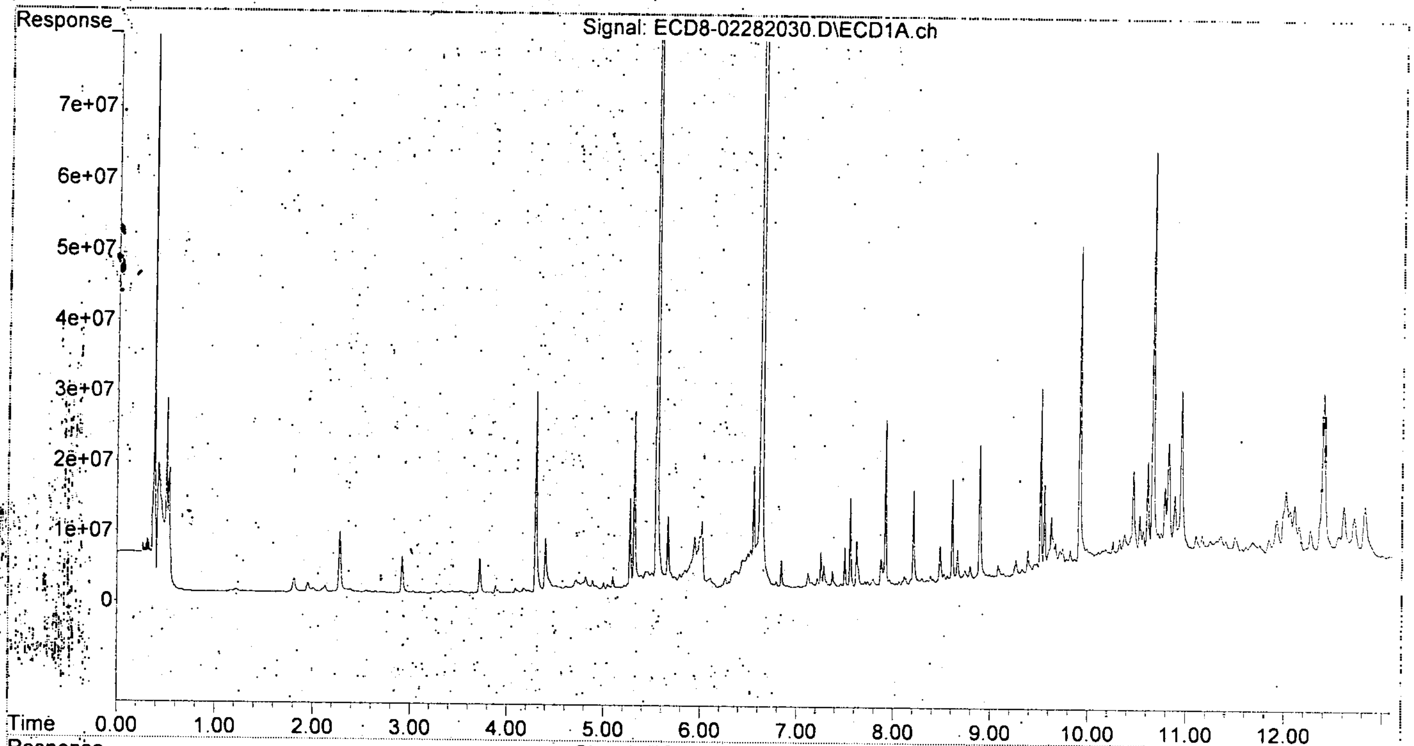
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S TCMX (S)	5.317	6.018	25602363	30064332	7.323	8.715
22)	S DCBP (S)	9.515	10.565	26876385	29957977	10.143	14.126 # S-04
	Target Compounds						
2)	a-BHC	5.846	6.617	2760336	4316417	0.584	1.085 #
3)	g-BHC	6.106f	6.934	1630545	13598797	0.392	3.508 #
4)	b-BHC	6.199	7.017	355559	4637442	0.204	2.671 #
5)	Heptachlor	6.554	7.319	17426957	4981154	4.240	1.183 #
6)	d-BHC	6.359	7.255	2563125	4406148	0.848	1.353 #
7)	Aldrin	6.790	7.562	962548	6070010	0.238	1.631 #
8)	Heptachlo...	7.252	7.980f	4983007	6700386	1.349	1.867 #
9)	trans-Chl...	7.336	8.138	394274	8911785	0.105	2.397 #
10)	cis-Chlor...	7.458	8.258	417434	5148638	0.114	1.462 #
11)	Endosulfa...	7.555f	8.315	12495927	5170839	3.602	1.565 #
12)	4,4'-DDE	7.499	8.370	5486486	14862295	1.652	4.820m# P-11
13)	Dieldrin	7.707	8.511	631676	12221112	0.166	3.506 #
14)	Endrin	7.875	8.741	3824004	5418733	1.172	1.874 #
15)	4,4'-DDD	7.918	8.775	23558555	24787644	9.257	10.376m
16)	Endosulfa...	8.039	8.866f	224034	5651834	0.075	2.106 #
17)	4,4'-DDT	8.115	9.008	1220856	1330000	0.454	0.517m
18)	Endrin Al...	8.327	9.128	312508	5646083	0.119	2.136 #
19)	Endosulfa...	8.610	9.326	14652996	10282246	5.120	3.998
20)	Methoxychlor	8.483	9.472	5302446	5993446	4.394	5.223
21)	Endrin Ke...	8.793	9.708	2196993	8159605	0.636	2.661 #
23)	Hexachlor...	3.108	3.743	204158	1444455	0.052	0.298 #
24)	Hexachlor...	5.731f	6.488	1835215	3595451	0.546	1.197 #
25)	Oxychlordane	7.182	7.934	417027	8111866	BelowCal	2.536
26)	2,4'-DDE	7.252	8.137	4983007	4651503	2.155	2.046m
27)	trans-Non...	7.458f	8.202	417434	14701156	0.114	4.073 #
28)	2,4'-DDD	7.620	8.511	6494315	8053567	3.353m	4.207m#
29)	2,4'-DDT	7.792	8.741	967172	5418733	0.404	2.485 #
30)	cis-Nonac...	7.918	8.775	23558555	28687440	5.789	7.198
31)	Mirex	8.561	9.708	961738	8159605	0.191	3.685 #
32)	Chlordane...	7.372	8.202	2227496	14701156	5.562	33.837 #
33)	Chlordane...	7.458	8.282	417434	5603746	0.858	15.414 #
34)	Chlordane...	7.996f	8.916f	285052	21306632	2.189	179.416 #
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36)	Toxaphene...	7.499	8.566	5486486	4938776	335.167	167.592 #
37)	Toxaphene...	7.792	8.916	967172	21306632	30.787	530.162 #
38)	Toxaphene...	8.098	8.916	558521	21306632	4.775	329.332 #
39)	Toxaphene...	8.327	9.009	312508	6291031	BelowCal	60.963
40)	Toxaphene...	8.561	9.161	961738	5871984	17.743	102.426 #
41)	Toxaphene...	8.610	9.536	14652996	7839407	192.665	118.682 #
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

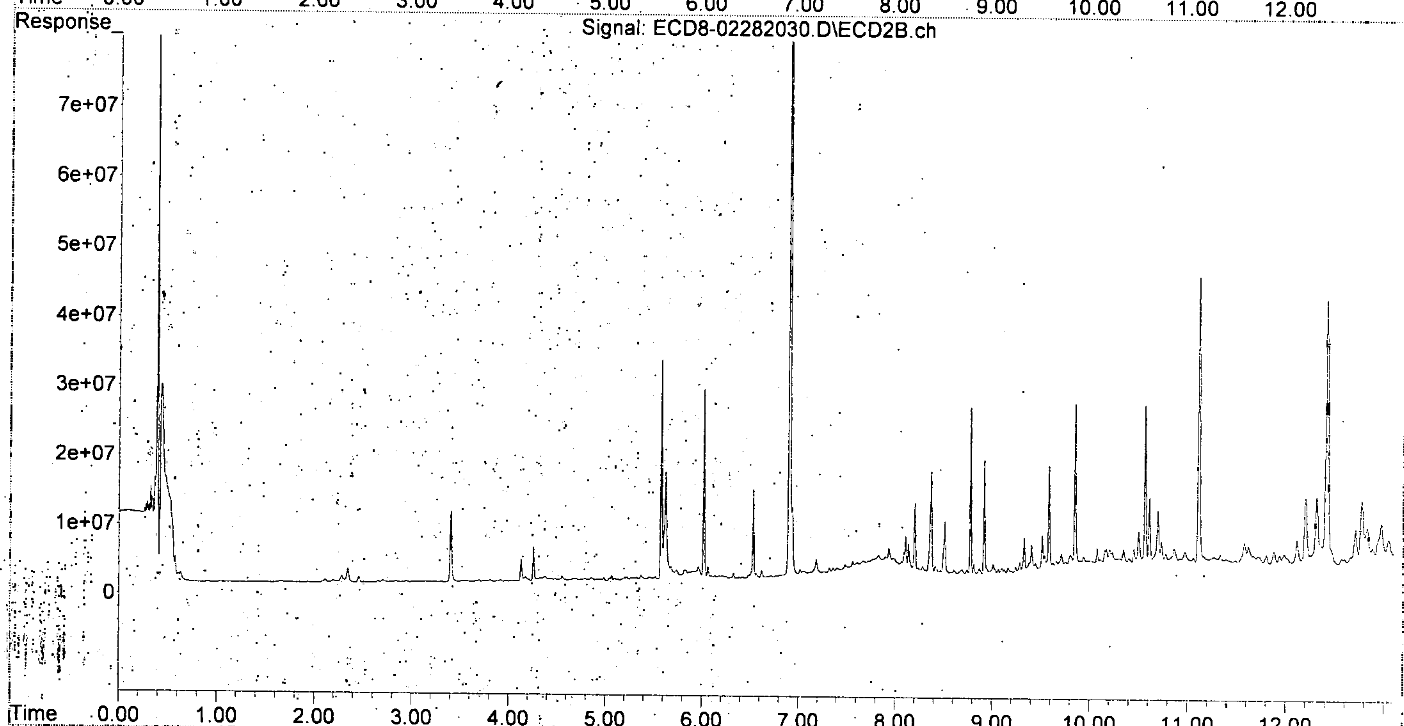
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B28030\
Data File : ECD8-02282030.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2020 20:30
Operator : MJB
Sample : A0B0680-02RE1@5
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Mar 02 10:53:56 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

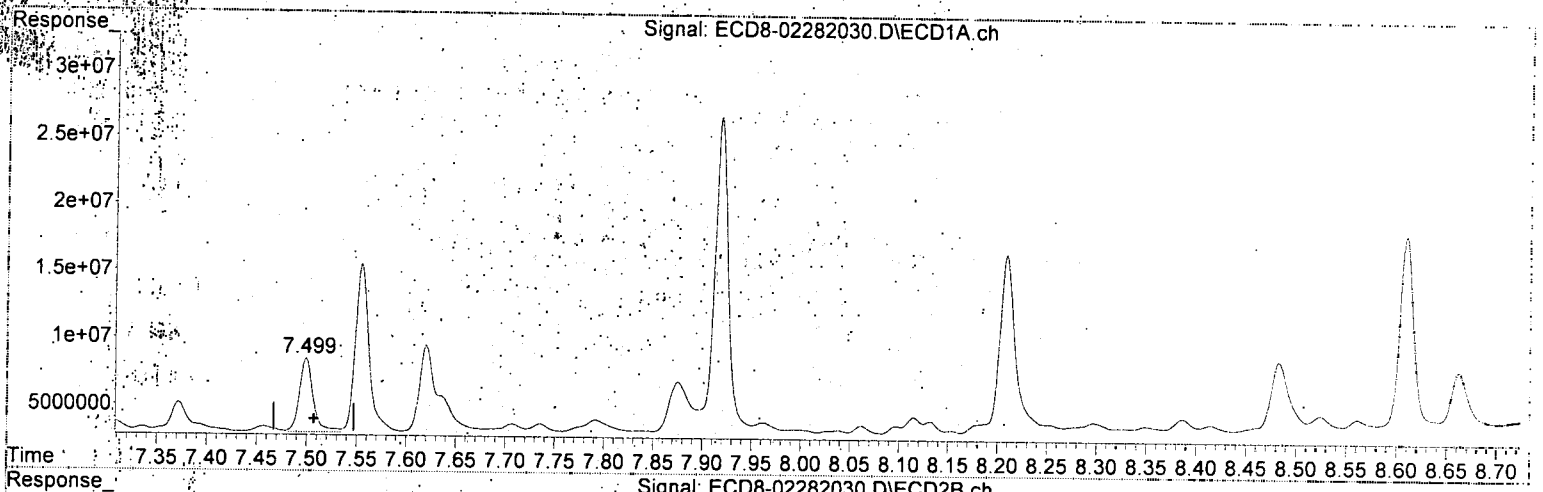


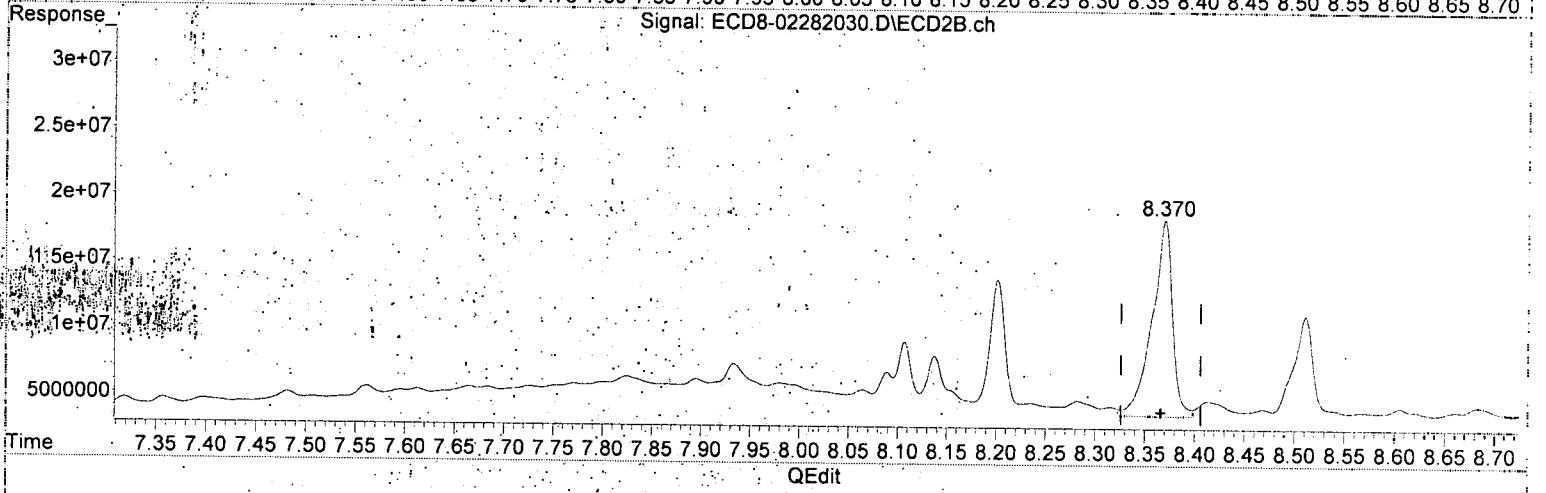


Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B28030\
Data File : ECD8-02282030.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2020 20:30
Operator : MJB
Sample : A0B0680-02RE1@5
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Mar 02 10:53:56 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





(12) 4,4'-DDE

7.499min 1.652 ng/mL

response 5486486

MJB 3/2/20

(12) 4,4'-DDE #2

8.370min 4.820 ng/mL (m)

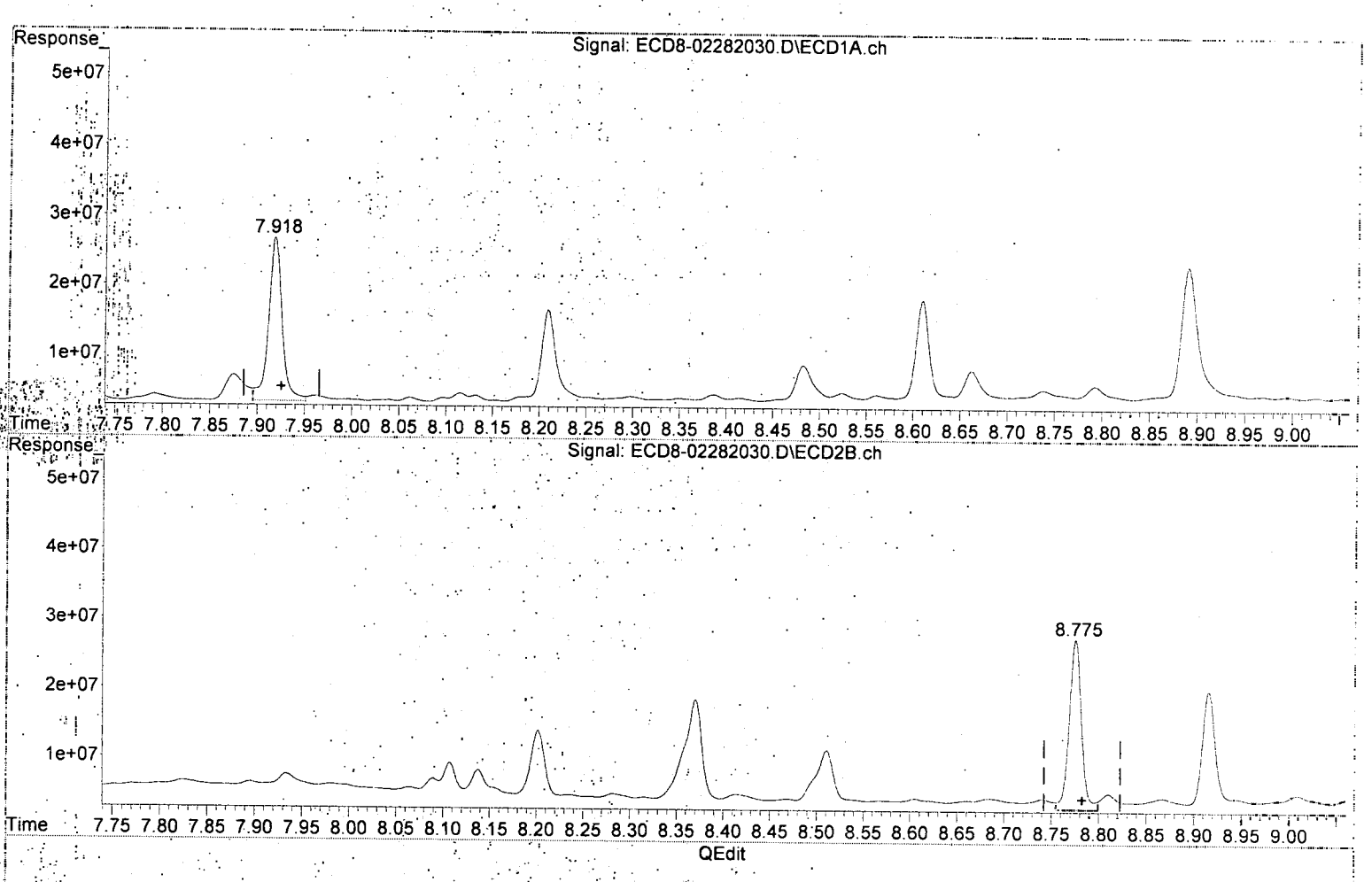
response 14862295

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B28030\
Data File : ECD8-02282030.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2020 20:30
Operator : MJB
Sample : A0B0680-02RE1@5
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Mar 02 10:53:56 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(15) 4,4'-DDD

7.918min 9.257 ng/mL

response 23558555

MB 2/2/20

(15) 4,4'-DDD #2

8.775min 10.376 ng/mL (m)

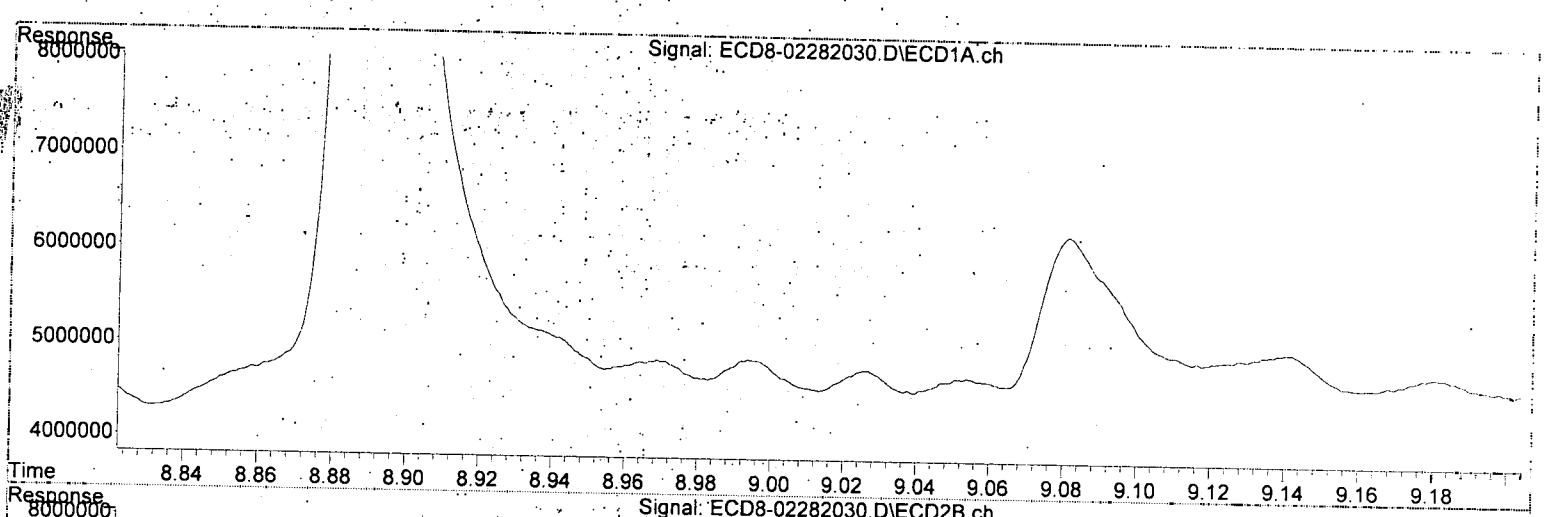
response 24787644

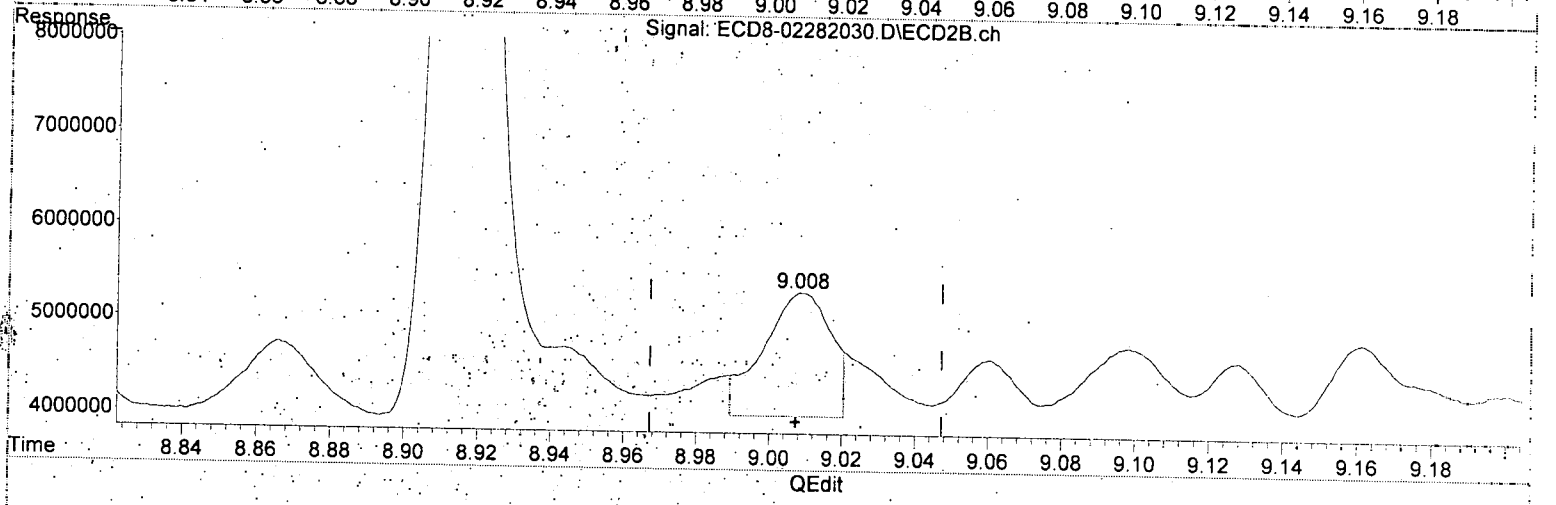
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B28030\
Data File : ECD8-02282030.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2020 20:30
Operator : MJB
Sample : A0B0680-02RE1@5
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Mar 02 10:53:56 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





(17) 4,4'-DDT

8.115min 0.454 ng/mL

response 1220856

MJB 3/2/20

(17) 4,4'-DDT #2

9.008min 0.517 ng/mL (m)

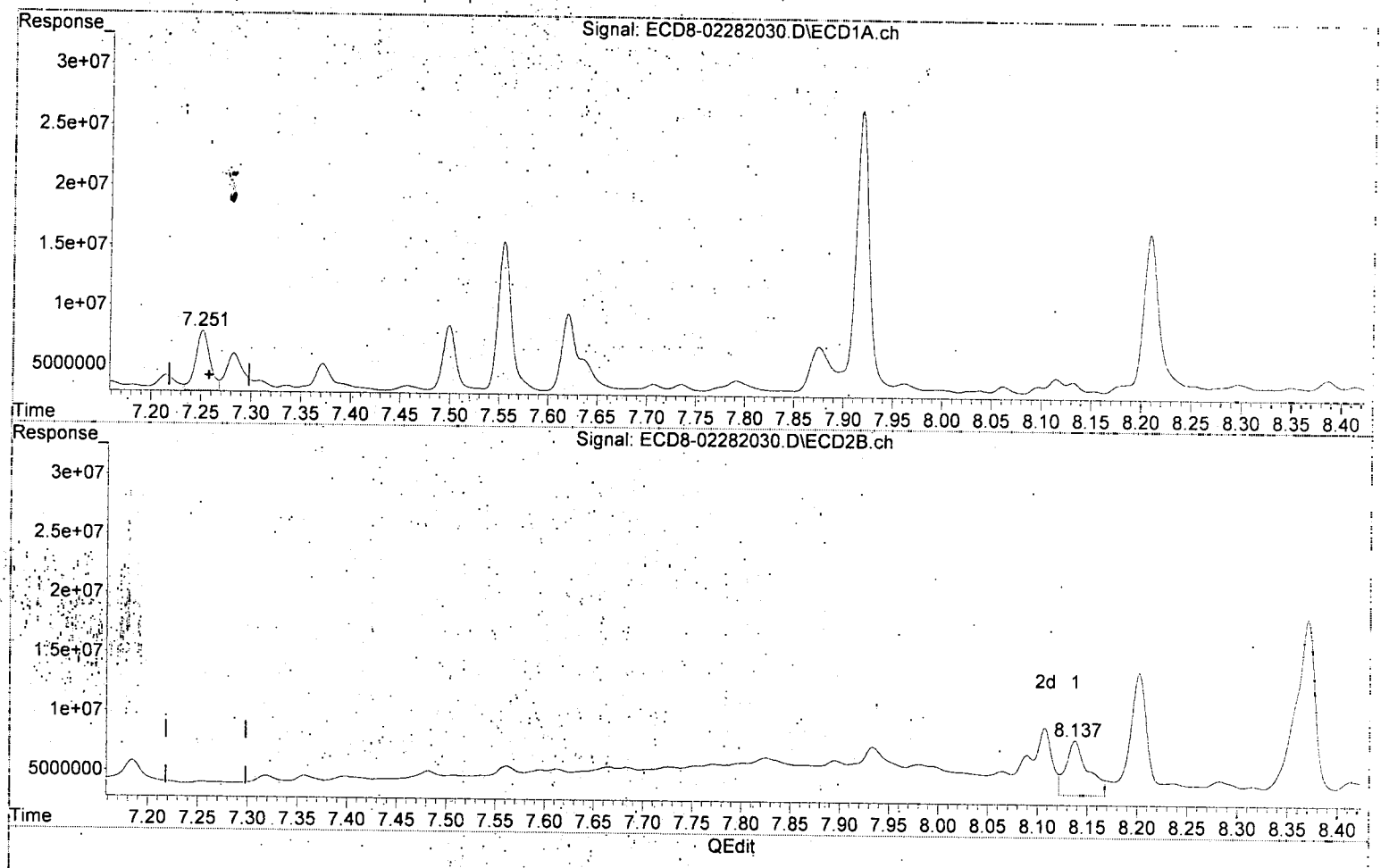
response 1330000

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B28030\
Data File : ECD8-02282030.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2020 20:30
Operator : MJB
Sample : A0B0680-02RE1@5
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Mar 02 10:53:56 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(26) 2,4'-DDE

7.252min 2.155 ng/mL

response 4983007

MJB 3/2/20

(26) 2,4'-DDE #2

8.137min 2.046 ng/mL (m)

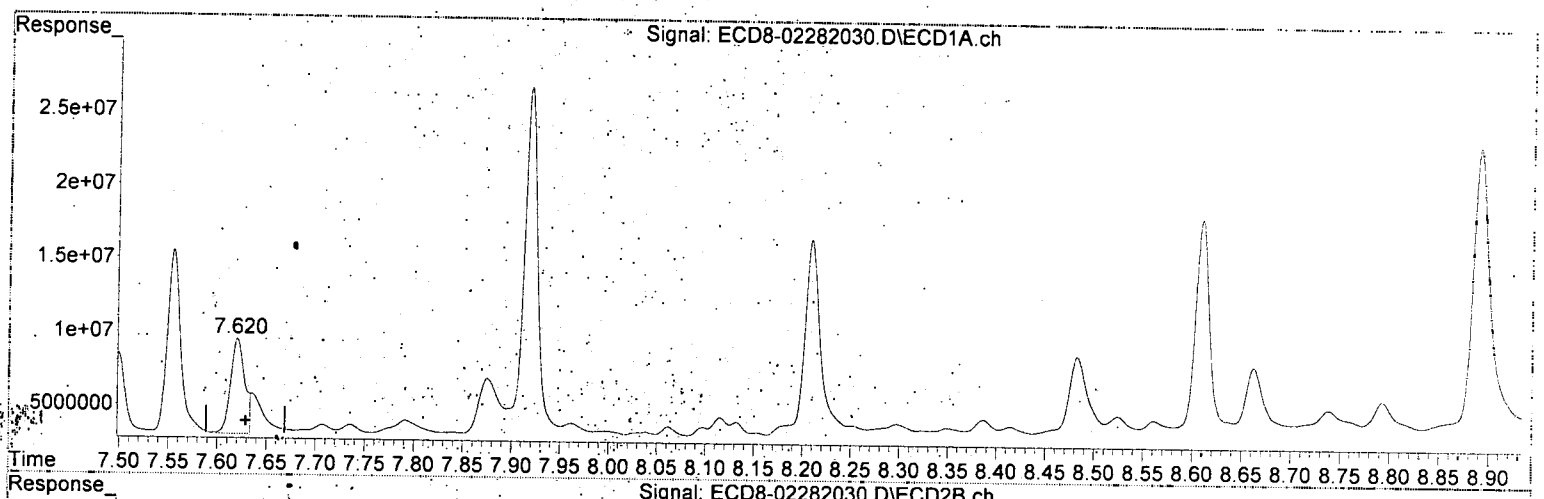
response 4651503

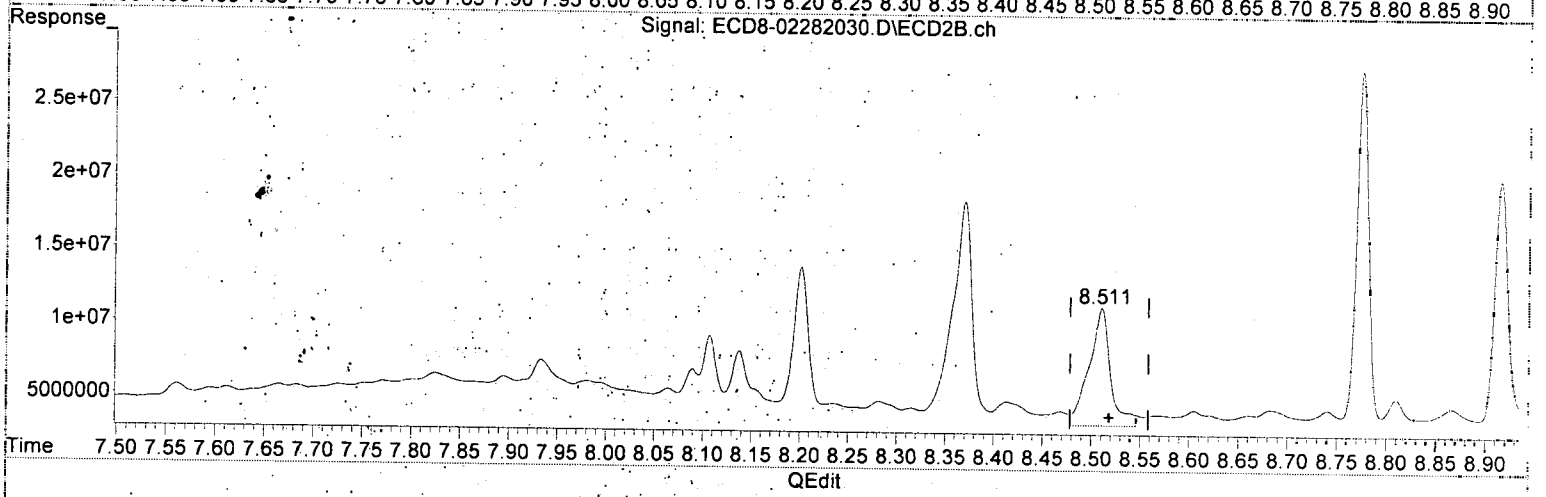
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B28030\
Data File : ECD8-02282030.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2020 20:30
Operator : MJB
Sample : A0B0680-02RE1@5
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Mar 02 10:53:56 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





QEdit

(28) 2,4'-DDD

7.620min 3.353 ng/mL m

response 6494315

MJB 3/2/20

(28) 2,4'-DDD #2

8.511min 4.207 ng/mL m

response 8053567

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B28030\
Data File : ECD8-02282030.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2020 20:30
Operator : MJB
Sample : A0B0680-02RE1@5
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Mar 02 10:53:56 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 3/2/20

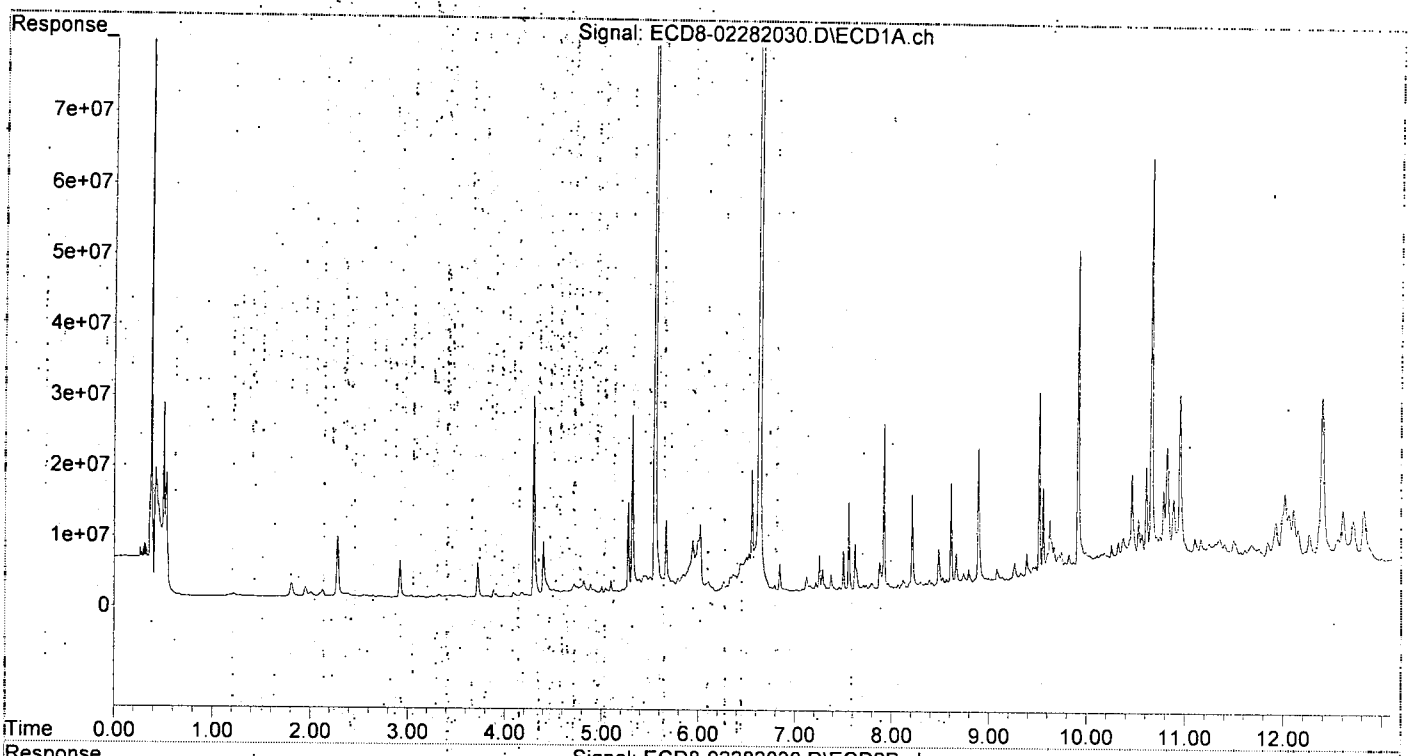
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.317	6.018	25602363	30064332	7.323	8.715	
22)	S DCBP (S)	9.515	10.565	26876385	29957977	10.143	14.126	#
	Target Compounds							
2)	a-BHC	5.846	6.617	2760336	4316417	0.584	1.085	#
3)	g-BHC	6.106f	6.934	1630545	13598797	0.392	3.508	#
4)	b-BHC	6.199	7.017	355559	4637442	0.204	2.671	#
5)	Heptachlor	6.554	7.319	17426957	4981154	4.240	1.183	#
6)	d-BHC	6.359	7.255	2563125	4406148	0.848	1.353	#
7)	Aldrin	6.790	7.562	962548	6070010	0.238	1.631	#
8)	Heptachlo...	7.252	7.980f	4983007	6700386	1.349	1.867	#
9)	trans-Chl...	7.336	8.138	394274	8911785	0.105	2.397	#
10)	cis-Chlor...	7.458	8.258	417434	5148638	0.114	1.462	#
11)	Endosulfa...	7.555f	8.315	12495927	5170839	3.602	1.565	#
12)	4,4'-DDE	7.499	8.370	5486486	19372878	1.652	6.238	#
13)	Dieldrin	7.707	8.511	631676	12221112	0.166	3.506	#
14)	Endrin	7.875	8.741	3824004	5418733	1.172	1.874	#
15)	4,4'-DDD	7.918	8.775	23558555	28687440	9.257	11.953	#
16)	Endosulfa...	8.039	8.866f	224034	5651834	0.075	2.106	#
17)	4,4'-DDT	8.115	9.009	1220856	6291031	0.454	2.527	#
18)	Endrin Al...	8.327	9.128	312508	5646083	0.119	2.136	#
19)	Endosulfa...	8.610	9.326	14652996	10282246	5.120	3.998	
20)	Methoxychlor	8.483	9.472	5302446	5993446	4.394	5.223	
21)	Endrin Ke...	8.793	9.708	2196993	8159605	0.636	2.661	#
23)	Hexachlor...	3.108	3.747	204158	1444455	0.052	0.298	#
24)	Hexachlor...	5.731f	6.488	1835215	3595451	0.546	1.197	#
25)	Oxychlordane	7.182	7.934	417027	8111866	BelowCal	2.536	
26)	2,4'-DDE	7.252	8.138	4983007	8911785	2.155	3.921	#
27)	trans-Non...	7.458f	8.202	417434	14701156	0.114	4.073	#
28)	2,4'-DDD	7.620	8.511	6477260	12221112	3.344	6.384	#
29)	2,4'-DDT	7.792	8.741	967172	5418733	0.404	2.485	#
30)	cis-Nonac...	7.918	8.775	23558555	28687440	5.789	7.198	
31)	Mirex	8.561	9.708	961738	8159605	0.191	3.685	#
32)	Chlordane...	7.372	8.202	2227496	14701156	5.562	33.837	#
33)	Chlordane...	7.458	8.282	417434	5603746	0.858	15.414	#
34)	Chlordane...	7.996f	8.916f	285052	21306632	2.189	179.416	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.499	8.566	5486486	4938776	335.167	167.592	#
37)	Toxaphene...	7.792	8.916	967172	21306632	30.787	530.162	#
38)	Toxaphene...	8.098	8.916	558521	21306632	4.775	329.332	#
39)	Toxaphene...	8.327	9.009	312508	6291031	BelowCal	60.963	
40)	Toxaphene...	8.561	9.161	961738	5871984	17.743	102.426	#
41)	Toxaphene...	8.610	9.536	14652996	7839407	192.665	118.682	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

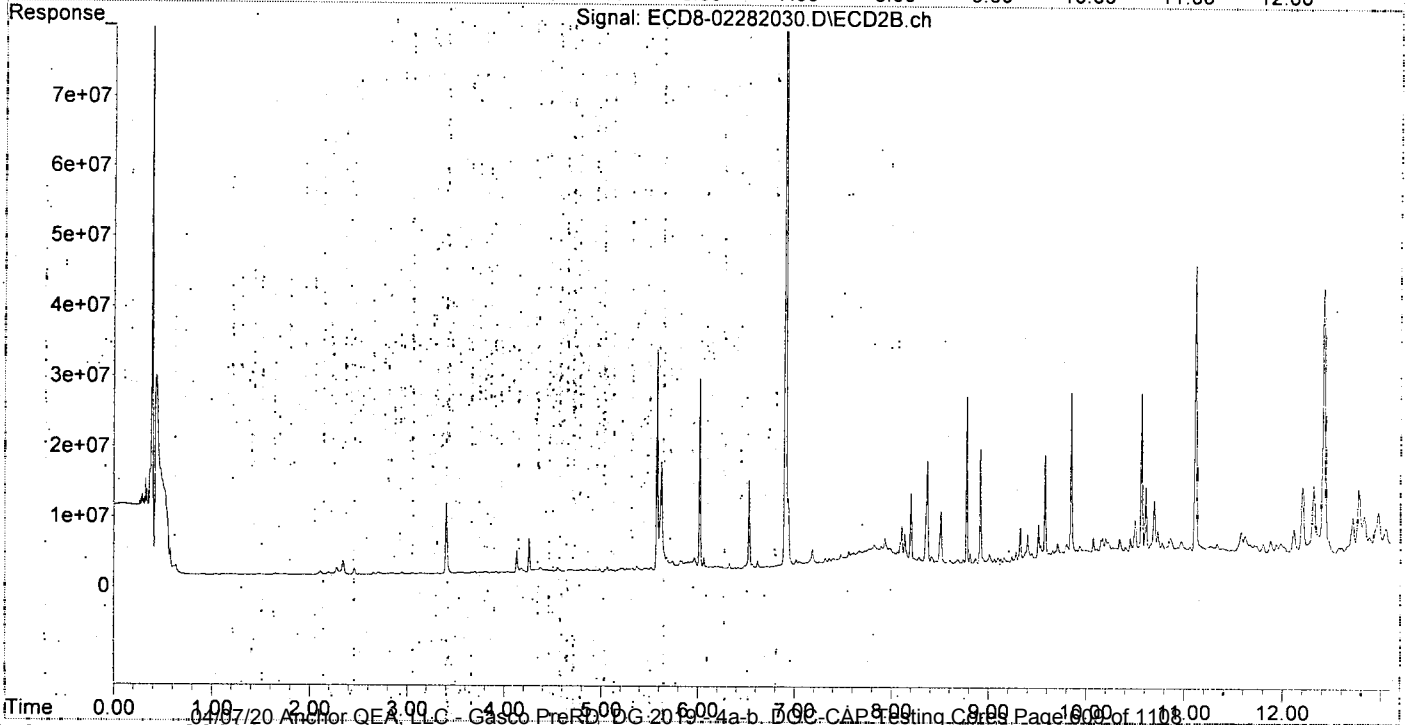
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B28030\
Data File : ECD8-02282030.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2020 20:30
Operator : MJB
Sample : A0B0680-02RE1@5
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Mar 02 10:53:56 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B28030\
Data File : ECD8-02282032.D
Signal(s) : Signal #1: ECD1A.ch, Signal #2: ECD2B.ch
Acq On : 28 Feb 2020 21:07
Operator : MJB
Sample : A0B0680-03RE1@5
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Mar 02 10:54:00 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

R-04

MJB 3/2/20

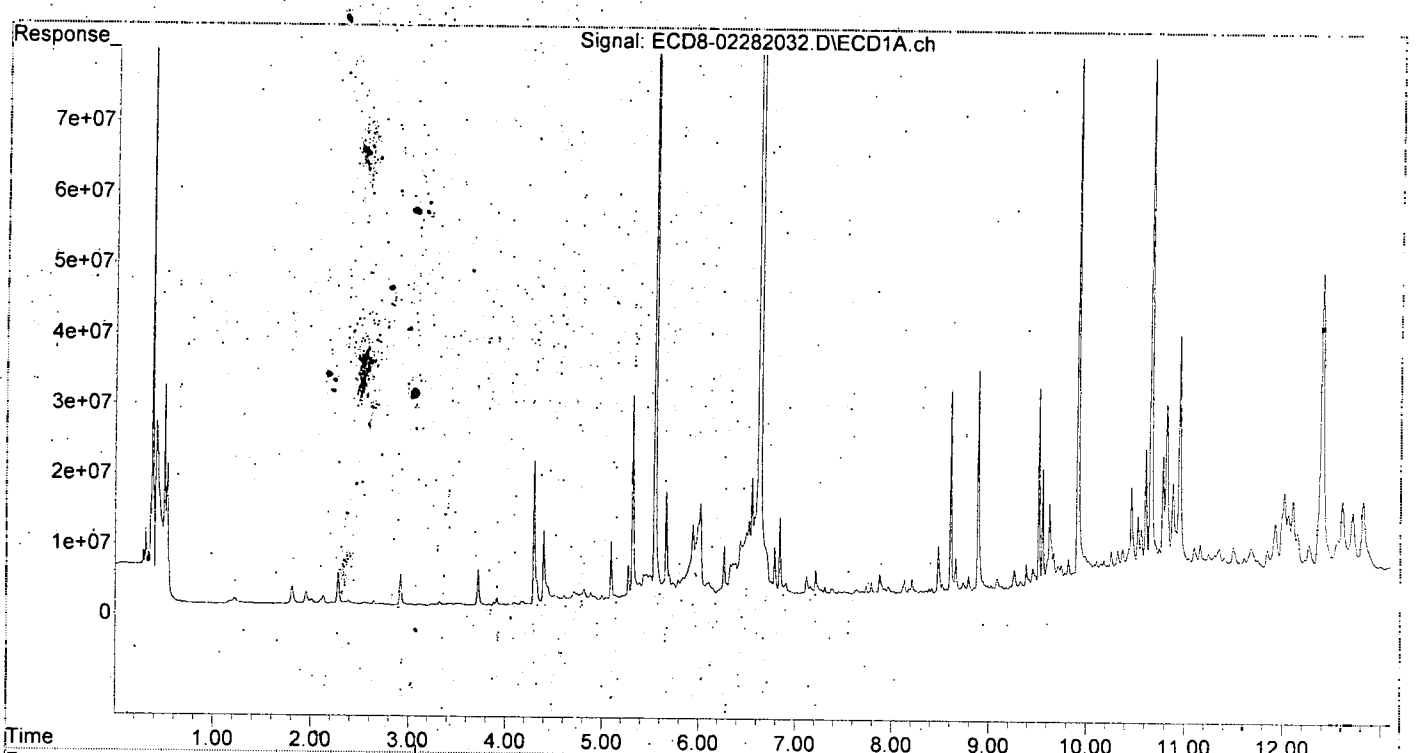
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	5.317	6.019	29481976	31091978	8.433	9.013	
22) S	DCBP (S)	9.514	10.564	28557570	25278786	10.795	11.870	
	Target Compounds							
2)	a-BHC	5.849	6.618	3223963	1568980	0.682	0.443	#
3)	g-BHC	6.152	6.930	1601186	7336791	0.385	1.917	#
4)	b-BHC	6.204	0.000	1297369	0	0.745	N.D.	#
5)	Heptachlor	6.554	7.318	17126376	1952784	4.167	0.464	#
6)	d-BHC	6.356	7.253	5092248	1551991	1.578	0.540	#
7)	Aldrin	6.789	7.562	7196815	3689615	1.781	0.997	#
8)	Heptachlo...	7.237	7.979f	1428255	6033008	0.387	1.681	#
9)	trans-Chl...	7.344	8.155	601261	2901714	0.160	0.780	#
10)	cis-Chlor...	7.453	8.260	587326	1274128	0.160	0.362	#
11)	Endosulfa...	7.551	8.283f	468978	1746474	0.135	0.528	#
12)	4,4'-DDE	7.515	8.345f	589674	3825253	0.178m	1.315m	# P-01
13)	Dieldrin	7.706	8.500	553798	2988904	0.145	0.885	#
14)	Endrin	7.876	8.744	2924320	638980	0.896	0.215	#
15)	4,4'-DDD	7.931	8.771	848655	603214	0.333	0.301	
16)	Endosulfa...	8.025	8.868	462135	789665	0.154	0.269	#
17)	4,4'-DDT	8.132	9.012	2113508	1698875	0.786m	0.667	
18)	Endrin Al...	8.301	9.126	384082	1110084	0.146	0.420	#
19)	Endosulfa...	8.609	9.325	28961410	5995531	10.119	2.301	#
20)	Methoxychlor	8.482	9.512f	6775196	6284142	5.615	5.491	
21)	Endrin Ke...	8.793	9.708	2144891	2668471	0.621	0.723	
23)	Hexachlor...	3.106	3.745	197497	123748	0.051	0.026	#
24)	Hexachlor...	5.698	6.509	3769075	2024974	1.121	0.651	#
25)	Oxychlordane	7.181	7.935	1095596	6058441	0.177	1.894	#
26)	2,4'-DDE	7.245	8.155	1270646	2901714	0.550m	1.277	# P-01
27)	trans-Non...	7.418	8.201	503250	15137394	0.137	4.194	#
28)	2,4'-DDD	7.629	8.500	748370	2988904	0.386	1.561	# P-01
29)	2,4'-DDT	7.790f	8.744	1835153	638980	0.767	0.251	#
30)	cis-Nonac...	7.876f	8.771	2924320	603214	0.719	0.151	#
31)	Mirex	8.562	9.708	509394	2668471	0.004	1.037	#
32)	Chlordane...	7.375	8.201	1022871	15137394	2.554	34.841	#
33)	Chlordane...	7.469	8.283	564716	1746474	1.161	4.804	#
34)	Chlordane...	8.025	8.944	462135	729704	3.549	6.145	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.486	8.539	441913	878381	26.996	29.807	
37)	Toxaphene...	7.790	8.916	1835153	1821671	58.416	45.328	
38)	Toxaphene...	8.095	8.944	285005	729704	0.889	11.279	#
39)	Toxaphene...	8.335	9.012	244606	1698875	BelowCal	13.469	
40)	Toxaphene...	8.562	9.160	509394	850435	9.398	14.834	#
41)	Toxaphene...	8.609	9.536	28961410	2542985	380.800	38.499	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

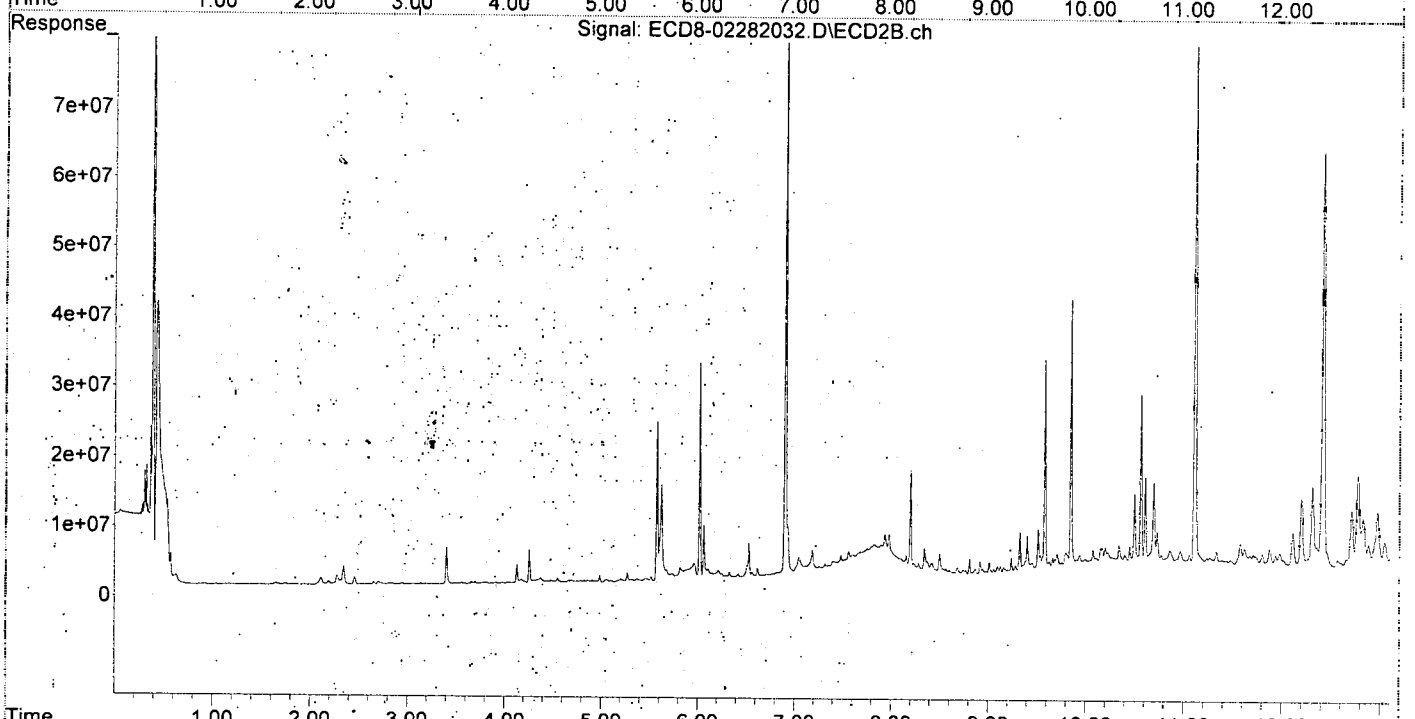
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B28030\
Data File : ECD8-02282032.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2020 21:07
Operator : MJB
Sample : A0B0680-03RE1@5
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Mar 02 10:54:00 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

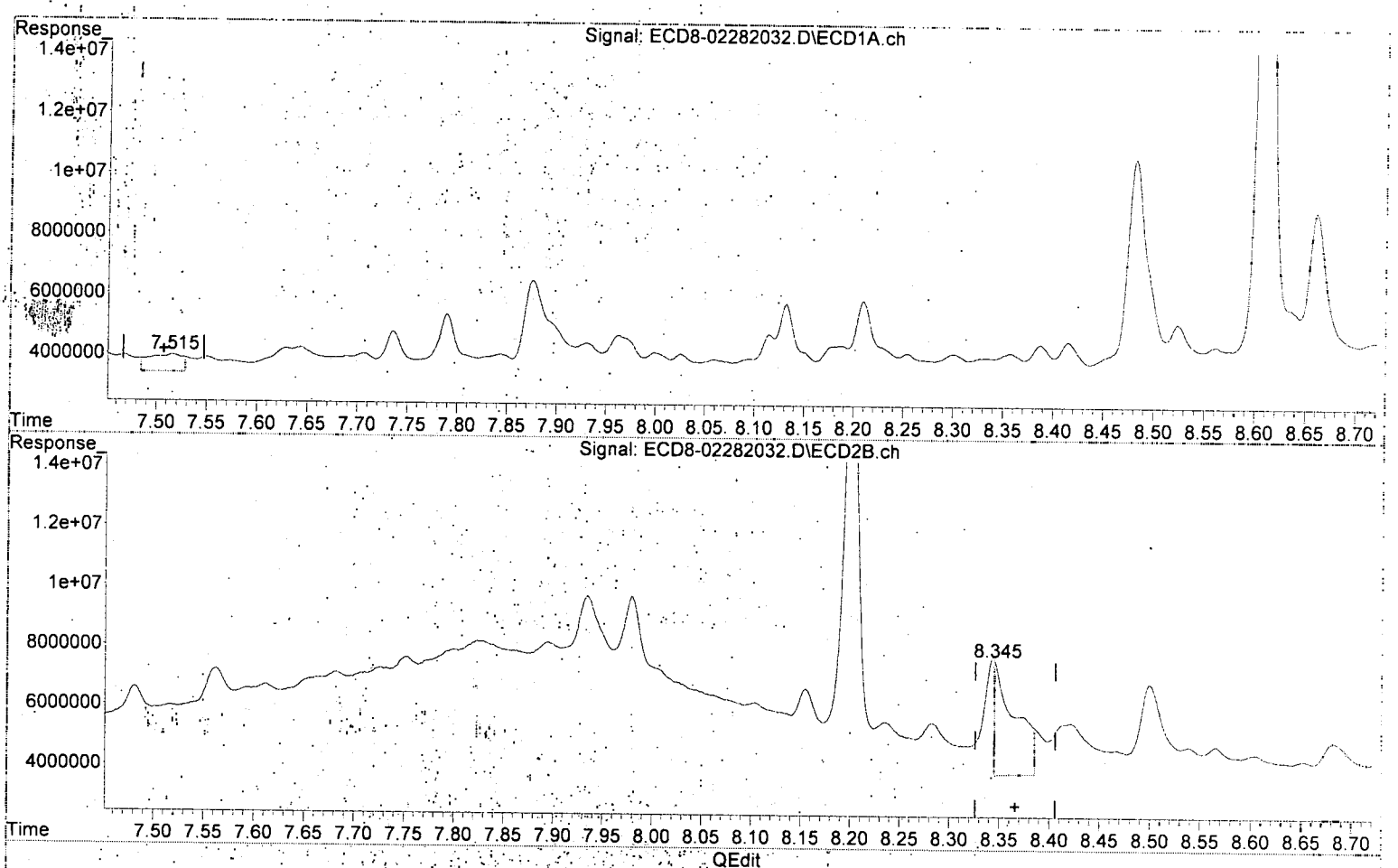




Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B28030\
Data File : ECD8-02282032.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2020 21:07
Operator : MJB
Sample : A0B0680-03RE1@5
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Mar 02 10:54:00 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(12) 4,4'-DDE

7.515min 0.178 ng/mL (m)

response 589674

MB 3/2/20

(12) 4,4'-DDE #2

8.345min 1.315 ng/mL (m) P-01

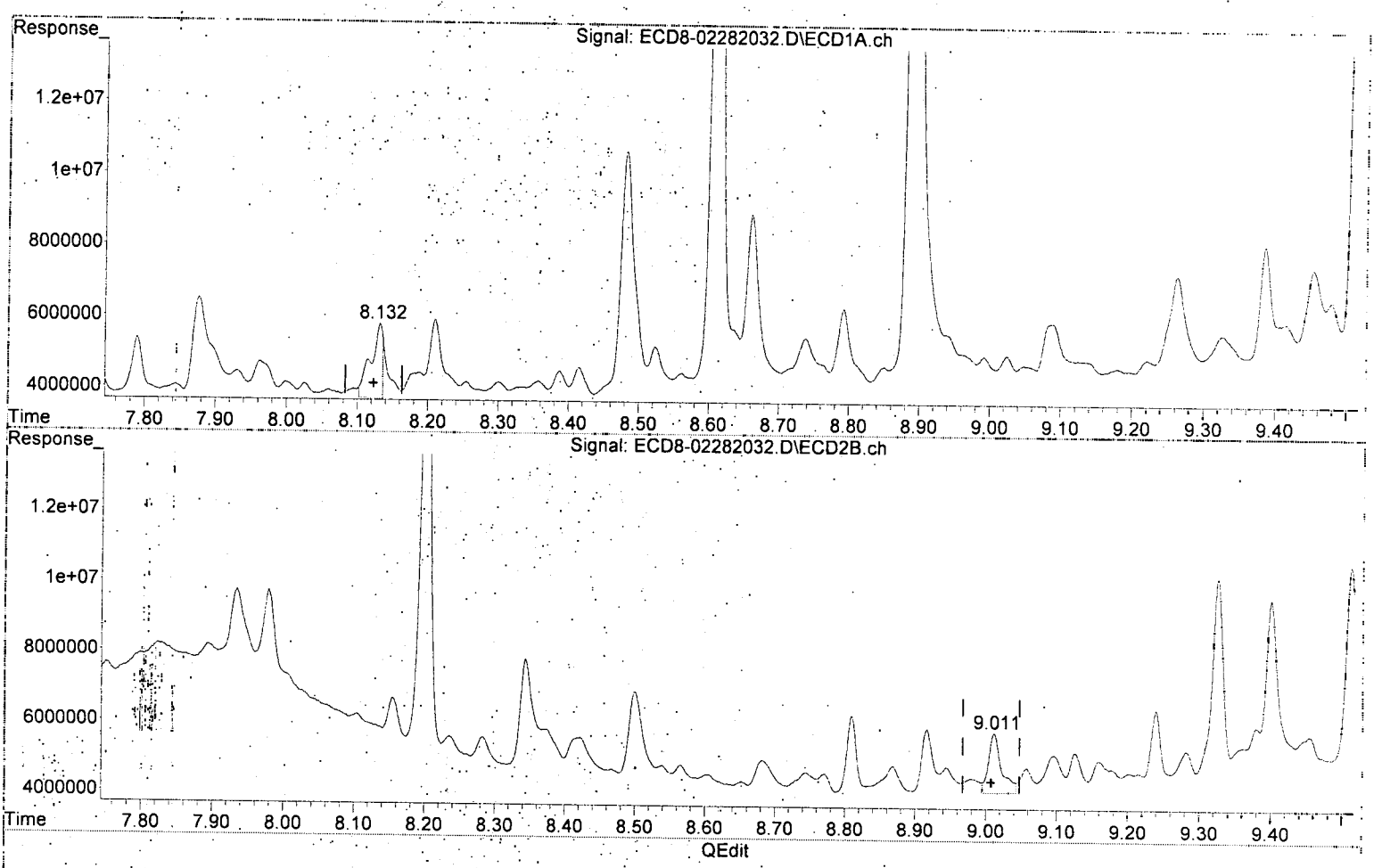
response 3825253

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B28030\
Data File : ECD8-02282032.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2020 21:07
Operator : MJB
Sample : A0B0680-03RE1@5
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Mar 02 10:54:00 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(17) 4,4'-DDT

8.132min 0.786 ng/mL (m)

response 2113508

WB 3/2/20

(17) 4,4'-DDT #2

9.012min 0.667 ng/mL

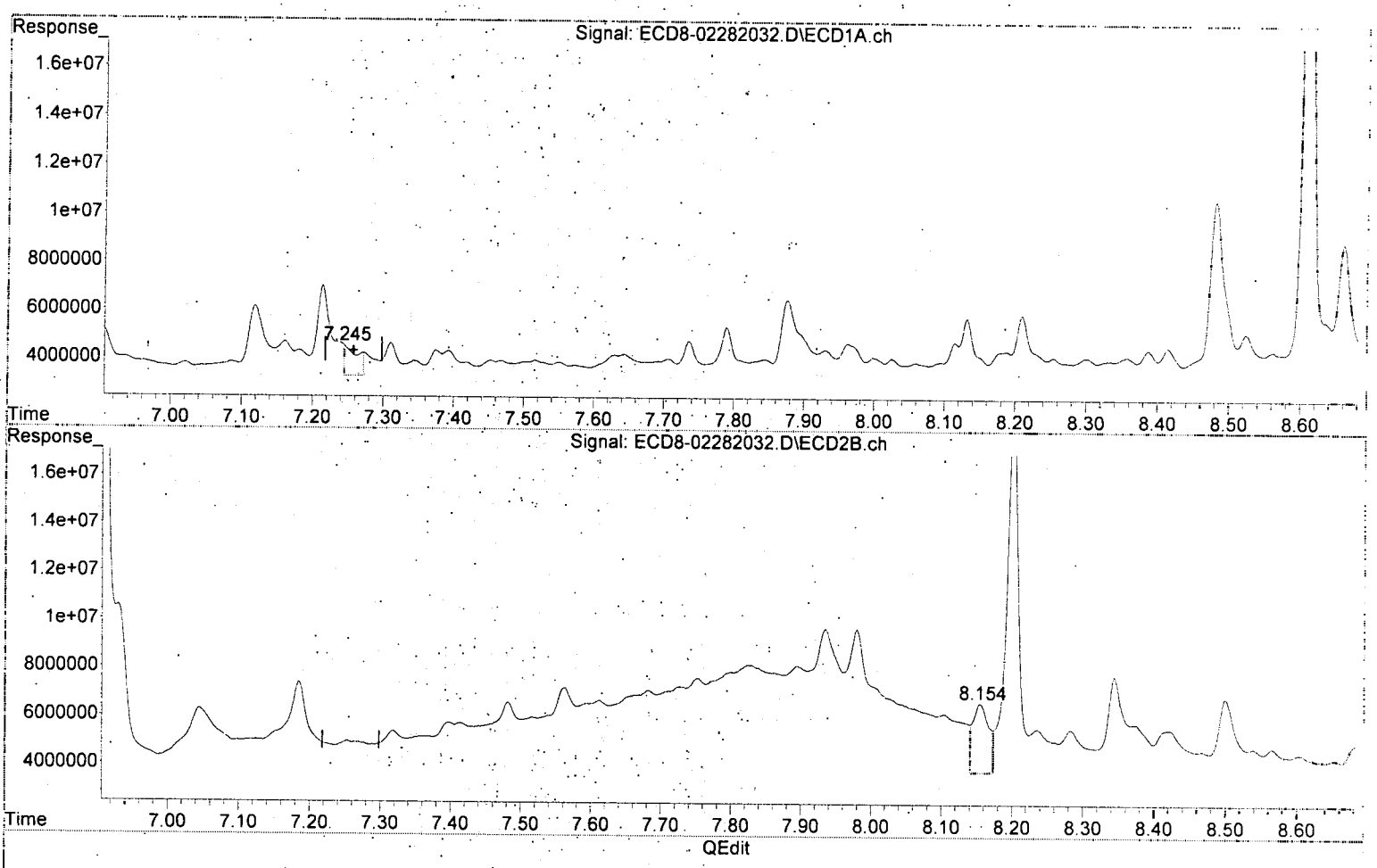
response 1698875

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B28030\
Data File : ECD8-02282032.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2020 21:07
Operator : MJB
Sample : A0B0680-03RE1@5
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Mar 02 10:54:00 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(26) 2,4'-DDE

7.245min 0.550 ng/mL m

response 1270646

MJB 3/2/20

(26) 2,4'-DDE #2

8.155min 1.277 ng/mL P-01

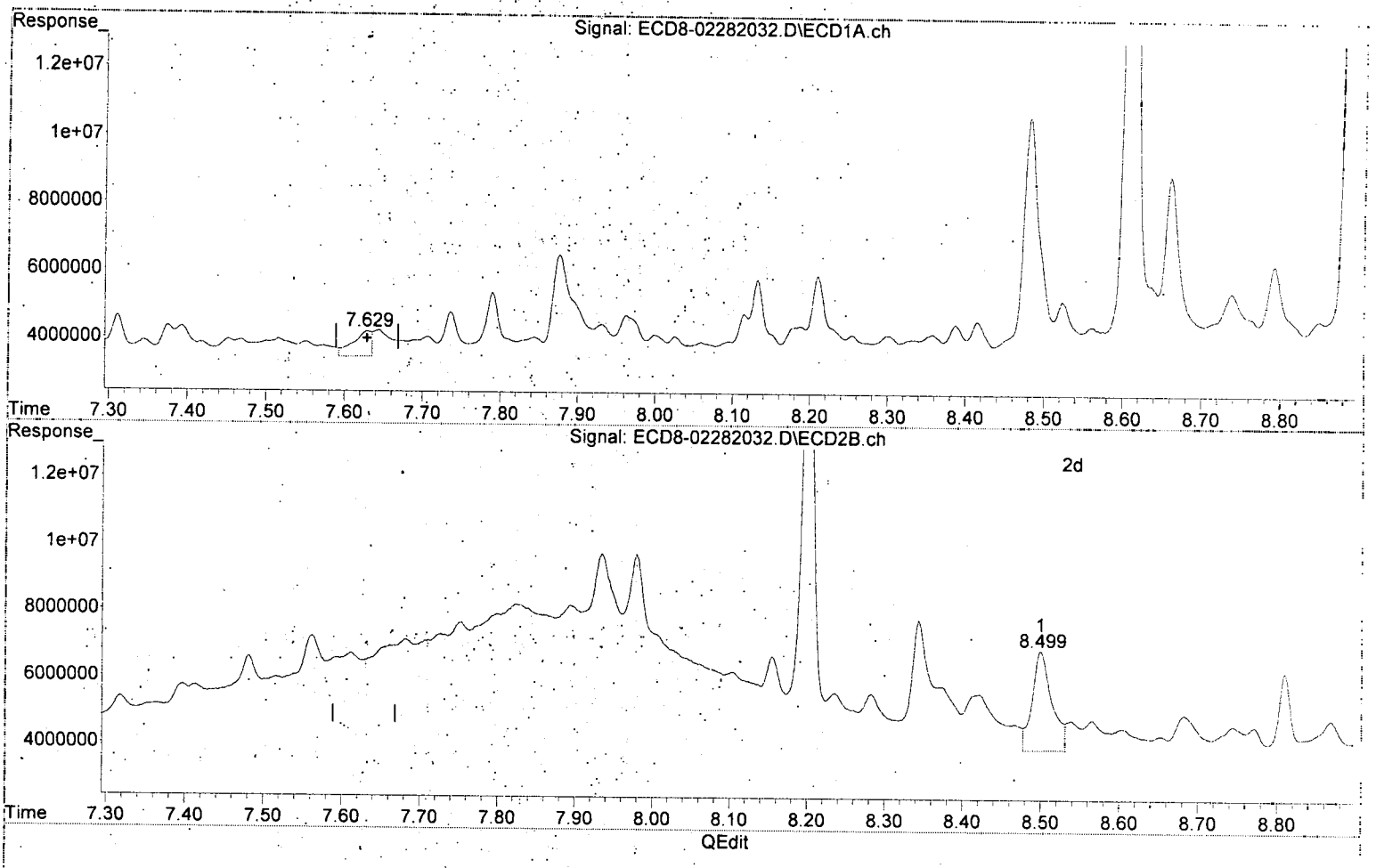
response 2901714

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B28030\
Data File : ECD8-02282032.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2020 21:07
Operator : MJB
Sample : A0B0680-03RE1@5
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Mar 02 10:54:00 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(28) 2,4'-DDD

7.629min 0.386 ng/mL

response. 748370

MW 3/2/20

(28) 2,4'-DDD #2

8.500min 1.561 ng/mL P-ec

response 2988904

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B28030\
Data File : ECD8-02282032.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2020 21:07
Operator : MJB
Sample : A0B0680-03RE1@5
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Mar 02 10:54:00 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

ME MJB 3/2/20

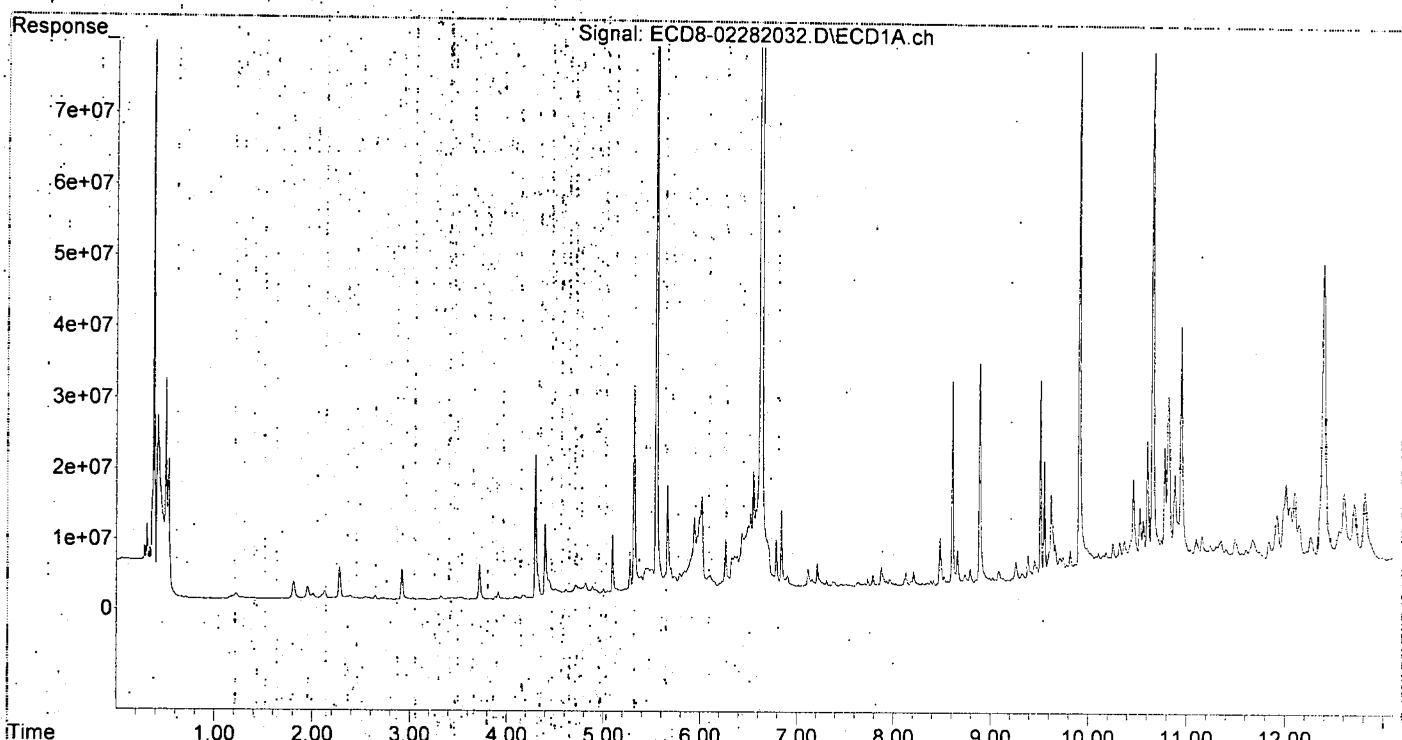
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.317	6.019	29481976	31091978	8.433	9.013	
22)	S DCBP (S)	9.514	10.564	28557570	25278786	10.795	11.870	
	Target Compounds							
2)	a-BHC	5.849	6.618	3223963	1568980	0.682	0.443	#
3)	g-BHC	6.152	6.930	1601186	7336791	0.385	1.917	#
4)	b-BHC	6.204	0.000	1297369	0	0.745	N.D.	#
5)	Heptachlor	6.554	7.318	17126376	1952784	4.167	0.464	#
6)	d-BHC	6.356	7.253	5092248	1551991	1.578	0.540	#
7)	Aldrin	6.789	7.562	7196815	3689615	1.781	0.997	#
8)	Heptachlo...	7.237	7.979f	1428255	6033008	0.387	1.681	#
9)	trans-Chl...	7.344	8.155	601261	2901714	0.160	0.780	#
10)	cis-Chlor...	7.453	8.260	587326	1274128	0.160	0.362	#
11)	Endosulfa...	7.551	8.283f	468978	1746474	0.135	0.528	#
12)	4,4'-DDE	7.501	8.374	502110	1949217	0.151	0.714	#
13)	Dieldrin	7.706	8.500	553798	2988904	0.145	0.885	#
14)	Endrin	7.876	8.744	2924320	638980	0.896	0.215	#
15)	4,4'-DDD	7.931	8.771	848655	603214	0.333	0.301	
16)	Endosulfa...	8.025	8.868	462135	789665	0.154	0.269	#
17)	4,4'-DDT	8.115	9.012	1087882	1698875	0.405	0.667	#
18)	Endrin Al...	8.301	9.126	384082	1110084	0.146	0.420	#
19)	Endosulfa...	8.609	9.325	28961410	5995531	10.119	2.301	#
20)	Methoxychlor	8.482	9.512f	6775196	6284142	5.615	5.491	
21)	Endrin Ke...	8.793	9.708	2144891	2668471	0.621	0.723	
23)	Hexachlor...	3.106	3.745	197497	123748	0.051	0.026	#
24)	Hexachlor...	5.698	6.509	3769075	2024974	1.121	0.651	#
25)	Oxychlordane	7.181	7.935	1095596	6058441	0.177	1.894	#
26)	2,4'-DDE	7.272	8.155	954773	2901714	0.413	1.277	#
27)	trans-Non...	7.418	8.201	503250	15137394	0.137	4.194	#
28)	2,4'-DDD	7.629	8.500	748370	2988904	0.386	1.561	#
29)	2,4'-DDT	7.790f	8.744	1835153	638980	0.767	0.251	#
30)	cis-Nonac...	7.876f	8.771	2924320	603214	0.719	0.151	#
31)	Mirex	8.562	9.708	509394	2668471	0.004	1.037	#
32)	Chlordane...	7.375	8.201	1022871	15137394	2.554	34.841	#
33)	Chlordane...	7.469	8.283	564716	1746474	1.161	4.804	#
34)	Chlordane...	8.025	8.944	462135	729704	3.549	6.145	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.486	8.539	441913	878381	26.996	29.807	
37)	Toxaphene...	7.790	8.916	1835153	1821671	58.416	45.328	
38)	Toxaphene...	8.095	8.944	285005	729704	0.889	11.279	#
39)	Toxaphene...	8.335	9.012	244606	1698875	BelowCal	13.469	
40)	Toxaphene...	8.562	9.160	509394	850435	9.398	14.834	#
41)	Toxaphene...	8.609	9.536	28961410	2542985	380.800	38.499	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

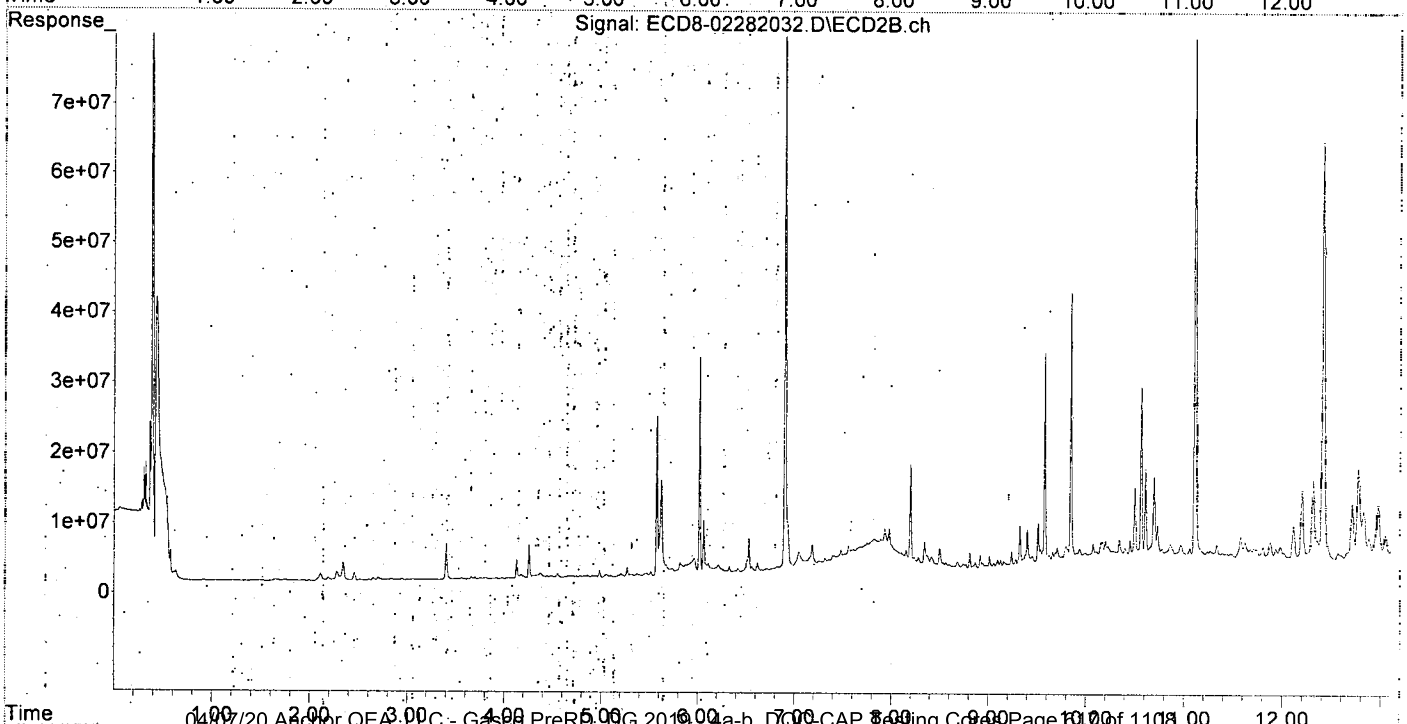
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B28030\
Data File : ECD8-02282032.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2020 21:07
Operator : MJB
Sample : A0B0680-03RE1@5
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Mar 02 10:54:00 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.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\0B28030\
Data File : ECD8-02282035.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2020 22:01
Operator : MJB
Sample : 0B28030-CCV6
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: Mar 02 10:54:08 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 3/2/20

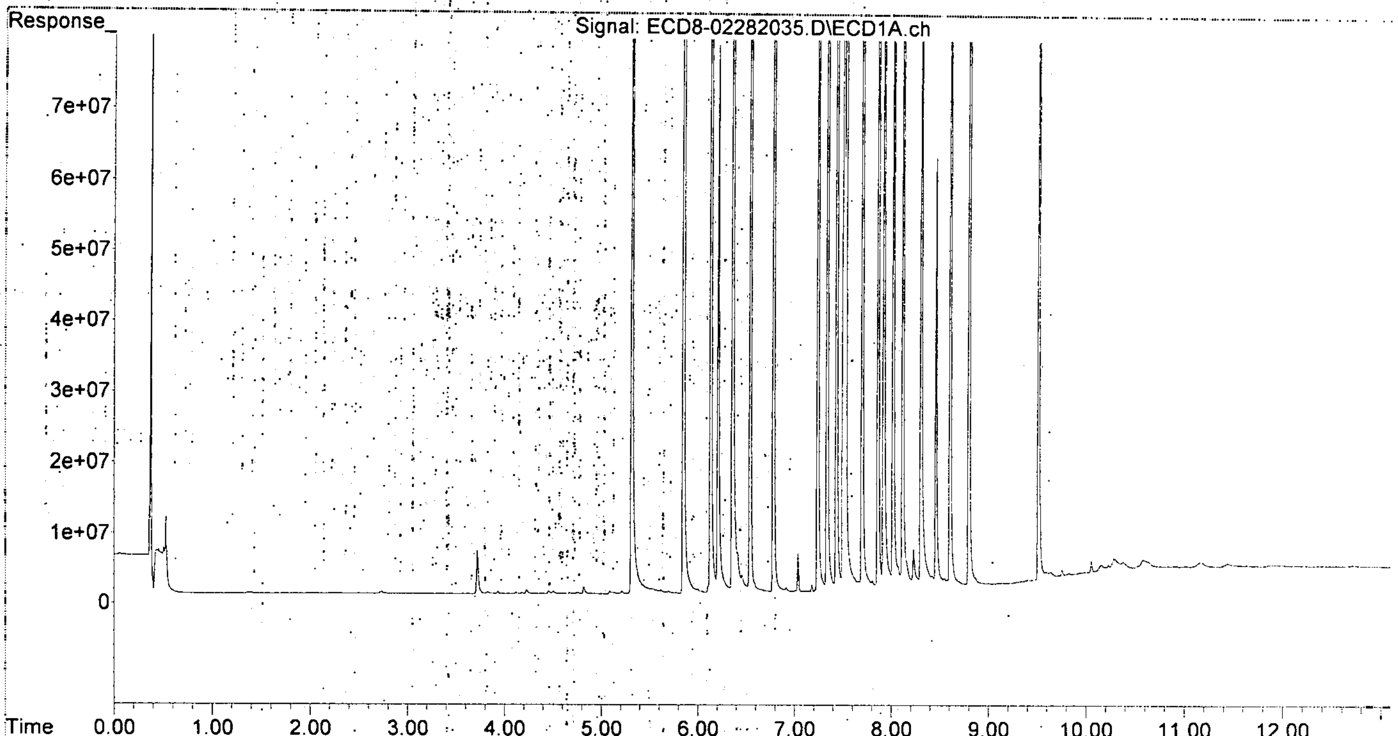
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.317	6.018	154.8E6	189.8E6	44.286	55.022	
22)	S DCBP (S)	9.517	10.566	143.7E6	131.6E6	54.534	60.767	Q-41
	Target Compounds							
2)	a-BHC	5.851	6.618	240.9E6	277.4E6	50.983	58.474	
3)	g-BHC	6.133	6.934	220.8E6	242.6E6	53.043	57.085	
4)	b-BHC	6.210	6.998	77638882	92683847	44.578	53.388	
5)	Heptachlor	6.543	7.307	208.9E6	208.0E6	50.826	49.391	
6)	d-BHC	6.359	7.253	178.6E6	209.7E6	48.869	53.894	
7)	Aldrin	6.783	7.573	216.8E6	234.4E6	53.667	57.707	
8)	Heptachlo...	7.242	8.009	198.0E6	207.4E6	53.611	57.775	
9)	trans-Chl...	7.339	8.149	195.6E6	209.3E6	52.014	56.276	
10)	cis-Chlor...	7.436	8.256	198.3E6	201.8E6	54.005	57.282	
11)	Endosulfa...	7.529	8.308	189.3E6	195.4E6	54.585	59.114	
12)	4,4'-DDE	7.504	8.361	172.8E6	197.0E6	52.021	56.873	
13)	Dieldrin	7.701	8.508	206.8E6	219.3E6	54.226	57.812	
14)	Endrin	7.865	8.735	170.6E6	163.2E6	52.266	52.362	
15)	4,4'-DDD	7.923	8.777	133.8E6	153.5E6	52.580	57.026	
16)	Endosulfa...	8.021	8.882	148.2E6	162.7E6	49.530	55.997	
17)	4,4'-DDT	8.120	9.002	140.9E6	157.3E6	52.430	56.102	
18)	Endrin Al...	8.309	9.118	124.0E6	145.2E6	47.088	54.918	
19)	Endosulfa...	8.609	9.309	144.1E6	161.0E6	50.357	58.192	
20)	Methoxychlor	8.464	9.481	60963139	70316737	50.523	57.569	
21)	Endrin Ke...	8.802	9.710	177.6E6	177.5E6	51.395	56.831	
23)	Hexachlor...	3.109	3.728	72719	22424	0.019	0.005	#
24)	Hexachlor...	5.699	6.502	315732	59883	0.094	BelowCal	#
25)	Oxychlordane	7.179	7.926	990046	93502	0.143	0.029	#
26)	2,4'-DDE	7.242	8.149	198.0E6	209.3E6	85.625	92.061	
27)	trans-Non...	7.436	8.210	198.3E6	655390	54.094	0.182	#
28)	2,4'-DDD	7.660f	8.508	1151490	219.3E6	0.595	114.542	#
29)	2,4'-DDT	7.805	8.735	1190448	163.2E6	0.497	67.851	#
30)	cis-Nonac...	7.923f	8.777	133.8E6	153.5E6	32.883	38.505	
31)	Mirex	8.550	9.710	1123069	177.5E6	0.257	81.952	#
32)	Chlordane...	0.000	8.210f	0	655390	N.D.	1.508	#
33)	Chlordane...	7.504f	8.308	172.8E6	195.4E6	355.216	537.385	#
34)	Chlordane...	8.021	8.963	148.2E6	1327166	1138.043	11.176	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.504	0.000	172.8E6	0	10553.315	N.D.	#
37)	Toxaphene...	7.805f	8.882	1190448	162.7E6	37.894	4048.818	#
38)	Toxaphene...	8.070	8.930	3178185	1969056	42.006	30.435	#
39)	Toxaphene...	8.309f	9.002	124.0E6	157.3E6	1867.920	1470.875	
40)	Toxaphene...	8.550	9.214f	1123069	11210679	20.720	195.549	#
41)	Toxaphene...	8.609	9.564	144.1E6	917491	1895.113	13.890	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

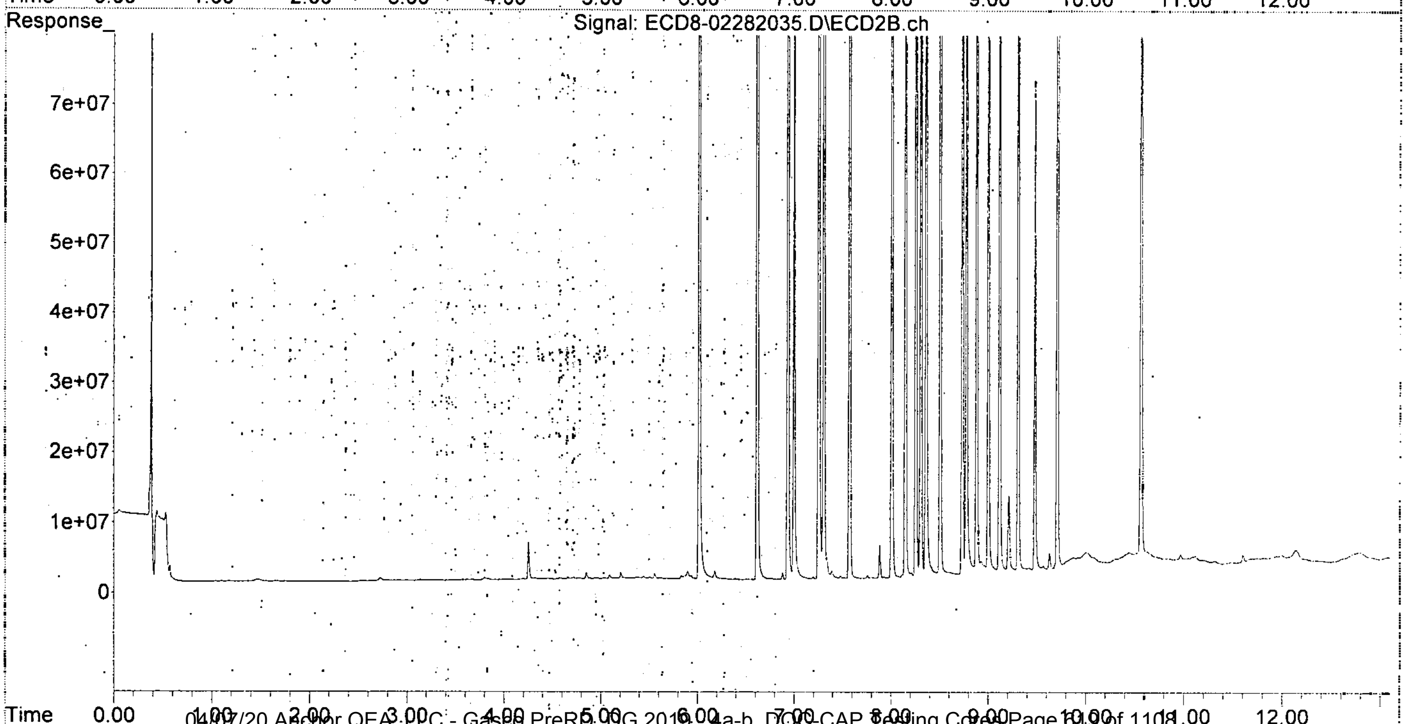
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B28030\
Data File : ECD8-02282035.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2020 22:01
Operator : MJB
Sample : 0B28030-CCV6
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: Mar 02 10:54:08 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.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\0B28030\
Data File : ECD8-02282036.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2020 22:18
Operator : MJB
Sample : 0B28030-CCV7
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: Mar 02 10:54:12 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 3/2/20

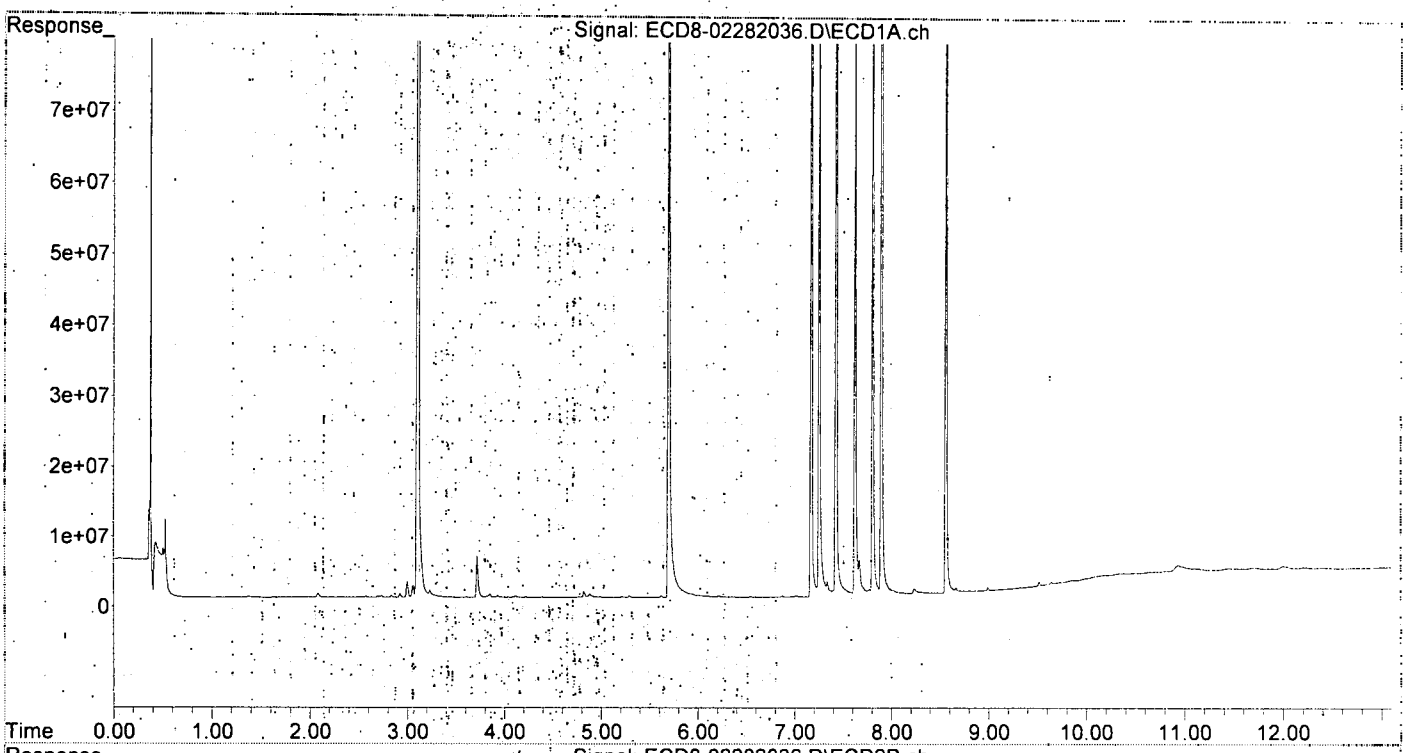
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.293f	6.025	296249	300292	0.085	0.087	
22)	S	DCBP (S)	9.519	10.566	824714	1552109	BelowCal	0.261	
		Target Compounds							
2)		a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)		g-BHC	6.109f	6.936	140933	12794	0.034	0.045	#
4)		b-BHC	6.213	7.007	211728	72750	0.122	0.042	#
5)		Heptachlor	6.545	7.308	173584	184166	0.042	0.044	
6)		d-BHC	6.369	7.261	33124	74504	0.116	0.119	
7)		Aldrin	6.798	7.588	31729	270966	0.008	0.084	#
8)		Heptachlo...	7.255	8.008	100.9E6	519434	27.334	0.145	#
9)		trans-Chl...	7.339	8.141	2109742	106.7E6	0.561	28.696	#
10)		cis-Chlor...	7.430	0.000	162.3E6	0	44.191	N.D.	#
11)		Endosulfa...	0.000	8.306	0	224879	N.D.	0.068	#
12)		4,4'-DDE	0.000	8.382	0	32867	N.D.	0.099	#
13)		Dieldrin	7.672f	8.513	5049930	89901366	1.324	24.821	#
14)		Endrin	7.898f	8.737	189.0E6	111.0E6	57.916	36.496	#
15)		4,4'-DDD	7.898f	8.777	189.0E6	200.7E6	74.270	72.050	
16)		Endosulfa...	8.024	8.883	582959	285377	0.195	0.078	#
17)		4,4'-DDT	8.124	9.003	164345	509275	0.061	0.182	#
18)		Endrin Al...	8.310	0.000	170773	0	0.065	N.D.	#
19)		Endosulfa...	0.000	9.286f	0	1770344	N.D.	0.619	#
20)		Methoxychlor	8.472	0.000	13316	0	0.011	N.D.	#
21)		Endrin Ke...	8.805	9.702	105234	121.2E6	0.030	39.871	#
23)		Hexachlor...	3.106	3.723	173.9E6	223.7E6	44.620	46.202	
24)		Hexachlor...	5.698	6.484	129.8E6	163.7E6	38.617	52.144	#
25)		Oxychlordane	7.173	7.939	148.8E6	151.1E6	47.937	47.239	
26)		2,4'-DDE	7.255	8.141	100.9E6	106.7E6	43.658	46.943	
27)		trans-Non...	7.430	8.213	162.3E6	171.2E6	44.264	47.438	
28)		2,4'-DDD	7.625	8.513	81235353	89901366	41.943	46.964	
29)		2,4'-DDT	7.807	8.737	104.8E6	111.0E6	43.780	47.774	
30)		cis-Nonac...	7.898	8.777	189.0E6	200.7E6	46.447	50.369	
31)		Mirex	8.564	9.702	115.5E6	121.2E6	47.776	56.620	
32)		Chlordane...	0.000	8.213f	0	171.2E6	N.D.	394.101	#
33)		Chlordane...	0.000	8.306	0	224879	N.D.	0.619	#
34)		Chlordane...	8.024	8.935	582959	1151637	4.477	9.698	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	0.000	8.513f	0	89901366	N.D.	3050.714	#
37)		Toxaphene...	7.776	8.902	816993	236152	26.006	5.876	#
38)		Toxaphene...	8.124f	8.935	164345	1151637	96751.602	17.801	#
39)		Toxaphene...	8.310	9.003	170773	509275	BelowCal	1.111	
40)		Toxaphene...	8.564	9.166	115.5E6	1002330	2131.624	17.484	#
41)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

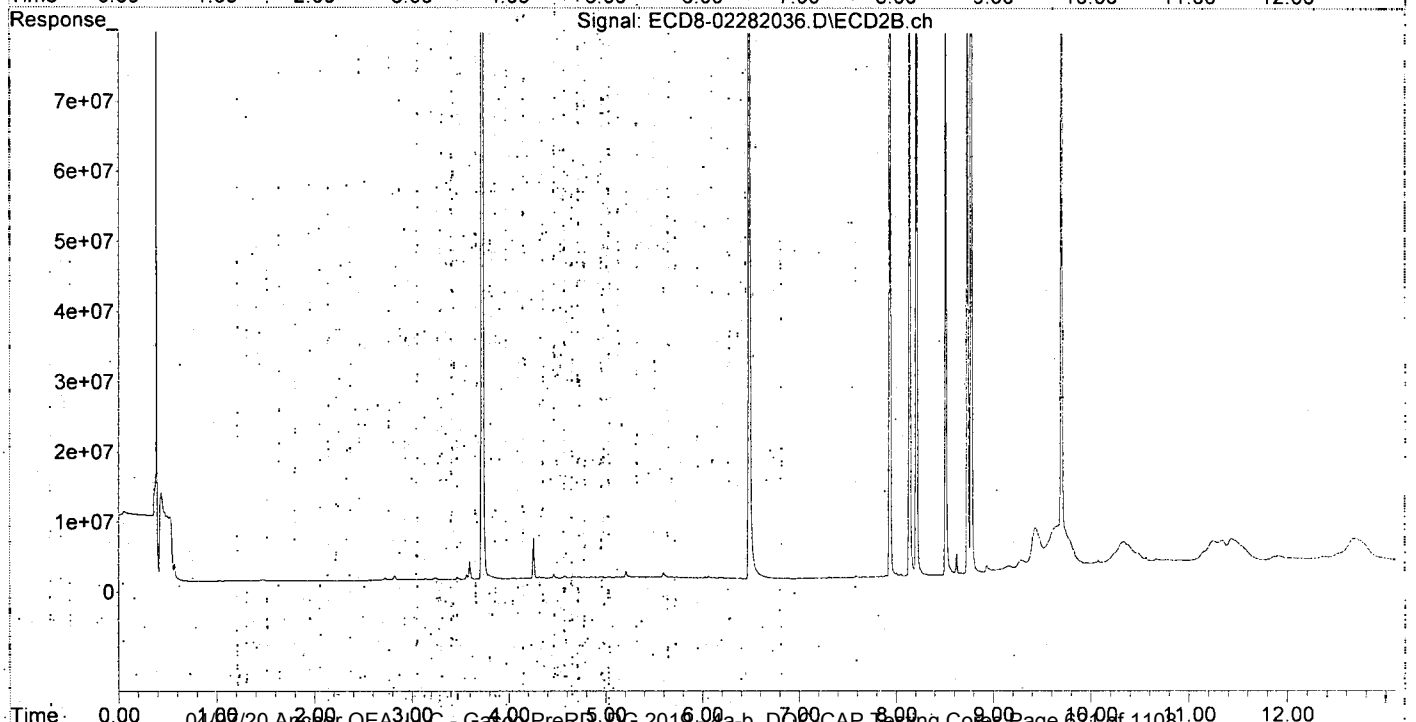
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B28030\
Data File : ECD8-02282036.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2020 22:18
Operator : MJB
Sample : 0B28030-CCV7
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: Mar 02 10:54:12 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.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\0B28030\
Data File : ECD8-02282037.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2020 22:35
Operator : MJB
Sample : 0B28030-CCB3
Misc : A20B383
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Mar 02 10:54:16 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 3/4/20

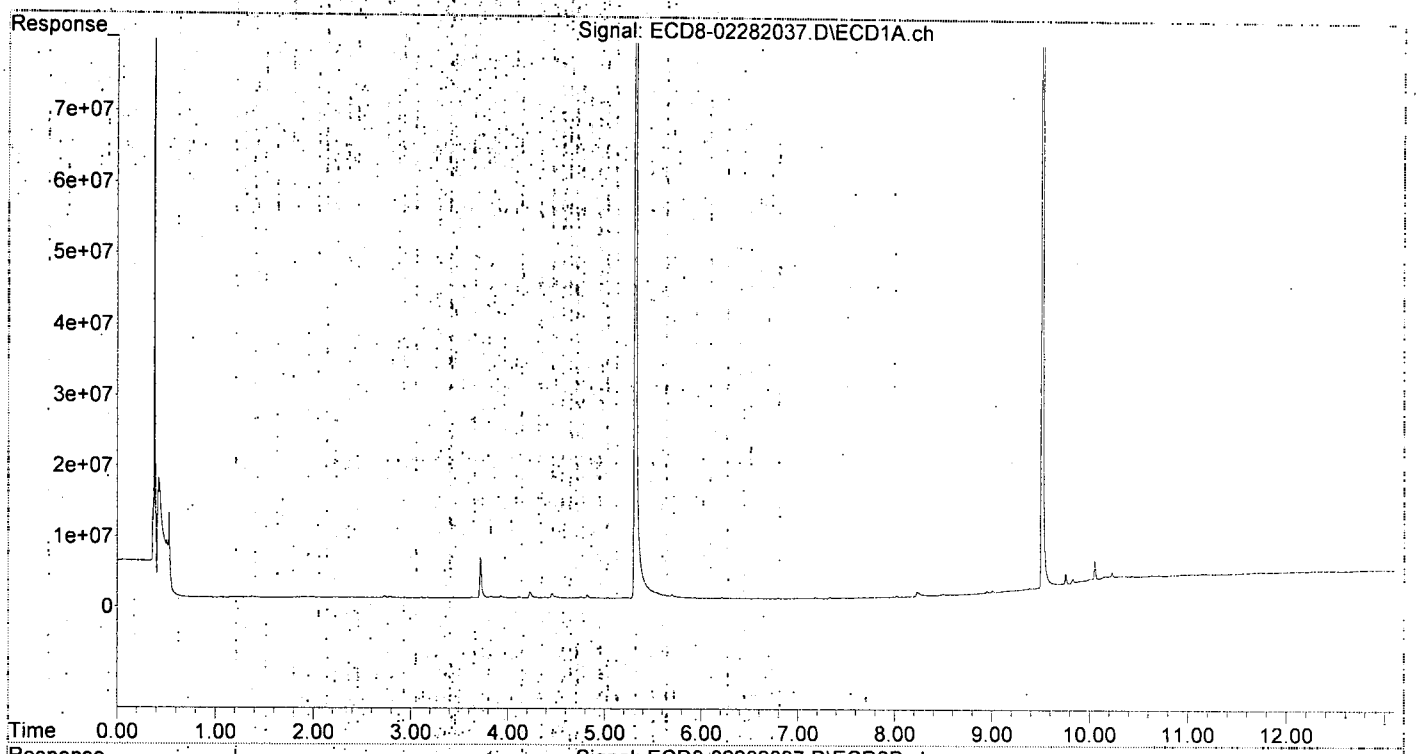
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.316	6.016	282.7E6	343.4E6	80.850	99.555	
22)	S DCBP (S)	9.517	10.565	253.0E6	234.0E6	94.570	103.908	
	Target Compounds							
2)	a-BHC	5.869	0.000	11484	0	0.002	N.D.	#
3)	g-BHC	0.000	6.965f	0	8947	N.D.	0.044	#
4)	b-BHC	6.217	7.007	142133	35652	0.082	0.021	#
5)	Heptachlor	0.000	7.312	0	60209	N.D.	0.014	#
6)	d-BHC	0.000	7.255	0	52357	N.D.	0.112	#
7)	Aldrin	6.795	7.588	38995	408455	0.010	0.121	#
8)	Heptachlo...	0.000	8.014	0	24637	N.D.	0.007	#
9)	trans-Chl...	7.329	8.153	157568	103320	0.042	0.028	#
10)	cis-Chlor...	7.442	8.242	64456	127194	0.018	0.036	#
11)	Endosulfa...	7.504f	8.307	45579	90643	0.013	0.027	#
12)	4,4'-DDE	7.504	8.370	45579	62939	0.014	0.108	#
13)	Dieldrin	7.706	8.512	18928	21609	0.005	0.038	#
14)	Endrin	7.847f	8.743	23512	85132	0.007	0.022	#
15)	4,4'-DDD	7.926	8.788	19636	136101	0.008	0.101	#
16)	Endosulfa...	8.023	8.905	177483	237771	0.059	0.060	
17)	4,4'-DDT	8.125	9.028f	12448	109634	0.005	0.019	#
18)	Endrin Al...	8.315	9.107	175539	134452	0.067	0.051	
19)	Endosulfa...	8.613	9.334	60488	397463	0.021	0.070	#
20)	Methoxychlor	8.471	9.471	112552	803856	0.093	0.385	#
21)	Endrin Ke...	8.810	9.677f	40809	996275	0.012	0.130	#
23)	Hexachlor...	3.112	3.740	65597	332722	0.017	0.069	#
24)	Hexachlor...	5.699	6.489	468072	148495	0.139	BelowCal	#
25)	Oxychlordane	7.180	7.940	175792	64591	BelowCal	0.020	
26)	2,4'-DDE	0.000	8.153	0	103320	N.D.	0.045	#
27)	trans-Non...	7.436	8.211	65979	144761	0.018	0.040	#
28)	2,4'-DDD	7.627	8.524	22872	23087	0.012	0.012	
29)	2,4'-DDT	7.812	8.743	15413	85132	0.006	BelowCal	#
30)	cis-Nonac...	7.902	8.788	19670	136101	0.005	0.034	#
31)	Mirex	8.571	9.677f	96347	996275	8199.089	0.229	#
32)	Chlordane...	7.378	8.194	14546	157823	0.036	0.363	#
33)	Chlordane...	7.469	8.297	64241	89633	0.132	0.247	#
34)	Chlordane...	8.023	8.934f	177483	1058835	1.363	8.916	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.487	8.553	76245	18691	4.658	0.634	#
37)	Toxaphene...	7.775	8.905	11147	237771	0.355	5.916	#
38)	Toxaphene...	8.085	8.934	11093	1058835	96753.779	16.366	#
39)	Toxaphene...	8.329	9.028f	143556	109634	BelowCal	BelowCal	
40)	Toxaphene...	8.547	9.184	82490	48458	1.522	0.845	#
41)	Toxaphene...	8.613	9.585f	60488	1621283	0.795	24.545	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

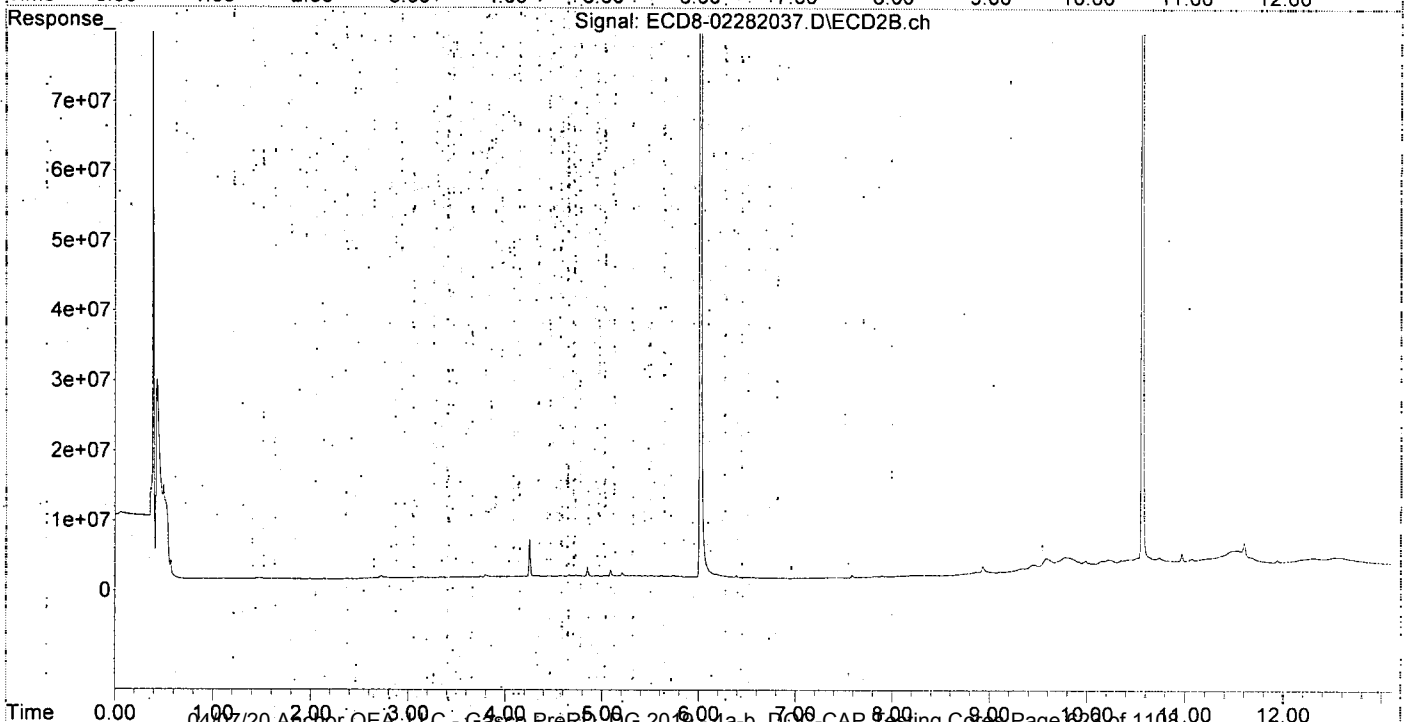
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B28030\
Data File : ECD8-02282037.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2020 22:35
Operator : MJB
Sample : 0B28030-CCB3
Misc : A20B383
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Mar 02 10:54:16 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.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
Benchsheet & Analysis Sequence Data

Sequence 0B27037 (QC Only)

ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence: **0B27037** Instrument: **DUALECD8**

Date: **02/27/20 11:38** Calibration: **A0B0404**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0B27037-BKD1	Sediment	QC	QC				A20A019
2	0B27037-CCV1	Sediment	QC	QC				A19K133
3	0B27037-CCV2	Sediment	QC	QC				A19J408
4	0B27037-CCB1	Sediment	QC	QC				A20A395
5	0B27037-BKD2	Sediment	QC	QC				A20A019
6	0B27037-CCV3	Sediment	QC	QC				A19K133
7	0B27037-CCV4	Sediment	QC	QC				A19J408
8	0B27037-CCB2	Sediment	QC	QC				A20A395
9	0020808-BLK1	Sediment	QC	QC		0020808		
10	0020808-BS1	Sediment	QC	QC		0020808		
11	A0B0679-01RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	02/28/20	0020808		
12	A0B0679-02RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	02/28/20	0020808		
13	0020808-DUP1	Sediment	QC	QC		0020808		
14	A0B0679-03RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	02/28/20	0020808		
15	0B27037-CCV5	Sediment	QC	QC				A19K134
16	0B27037-CCV6	Sediment	QC	QC				A19J409
17	0B27037-CCB3	Sediment	QC	QC				A20A395
18	A0B0679-05RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	02/28/20	0020808		
19	0B27037-IBL1	Sediment	QC	QC				
20	A0B0679-08RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	02/28/20	0020808		
21	0B27037-IBL2	Sediment	QC	QC				
22	A0B0679-09RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	02/28/20	0020808		
23	0B27037-IBL3	Sediment	QC	QC				
24	A0B0679-10RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	02/28/20	0020808		
25	0B27037-IBL4	Sediment	QC	QC				
26	A0B0679-04RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	02/28/20	0020808		
27	0B27037-IBL5	Sediment	QC	QC				
28	A0B0679-06RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	02/28/20	0020808		
29	0B27037-IBL6	Sediment	QC	QC				
30	A0B0679-07RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	02/28/20	0020808		
31	0B27037-IBL7	Sediment	QC	QC				
32	0B27037-CCV7	Sediment	QC	QC				A19K133
33	0B27037-CCV8	Sediment	QC	QC				A19J408
34	0B27037-CCB4	Sediment	QC	QC				A20A395
35	0B27037-IBL8	Sediment	QC	QC				

Comments:

Data Entered By: MJB 4/24/20

Data Reviewed By: MJB 4/24/20

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B27037\
Data File : ECD8-02272003.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2020 12:20
Operator : MJB
Sample : 0B27037-BKD1
Misc : A20A019
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 27 12:41:28 2020
Quant Method : C:\msdchem\1\methods\PestBreakdownCHK_200201RT6.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	7.533	17811958	NoCal	ng/mL
2)	Endrin	7.891	1537744782	NoCal	ng/mL
3)	4,4'-DDD	7.950	81731424	NoCal	ng/mL
4)	4,4'-DDT	8.143	2704830042	NoCal	ng/mL
5)	Endrin Aldehyde	8.335	107062189	NoCal	ng/mL
6)	Endrin Ketone	8.828	102772748	NoCal	ng/mL
8)	4,4'-DDE [2C]	8.391	28391100	NoCal	ng/mL
9)	Endrin [2C]	8.763	1392614486	NoCal	ng/mL
10)	4,4'-DDD [2C]	8.805	90459316	NoCal	ng/mL
11)	Endrin Aldehyde [2C]	9.144	90204721	NoCal	ng/mL
12)	4,4'-DDT [2C]	9.028	2737910936	NoCal	ng/mL
13)	Endrin Ketone [2C]	9.737	117595268	NoCal	ng/mL

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

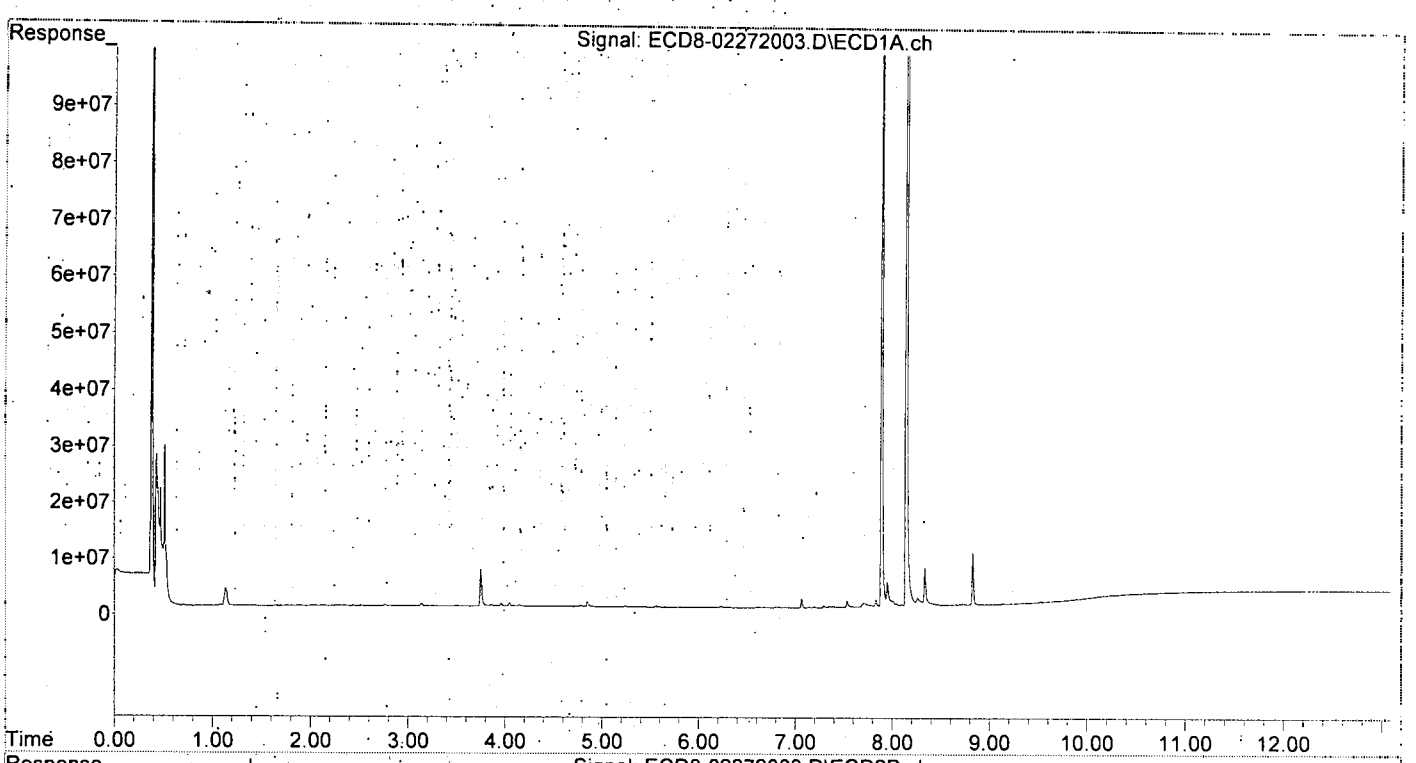
CCV failed
Maintenance performed.

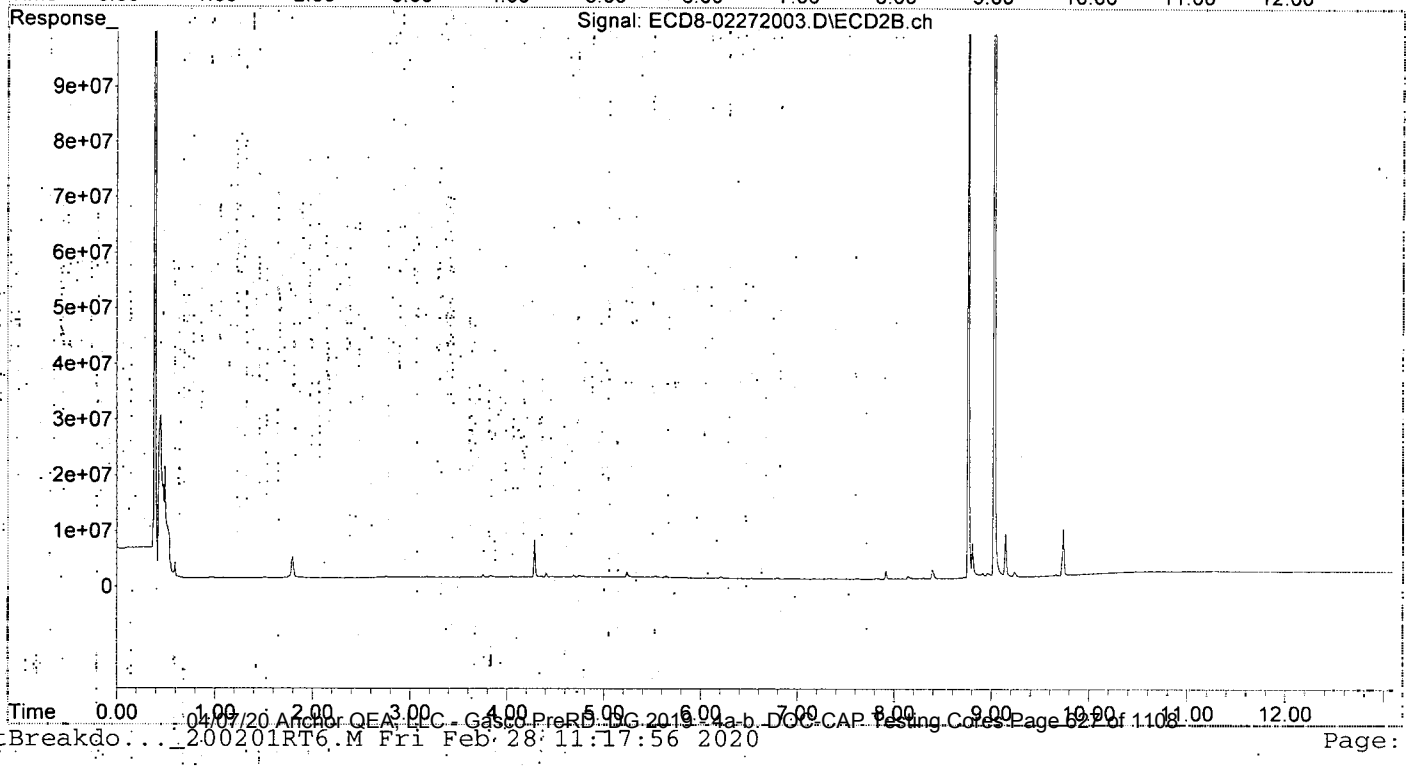
MJB 2/28/20

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B27037\
Data File : ECD8-02272003.D
Signal(s) : Signal #1: ECD1A.ch , Signal #2: ECD2B.ch
Acq On : 27 Feb 2020 12:20
Operator : MJB
Sample : 0B27037-BKD1
Misc : A20A019
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 27 12:41:28 2020
Quant Method : C:\msdchem\1\methods\PestBreakdownCHK_200201RT6.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\0B27037\
Data File : ECD8-02272004.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2020 12:37
Operator : MJB
Sample : 0B27037-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 28 11:18:31 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT6.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

Q-14

MJB 2/28/20

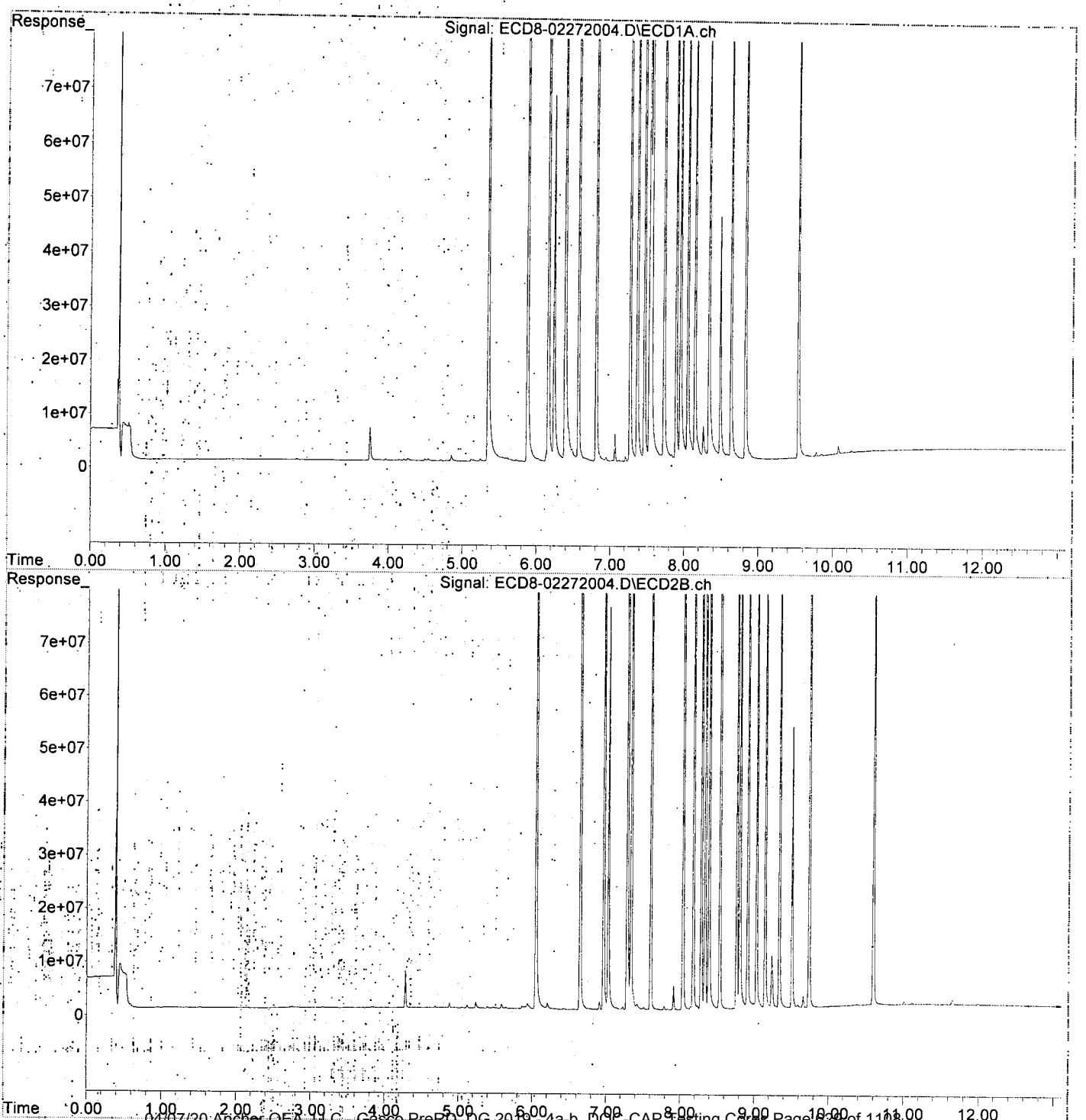
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.344	6.046	134.7E6	162.2E6	38.535	47.010	
22)	S DCBP (S)	9.539	10.597	117.6E6	102.6E6	44.804	47.891	
	Target Compounds							
2)	a-BHC	5.878	6.645	223.1E6	236.5E6	47.231	50.558	
3)	g-BHC	6.159	6.963	193.3E6	208.9E6	46.421	49.680	
4)	b-BHC	6.237	7.026	67956234	75566834	39.018	43.528	
5)	Heptachlor	6.570	7.335	186.8E6	195.0E6	45.453	46.306	
6)	d-BHC	6.386	7.281	144.0E6	180.8E6	39.849	47.084	
7)	Aldrin	6.810	7.601	201.7E6	211.2E6	49.915	52.395	
8)	Heptachlo...	7.267	8.037	176.8E6	181.4E6	47.876	50.530	
9)	trans-Chl...	7.365	8.176	175.0E6	185.1E6	46.527	49.791	
10)	cis-Chlor...	7.461	8.283	177.5E6	179.1E6	48.330	50.851	
11)	Endosulfa...	7.556	8.335	167.3E6	164.5E6	48.244	49.768	
12)	4,4'-DDE	7.530	8.388	140.4E6	155.0E6	42.293	45.691	
13)	Dieldrin	7.728	8.535	186.6E6	187.1E6	48.930	49.877	
14)	Endrin	7.891	8.762	145.2E6	138.2E6	44.500	44.835	
15)	4,4'-DDD	7.949	8.804	105.0E6	122.8E6	41.250	46.771	
16)	Endosulfa...	8.048	8.910	131.5E6	139.2E6	43.964	48.507	
17)	4,4'-DDT	8.145	9.028	114.3E6	129.0E6	42.531	46.959	
18)	Endrin Al...	8.335	9.145	109.9E6	133.0E6	41.745	50.325	
19)	Endosulfa...	8.633	9.336	119.6E6	133.7E6	41.804	49.025	
20)	Methoxychlor	8.487	9.506	45327916	53001260	37.565	44.613	
21)	Endrin Ke...	8.827	9.737	148.2E6	148.6E6	42.873	48.241	
23)	Hexachlor...	3.141	3.752	52311	46747	0.013	0.010	#
24)	Hexachlor...	5.730	6.507	251042	12124	0.075	BelowCal	#
25)	Oxychlordane	7.206	7.952	952241	185956	0.130	0.058	#
26)	2,4'-DDE	7.267	8.176	176.8E6	185.1E6	76.467	81.453	
27)	trans-Non...	7.461	8.237	177.5E6	812126	48.410	0.225	#
28)	2,4'-DDD	7.679f	8.535	1160305	187.1E6	0.599	97.760	#
29)	2,4'-DDT	7.831	8.762	1233863	138.2E6	0.516	58.370	#
30)	cis-Nonac...	7.949f	8.804	105.0E6	122.8E6	25.797	30.818	
31)	Mirex	8.577	9.737	1111630	148.6E6	0.253	69.034	#
32)	Chlordane...	7.365f	8.237f	175.0E6	812126	436.892	1.869	#
33)	Chlordane...	7.530f	8.335	140.4E6	164.5E6	288.789	452.430	#
34)	Chlordane...	8.048	8.990	131.5E6	1211817	1010.166	10.204	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.530f	8.535f	140.4E6	187.1E6	8579.795	6350.392	#
37)	Toxaphene...	7.831f	8.910	1233863	139.2E6	39.276	3464.045	#
38)	Toxaphene...	8.145f	8.990f	114.3E6	1211817	1649.126	18.731	#
39)	Toxaphene...	8.335	9.028	109.9E6	129.0E6	1658.725	1225.425	#
40)	Toxaphene...	8.577	9.237f	1111630	9981207	20.509	174.104	#
41)	Toxaphene...	8.633	9.590	119.6E6	742389	1573.221	11.239	#
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\0B27037\
Data File : ECD8-02272004.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2020 12:37
Operator : MJB
Sample : 0B27037-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 28 11:18:31 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT6.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\0B27037\
Data File : ECD8-02272005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2020 12:54
Operator : MJB
Sample : 0B27037-CCV2
Misc : A19K133, AB 50 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 28 11:18:35 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT6.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

Q-14
MJP 2/28/20

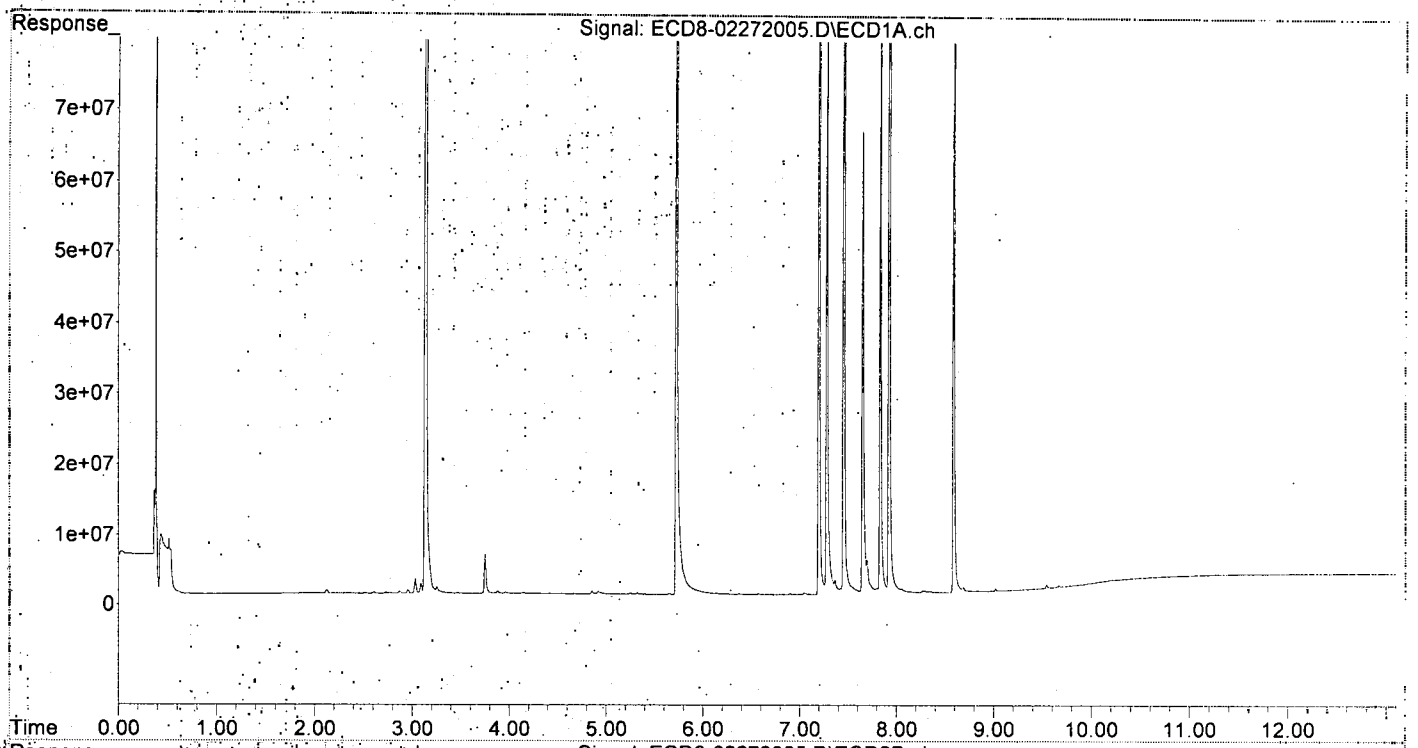
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.320f	6.054	253121	123906	0.072	0.036	#
22)	S DCBP (S)	9.541	10.599	563036	1012759	BelowCal	BelowCal	
	Target Compounds							
2)	a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)	g-BHC	6.136f	0.000	134906	0	0.032	N.D.	#
4)	b-BHC	6.244	7.035	101038	48343	0.058	0.028	#
5)	Heptachlor	6.573	7.336	190244	199647	0.046	0.047	
6)	d-BHC	6.375	7.288	74377	47872	0.128	0.111	
7)	Aldrin	6.811	7.620	16903	82341	0.004	0.034	#
8)	Heptachlo...	7.281	8.037	82966410	616395	22.467	0.172	#
9)	trans-Chl...	7.366	8.169	2087755	91930950	0.555	24.723	#
10)	cis-Chlor...	7.456	0.000	145.5E6	0	39.631	N.D.	#
11)	Endosulfa...	0.000	8.333	0	412055	N.D.	0.125	#
12)	4,4'-DDE	0.000	8.372	0	245011	N.D.	0.167	#
13)	Dieldrin	7.697f	8.541	4931727	74289382	1.293	20.637	#
14)	Endrin	7.924f	8.765	167.4E6	93200483	51.291	30.896	#
15)	4,4'-DDD	7.924f	8.805	167.4E6	174.4E6	65.774	63.796	
16)	Endosulfa...	8.053	0.000	608669	0	0.203	N.D.	#
17)	4,4'-DDT	8.148	9.030	220803	176237	0.082	0.046	#
18)	Endrin Al...	8.338	9.148	180053	108398	0.068	0.041	#
19)	Endosulfa...	0.000	9.339	0	40590	N.D.	BelowCal	
20)	Methoxychlor	0.000	0.000	0	0	N.D.	N.D.	
21)	Endrin Ke...	8.833	9.730	100113	96448864	0.029	32.112	#
23)	Hexachlor...	3.137	3.752	166.7E6	205.7E6	42.752	42.479	
24)	Hexachlor...	5.725	6.513	112.8E6	128.4E6	33.550	41.598	
25)	Oxychlordane	7.199	7.967	130.6E6	137.4E6	42.101	42.964	
26)	2,4'-DDE	7.281	8.169	82966410	91930950	35.884	40.445	
27)	trans-Non...	7.456	8.240	145.5E6	145.7E6	39.697	40.354	
28)	2,4'-DDD	7.652	8.541	65784538	74289382	33.966	38.808	
29)	2,4'-DDT	7.833	8.765	86063287	93200483	35.963	40.599	
30)	cis-Nonac...	7.924	8.805	167.4E6	174.4E6	41.134	43.763	
31)	Mirex	8.589	9.730	100.5E6	96448864	41.492	45.270	
32)	Chlordane...	7.366f	8.240f	2087755	145.7E6	5.213	335.252	#
33)	Chlordane...	0.000	8.333	0	412055	N.D.	1.133	#
34)	Chlordane...	8.053	8.972	608669	532045	4.675	4.480	
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	0.000	8.541f	0	74289382	N.D.	2520.937	#
37)	Toxaphene...	7.801	0.000	834124	0	26.551	N.D.	#
38)	Toxaphene...	8.148f	8.972	220803	532045	96750.800	8.224	#
39)	Toxaphene...	8.349	9.030	188587	176237	BelowCal	BelowCal	
40)	Toxaphene...	8.589	0.000	100.5E6	0	1853.866	N.D.	#
41)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

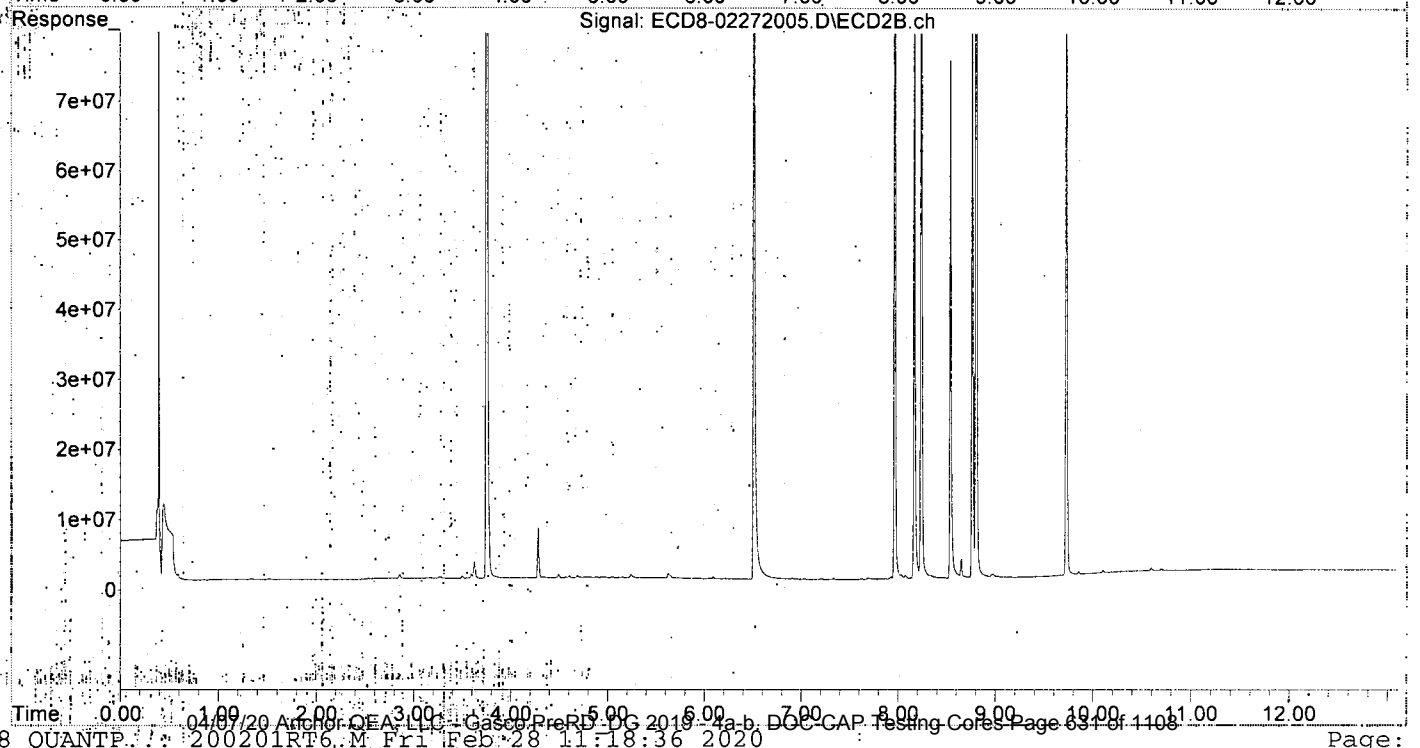
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B27037\
Data File : ECD8-02272005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2020 12:54
Operator : MJB
Sample : 0B27037-CCV2
Misc : A19K133, AB 50 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 28 11:18:35 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT6.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\0B27037\
Data File : ECD8-02272006.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2020 13:11
Operator : MJB
Sample : 0B27037-CCB1
Misc : A20A395
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 28 11:18:39 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT6.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

Q14

MJB 20427

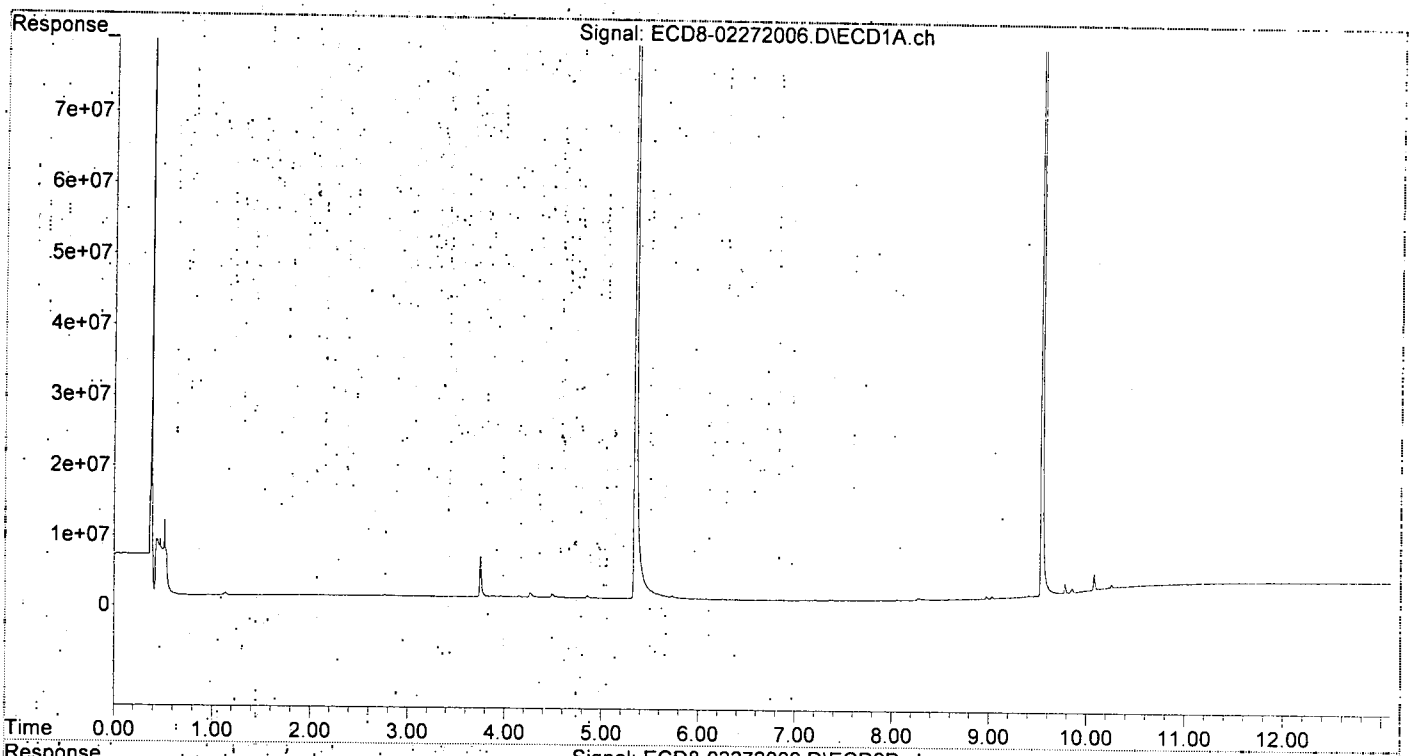
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.345	6.046	258.3E6	312.4E6	73.883	90.554	
22)	S DCBP (S)	9.539	10.599	212.0E6	187.2E6	79.715	84.612	
	Target Compounds							
2)	a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)	g-BHC	0.000	6.995f	0	6677	N.D.	0.044	#
4)	b-BHC	6.248	7.047	106545	13192	0.061	0.008	#
5)	Heptachlor	0.000	7.365f	0	20253	N.D.	0.005	#
6)	d-BHC	0.000	7.284	0	19541	N.D.	0.103	#
7)	Aldrin	6.851f	7.618	20539	179569	0.005	0.060	#
8)	Heptachlo...	7.240f	8.043	12751	13803	0.003	0.004	
9)	trans-Chl...	7.357	8.180	113975	44186	0.030	0.012	#
10)	cis-Chlor...	7.462	8.303	44155	11854	0.012	0.003	#
11)	Endosulfa...	0.000	8.341	0	13200	N.D.	0.004	#
12)	4,4'-DDE	0.000	8.395	0	9820	N.D.	0.091	#
13)	Dieldrin	0.000	8.542	0	17497	N.D.	0.037	#
14)	Endrin	7.889	8.748	16759	7207	0.005	BelowCal	#
15)	4,4'-DDD	7.932	8.805	14388	39594	0.006	0.060	#
16)	Endosulfa...	8.050	8.890f	120557	112857	0.040	0.012	#
17)	4,4'-DDT	0.000	0.000	0	0	N.D.	N.D.	
18)	Endrin Al...	8.338	9.151	125164	50467	0.048	0.019	#
19)	Endosulfa...	8.636	9.338	28619	24302	0.010	BelowCal	#
20)	Methoxychlor	8.490	9.501	46427	43469	0.038	BelowCal	#
21)	Endrin Ke...	8.830	9.738	28688	245164	0.008	BelowCal	#
23)	Hexachlor...	3.141	3.770	45723	126870	0.012	0.026	#
24)	Hexachlor...	5.729	6.513	472827	99973	0.141	BelowCal	#
25)	Oxychlordane	7.209	7.965	141121	28317	BelowCal	0.009	
26)	2,4'-DDE	0.000	8.180	0	44186	N.D.	0.019	#
27)	trans-Non...	7.462	8.242	44155	18508	0.012	0.005	#
28)	2,4'-DDD	0.000	8.542	0	17497	N.D.	0.009	#
29)	2,4'-DDT	7.813	8.748	11937	7207	0.005	BelowCal	#
30)	cis-Nonac...	7.925	8.805	24212	39594	0.006	0.010	#
31)	Mirex	8.595	9.738	72116	245164	8199.099	BelowCal	#
32)	Chlordane...	7.410	8.180f	21390	44186	0.053	0.102	#
33)	Chlordane...	7.462f	8.303	44155	11854	0.091	0.033	#
34)	Chlordane...	8.050	8.970	120557	463484	0.926	3.903	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	0.000	8.596f	0	10473	N.D.	0.355	#
37)	Toxaphene...	7.809	8.890f	11682	112857	0.372	2.808	#
38)	Toxaphene...	8.085f	8.970	10519	463484	96753.787	7.164	#
39)	Toxaphene...	8.352	0.000	96756	0	BelowCal	N.D.	
40)	Toxaphene...	8.575	0.000	14036	0	0.259	N.D.	#
41)	Toxaphene...	8.643	9.587	24638	131020	0.324	1.984	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

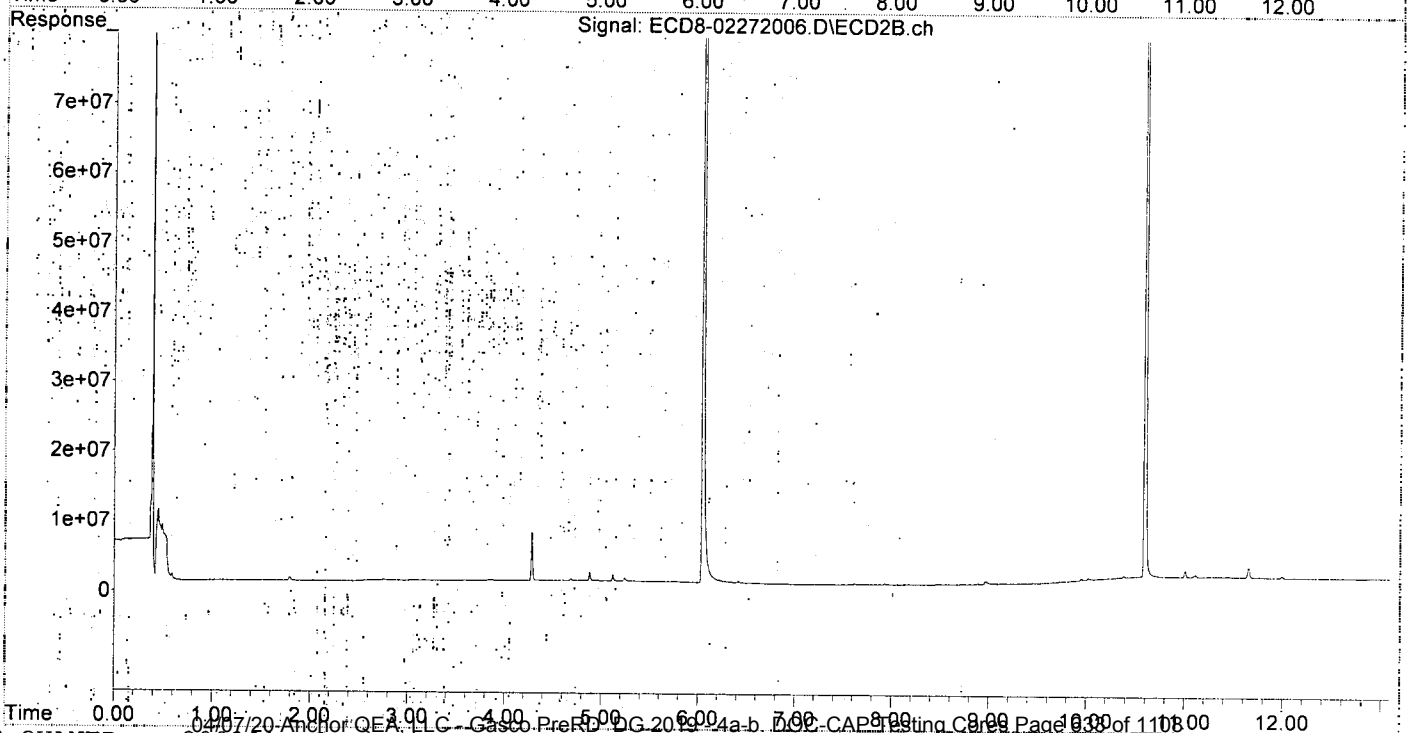
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B27037\
Data File : ECD8-02272006.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2020 13:11
Operator : MJB
Sample : 0B27037-CCB1
Misc : A20A395
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 28 11:18:39 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT6.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Pesticide Breakdown Check (Validated 8/8/2013)

Sequence: 0B27037 BKD2
Data File: ECD8-02272008.D

First Column Area Counts		Percent Breakdown	
DDE	9031493		
DDD	43174092		
DDT	2867768624	**1.79**	**PASS**
Endrin	1722971374	**8.14**	**PASS**
Endrin Aldehyde	86872089		
Endrin Ketone	65859972		

Second Column Area Counts		Percent Breakdown	
DDE	10382811		
DDD	39113089		
DDT	2953972197	**1.65**	**PASS**
Endrin	1589323030	**6.72**	**PASS**
Endrin Aldehyde	46085602		
Endrin Ketone	68421724		

Breakdown must be less than 15% to accept sample data.

MJB 2/24/20

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B27037\
Data File : ECD8-02272008.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2020 14:02
Operator : MJB
Sample : 0B27037-BKD2
Misc : A20A019
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 27 14:20:55 2020
Quant Method : C:\msdchem\1\methods\PestBreakdownCHK_200201RT7.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	7.505	9031493	NoCal	ng/mL
2)	Endrin	7.869	1722971374	NoCal	ng/mL
3)	4,4'-DDD	7.923	43174092	NoCal	ng/mL
4)	4,4'-DDT	8.121	2867768624	NoCal	ng/mL
5)	Endrin Aldehyde	8.313	86872089	NoCal	ng/mL
6)	Endrin Ketone	8.806	65859972	NoCal	ng/mL
8)	4,4'-DDE [2C]	8.366	10382811	NoCal	ng/mL
9)	Endrin [2C]	8.742	1589323030	NoCal	ng/mL
10)	4,4'-DDD [2C]	8.782	39113089	NoCal	ng/mL
11)	Endrin Aldehyde [2C]	9.125	46085602	NoCal	ng/mL
12)	4,4'-DDT [2C]	9.009	2953972197	NoCal	ng/mL
13)	Endrin Ketone [2C]	9.717	68421724	NoCal	ng/mL

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

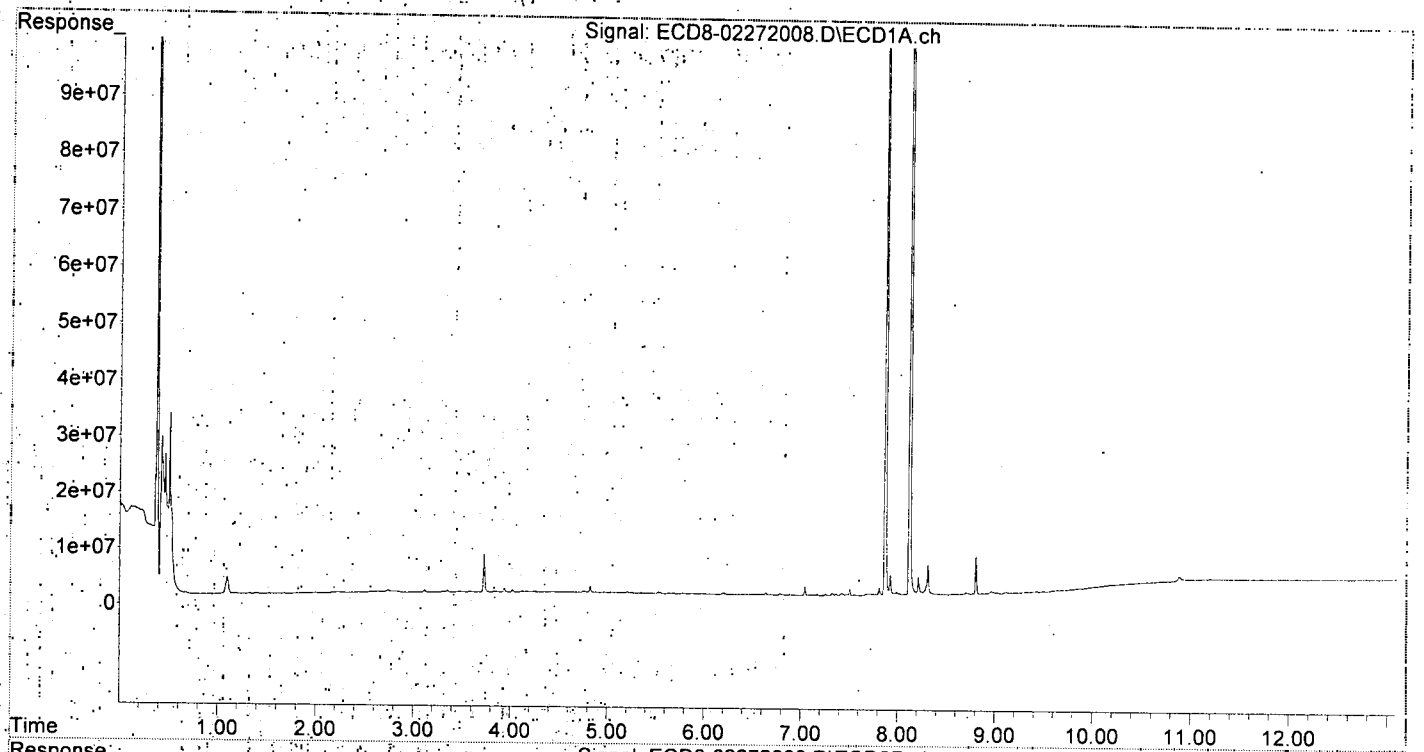
Swabbed inlet w/ Hexane.
Cut ~ 12" off guard column.

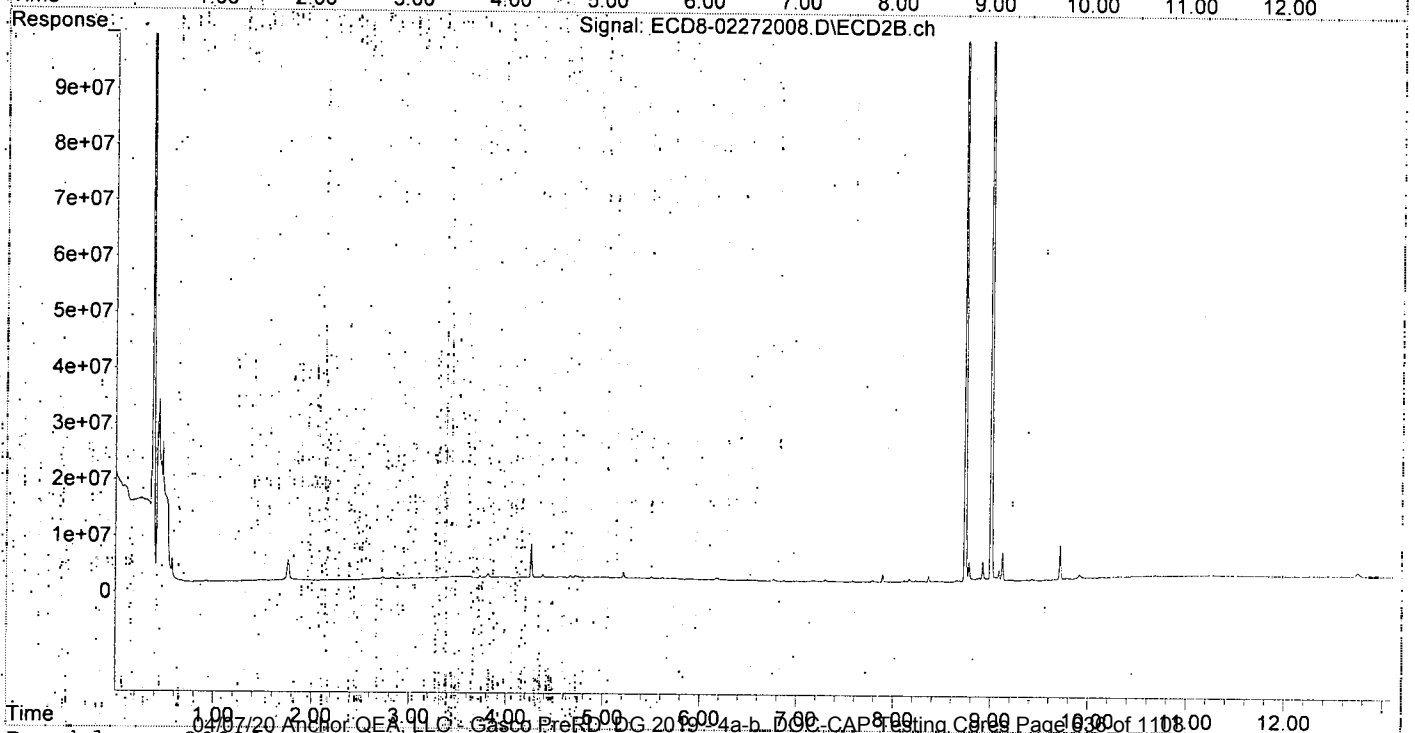
MJB 2/24/21

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B27037\
Data File : ECD8-02272008.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2020 14:02
Operator : MJB
Sample : 0B27037-BKD2
Misc : A20A019
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 27 14:20:55 2020
Quant Method : C:\msdchem\1\methods\PestBreakdownCHK_200201RT7.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\0B27037\
Data File : ECD8-02272009.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2020 14:18
Operator : MJB
Sample : 0B27037-CCV3
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 28 11:23:22 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/28/20

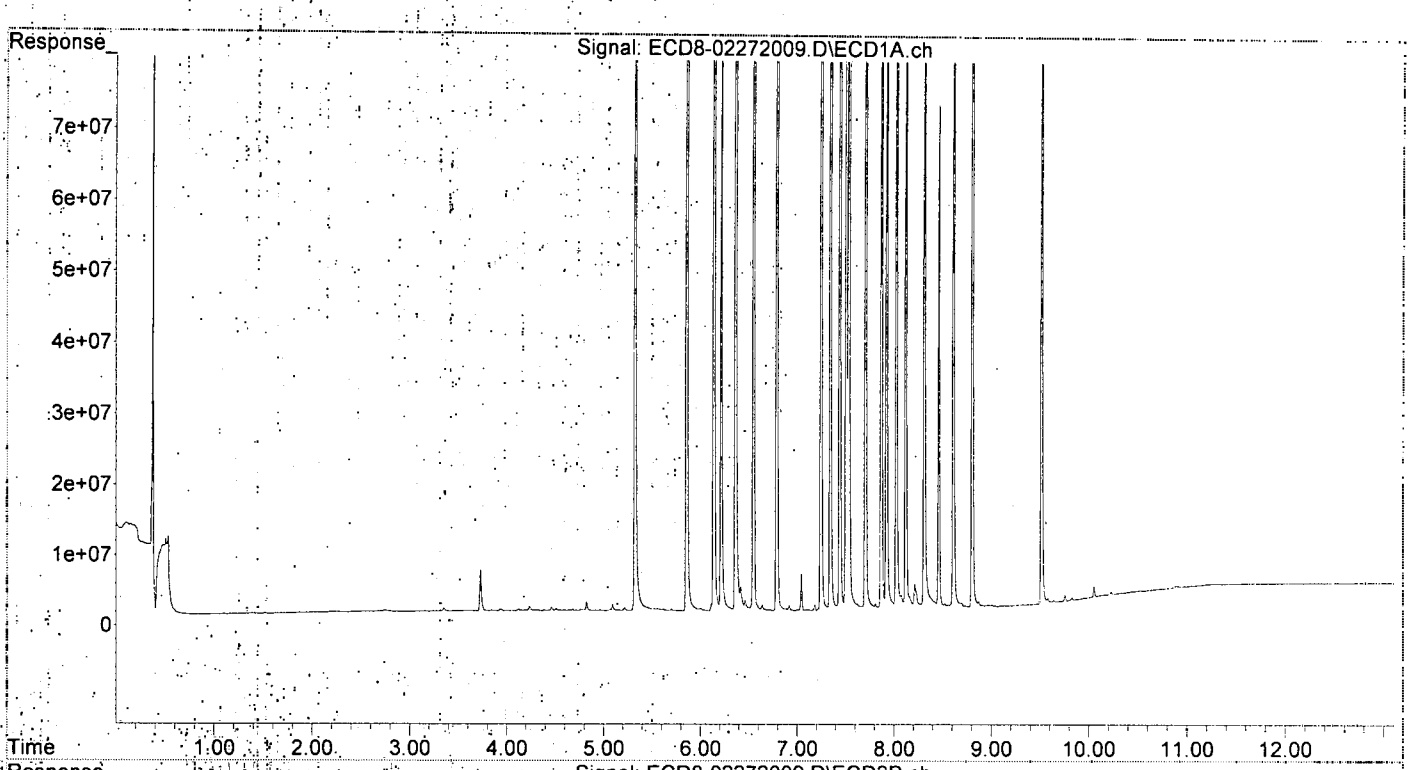
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.324	6.025	164.8E6	187.7E6	47.137	54.422	
22)	S DCBP (S)	9.517	10.573	146.3E6	118.9E6	55.532	55.169	
	Target Compounds							
2)	a-BHC	5.858	6.625	256.4E6	272.5E6	54.280	57.531	
3)	g-BHC	6.140	6.942	222.9E6	228.0E6	53.539	53.894	
4)	b-BHC	6.215	7.006	88957738	92922069	51.077	53.525	
5)	Heptachlor	6.550	7.315	204.4E6	204.3E6	49.729	48.517	
6)	d-BHC	6.363	7.260	204.0E6	221.5E6	55.372	56.623	
7)	Aldrin	6.790	7.581	216.4E6	215.4E6	53.556	53.348	
8)	Heptachlo...	7.247	8.016	192.8E6	200.7E6	52.217	55.919	
9)	trans-Chl...	7.343	8.157	200.0E6	193.1E6	53.182	51.930	
10)	cis-Chlor...	7.441	8.263	192.1E6	188.9E6	52.306	53.631	
11)	Endosulfa...	7.534	8.314	180.0E6	183.0E6	51.906	55.369	
12)	4,4'-DDE	7.506	8.367	193.1E6	199.3E6	58.137	57.455	
13)	Dieldrin	7.707	8.514	209.9E6	200.0E6	55.040	53.077	
14)	Endrin	7.870	8.742	171.9E6	155.1E6	52.675	49.935	
15)	4,4'-DDD	7.924	8.782	153.5E6	159.5E6	60.327	59.001	
16)	Endosulfa...	8.025	8.889	152.2E6	162.8E6	50.881	56.014	
17)	4,4'-DDT	8.122	9.008	150.0E6	151.9E6	55.808	54.376	
18)	Endrin Al...	8.313	9.125	134.5E6	144.7E6	51.095	54.745	
19)	Endosulfa...	8.612	9.315	147.7E6	150.7E6	51.593	54.747	
20)	Methoxychlor	8.462	9.484	71238834	72107694	59.039	58.872	
21)	Endrin Ke...	8.806	9.717	177.6E6	179.2E6	51.387	57.327	
23)	Hexachlor...	3.120	3.734	46686	417653	0.012	0.086	#
24)	Hexachlor...	5.704	6.503	191151	193441	0.057	0.013	#
25)	Oxychlordane	7.185	7.933	837460	90407	0.093	0.028	#
26)	2,4'-DDE	7.247	8.157	192.8E6	193.1E6	83.400	84.952	
27)	trans-Non...	7.441	8.218	192.1E6	493726	52.392	0.137	#
28)	2,4'-DDD	7.620	8.514	794504	200.0E6	0.410	104.486	#
29)	2,4'-DDT	7.809	8.742	843385	155.1E6	0.352	64.802	#
30)	cis-Nonac...	7.924f	8.782	153.5E6	159.5E6	37.727	40.024	
31)	Mirex	8.562	9.717	392020	179.2E6	8198.967	82.704	#
32)	Chlordane...	7.343f	8.157f	200.0E6	193.1E6	499.383	444.437	
33)	Chlordane...	7.506f	8.314f	193.1E6	183.0E6	396.975	503.342	#
34)	Chlordane...	8.025	8.966	152.2E6	595561	1169.105	5.015	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.506f	8.514f	193.1E6	200.0E6	11793.947	6787.344	#
37)	Toxaphene...	7.809f	8.889	843385	162.8E6	26.846	4050.091	#
38)	Toxaphene...	8.076	8.923	1955568	3987863	24.626	61.640	#
39)	Toxaphene...	8.313	9.008	134.5E6	151.9E6	2024.203	1424.424	#
40)	Toxaphene...	8.551	9.216f	379821	1742169	7.007	30.389	#
41)	Toxaphene...	8.612	9.568	147.7E6	494957	1941.617	7.493	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

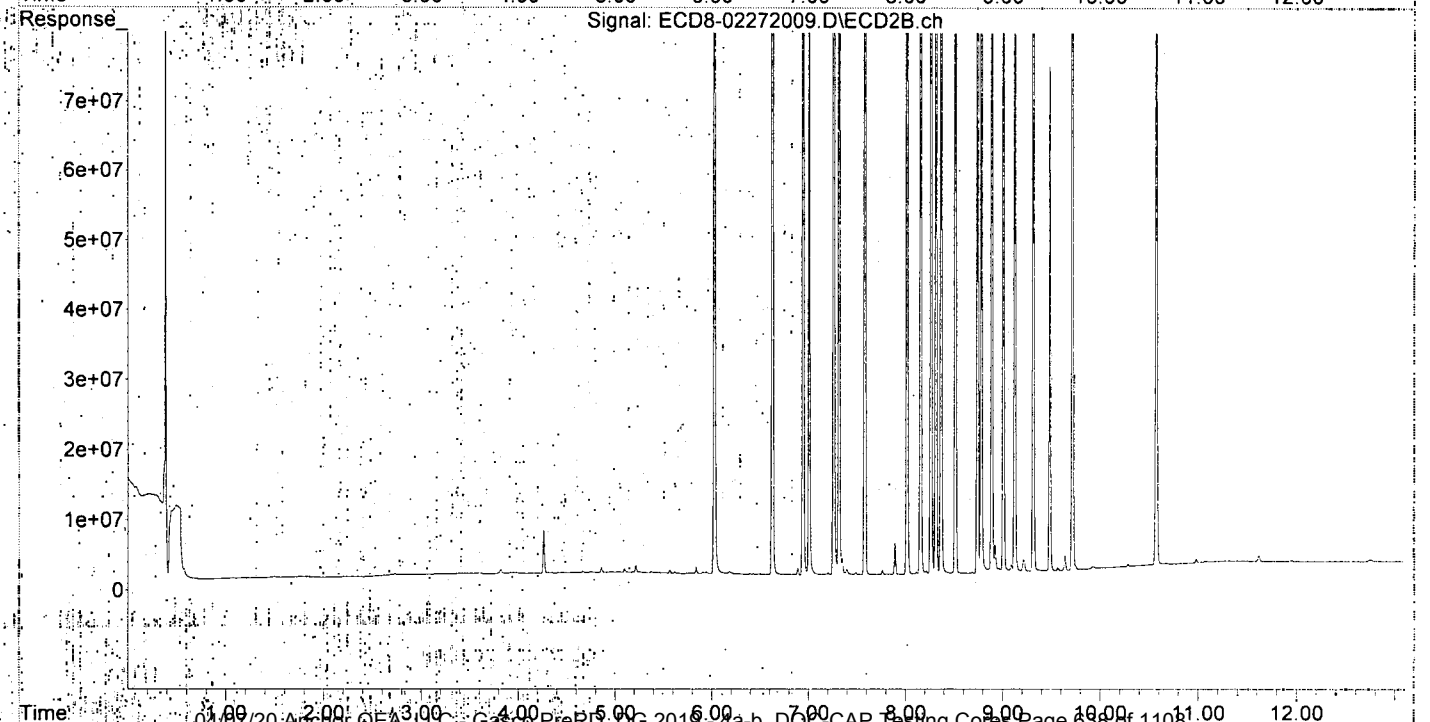
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B27037\
Data File : ECD8-02272009.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2020 14:18
Operator : MJB
Sample : 0B27037-CCV3
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 28 11:23:22 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.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\0B27037\
Data File : ECD8-02272010.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2020 14:35
Operator : MJB
Sample : 0B27037-CCV4
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 28 11:23:27 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.M
Quant Title : Instrument: DualECD8|
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/29/20

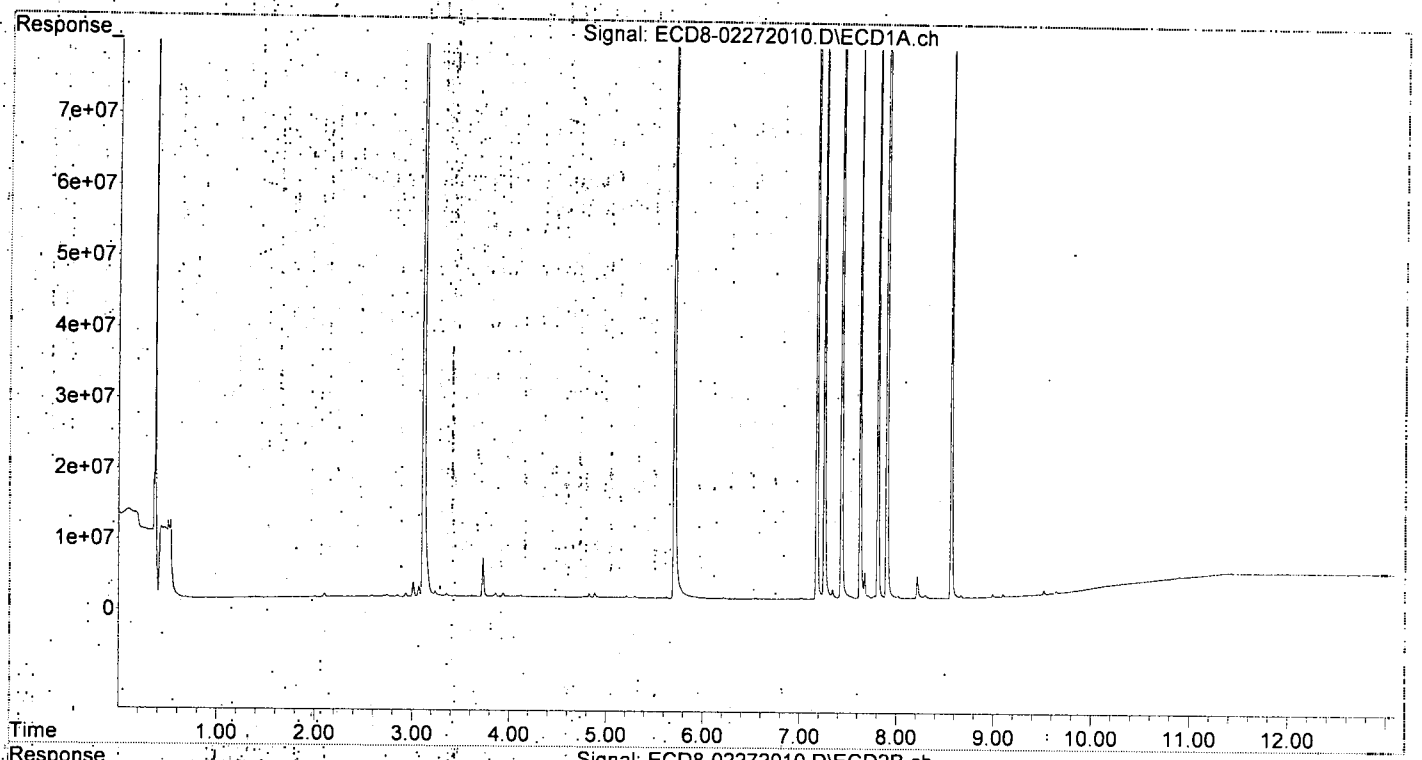
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.299f	6.026	267080	326105	0.076	0.095	
22)	S DCBP (S)	9.517	10.575	664847	905598	BelowCal	BelowCal	
	Target Compounds							
2)	a-BHC	0.000	6.654f	0	166088	N.D.	0.115	#
3)	g-BHC	6.121	6.935	92841	52950	0.022	0.056	#
4)	b-BHC	6.214	7.009	185407	71185	0.106	0.041	#
5)	Heptachlor	6.551	7.316	192252	179541	0.047	0.043	
6)	d-BHC	6.367	7.266	37671	94638	0.117	0.125	
7)	Aldrin	6.793	7.590	21619	187188	0.005	0.062	#
8)	Heptachlo...	7.257	8.015	108.1E6	361602	29.273	0.101	#
9)	trans-Chl...	7.343	8.147	1416715	111.0E6	0.377	29.849	#
10)	cis-Chlor...	7.433	8.260	164.4E6	499901	44.778	0.142	#
11)	Endosulfa...	0.000	8.323	0	162851	N.D.	0.049	#
12)	4,4'-DDE	0.000	8.363	0	74444	N.D.	0.112	#
13)	Dieldrin	7.711	8.519	515801	88247776	0.135	24.380	#
14)	Endrin	7.901f	8.743	188.9E6	101.6E6	57.888	33.547	#
15)	4,4'-DDD	7.901f	8.784	188.9E6	179.8E6	74.235	65.524	
16)	Endosulfa...	8.021	8.890	416414	133547	0.139	0.020	#
17)	4,4'-DDT	8.124	9.009	92725	140936	0.034	0.032	
18)	Endrin Al...	8.300	9.123	545309	120190	0.207	0.045	#
19)	Endosulfa...	0.000	9.316	0	60890	N.D.	BelowCal	
20)	Methoxychlor	8.463	9.483	23577	20579	0.020	BelowCal	#
21)	Endrin Ke...	8.805	9.710	80963	99355528	0.023	33.033	#
23)	Hexachlor...	3.117	3.733	170.2E6	211.6E6	43.665	43.705	
24)	Hexachlor...	5.704	6.492	146.6E6	159.4E6	43.610	50.869	
25)	Oxychlordane	7.177	7.946	146.8E6	140.3E6	47.299	43.862	
26)	2,4'-DDE	7.257	8.147	108.1E6	111.0E6	46.754	48.830	
27)	trans-Non...	7.433	8.220	164.4E6	157.6E6	44.852	43.676	
28)	2,4'-DDD	7.626	8.519	93114819	88247776	48.077	46.100	
29)	2,4'-DDT	7.809	8.743	105.5E6	101.6E6	44.064	44.002	
30)	cis-Nonac...	7.901	8.784	188.9E6	179.8E6	46.426	45.128	
31)	Mirex	8.567	9.710	110.5E6	99355528	45.693	46.609	
32)	Chlordane...	7.343f	8.220f	1416715	157.6E6	3.538	362.847	#
33)	Chlordane...	0.000	8.323f	0	162851	N.D.	0.448	#
34)	Chlordane...	8.021	8.925f	416414	3743521	3.198	31.523	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	0.000	8.568	0	406252	N.D.	13.786	#
37)	Toxaphene...	7.778	8.890	514989	133547	16.393	3.323	#
38)	Toxaphene...	8.100	8.925	65554	3743521	96753.005	57.863	#
39)	Toxaphene...	8.300f	9.009	545309	140936	1.465	BelowCal	#
40)	Toxaphene...	8.567	9.177	110.5E6	33931	2039.572	0.592	#
41)	Toxaphene...	0.000	9.538	0	15210	N.D.	0.230	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

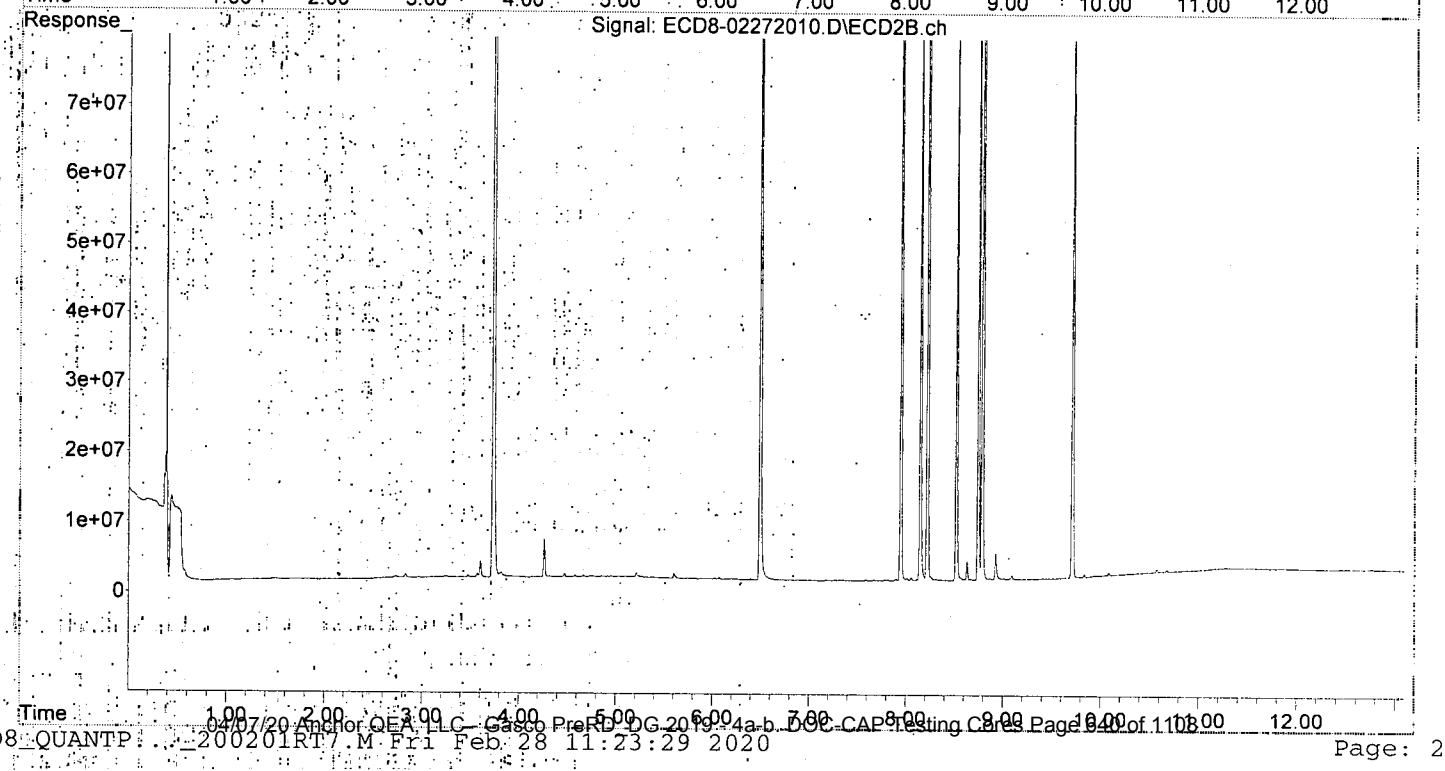
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B27037\
Data File : ECD8-02272010.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2020 14:35
Operator : MJB
Sample : 0B27037-CCV4
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 28 11:23:27 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.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\0B27037\
Data File : ECD8-02272011.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2020 14:52
Operator : MJB
Sample : 0B27037-CCB2
Misc : A20A395
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 28 11:23:31 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/28/20

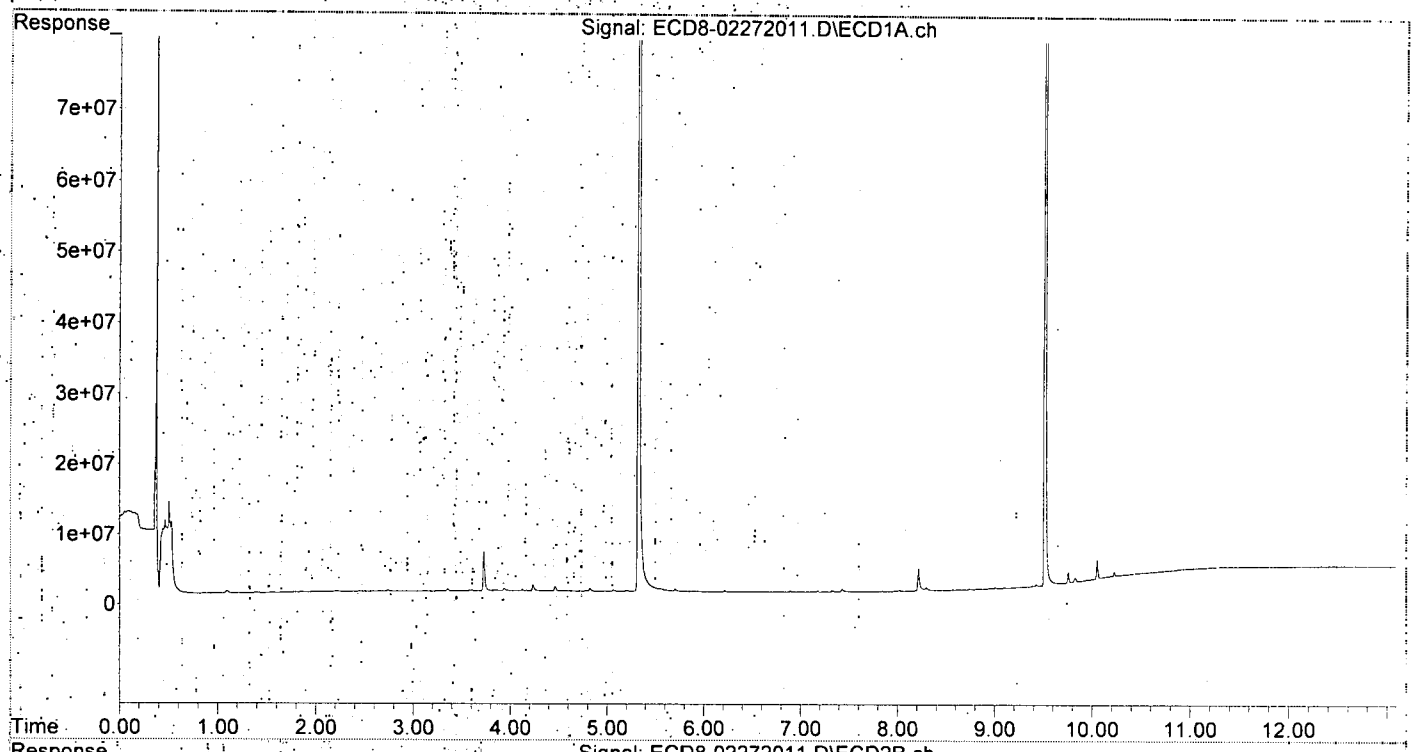
	Compound	RT#1	RT2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.324	6.026	298.1E6	345.2E6	85.271	100.059	
22)	S DCBP (S)	9.517	10.573	252.8E6	218.9E6	94.494	97.725	
	Target Compounds							
2)	a-BHC	5.871	0.000	45887	0	0.010	N.D.	#
3)	g-BHC	0.000	6.938	0	29574	N.D.	0.050	#
4)	b-BHC	6.216	6.994	193188	28970	0.111	0.017	#
5)	Heptachlor	6.533	7.324	36769	49833	0.009	0.012	#
6)	d-BHC	6.368	7.272	11977	47890	0.110	0.111	
7)	Aldrin	6.791	7.590	19811	291273	0.005	0.090	#
8)	Heptachlo...	7.256	8.015	22858	13317	0.006	0.004	#
9)	trans-Chl...	7.327	8.135f	234668	35196	0.062	0.009	#
10)	cis-Chlor...	7.431	8.259	391678	51204	0.107	0.015	#
11)	Endosulfa...	7.531	8.315	31750	32326	0.009	0.010	
12)	4,4'-DDE	7.498	8.369	51534	24111	0.016	0.096	#
13)	Dieldrin	7.704	8.514	16807	60552	0.004	0.050	#
14)	Endrin	7.884	8.743	6118	23528	0.002	0.001	#
15)	4,4'-DDD	7.924	8.785	15992	37665	0.006	0.059	#
16)	Endosulfa...	8.021	8.885	233860	51653	0.078	BelowCal	#
17)	4,4'-DDT	8.127	9.030f	21408	116224	0.008	0.022	#
18)	Endrin Al...	8.301	9.125	521590	105252	0.198	0.040	#
19)	Endosulfa...	8.613	9.317	42243	55907	0.015	BelowCal	#
20)	Methoxychlor	8.461	9.481	72739	56916	0.060	BelowCal	#
21)	Endrin Ke...	8.807	9.714	47911	188752	0.014	BelowCal	#
23)	Hexachlor...	3.120	3.743	79910	454655	0.020	0.094	#
24)	Hexachlor...	5.706	6.488	414209	26900	0.123	BelowCal	#
25)	Oxychlordane	7.177	7.946	203066	21514	BelowCal	0.007	
26)	2,4'-DDE	7.256	8.135	22858	35196	0.010	0.015	#
27)	trans-Non...	7.431	8.218	391678	77015	0.107	0.021	#
28)	2,4'-DDD	7.591f	8.514	17179	60552	0.009	0.032	#
29)	2,4'-DDT	7.818	8.743	17202	23528	0.007	BelowCal	#
30)	cis-Nonac...	7.908	8.785	20933	37665	0.005	0.009	#
31)	Mirex	8.571	9.714	48454	188752	8199.109	BelowCal	#
32)	Chlordane...	7.376	8.177	21666	472906	0.054	1.088	#
33)	Chlordane...	7.481	8.305	72843	26438	0.150	0.073	#
34)	Chlordane...	8.021	8.925f	233860	3650965	1.796	30.744	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.481	8.550	72843	9279	4.450	0.315	#
37)	Toxaphene...	7.791	8.885	16010	51653	0.510	1.285	#
38)	Toxaphene...	8.104	8.925	33469	3650965	96753.461	56.432	#
39)	Toxaphene...	8.355f	9.030f	132676	116224	BelowCal	BelowCal	
40)	Toxaphene...	8.571	9.155f	48454	37858	0.894	0.660	#
41)	Toxaphene...	8.624	9.547	28202	58386	0.371	0.884	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

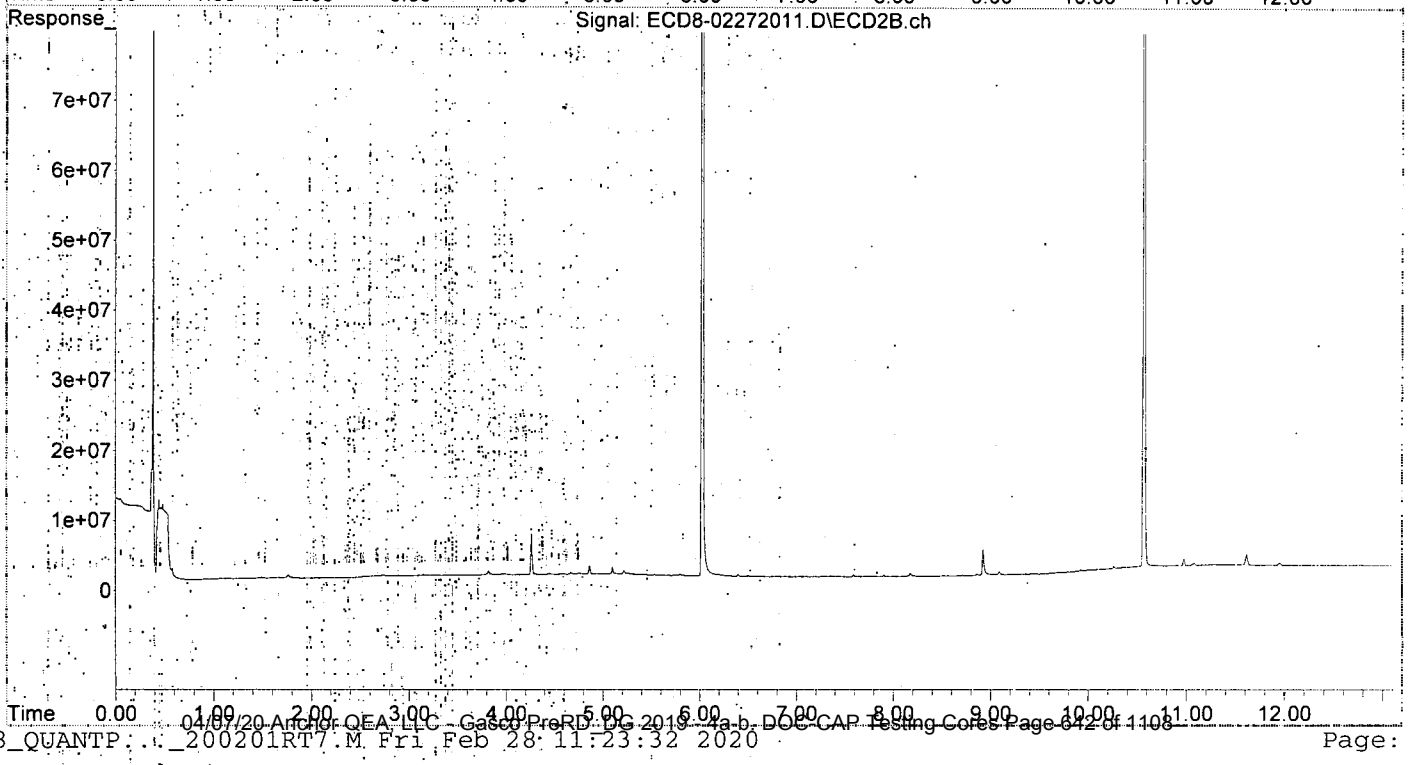
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B27037\
Data File : ECD8-02272011.D
Signal(s) : Signal #1: ECD1A.ch , Signal #2: ECD2B.ch
Acq On : 27 Feb 2020 14:52
Operator : MJB
Sample : 0B27037-CCB2
Misc : A20A395
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 28 11:23:31 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B27037\
Data File : ECD8-02272012.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2020 15:09
Operator : MJB
Sample : 0020808-BLK1
Misc : 1x, 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 28 11:23:35 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/24/20

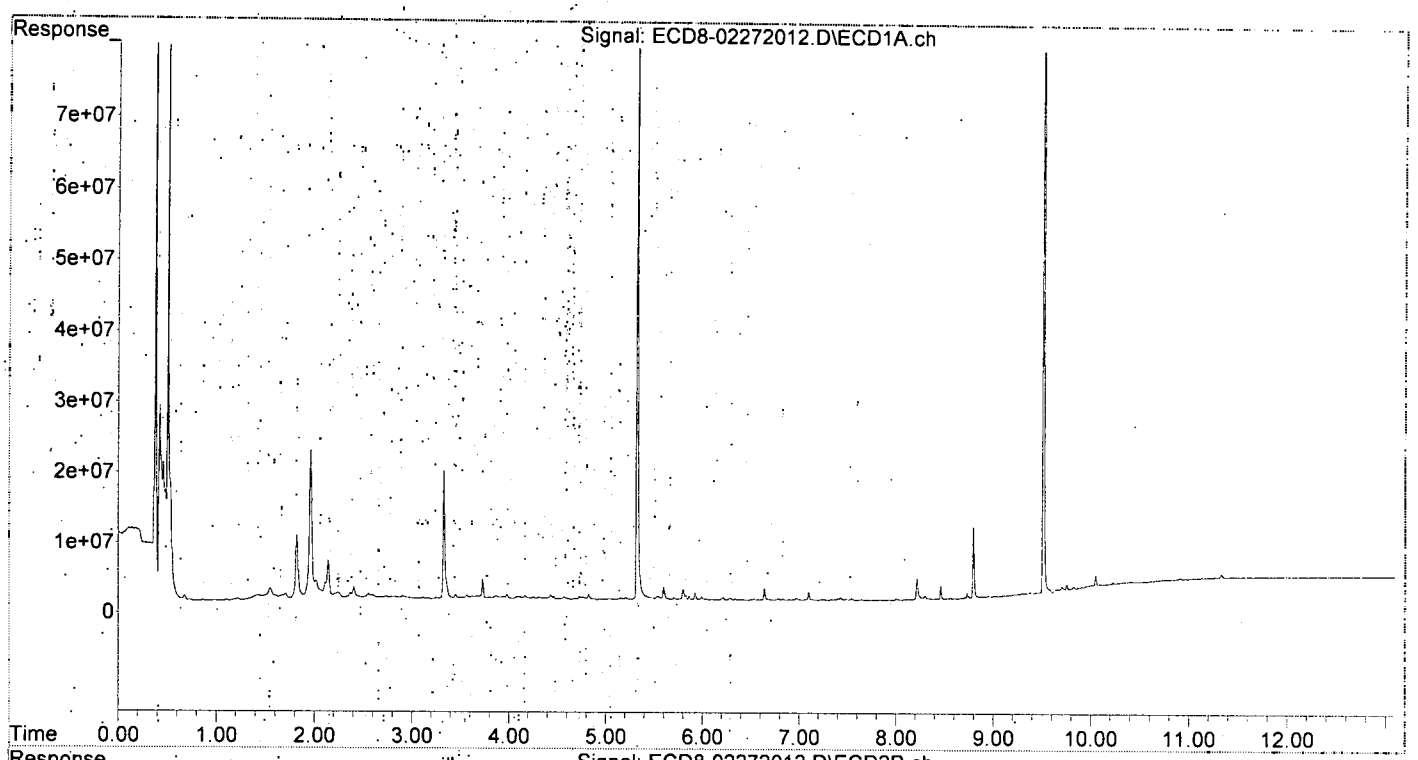
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	5.324	6.026	90824827	102.1E6	25.979	29.611
22) S	DCBP (S)	9.516	10.573	134.2E6	109.7E6	51.000	51.060
	Target Compounds						
2)	a-BHC	5.863	6.658f	3152461	4091548	0.667	1.033 #
3)	g-BHC	6.146	6.912f	2730675	4345938	0.656	1.154 #
4)	b-BHC	6.215	6.995	3125733	4424569	1.795	2.549 #
5)	Heptachlor	6.534	7.311	3014295	4571156	0.733	1.086 #
6)	d-BHC	6.372	7.263	2823863	4490145	0.923	1.376 #
7)	Aldrin	6.793	7.592	3187602	4774588	0.789	1.286 #
8)	Heptachlo...	7.255	7.997	3346766	5819114	0.906	1.621 #
9)	trans-Chl...	7.339	8.144	3377963	5199681	0.898	1.398 #
10)	cis-Chlor...	7.428	8.284f	3656620	5395030	0.996	1.532 #
11)	Endosulfa...	7.542	8.336f	3676653	5188819	1.060	1.570 #
12)	4,4'-DDE	7.502	8.378	161251	415042	0.049m	0.222m#
13)	Dieldrin	7.708	8.519	3445197	5382860	0.903	1.567 #
14)	Endrin	7.863	8.742	3531186	5519906	1.082	1.909 #
15)	4,4'-DDD	7.934	8.781	93268	149458	0.037m	0.107m#
16)	Endosulfa...	8.042	8.873	3656201	5665889	1.222	2.112 #
17)	4,4'-DDT	8.126	8.999	180788	265324	0.067m	0.083m
18)	Endrin Al...	8.301	9.121	4415425	5930631	1.677	2.243 #
19)	Endosulfa...	8.609	9.301	4133487	6113858	1.444	2.348 #
20)	Methoxychlor	8.462	9.484	5896186	8087684	4.886	7.143 #
21)	Endrin Ke...	8.796	9.715	14436271	6927926	4.177	2.227 #
23)	Hexachlor...	3.115	3.704f	1559900	20305900	0.400	4.194 #
24)	Hexachlor...	5.706	6.502	2808427	4920619	0.835	1.656 #
25)	Oxychlordane	7.172	7.929	3244844	4960195	0.877	1.551 #
26)	2,4'-DDE	7.254	8.164	168785	284734	0.073m	0.125m#
27)	trans-Non...	7.428	8.228	3656620	5201833	0.997	1.441 #
28)	2,4'-DDD	7.627	8.519	73689	180829	0.038m	0.094m#
29)	2,4'-DDT	7.808	8.741	105783	127534	0.044m	0.011m#
30)	cis-Nonac...	7.909	8.782	3574822	5561600	0.878	1.396 #
31)	Mirex	8.560	9.715	4178963	6927926	1.519	3.092 #
32)	Chlordane...	7.402f	8.174	3463024	5504700	8.647	12.670 #
33)	Chlordane...	7.485	8.284	3505892	5395030	7.209	14.840 #
34)	Chlordane...	8.002	8.924f	3850093	9227168	29.571	77.699 #
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36)	Toxaphene...	7.485	8.563	3505892	5347017	214.173	181.446
37)	Toxaphene...	7.808f	8.873f	3537394	5665889	112.601	140.981 #
38)	Toxaphene...	8.102	8.924	3733282	9227168	49.899	142.623 #
39)	Toxaphene...	8.333	8.999	3975877	5894113	54.324	56.871
40)	Toxaphene...	8.560	9.205f	4178963	5991350	77.099	104.508 #
41)	Toxaphene...	8.624	9.551	4128059	6375612	54.278	96.521 #
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

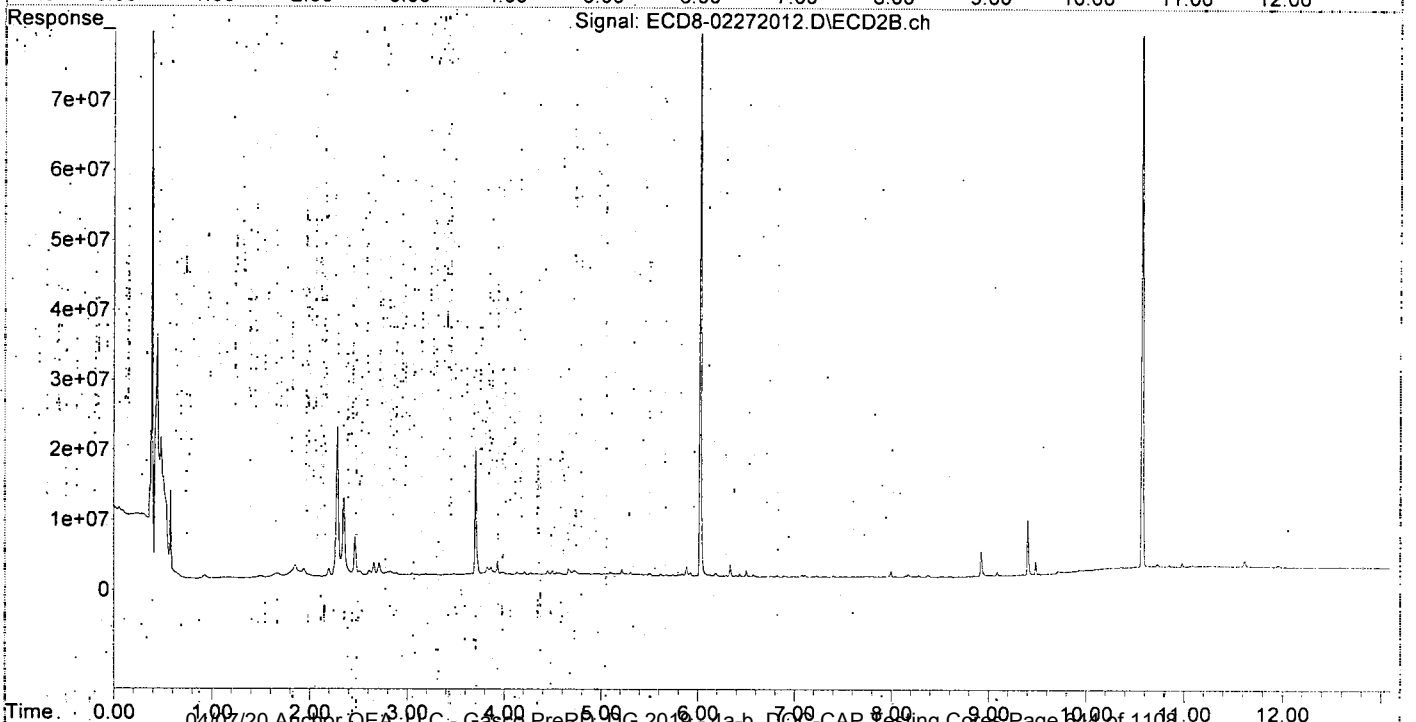
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B27037\
Data File : ECD8-02272012.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2020 15:09
Operator : MJB
Sample : 0020808-BLK1
Misc : 1x, 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 28 11:23:35 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

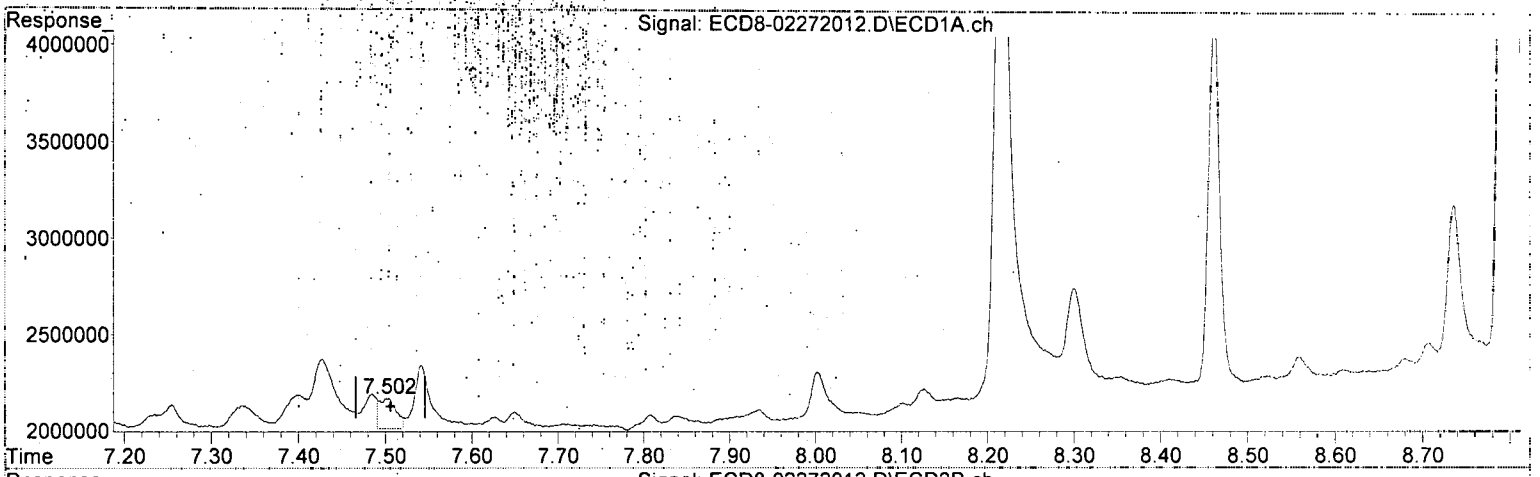


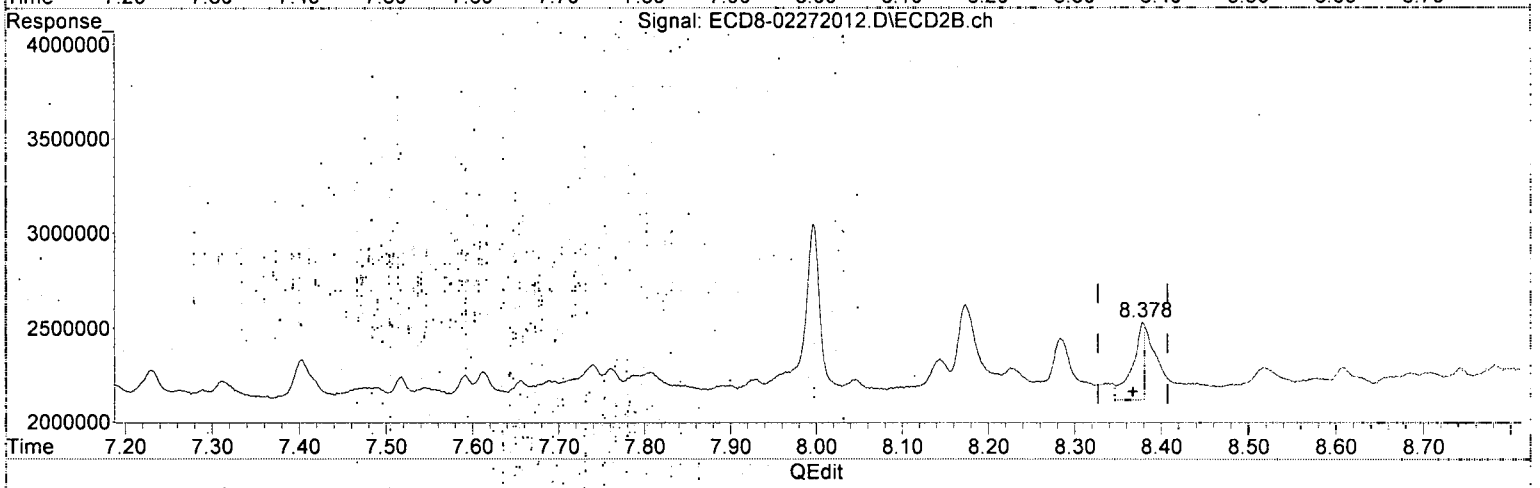


Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B27037\
Data File : ECD8-02272012.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2020 15:09
Operator : MJB
Sample : 0020808-BLK1
Misc : 1x, 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 28 11:23:35 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





(12) 4,4'-DDE

7.502min 0.049 ng/mL (m)

response 161251

MP 2/28/20

(12) 4,4'-DDE #2

8.378min 0.222 ng/mL (m)

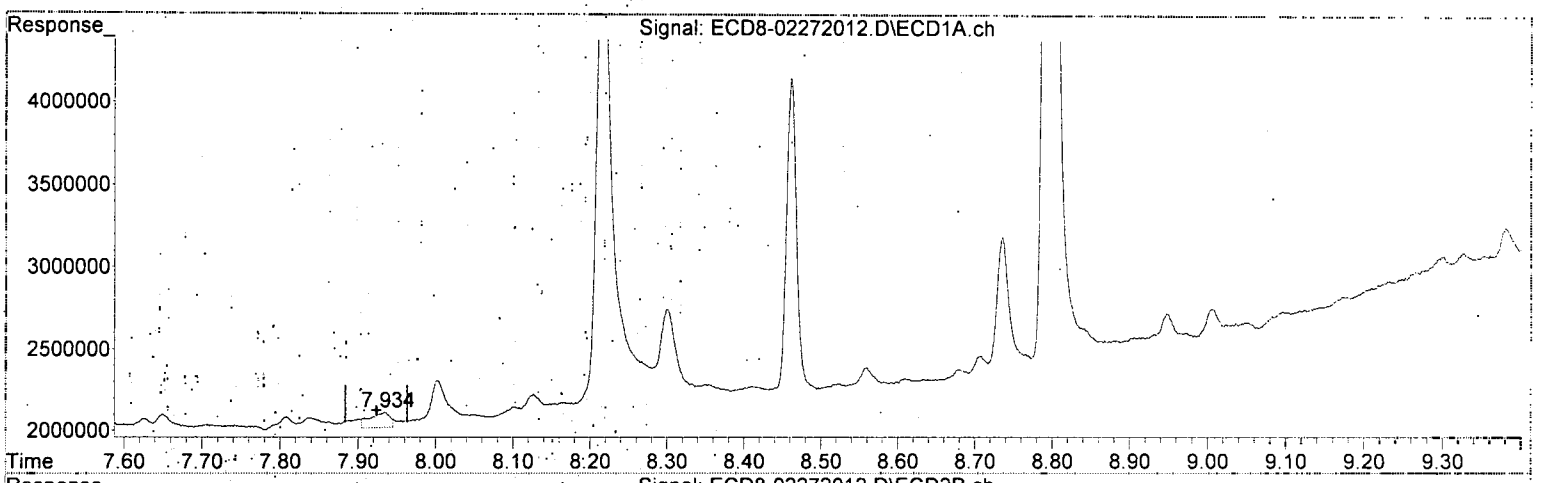
response 415042

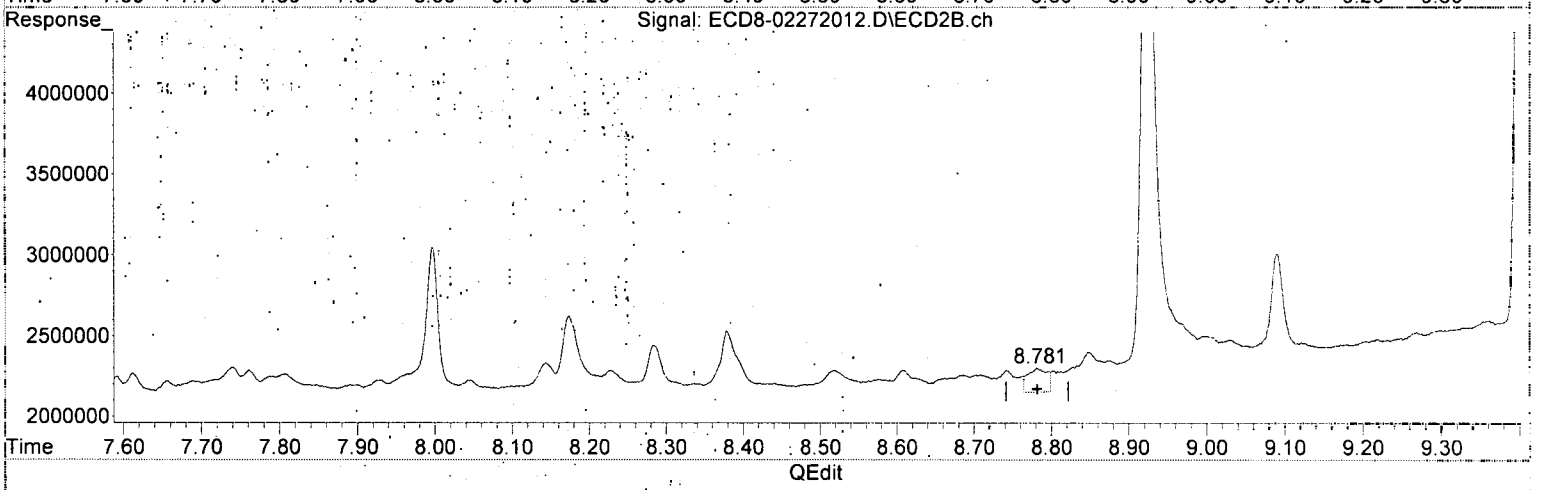
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B27037\
Data File : ECD8-02272012.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2020 15:09
Operator : MJB
Sample : 0020808-BLK1
Misc : 1x, 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 28 11:23:35 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





(15) 4,4'-DDD

7.934min 0.037 ng/mL(m)

response 93268

MJB 2/28/20

(15) 4,4'-DDD #2

8.781min 0.107 ng/mL(m)

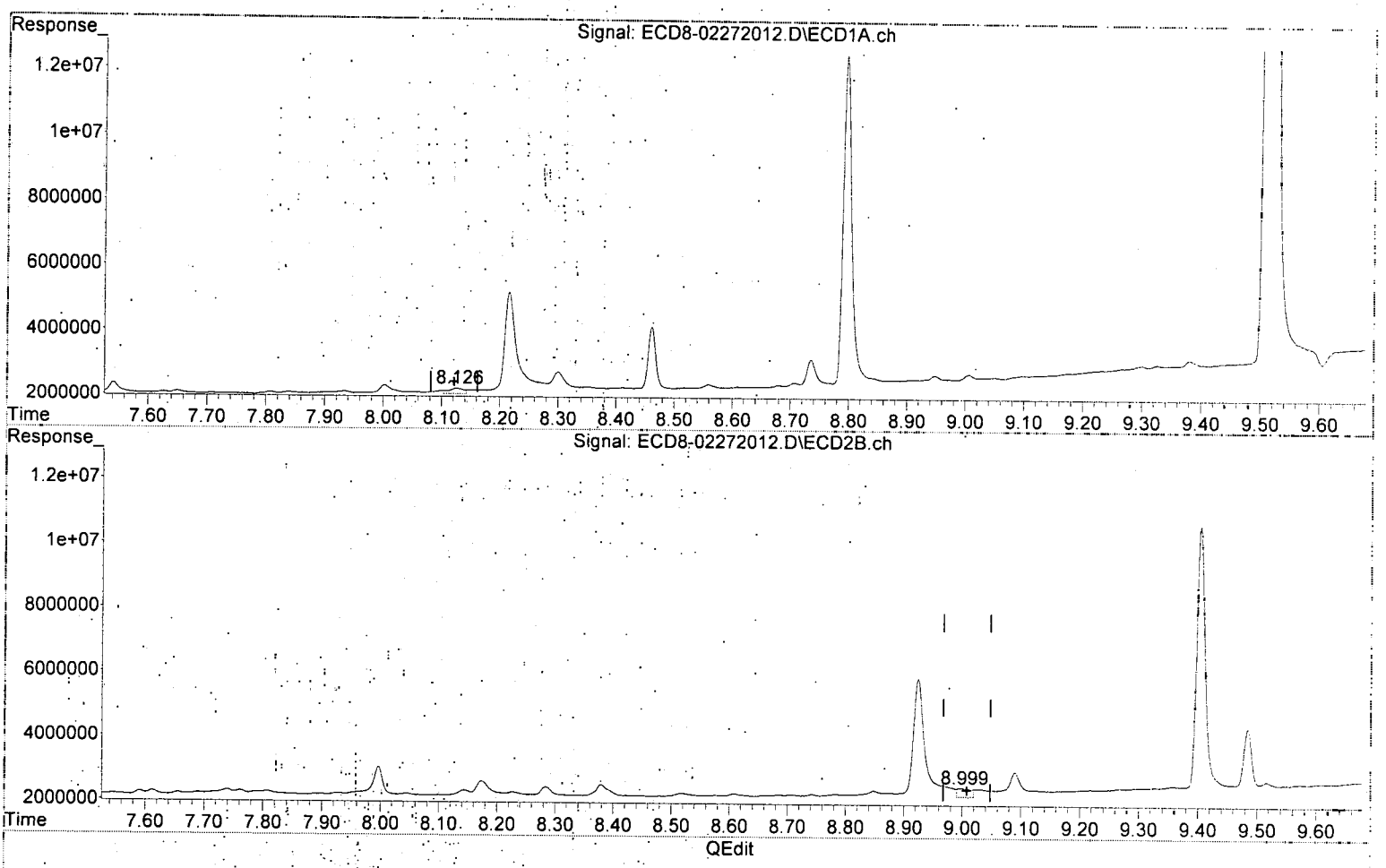
response 149458

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B27037\
Data File : ECD8-02272012.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2020 15:09
Operator : MJB
Sample : 0020808-BLK1
Misc : 1x, 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 28 11:23:35 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(17) 4,4'-DDT

8.126min 0.067 ng/mL (m)

response 180788

MB 2/28/2-

(17) 4,4'-DDT #2

8.999min 0.083 ng/mL (m)

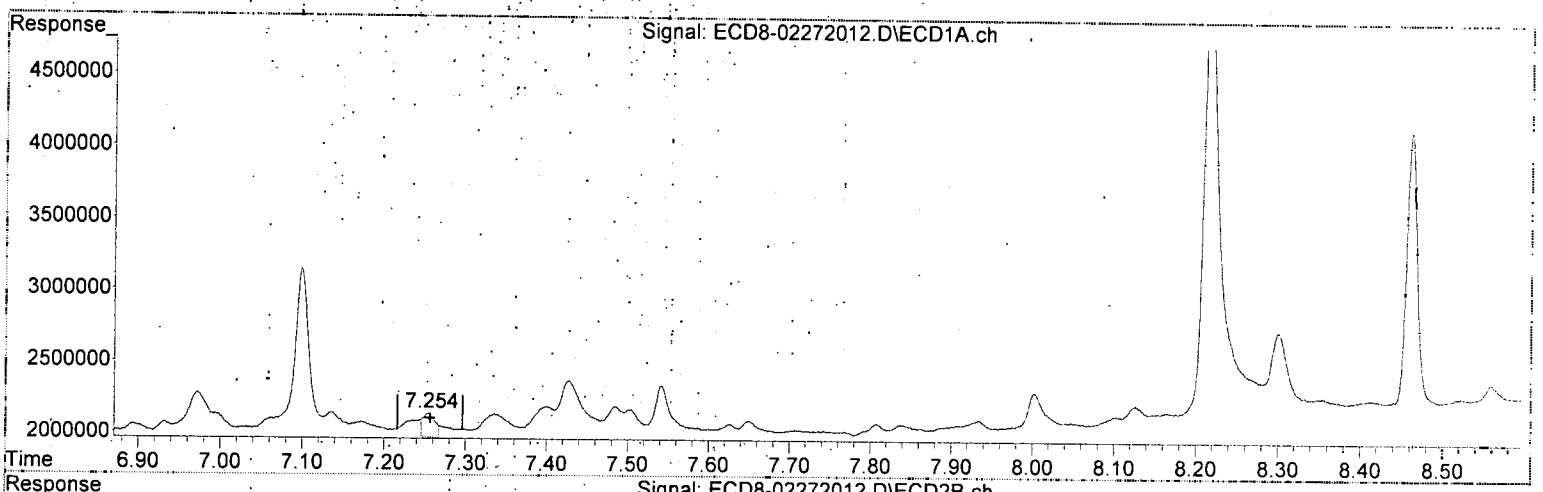
response 265324

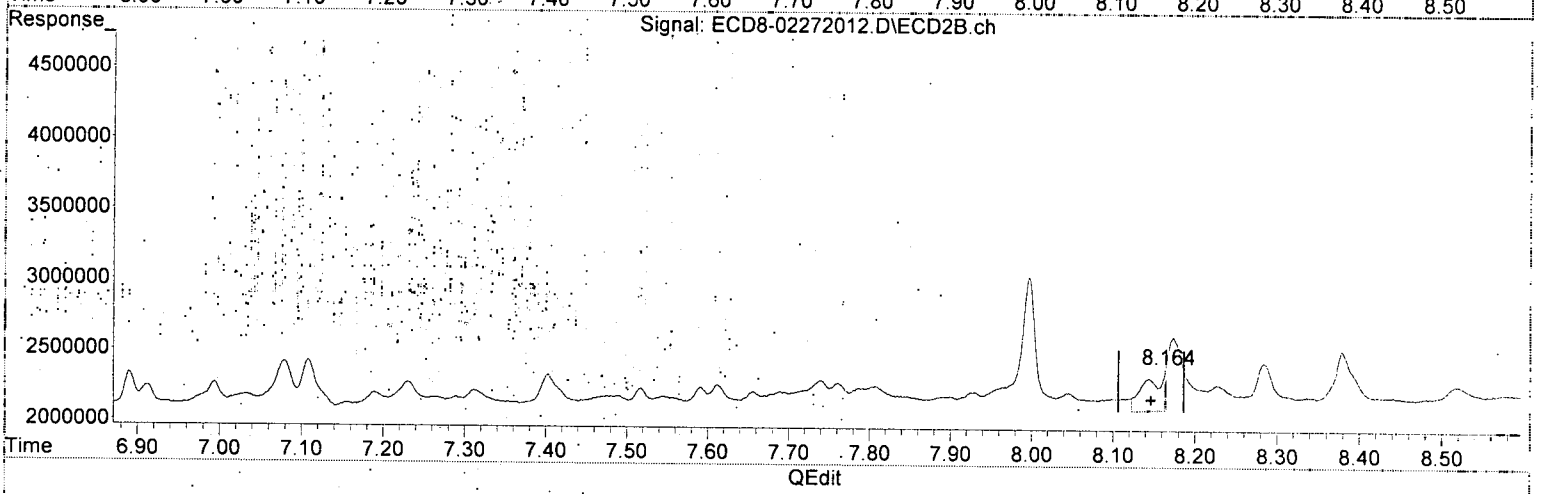
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B27037\
Data File : ECD8-02272012.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2020 15:09
Operator : MJB
Sample : 0020808-BLK1
Misc : 1x, 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 28 11:23:35 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





(26) 2,4'-DDE

7.254min 0.073 ng/mL (m)

response 168785

MJB 2/28/20

(26) 2,4'-DDE #2

8.164min 0.125 ng/mL (m)

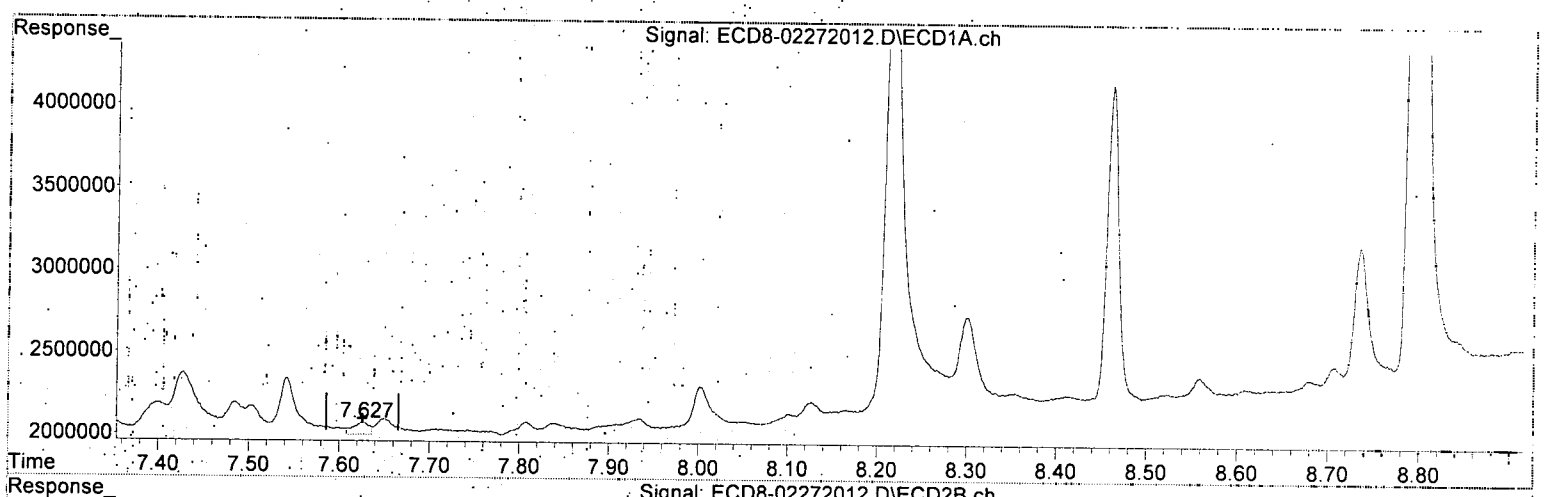
response 284734

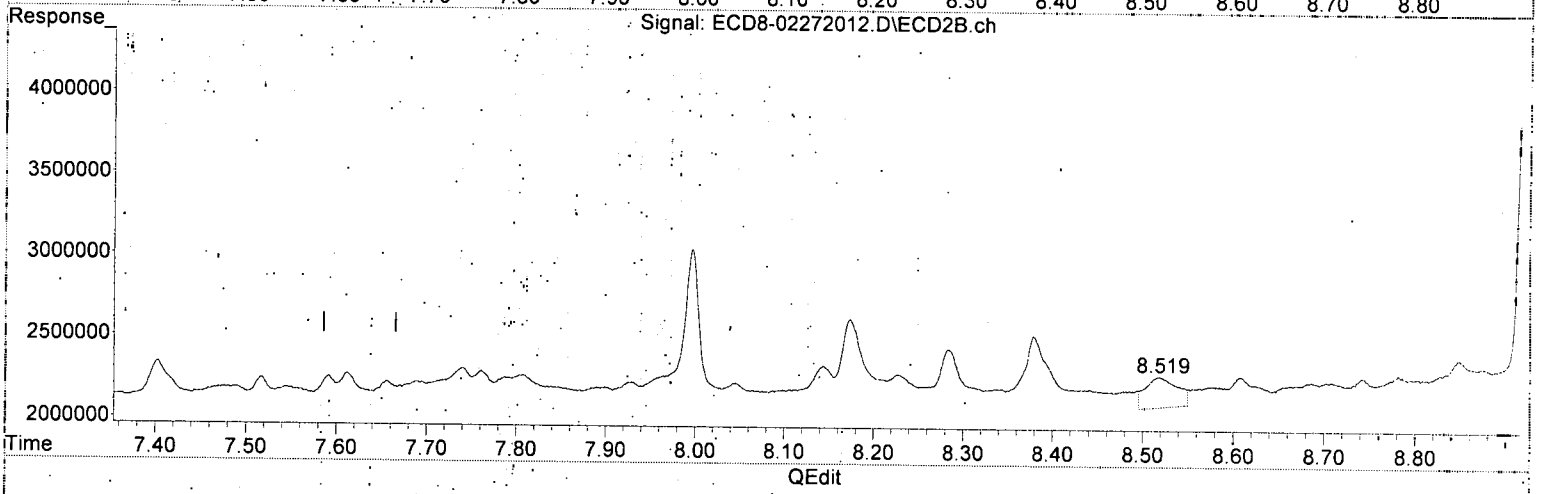
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B27037\
Data File : ECD8-02272012.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2020 15:09
Operator : MJB
Sample : 0020808-BLK1
Misc : 1x, 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 28 11:23:35 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





QEdit

(28) 2,4'-DDD

7.627min 0.038 ng/mL (m)

response 73689

MJB 2/28/20

(28) 2,4'-DDD #2

8.519min 0.094 ng/mL (m)

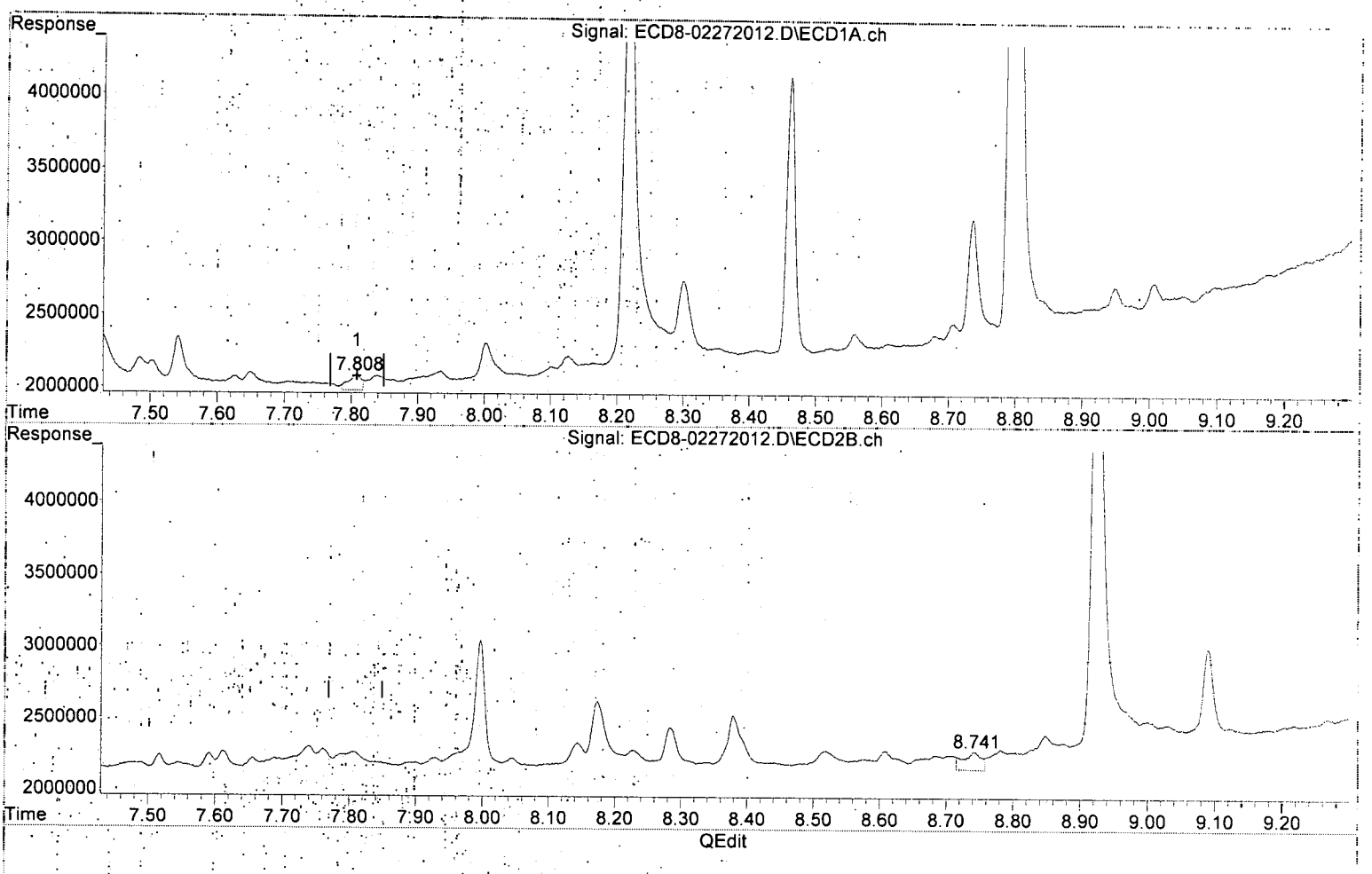
response 180829

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B27037\
Data File : ECD8-02272012.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2020 15:09
Operator : MJB
Sample : 0020808-BLK1
Misc : 1x, 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 28 11:23:35 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(29) 2,4'-DDT

7.808min 0.044 ng/mL (m)

response 105783

MJB 2/28/20

(29) 2,4'-DDT #2

8.741min 0.011 ng/mL (m)

response 127534

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B27037\
Data File : ECD8-02272012.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2020 15:09
Operator : MJB
Sample : 0020808-BLK1
Misc : 1x, 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 28 11:23:35 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MF MJB 2/24/20

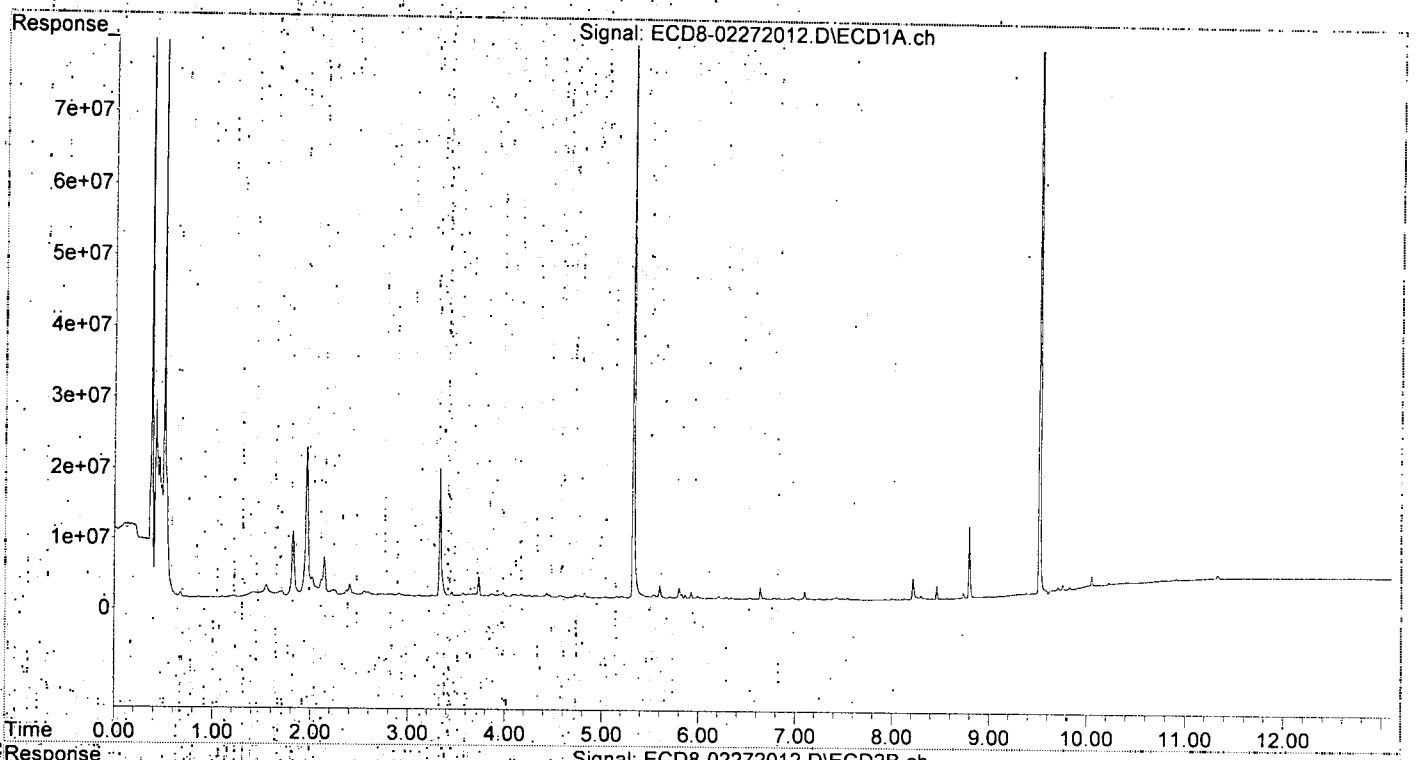
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.324	6.026	90824827	102.1E6	25.979	29.611	
22)	S DCBP (S)	9.516	10.573	134.2E6	109.7E6	51.000	51.060	
	Target Compounds							
2)	a-BHC	5.863	6.658f	3152461	4091548	0.667	1.033	#
3)	g-BHC	6.146	6.912f	2730675	4345938	0.656	1.154	#
4)	b-BHC	6.215	6.995	3125733	4424569	1.795	2.549	#
5)	Heptachlor	6.534	7.311	3014295	4571156	0.733	1.086	#
6)	d-BHC	6.372	7.263	2823863	4490145	0.923	1.376	#
7)	Aldrin	6.793	7.592	3187602	4774588	0.789	1.286	#
8)	Heptachlo...	7.255	7.997	3346766	5819114	0.906	1.621	#
9)	trans-Chl...	7.339	8.144	3377963	5199681	0.898	1.398	#
10)	cis-Chlor...	7.428	8.284f	3656620	5395030	0.996	1.532	#
11)	Endosulfa...	7.542	8.336f	3676653	5188819	1.060	1.570	#
12)	4,4'-DDE	7.505	8.379	3490077	5536612	1.051	1.861	#
13)	Dieldrin	7.708	8.519	3445197	5382860	0.903	1.567	#
14)	Endrin	7.863	8.742	3531186	5519906	1.082	1.909	#
15)	4,4'-DDD	7.935	8.782	3623802	5561600	1.424	2.411	#
16)	Endosulfa...	8.042	8.873	3656201	5665889	1.222	2.112	#
17)	4,4'-DDT	8.127	9.007	3819678	5889378	1.421	2.365	#
18)	Endrin Al...	8.301	9.121	4415425	5930631	1.677	2.243	#
19)	Endosulfa...	8.609	9.301	4133487	6113858	1.444	2.348	#
20)	Methoxychlor	8.462	9.484	5896186	8087684	4.886	7.143	#
21)	Endrin Ke...	8.796	9.715	14436271	6927926	4.177	2.227	#
23)	Hexachlor...	3.115	3.704f	1559900	20305900	0.400	4.194	#
24)	Hexachlor...	5.706	6.502	2808427	4920619	0.835	1.656	#
25)	Oxychlordane	7.172	7.929	3244844	4960195	0.877	1.551	#
26)	2,4'-DDE	7.255	8.144	3346766	5199681	1.448	2.288	#
27)	trans-Non...	7.428	8.228	3656620	5201833	0.997	1.441	#
28)	2,4'-DDD	7.627	8.519	3445764	5382860	1.779	2.812	#
29)	2,4'-DDT	7.808	8.742	3537394	5519906	1.478	2.532	#
30)	cis-Nonac...	7.909	8.782	3574822	5561600	0.878	1.396	#
31)	Mirex	8.560	9.715	4178963	6927926	1.519	3.092	#
32)	Chlordane...	7.402f	8.174	3463024	5504700	8.647	12.670	#
33)	Chlordane...	7.485	8.284	3505892	5395030	7.209	14.840	#
34)	Chlordane...	8.002	8.924f	3850093	9227168	29.571	77.699	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.485	8.563	3505892	5347017	214.173	181.446	
37)	Toxaphene...	7.808f	8.873f	3537394	5665889	112.601	140.981	#
38)	Toxaphene...	8.102	8.924	3733282	9227168	49.899	142.623	#
39)	Toxaphene...	8.333	8.999	3975877	5894113	54.324	56.871	
40)	Toxaphene...	8.560	9.205f	4178963	5991350	77.099	104.508	#
41)	Toxaphene...	8.624	9.551	4128059	6375612	54.278	96.521	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

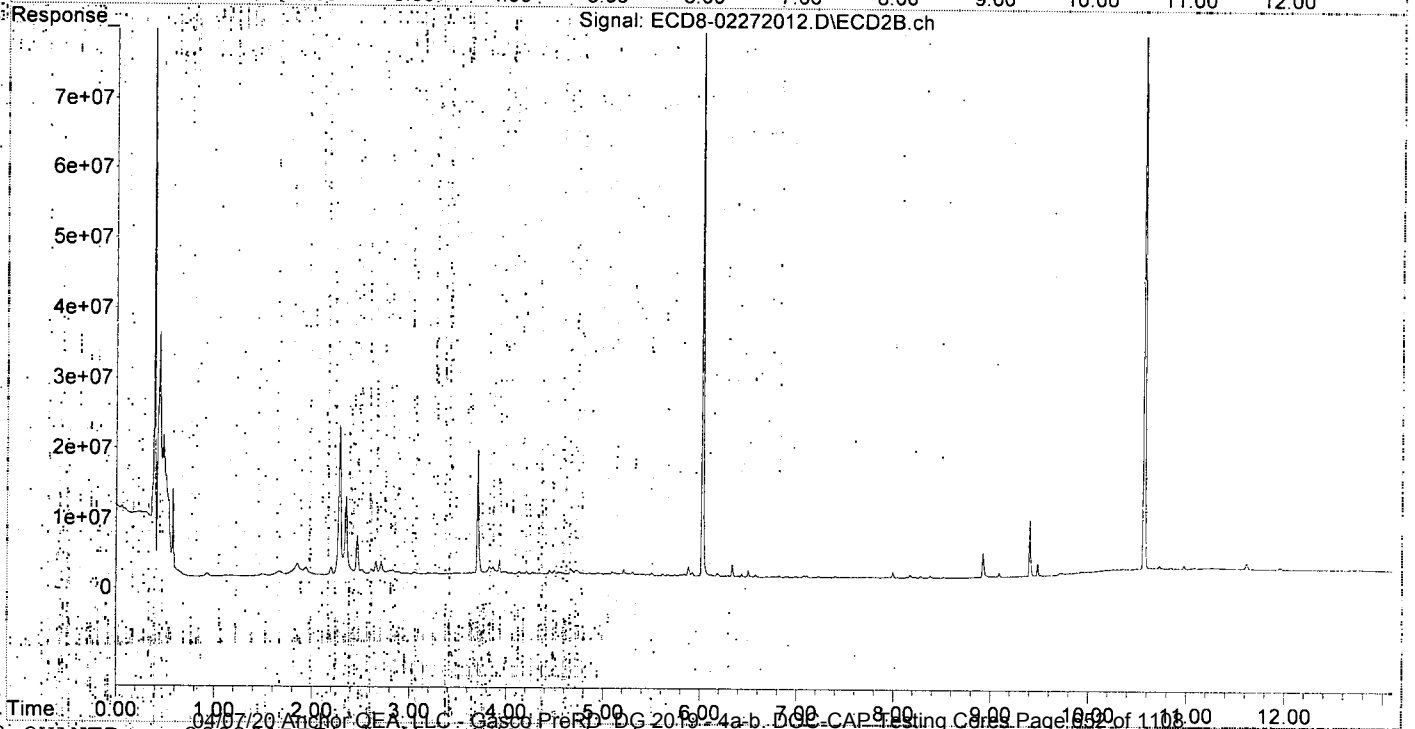
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B27037\
Data File : ECD8-02272012.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2020 15:09
Operator : MJB
Sample : 0020808-BLK1
Misc : 1x, 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 28 11:23:35 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.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\0B27037\
Data File : ECD8-02272013.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2020 15:26
Operator : MJB
Sample : 0020808-BS1
Misc : 1x, 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 28 11:23:39 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/28/20

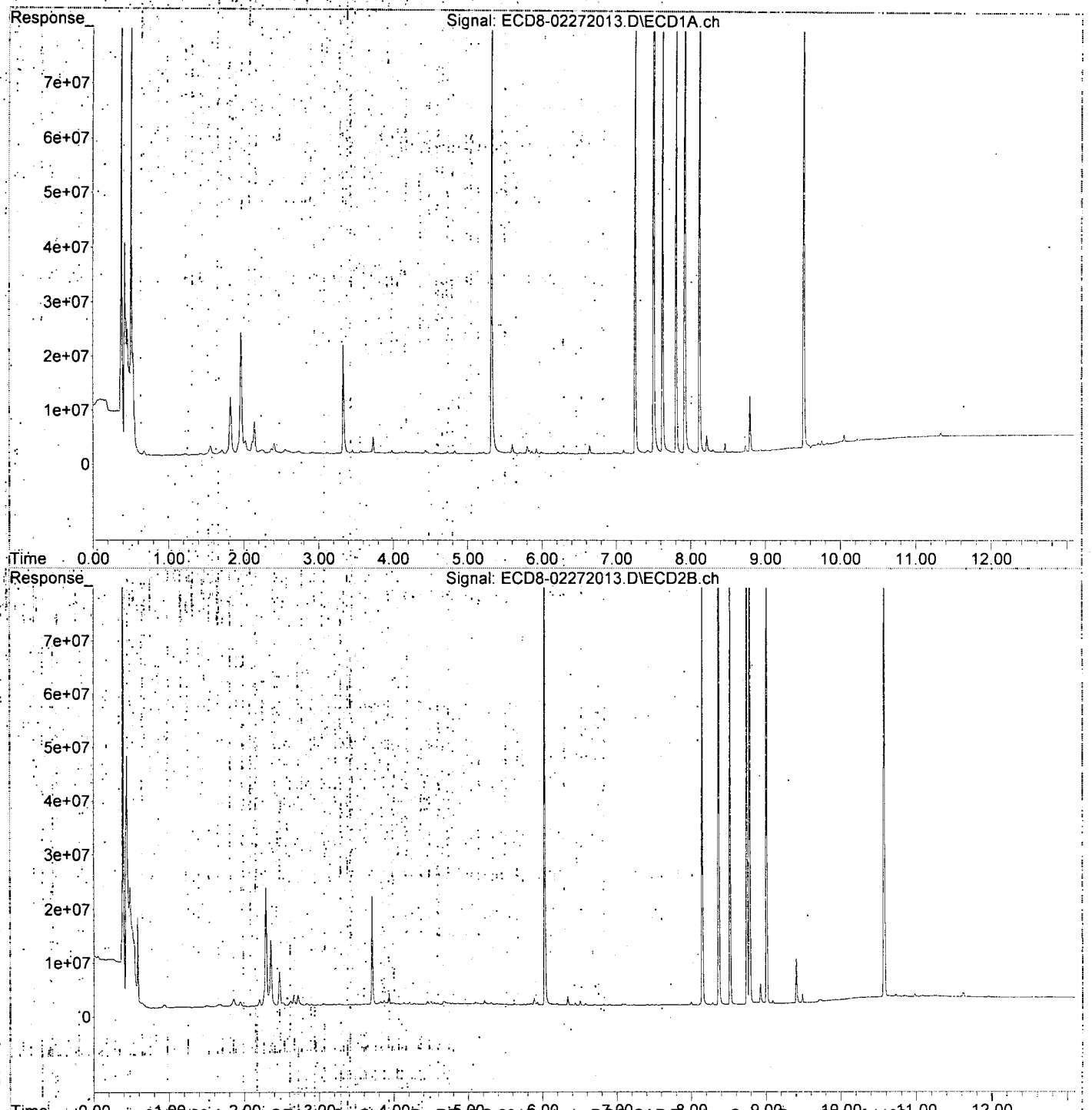
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.324	6.026	85851576	94147199	24.556	27.293	
22)	S DCBP (S)	9.515	10.572	118.3E6	93162268	45.041	43.625	
	Target Compounds							
2)	a-BHC	5.865	0.000	604434	0	0.128	N.D.	#
3)	g-BHC	6.172f	6.912f	92024	170572	0.022	0.086	#
4)	b-BHC	6.217	6.994	437797	175144	0.251	0.101	#
5)	Heptachlor	6.564	7.317	111734	39941	0.027	0.009	#
6)	d-BHC	6.373	7.268	54707	64627	0.122	0.116	
7)	Aldrin	6.791	7.592	118644	134326	0.029	0.048	#
8)	Heptachlo...	7.255	7.996	85909441	628001	23.264	0.175	#
9)	trans-Chl...	7.367f	8.146	225340	87003427	0.060	23.398	#
10)	cis-Chlor...	7.428	8.283f	553390	413490	0.151	0.117	
11)	Endosulfa...	7.505f	8.283f	141.5E6	413490	40.779	0.125	#
12)	4,4'-DDE	7.505	8.367	141.5E6	145.5E6	42.596	43.110	
13)	Dieldrin	0.000	8.518	0	84945340	N.D.	23.498	#
14)	Endrin	7.889	8.742	84634	96849371	0.026	32.049	#
15)	4,4'-DDD	7.923	8.781	120.5E6	122.5E6	47.332	46.657	
16)	Endosulfa...	7.998f	8.888	736908	357713	0.246	0.105	#
17)	4,4'-DDT	8.120	9.007	122.1E6	121.7E6	45.411	44.548	
18)	Endrin Al...	8.300	9.130	580782	119093	0.221	0.045	#
19)	Endosulfa...	8.611	9.308	24400	59103	0.009	BelowCal	#
20)	Methoxychlor	8.462	9.484	1703543	1753851	1.412	1.280	
21)	Endrin Ke...	8.795	9.716	10283158	608656	2.975	BelowCal	#
23)	Hexachlor...	3.115	3.705f	461940	20552166	0.119	4.245	#
24)	Hexachlor...	5.706	6.504	365100	971043	0.109	0.284	#
25)	Oxychlordane	7.161	7.961	112967	84920	BelowCal	0.027	
26)	2,4'-DDE	7.255	8.146	85909441	87003427	37.157	38.277	
27)	trans-Non...	7.428	8.225	553390	145852	0.151	0.040	#
28)	2,4'-DDD	7.625	8.518	83925089	84945340	43.332	44.375	
29)	2,4'-DDT	7.807	8.742	95691169	96849371	39.986	42.080	
30)	cis-Nonac...	7.889	8.781	84634	122.5E6	0.021	30.734	#
31)	Mirex	8.558	9.716	146448	608656	8199.068	0.042	#
32)	Chlordane...	7.367	8.225f	225340	145852	0.563	0.336	#
33)	Chlordane...	7.505f	8.283	141.5E6	413490	290.855	1.137	#
34)	Chlordane...	7.998	8.923f	736908	3848940	5.660	32.411	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.505	8.518f	141.5E6	84945340	8641.175	2882.536	#
37)	Toxaphene...	7.774	8.888	203347	357713	6.473	8.901	#
38)	Toxaphene...	8.120f	8.923	122.1E6	3848940	1763.143	59.492	#
39)	Toxaphene...	8.354f	9.007	95730	121.7E6	BelowCal	1160.981	
40)	Toxaphene...	8.558	9.174	146448	24646	2.702	0.430	#
41)	Toxaphene...	8.611	9.569	24400	121660	0.321	1.842	#
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\0B27037\
Data File : ECD8-02272013.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2020 15:26
Operator : MJB
Sample : 0020808-BS1
Misc : 1x, 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 28 11:23:39 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.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\0B27037\
Data File : ECD8-02272018.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2020 16:50
Operator : MJB
Sample : 0B27037-CCV5
Misc : A19K134, AB 100 ppb
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 28 11:23:59 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/28/20

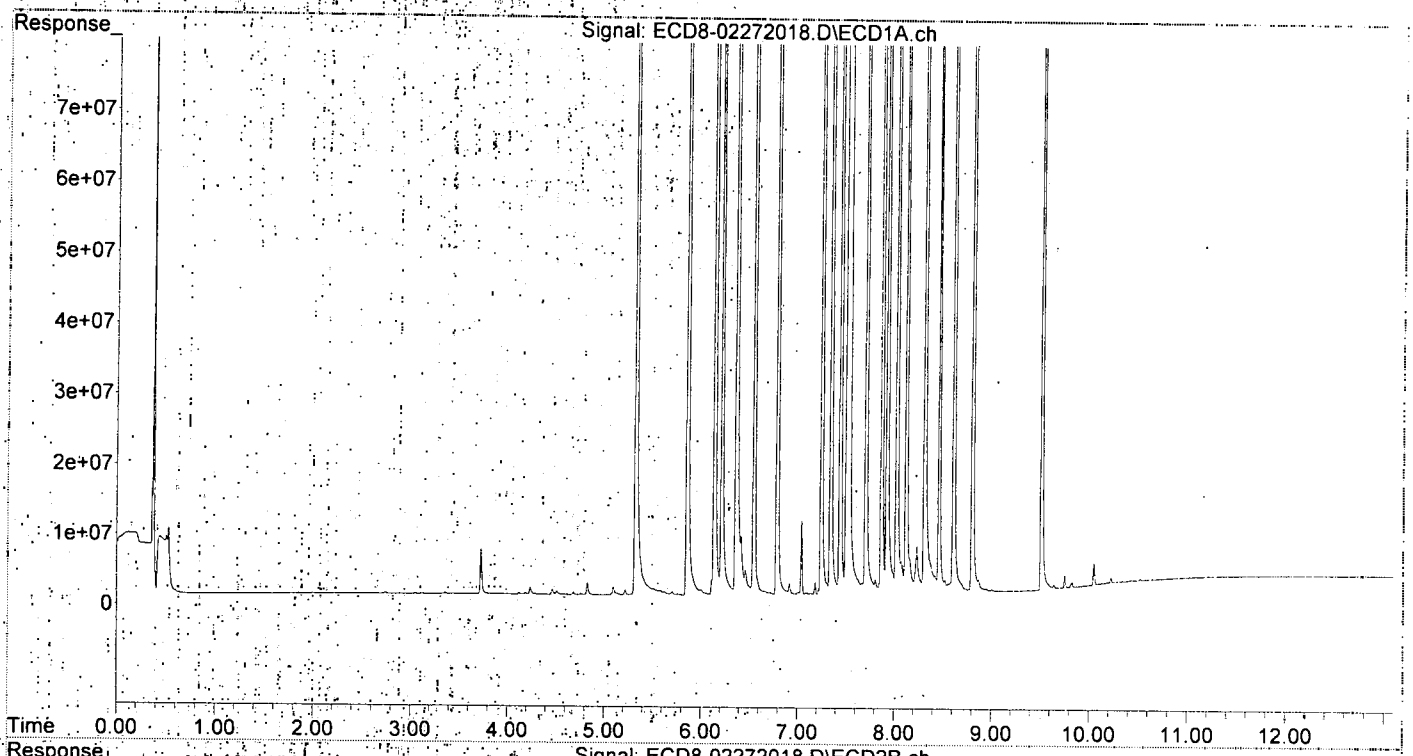
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.324	6.026	319.8E6	375.9E6	91.475	108.969	
22)	S DCBP (S)	9.516	10.573	283.0E6	246.6E6	105.306	108.977	
	Target Compounds							
2)	a-BHC	5.858	6.626	501.9E6	557.1E6	106.233	108.025	
3)	g-BHC	6.140	6.943	450.0E6	490.0E6	108.090	107.430	
4)	b-BHC	6.215	7.006	173.1E6	188.8E6	99.416	108.750	
5)	Heptachlor	6.550	7.316	420.8E6	448.1E6	102.383	106.411	
6)	d-BHC	6.364	7.260	384.8E6	454.4E6	99.302	106.168	
7)	Aldrin	6.790	7.581	437.5E6	452.4E6	108.279	104.670	
8)	Heptachlo...	7.247	8.017	402.8E6	424.5E6	109.072	118.267	
9)	trans-Chl...	7.343	8.156	408.8E6	408.1E6	108.705	109.739	
10)	cis-Chlor...	7.439	8.263	393.9E6	404.0E6	107.257	114.694	
11)	Endosulfa...	7.535	8.314	367.5E6	373.2E6	105.952	112.917	
12)	4,4'-DDE	7.506	8.367	377.2E6	389.2E6	113.591	103.473	
13)	Dieldrin	7.706	8.514	411.1E6	442.5E6	107.804	109.112	
14)	Endrin	7.869	8.742	344.5E6	344.0E6	105.566	102.635	
15)	4,4'-DDD	7.923	8.782	297.2E6	315.7E6	116.773	105.349	
16)	Endosulfa...	8.024	8.888	305.1E6	333.1E6	101.984	105.920	
17)	4,4'-DDT	8.122	9.009	309.3E6	330.5E6	115.063	105.947	
18)	Endrin Al...	8.311	9.124	259.9E6	299.0E6	98.723	113.106	
19)	Endosulfa...	8.611	9.315	288.8E6	316.1E6	100.901	105.953	
20)	Methoxychlor	8.462	9.484	139.5E6	152.7E6	115.577	111.763	
21)	Endrin Ke...	8.805	9.716	353.5E6	379.3E6	102.281	111.461	
23)	Hexachlor...	3.120	3.730	57963	46893	0.015	0.010	#
24)	Hexachlor...	5.706	6.507	474271	68581	0.141	BelowCal	#
25)	Oxychlordane	7.185	7.932	1733679	169373	0.385	0.053	#
26)	2,4'-DDE	7.247	8.156	402.8E6	408.1E6	174.206	179.521	
27)	trans-Non...	7.439	8.217	393.9E6	1082921	107.435	0.300	#
28)	2,4'-DDD	0.000	8.514	0	442.5E6	N.D.	231.138	#
29)	2,4'-DDT	7.809	8.742	1954804	344.0E6	0.817	129.569	#
30)	cis-Nonac...	7.923f	8.782	297.2E6	315.7E6	73.028	79.211	
31)	Mirex	8.563	9.716	1160277	379.3E6	0.273	167.923	#
32)	Chlordane...	7.343f	8.217f	408.8E6	1082921	1020.751	2.492	#
33)	Chlordane...	7.506f	8.314f	377.2E6	373.2E6	775.635	1026.499	#
34)	Chlordane...	8.024	8.967	305.1E6	1474535	2343.289	12.417	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.506f	8.514f	377.2E6	442.5E6	23043.773	15014.540	#
37)	Toxaphene...	7.809f	8.888	1954804	333.1E6	62.224	8289.415	#
38)	Toxaphene...	8.075	8.927	4529802	4092718	61.228	63.260	
39)	Toxaphene...	8.311	9.009	259.9E6	330.5E6	3845.928	2833.932	#
40)	Toxaphene...	8.563	9.216f	1160277	7776570	21.406	135.648	#
41)	Toxaphene...	8.611	9.568	288.8E6	1207812	3797.247	18.285	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

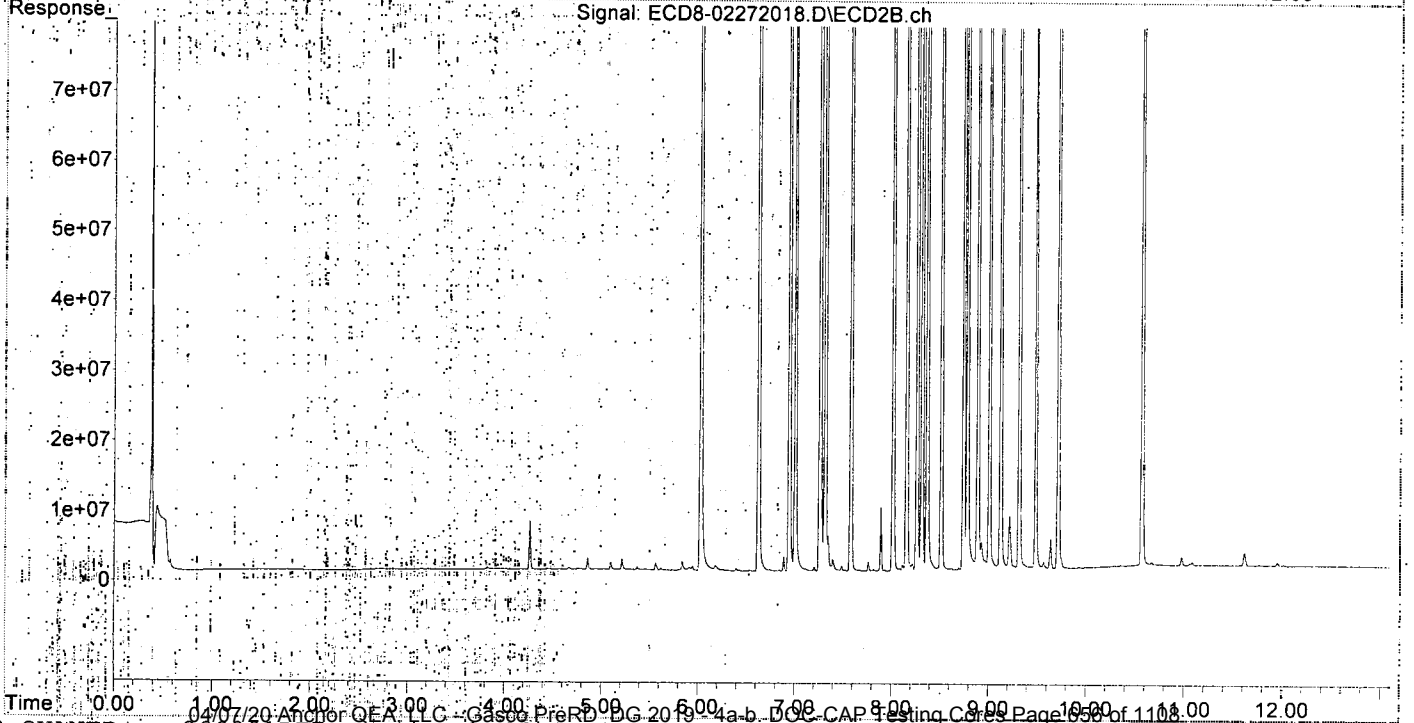
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B27037\
Data File : ECD8-02272018.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2020 16:50
Operator : MJB
Sample : 0B27037-CCV5
Misc : A19K134, AB 100 ppb
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 28 11:23:59 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.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\0B27037\
Data File : ECD8-02272019.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2020 17:07
Operator : MJB
Sample : 0B27037-CCV6
Misc : A19J409,9-42 50 ppb
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 28 11:24:03 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/28/20

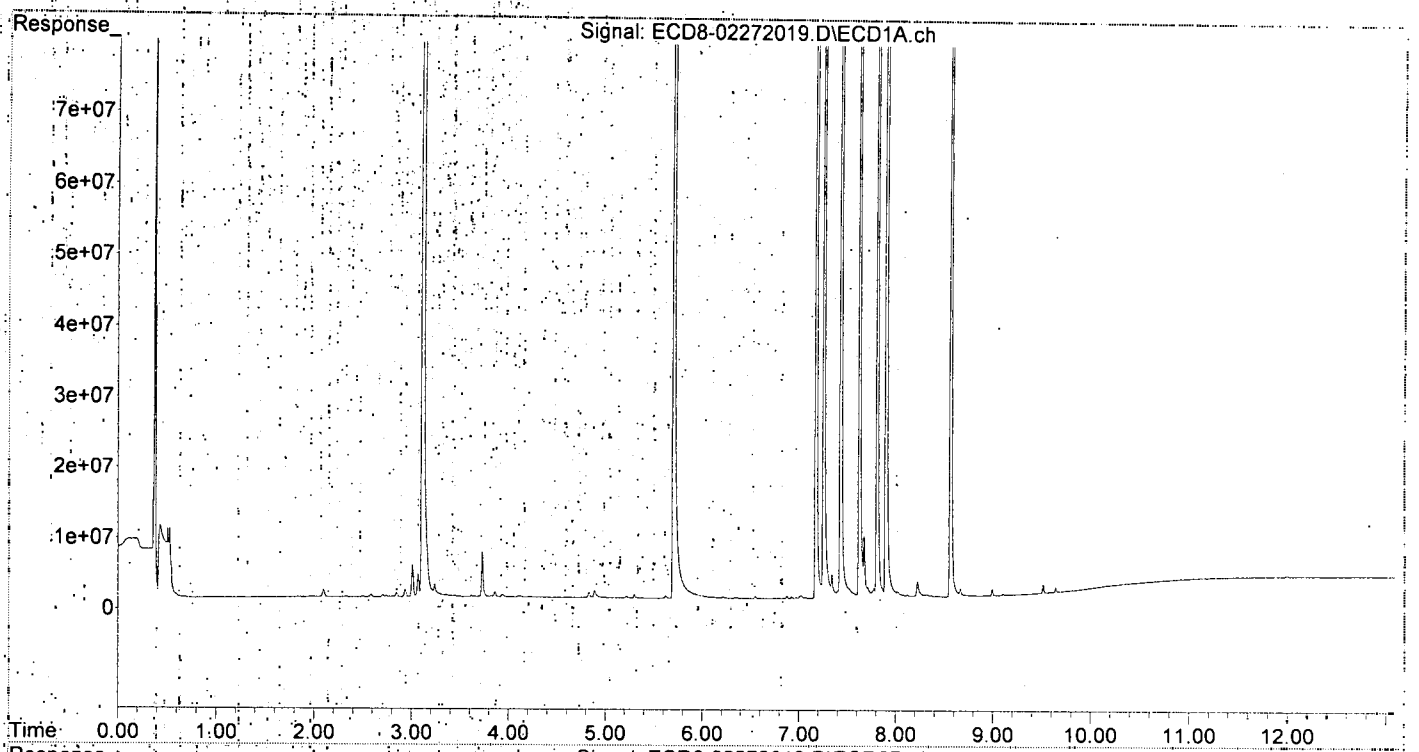
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.298f	6.029	581956	159225	0.166	0.046	#
22)	S DCBP (S)	9.516	10.573	1329672	1316021	0.186	0.144	
	Target Compounds							
2)	a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)	g-BHC	6.117f	6.942	235470	28786	0.057	0.049	
4)	b-BHC	6.215	7.011	224235	67441	0.129	0.039	#
5)	Heptachlor	6.551	7.316	370223	354636	0.090	0.084	
6)	d-BHC	6.369	7.265	86353	95806	0.132	0.125	
7)	Aldrin	6.790	7.593	22961	85857	0.006	0.035	#
8)	Heptachlo...	7.256	8.014	230.4E6	877809	62.387	0.245	#
9)	trans-Chl...	7.342	8.146	3406596	242.1E6	0.906	65.114	#
10)	cis-Chlor...	7.432	8.259	356.7E6	1341095	97.135	0.381	#
11)	Endosulfa...	0.000	8.321	0	447026	N.D.	0.135	#
12)	4,4'-DDE	0.000	8.350	0	259607	N.D.	0.172	#
13)	Dieldrin	7.710	8.518	1526671	209.1E6	0.400	55.313	#
14)	Endrin	7.900f	8.742	403.5E6	247.4E6	123.625	76.578	#
15)	4,4'-DDD	7.900f	8.783	403.5E6	404.3E6	158.534	128.620	
16)	Endosulfa...	8.024	8.888	853436	367983	0.285	0.109	#
17)	4,4'-DDT	8.123	9.008	320578	277458	0.119	0.088	#
18)	Endrin Al...	8.313	9.123	351337	185882	0.133	0.070	#
19)	Endosulfa...	0.000	9.316	0	82744	N.D.	BelowCal	
20)	Methoxychlor	8.464	9.488	37164	33129	0.031	BelowCal	#
21)	Endrin Ke...	8.804	9.708	136462	234.6E6	0.039	73.175	#
23)	Hexachlor...	3.115	3.732	382.6E6	486.0E6	98.136	100.376	
24)	Hexachlor...	5.703	6.491	307.6E6	347.0E6	91.501	102.153	
25)	Oxychlordane	7.176	7.946	314.8E6	316.2E6	100.829	98.883	
26)	2,4'-DDE	7.256	8.146	230.4E6	242.1E6	99.643	106.519	
27)	trans-Non...	7.432	8.219	356.7E6	377.3E6	97.296	104.533	
28)	2,4'-DDD	7.625	8.518	196.9E6	209.1E6	101.681	109.220	
29)	2,4'-DDT	7.808	8.742	230.6E6	247.4E6	96.362	97.891	
30)	cis-Nonac...	7.900	8.783	403.5E6	404.3E6	99.145	101.448	
31)	Mirex	8.566	9.708	238.8E6	234.6E6	99.592	107.008	
32)	Chlordane...	7.342f	8.219f	3406596	377.3E6	8.506	868.433	#
33)	Chlordane...	0.000	8.321f	0	447026	N.D.	1.230	#
34)	Chlordane...	8.024	8.929f	853436	2749767	6.555	23.155	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	0.000	8.518f	0	209.1E6	N.D.	7094.849	#
37)	Toxaphene...	7.777	8.888	1379835	367983	43.922	9.156	#
38)	Toxaphene...	8.123f	8.929	320578	2749767	1.394	42.503	#
39)	Toxaphene...	8.327	9.008	335466	277458	BelowCal	BelowCal	
40)	Toxaphene...	8.566	9.177	238.8E6	35872	4405.333	0.626	#
41)	Toxaphene...	0.000	9.564	0	38977	N.D.	0.590	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

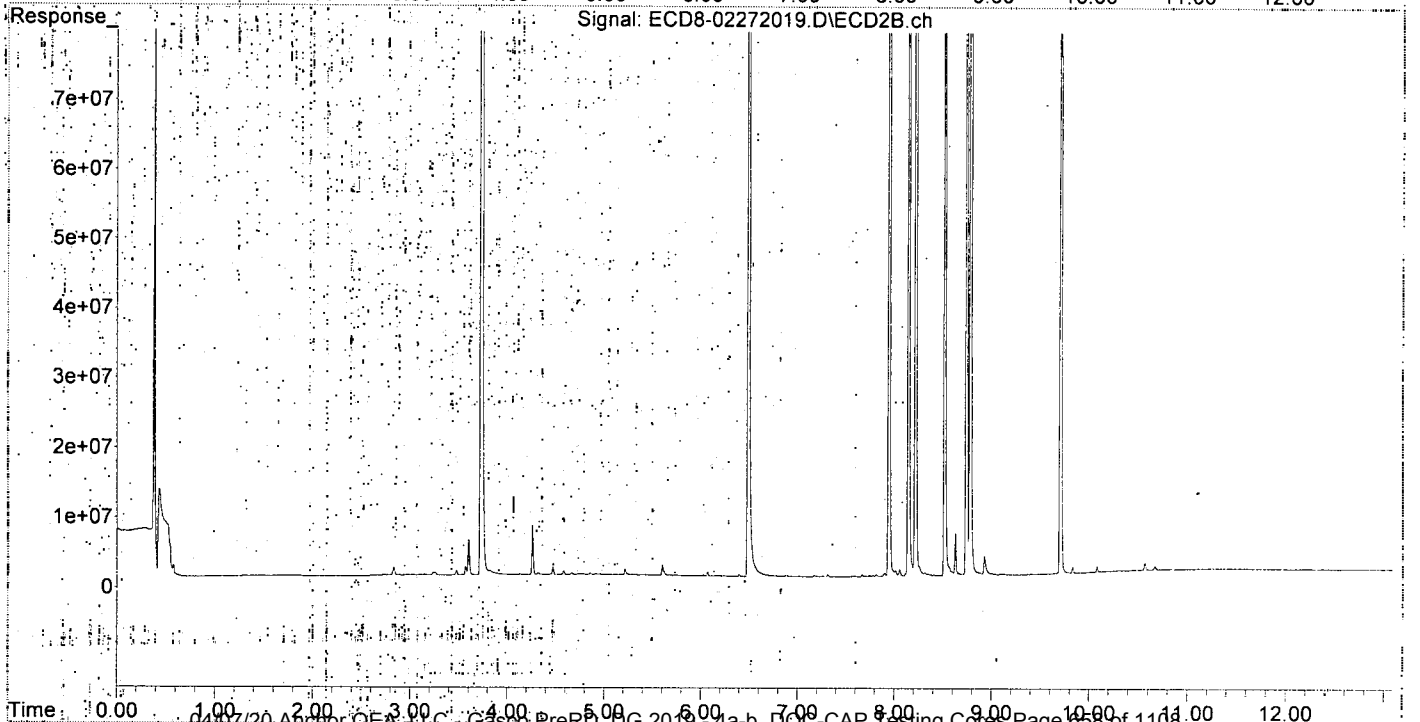
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B27037\
Data File : ECD8-02272019.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2020 17:07
Operator : MJB
Sample : 0B27037-CCV6
Misc : A19J409, 9-42 50 ppb
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 28 11:24:03 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.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\0B27037\
Data File : ECD8-02272020.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2020 17:24
Operator : MJB
Sample : 0B27037-CCB3
Misc : A20A395
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 28 11:24:07 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/28/20

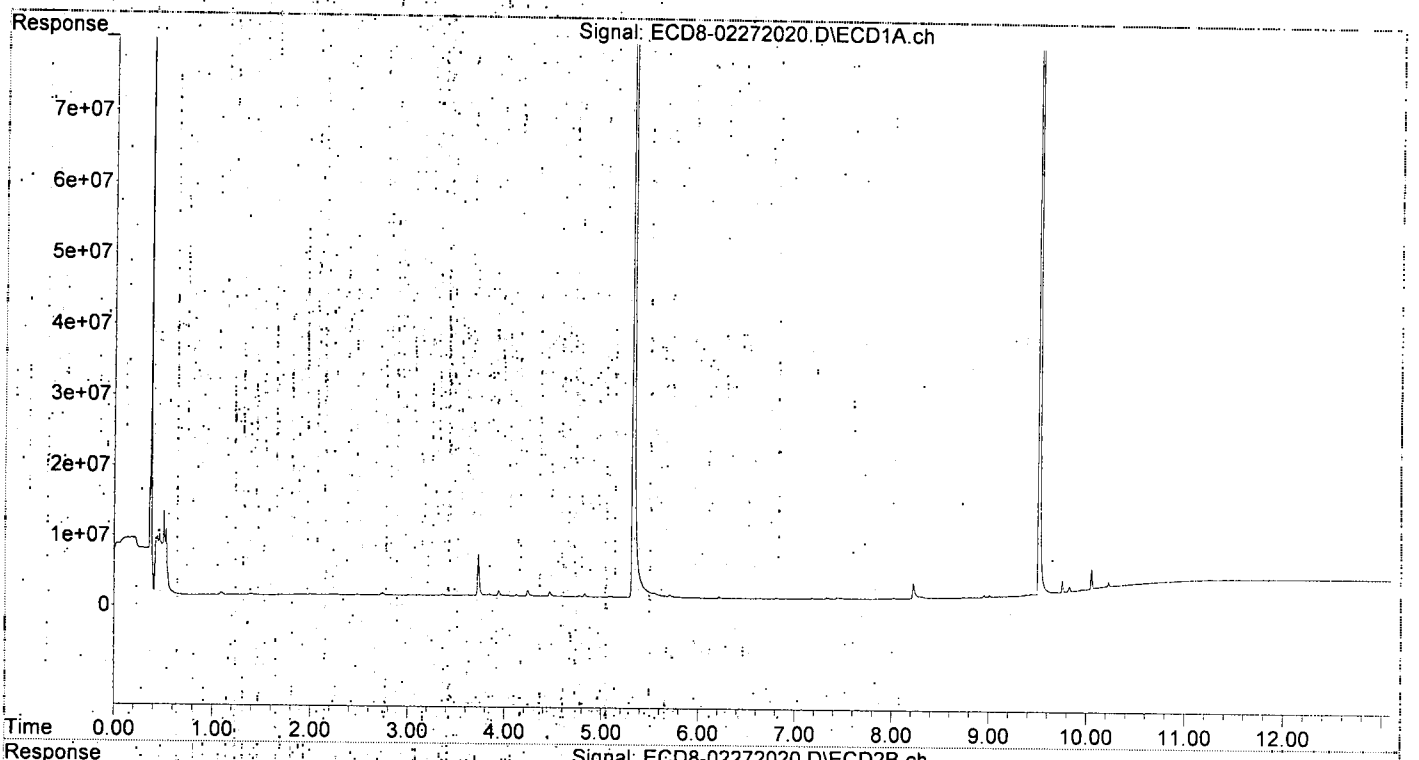
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.324	6.025	287.7E6	336.5E6	82.282	97.553	
22)	S DCBP (S)	9.516	10.572	253.9E6	222.6E6	94.894	99.258	
	Target Compounds							
2)	a-BHC	5.873	0.000	65358	0	0.014	N.D.	#
3)	g-BHC	0.000	6.942	0	16073	N.D.	0.046	#
4)	b-BHC	6.218	7.005	204255	12244	0.117	0.007	#
5)	Heptachlor	6.547	7.327	22136	75523	0.005	0.018	#
6)	d-BHC	6.375	7.267	23303	36675	0.113	0.108	
7)	Aldrin	6.808	7.592	85676	314554	0.021	0.096	#
8)	Heptachlo...	7.260	8.026	27230	12918	0.007	0.004	#
9)	trans-Chl...	7.343	8.155	118594	75929	0.032	0.020	#
10)	cis-Chlor...	7.441	8.260	218477	77354	0.059	0.022	#
11)	Endosulfa...	7.533	8.311	44780	33999	0.013	0.010	
12)	4,4'-DDE	7.506	8.369	70327	23774	0.021	0.096	#
13)	Dieldrin	7.705	8.518	23248	59148	0.006	0.049	#
14)	Endrin	7.881	8.740	15418	60589	0.005	0.014	#
15)	4,4'-DDD	7.939	8.782	17885	53642	0.007	0.066	#
16)	Endosulfa...	8.022	8.884	218825	38370	0.073	BelowCal	#
17)	4,4'-DDT	8.125	9.009	14389	170085	0.005	0.044	#
18)	Endrin Al...	8.309	9.124	315685	133085	0.120	0.050	#
19)	Endosulfa...	8.611	9.316	56635	72101	0.020	BelowCal	#
20)	Methoxychlor	8.466	9.477	74493	52311	0.062	BelowCal	#
21)	Endrin Ke...	8.804	9.711	54911	89266	0.016	BelowCal	#
23)	Hexachlor...	3.120	3.746	61692	94829	0.016	0.020	
24)	Hexachlor...	5.707	6.507	458819	87180	0.136	BelowCal	#
25)	Oxychlordane	7.179	7.945	200222	28370	BelowCal	0.009	
26)	2,4'-DDE	7.260	8.155	27230	75929	0.012	0.033	#
27)	trans-Non...	7.441	8.188f	218477	293052	0.060	0.081	#
28)	2,4'-DDD	7.630	8.518	36065	59148	0.019	0.031	#
29)	2,4'-DDT	7.808	8.740	7565	60589	0.003	BelowCal	#
30)	cis-Nonac...	7.902	8.782	24635	53642	0.006	0.013	#
31)	Mirex	8.571	9.711	66662	89266	8199.101	BelowCal	#
32)	Chlordane...	7.343f	8.188	118594	293052	0.296	0.674	#
33)	Chlordane...	7.479	8.295	102607	25612	0.211	0.070	#
34)	Chlordane...	8.022	8.929f	218825	2612462	1.681	21.999	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.479	8.565	102607	16814	6.268	0.571	#
37)	Toxaphene...	7.789	8.895	13859	42675	0.441	1.062	#
38)	Toxaphene...	8.075	8.929	6498	2612462	96753.844	40.380	#
39)	Toxaphene...	8.309f	9.003	315685	166011	BelowCal	BelowCal	
40)	Toxaphene...	8.571	9.167	66662	43636	1.230	0.761	#
41)	Toxaphene...	8.611	9.565	56635	59597	0.745	0.902	
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

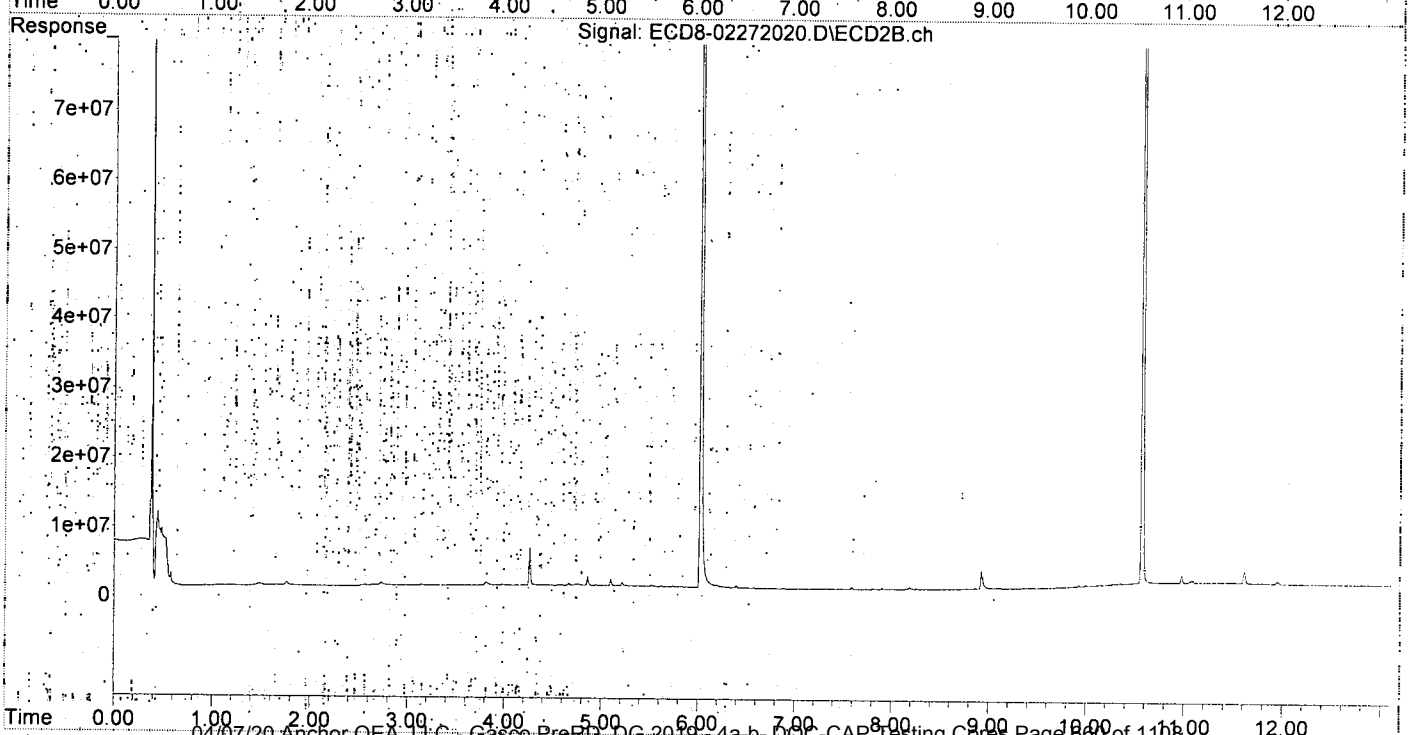
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B27037\
Data File : ECD8-02272020.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2020 17:24
Operator : MJB
Sample : 0B27037-CCB3
Misc : A20A395
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 28 11:24:07 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.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\0B27037\
Data File : ECD8-02272035.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2020 22:03
Operator : MJB
Sample : 0B27037-CCV7
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 28 11:24:39 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/28/20

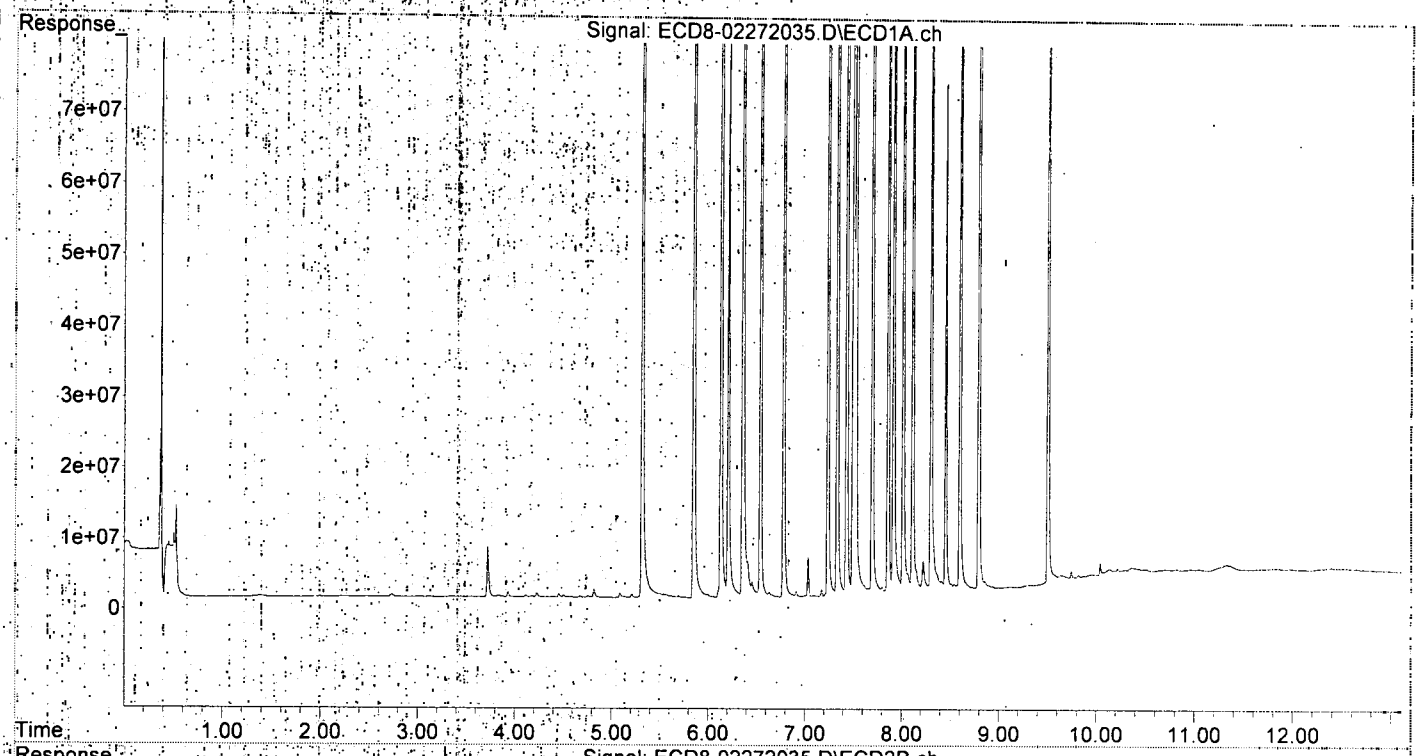
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.318	6.021	171.0E6	203.6E6	48.914	59.035	
22)	S DCBP (S)	9.508	10.565	147.1E6	155.1E6	55.820	70.980 #	Q-41
	Target Compounds							
2)	a-BHC	5.851	6.621	258.6E6	297.3E6	54.743	62.247	
3)	g-BHC	6.133	6.937	233.0E6	257.3E6	55.960	60.267	
4)	b-BHC	6.209	7.001	86338929	107.1E6	49.573	61.674	
5)	Heptachlor	6.543	7.310	230.2E6	244.8E6	56.001	58.137	
6)	d-BHC	6.358	7.255	191.9E6	238.4E6	52.280	60.487	
7)	Aldrin	6.782	7.576	226.5E6	242.5E6	56.053	59.560	
8)	Heptachlo...	7.240	8.011	212.5E6	224.1E6	57.534	62.424	
9)	trans-Chl...	7.336	8.151	211.2E6	229.9E6	56.154	61.825	
10)	cis-Chlor...	7.433	8.258	203.0E6	217.2E6	55.273	61.651	
11)	Endosulfa...	7.527	8.309	193.5E6	211.7E6	55.785	64.053	
12)	4,4'-DDE	7.500	8.362	188.6E6	220.2E6	56.800	62.874	Q-41
13)	Dieldrin	7.698	8.509	218.9E6	235.0E6	57.415	61.639	
14)	Endrin	7.861	8.735	177.1E6	178.5E6	54.277	56.890	
15)	4,4'-DDD	7.917	8.776	153.0E6	182.6E6	60.123	66.394	Q-41
16)	Endosulfa...	8.017	8.883	160.2E6	181.1E6	53.544	61.741	
17)	4,4'-DDT	8.115	9.002	156.6E6	178.9E6	58.264	62.841	Q-41
18)	Endrin Al...	8.305	9.118	137.6E6	166.7E6	52.266	63.037	
19)	Endosulfa...	8.604	9.308	152.0E6	175.0E6	53.093	62.767	
20)	Methoxychlor	8.457	9.479	71870742	92425363	59.563	73.199	
21)	Endrin Ke...	8.797	9.710	194.4E6	206.8E6	56.236	65.298	
23)	Hexachlor...	3.116	3.747	70311	4821408	0.018	0.996 #	
24)	Hexachlor...	5.697	6.500	288241	8984009	0.086	3.062 #	
25)	Oxychlordane	7.177	7.938	998669	10926660	0.145	3.417 #	
26)	2,4'-DDE	7.240	8.151	212.5E6	229.9E6	91.891	101.139	
27)	trans-Non...	7.433	8.212	203.0E6	11929657	55.365	3.305 #	
28)	2,4'-DDD	7.658f	8.509	824711	235.0E6	0.426	122.756 #	
29)	2,4'-DDT	7.801	8.735	1039231	178.5E6	0.434	73.520 #	
30)	cis-Nonac...	7.917	8.776	153.0E6	182.6E6	37.600	45.819	
31)	Mirex	8.546f	9.710	964792	206.8E6	0.192	94.857 #	
32)	Chlordane...	0.000	8.212f	0	11929657	N.D.	27.458 #	
33)	Chlordane...	7.500f	8.309	188.6E6	211.7E6	387.847	582.285 #	
34)	Chlordane...	8.017	8.925f	160.2E6	15216446	1230.285	128.133 #	
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.500	8.569	188.6E6	12249741	11522.760	415.683 #	
37)	Toxaphene...	7.801f	8.883	1039231	181.1E6	33.080	4506.313 #	
38)	Toxaphene...	8.068f	8.925	2785620	15216446	36.425	235.198 #	
39)	Toxaphene...	8.305f	9.002	137.6E6	178.9E6	2069.815	1652.837	
40)	Toxaphene...	8.546	9.209f	964792	18267000	17.800	318.634 #	
41)	Toxaphene...	8.604	9.563	152.0E6	14425947	1998.087	218.397 #	
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

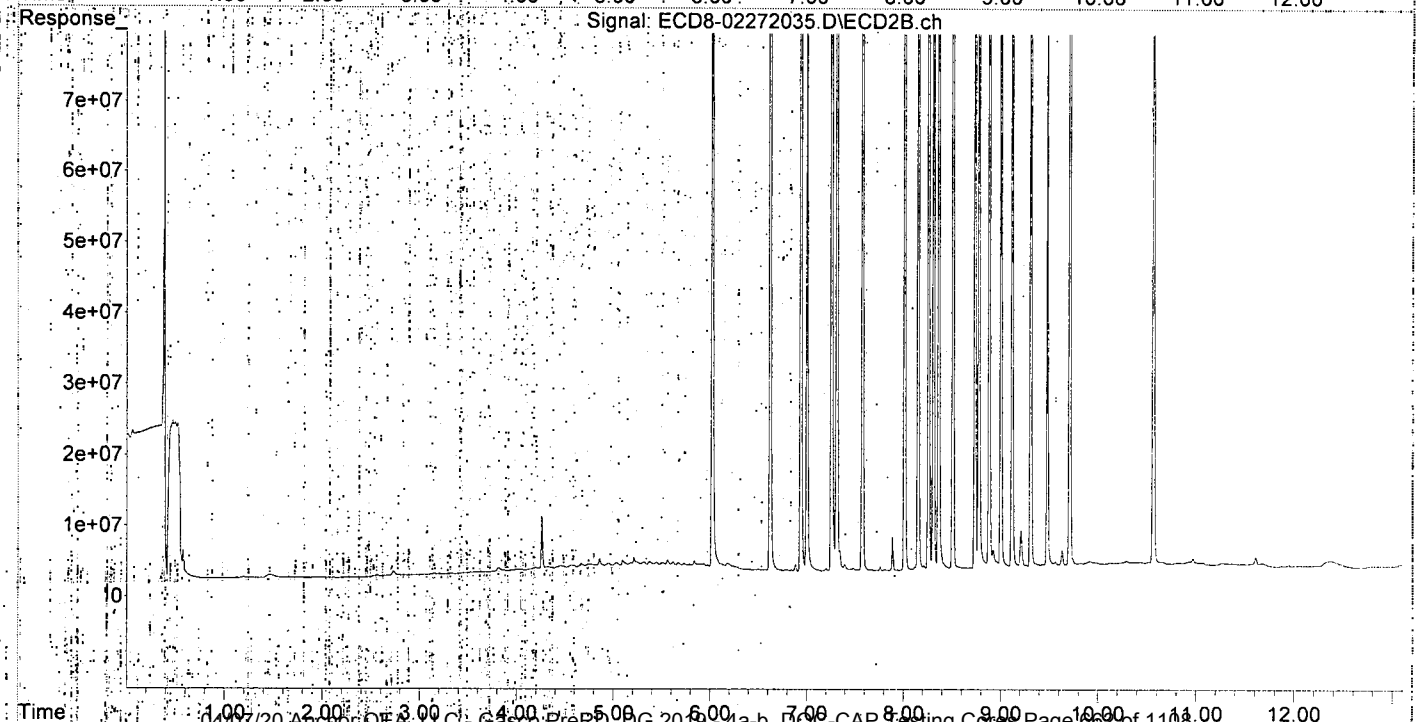
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B27037\
Data File : ECD8-02272035.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2020 22:03
Operator : MJB
Sample : 0B27037-CCV7
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 28 11:24:39 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.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\0B27037\
Data File : ECD8-02272036.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2020 22:20
Operator : MJB
Sample : 0B27037-CCV8
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 28 11:24:43 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/28/20

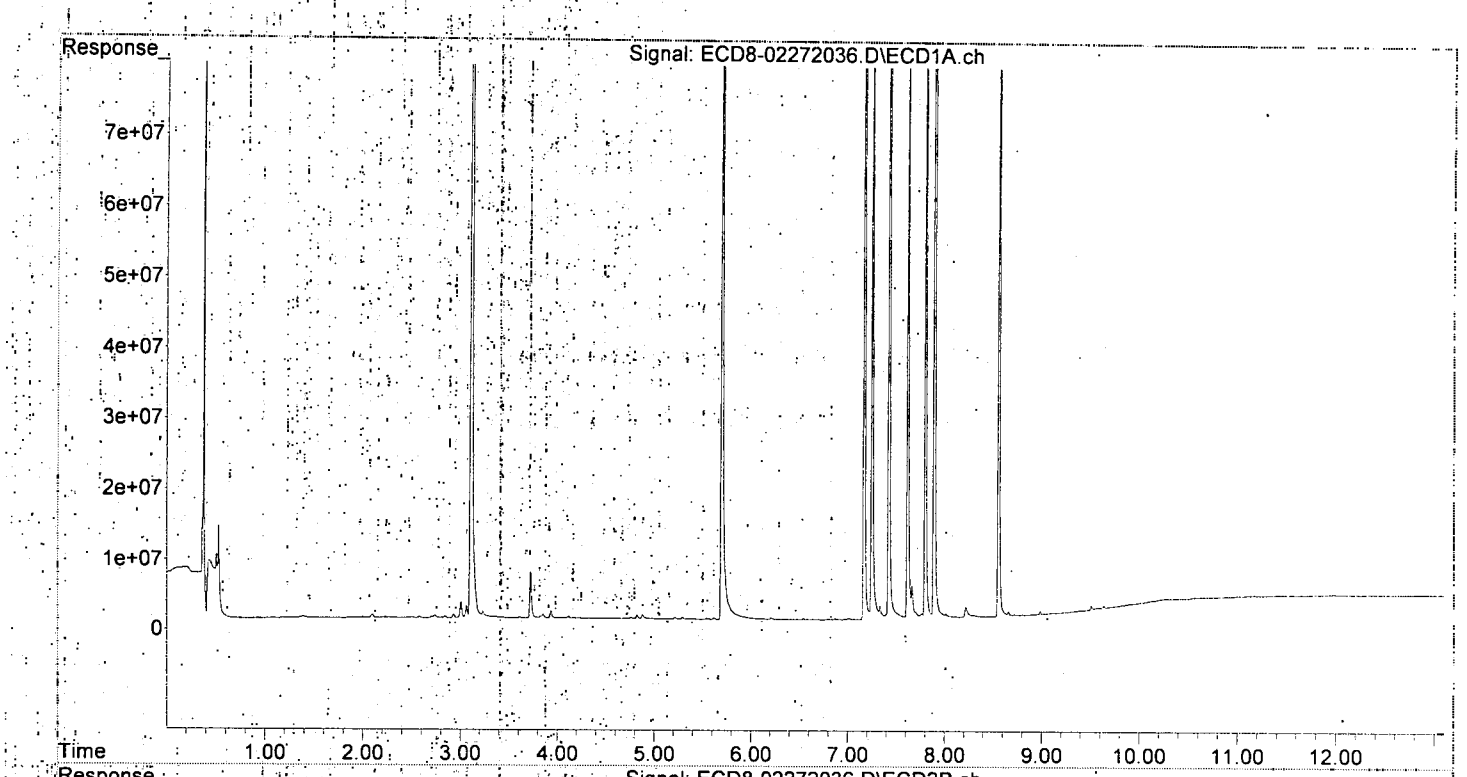
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.294f	6.025	303855	981922	0.087	0.285	#
22)	S DCBP (S)	9.510	10.567	962480	2102673	0.042	0.533	#
	Target Compounds							
2)	a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)	g-BHC	6.112f	6.932	118239	74551	0.028	0.061	#
4)	b-BHC	6.211	7.006	272037	155235	0.156	0.089	#
5)	Heptachlor	6.545	7.315	197988	212429	0.048	0.050	
6)	d-BHC	6.364	7.261	42852	127918	0.119	0.134	
7)	Aldrin	6.800	7.587	71762	446767	0.018	0.131	#
8)	Heptachlo...	7.252	8.009	107.5E6	472300	29.116	0.132	#
9)	trans-Chl...	7.336	8.141	1936440	112.8E6	0.515	30.341	#
10)	cis-Chlor...	7.427	0.000	175.0E6	0	47.654	N.D.	#
11)	Endosulfa...	0.000	8.317	0	276860	N.D.	0.084	#
12)	4,4'-DDE	0.000	8.360	0	218799	N.D.	0.158	#
13)	Dieldrin	7.668f	8.513	4736321	95789537	1.242	26.386	#
14)	Endrin	7.895f	8.737	189.7E6	113.7E6	58.113	37.330	#
15)	4,4'-DDD	7.895f	8.777	189.7E6	198.0E6	74.523	71.212	
16)	Endosulfa...	8.018	8.885	559710	517975	0.187	0.166	
17)	4,4'-DDT	8.118	9.003	152867	519830	0.057	0.186	#
18)	Endrin Al...	8.306	9.117	275255	496921	0.105	0.188	#
19)	Endosulfa...	0.000	9.310	0	417520	N.D.	0.078	#
20)	Methoxychlor	8.463	9.471	12811	412482	0.011	0.015	#
21)	Endrin Ke...	8.800	9.702	83056	113.7E6	0.024	37.553	#
23)	Hexachlor...	3.111	3.728	176.7E6	228.5E6	45.322	47.200	
24)	Hexachlor...	5.698	6.486	145.5E6	188.4E6	43.283	59.315	#
25)	Oxychlordane	7.170	7.940	153.4E6	158.7E6	49.417	49.632	
26)	2,4'-DDE	7.252	8.141	107.5E6	112.8E6	46.504	49.634	
27)	trans-Non...	7.427	8.214	175.0E6	172.8E6	47.733	47.884	
28)	2,4'-DDD	7.621	8.513	92262749	95789537	47.637	50.039	
29)	2,4'-DDT	7.803	8.737	111.9E6	113.7E6	46.762	48.838	
30)	cis-Nonac...	7.895	8.777	189.7E6	198.0E6	46.606	49.689	
31)	Mirex	8.559	9.702	114.2E6	113.7E6	47.213	53.212	
32)	Chlordane...	0.000	8.214f	0	172.8E6	N.D.	397.805	#
33)	Chlordane...	0.000	8.309	0	265828	N.D.	0.731	#
34)	Chlordane...	8.018	8.926f	559710	2099581	4.299	17.680	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	0.000	8.513f	0	95789537	N.D.	3250.523	#
37)	Toxaphene...	7.771	8.885	737673	517975	23.481	12.888	#
38)	Toxaphene...	8.118f	8.926	152867	2099581	96751.765	32.453	#
39)	Toxaphene...	8.306f	9.003	275255	519830	BelowCal	1.221	
40)	Toxaphene...	8.559	9.168	114.2E6	357273	2106.727	6.232	#
41)	Toxaphene...	8.661f	9.557	623920	538595	8.204	8.154	
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

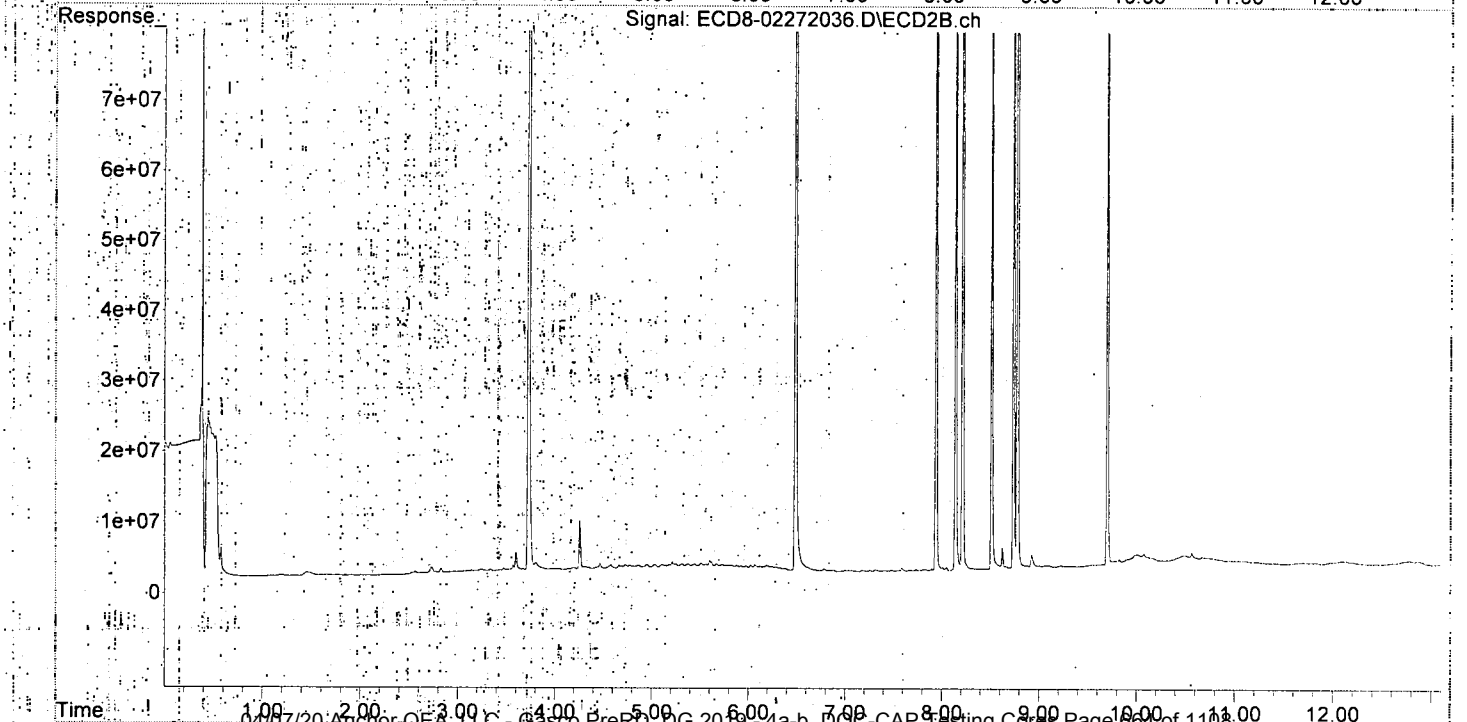
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B27037\
Data File : ECD8-02272036.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2020 22:20
Operator : MJB
Sample : 0B27037-CCV8
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 28 11:24:43 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.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\0B27037\
Data File : ECD8-02272037.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2020 22:37
Operator : MJB
Sample : 0B27037-CCB4
Misc : A20A395
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 28 11:24:47 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/28/20

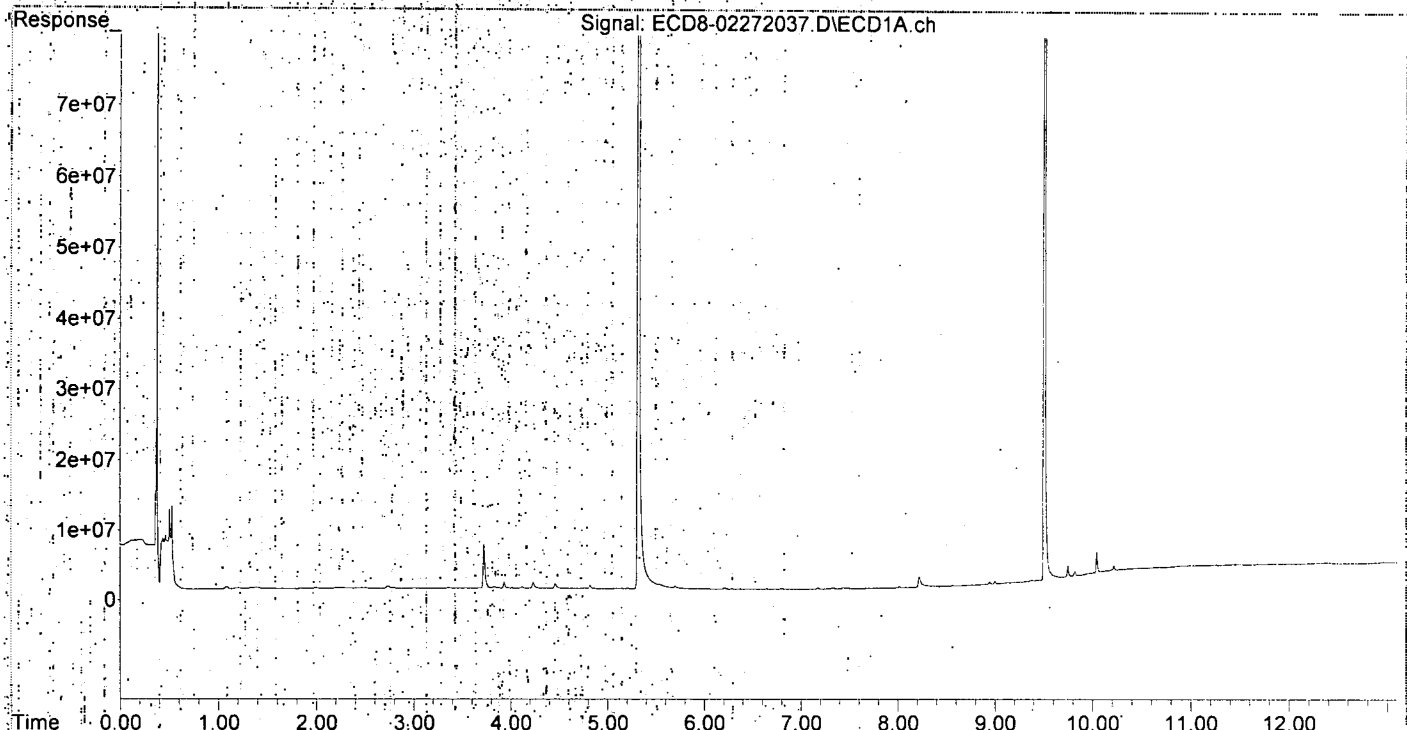
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.318	6.021	302.7E6	375.2E6	86.569	108.781	#
22)	S DCBP (S)	9.509	10.565	270.8E6	256.0E6	100.946	112.730	
	Target Compounds							
2)	a-BHC	5.869	6.623	82827	309132	0.018	0.148	#
3)	g-BHC	0.000	6.944	0	31066	N.D.	0.050	#
4)	b-BHC	6.213	7.003	225760	89272	0.130	0.051	#
5)	Heptachlor	6.546	7.317	17762	242698	0.004	0.058	#
6)	d-BHC	6.370	7.261	9869	107347	0.109	0.128	
7)	Aldrin	6.796	7.587	85559	732889	0.021	0.208	#
8)	Heptachlo...	7.251	8.013	9701	197330	0.003	0.055	#
9)	trans-Chl...	7.323	8.154	240294	184345	0.064	0.050	
10)	cis-Chlor...	7.435	8.279	173340	148847	0.047	0.042	
11)	Endosulfa...	7.534	8.310	32465	114746	0.009	0.035	#
12)	4,4'-DDE	7.522	8.365	31219	137416	0.009	0.132	#
13)	Dieldrin	7.708	8.511	13968	241854	0.004	0.101	#
14)	Endrin	7.877	8.743	8572	324180	0.003	0.105	#
15)	4,4'-DDD	7.919	8.778	14469	380300	0.006	0.206	#
16)	Endosulfa...	8.018	8.894	241561	255392	0.081	0.066	
17)	4,4'-DDT	8.124	9.014	13198	375227	0.005	0.127	#
18)	Endrin Al...	8.305	9.118	251292	464921	0.095	0.176	#
19)	Endosulfa...	8.606	9.329	35588	710246	0.012	0.195	#
20)	Methoxychlor	8.457	9.496	85814	1909118	0.071	1.425	#
21)	Endrin Ke...	8.802	9.718	41050	4269587	0.012	1.289	#
23)	Hexachlor...	3.116	3.735	64942	662929	0.017	0.137	#
24)	Hexachlor...	5.699	6.501	499429	420862	0.149	0.092	#
25)	Oxychlordane	7.176	7.941	216312	217019	BelowCal	0.068	
26)	2,4'-DDE	7.257	8.148	9896	193725	0.004	0.085	#
27)	trans-Non...	7.435	8.232	173340	184224	0.047	0.051	
28)	2,4'-DDD	7.627	8.517	15662	233987	0.008	0.122	#
29)	2,4'-DDT	7.794	8.743	13577	324180	0.006	0.103	#
30)	cis-Nonac...	7.901	8.778	13314	380300	0.003	0.095	#
31)	Mirex	8.565	9.712	81937	4273117	8199.095	1.812	#
32)	Chlordane...	7.377	8.184	20165	344976	0.050	0.794	#
33)	Chlordane...	7.480	8.286	82879	147497	0.170	0.406	#
34)	Chlordane...	8.018	8.927f	241561	1902192	1.855	16.018	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.480	8.559	82879	238345	5.063	8.088	#
37)	Toxaphene...	7.781	8.894	19687	255392	0.627	6.355	#
38)	Toxaphene...	8.082	8.927	4428	1902192	96753.874	29.402	#
39)	Toxaphene...	8.329	9.014	150050	375227	BelowCal	BelowCal	
40)	Toxaphene...	8.565	9.177	81937	465562	1.512	8.121	#
41)	Toxaphene...	8.623	0.000	14619	0	0.192	N.D.	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

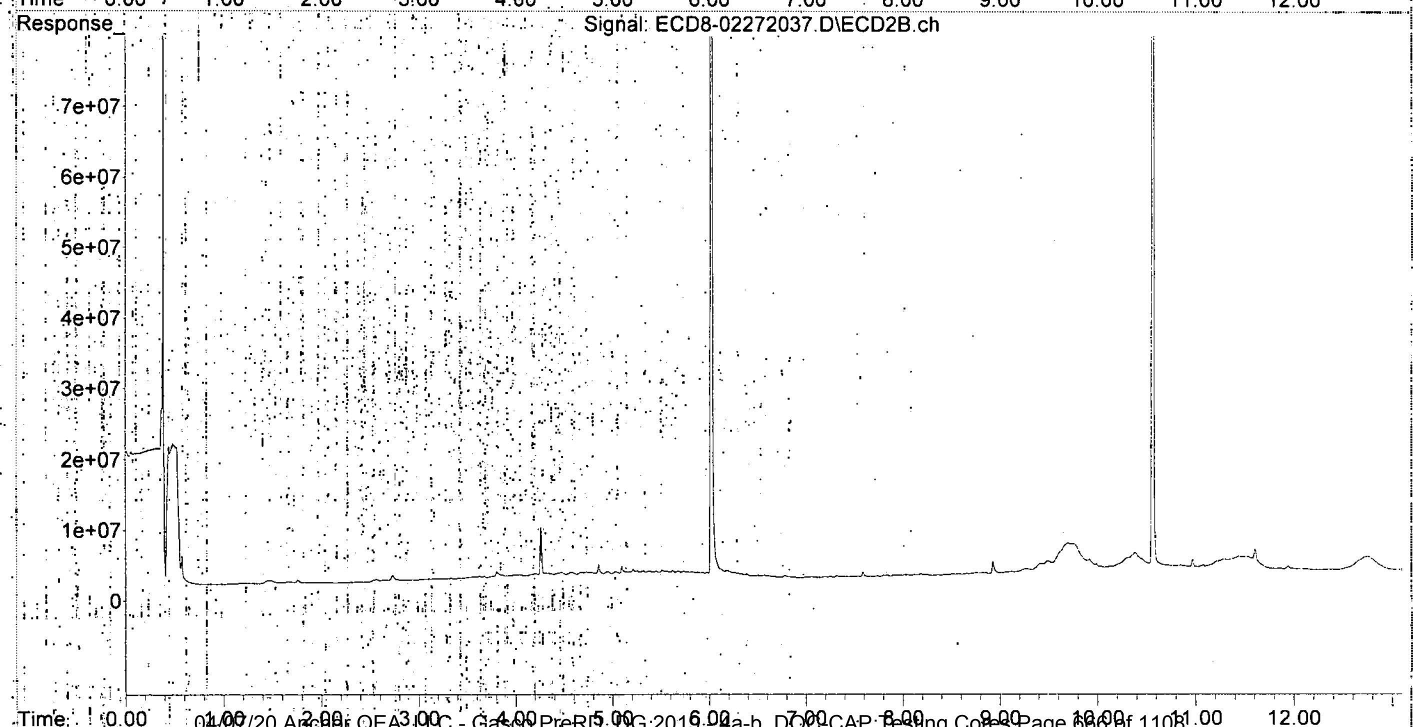
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B27037\
Data File : ECD8-02272037.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2020 22:37
Operator : MJB
Sample : 0B27037-CCB4
Misc : A20A395
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 28 11:24:47 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT7.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

#	ID	Conc	ISTD Conc	Path\File
1	1	10	0	C:\msdchem\1\data\2020-02\0B01012\ECD8-02012036.D
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

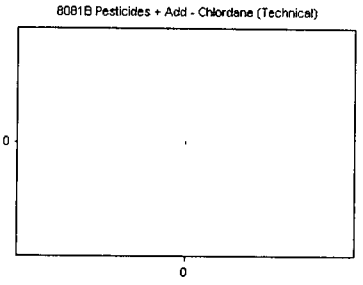
Element Calibration Review Sheet

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**

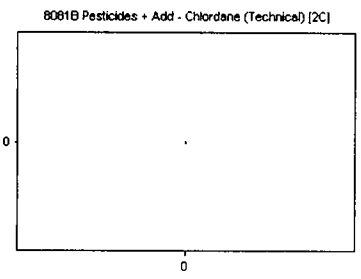


Standard	Concentration	Response	Response Factor	RT
0B01012-CALJ	10	0	0.000	0.00
0B01012-CALK	50	0	0.000	0.00
0B01012-CALL	100	0	0.000	0.00
0B01012-CALM	200	0	0.000	0.00
0B01012-CALN	500	0	0.000	0.00
0B01012-CALO	1000	0	0.000	0.00
0B01012-CALP	2000	0	0.000	0.00

AVE RF **0.000** RF RSD **0.00** AVE RT **0.00**

Chlordane (Technical) [2C]

Curve Fit: **AVERAGE RF**

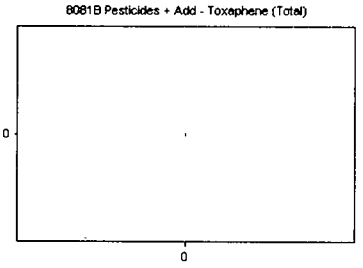


Standard	Concentration	Response	Response Factor	RT
0B01012-CALJ	10	0	0.000	0.00
0B01012-CALK	50	0	0.000	0.00
0B01012-CALL	100	0	0.000	0.00
0B01012-CALM	200	0	0.000	0.00
0B01012-CALN	500	0	0.000	0.00
0B01012-CALO	1000	0	0.000	0.00
0B01012-CALP	2000	0	0.000	0.00

AVE RF **0.000** RF RSD **0.00** AVE RT **0.00**

Toxaphene (Total)

Curve Fit: **AVERAGE RF**

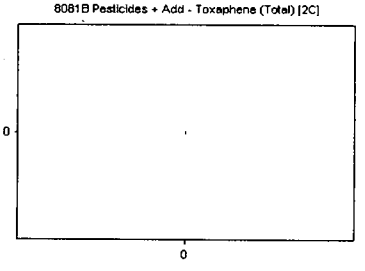


Standard	Concentration	Response	Response Factor	RT
0B01012-CALQ	10	0	0.000	0.00
0B01012-CALR	50	0	0.000	0.00
0B01012-CALS	100	0	0.000	0.00
0B01012-CALT	200	0	0.000	0.00
0B01012-CALU	500	0	0.000	0.00
0B01012-CALV	1000	0	0.000	0.00
0B01012-CALW	2000	0	0.000	0.00

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**

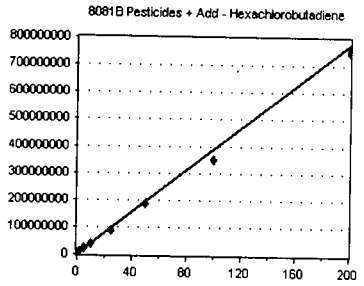
Element Calibration Review Sheet

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**

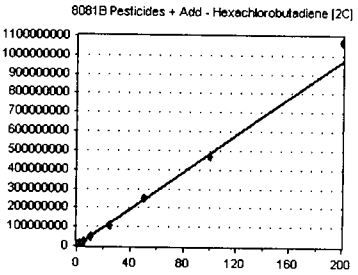


Standard	Concentration	Response	Response Factor	RT
0B01012-CALA	0.5	2278541	4557082.000	3.08
0B01012-CALB	1	4206156	4206156.000	3.08
0B01012-CALC	2	7973044	3986522.000	3.08
0B01012-CALD	5	2.000834E+07	4001668.000	3.08
0B01012-CALE	10	3.837758E+07	3837758.000	3.08
0B01012-CALF	25	8.728258E+07	3491303.000	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**

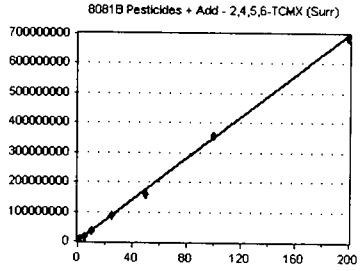


Standard	Concentration	Response	Response Factor	RT
0B01012-CALA	0.5	2594123	5188246.000	3.68
0B01012-CALB	1	4878910	4878910.000	3.68
0B01012-CALC	2	9306742	4653371.000	3.68
0B01012-CALD	5	2.374866E+07	4749732.000	3.68
0B01012-CALE	10	4.708842E+07	4708842.000	3.68
0B01012-CALF	25	1.09599E+08	4383960.000	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**

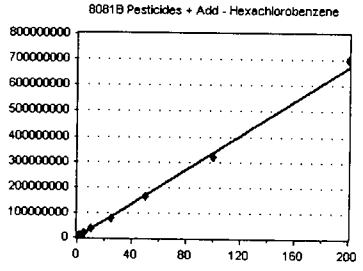


Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	2010387	4020774.000	5.30
0B01012-CAL2	1	3713760	3713760.000	5.30
0B01012-CAL3	2	7209311	3604656.000	5.30
0B01012-CAL4	5	1.60812E+07	3216240.000	5.30
0B01012-CAL5	10	3.30315E+07	3303150.000	5.30
0B01012-CAL6	25	8.582981E+07	3433192.000	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**

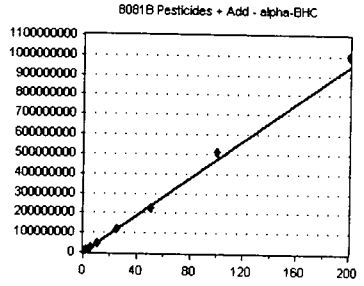
Element Calibration Review Sheet

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**

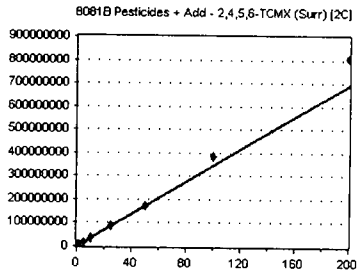


Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	2323532	4647064.000	5.84
0B01012-CAL2	1	4491787	4491787.000	5.84
0B01012-CAL3	2	9150524	4575262.000	5.84
0B01012-CAL4	5	2.346608E+07	4693216.000	5.84
0B01012-CAL5	10	4.655607E+07	4655607.000	5.84
0B01012-CAL6	25	1.216262E+08	4865048.000	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**

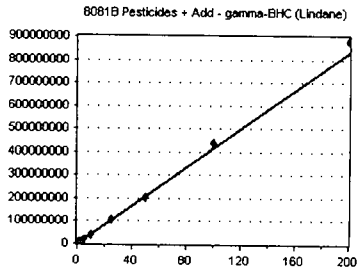


Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	1807457	3614914.000	5.98
0B01012-CAL2	1	3325610	3325610.000	5.98
0B01012-CAL3	2	6464924	3232462.000	5.98
0B01012-CAL4	5	1.503127E+07	3006254.000	5.98
0B01012-CAL5	10	3.1881E+07	3188100.000	5.98
0B01012-CAL6	25	8.514933E+07	3405973.000	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**

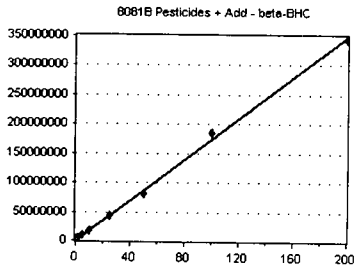


Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	2098226	4196452.000	6.12
0B01012-CAL2	1	3995270	3995270.000	6.12
0B01012-CAL3	2	8103069	4051535.000	6.12
0B01012-CAL4	5	2.061784E+07	4123568.000	6.12
0B01012-CAL5	10	4.042996E+07	4042996.000	6.12
0B01012-CAL6	25	1.057196E+08	4228784.000	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

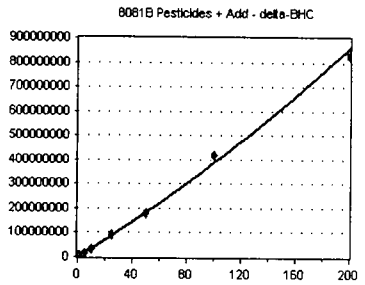
AVE RF **1741644.000** RF RSD **4.71** AVE RT **6.20**

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

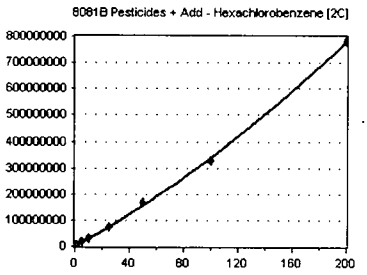


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

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]

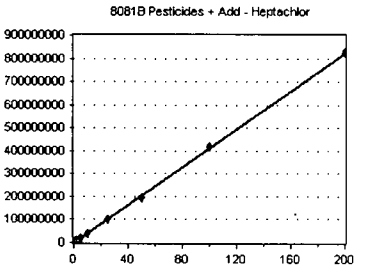


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

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

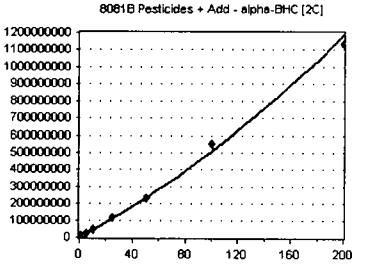


Curve Fit: **AVERAGE RF**

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**

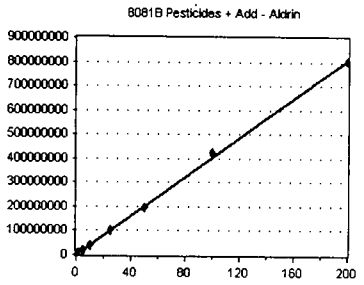
Element Calibration Review Sheet

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**

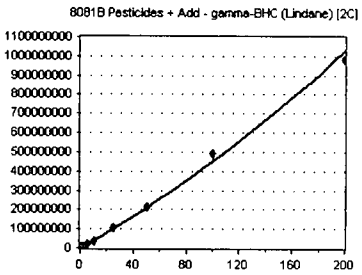


Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	2117773	4235546.000	6.77
0B01012-CAL2	1	4023063	4023063.000	6.77
0B01012-CAL3	2	7878680	3939340.000	6.77
0B01012-CAL4	5	2.002148E+07	4004296.000	6.77
0B01012-CAL5	10	3.955333E+07	3955333.000	6.77
0B01012-CAL6	25	1.019187E+08	4076748.000	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**

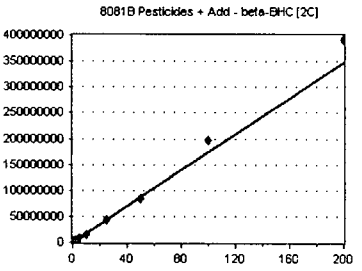


Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	1857818	3715636.000	6.90
0B01012-CAL2	1	3614287	3614287.000	6.90
0B01012-CAL3	2	7144289	3572145.000	6.90
0B01012-CAL4	5	1.890369E+07	3780738.000	6.90
0B01012-CAL5	10	3.851699E+07	3851699.000	6.90
0B01012-CAL6	25	1.078528E+08	4314112.000	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**

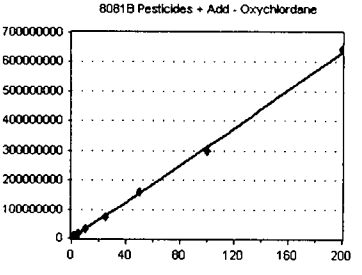


Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	871353	1742706.000	6.97
0B01012-CAL2	1	1672509	1672509.000	6.97
0B01012-CAL3	2	3394908	1697454.000	6.97
0B01012-CAL4	5	7798279	1559656.000	6.97
0B01012-CAL5	10	1.605662E+07	1605662.000	6.97
0B01012-CAL6	25	4.282634E+07	1713054.000	6.97
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**

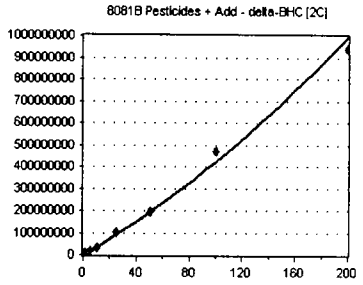
Element Calibration Review Sheet

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**

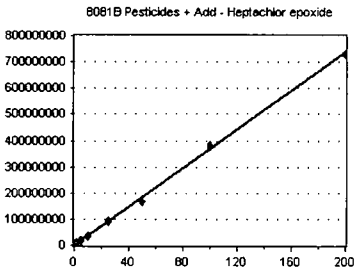


Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	1525163	3050326.000	7.22
0B01012-CAL2	1	2821743	2821743.000	7.22
0B01012-CAL3	2	6360084	3180042.000	7.22
0B01012-CAL4	5	1.628615E+07	3257230.000	7.22
0B01012-CAL5	10	3.455671E+07	3455671.000	7.22
0B01012-CAL6	25	1.009439E+08	4037756.000	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**

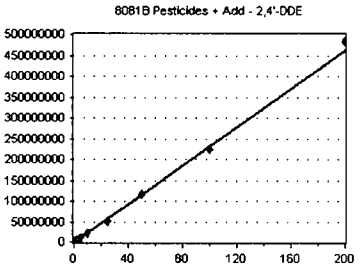


Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	2037408	4074816.000	7.23
0B01012-CAL2	1	3849968	3849968.000	7.23
0B01012-CAL3	2	7310938	3655469.000	7.23
0B01012-CAL4	5	1.821124E+07	3642248.000	7.23
0B01012-CAL5	10	3.556183E+07	3556183.000	7.23
0B01012-CAL6	25	9.060382E+07	3624153.000	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**

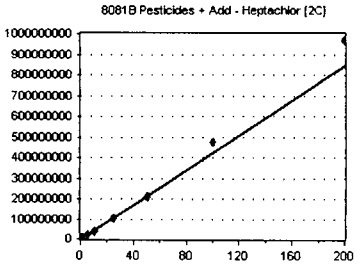


Standard	Concentration	Response	Response Factor	RT
0B01012-CALA	0.5	1290069	2580138.000	7.24
0B01012-CALB	1	2295081	2295081.000	7.24
0B01012-CALC	2	4488919	2244460.000	7.24
0B01012-CALD	5	1.174373E+07	2348746.000	7.24
0B01012-CALE	10	2.280436E+07	2280436.000	7.24
0B01012-CALF	25	5.220238E+07	2088095.000	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**

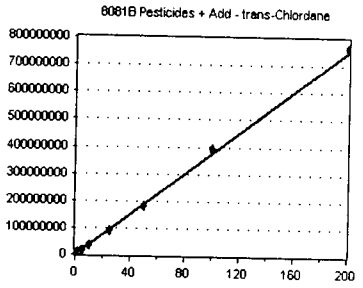
Element Calibration Review Sheet

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**

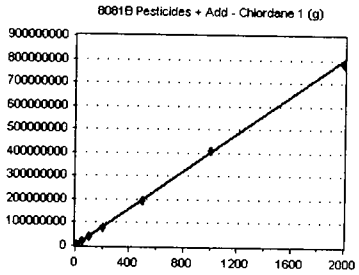


Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	2006872	4013744.000	7.33
0B01012-CAL2	1	3865919	3865919.000	7.33
0B01012-CAL3	2	7233767	3616884.000	7.33
0B01012-CAL4	5	1.816404E+07	3632808.000	7.33
0B01012-CAL5	10	3.64511E+07	3645110.000	7.33
0B01012-CAL6	25	9.234463E+07	3693785.000	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**

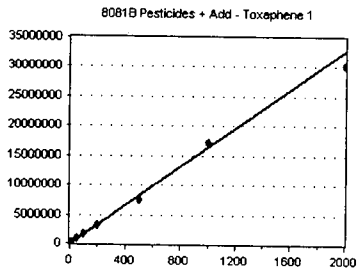


Standard	Concentration	Response	Response Factor	RT
0B01012-CALJ	10	4222162	422216.200	7.33
0B01012-CALK	50	1.933186E+07	386637.200	7.33
0B01012-CALL	100	4.098202E+07	409820.200	7.33
0B01012-CALM	200	7.983398E+07	399169.900	7.33
0B01012-CALN	500	1.942334E+08	388466.800	7.33
0B01012-CALO	1000	4.070686E+08	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**

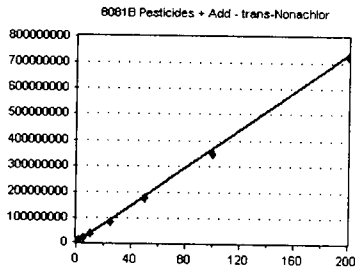


Standard	Concentration	Response	Response Factor	RT
0B01012-CALQ	10	169507	16950.700	7.40
0B01012-CALR	50	862137	17242.740	7.40
0B01012-CALS	100	1687426	16874.260	7.40
0B01012-CALT	200	3210991	16054.960	7.40
0B01012-CALU	500	7624274	15248.550	7.40
0B01012-CALV	1000	1.712611E+07	17126.110	7.40
0B01012-CALW	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

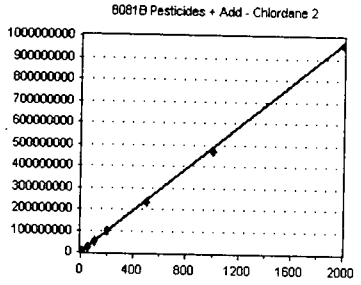
AVE RF **3666182.000** RF RSD **8.10** AVE RT **7.42**

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

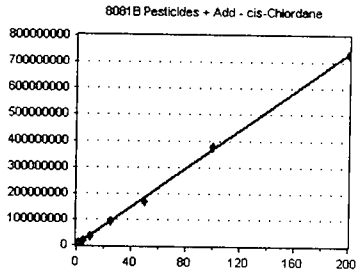


Curve Fit: **AVERAGE RF**

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

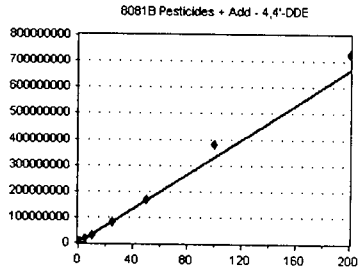


Curve Fit: **AVERAGE RF**

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

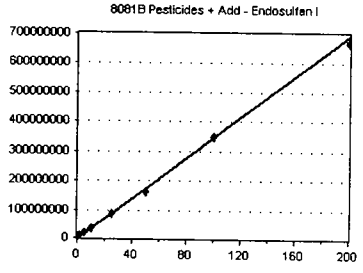


Curve Fit: **AVERAGE RF**

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**

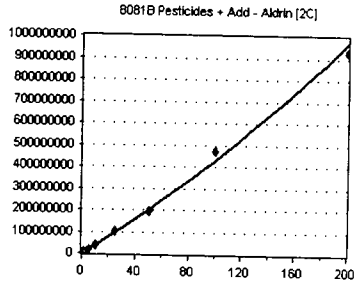
Element Calibration Review Sheet

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**

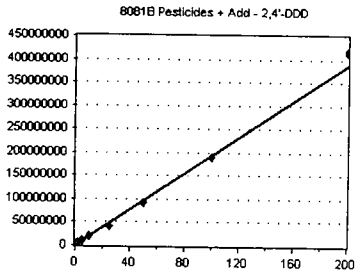


Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	1887335	3774670.000	7.54
0B01012-CAL2	1	3540234	3540234.000	7.54
0B01012-CAL3	2	7212786	3606393.000	7.54
0B01012-CAL4	5	1.826029E+07	3652058.000	7.54
0B01012-CAL5	10	3.695242E+07	3695242.000	7.54
0B01012-CAL6	25	1.033046E+08	4132184.000	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**

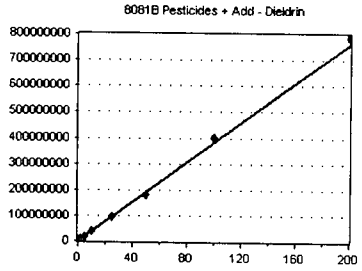


Standard	Concentration	Response	Response Factor	RT
0B01012-CALA	0.5	1111537	2223074.000	7.62
0B01012-CALB	1	1934222	1934222.000	7.61
0B01012-CALC	2	3838920	1919460.000	7.61
0B01012-CALD	5	9882639	1976528.000	7.61
0B01012-CALE	10	1.853462E+07	1853462.000	7.61
0B01012-CALF	25	4.220343E+07	1688137.000	7.61
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**

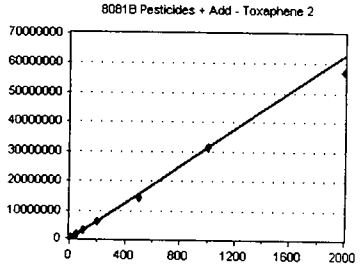


Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	1958633	3917266.000	7.69
0B01012-CAL2	1	3771816	3771816.000	7.69
0B01012-CAL3	2	7527776	3763888.000	7.69
0B01012-CAL4	5	1.875276E+07	3750552.000	7.69
0B01012-CAL5	10	3.72983E+07	3729830.000	7.69
0B01012-CAL6	25	9.58688E+07	3834752.000	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

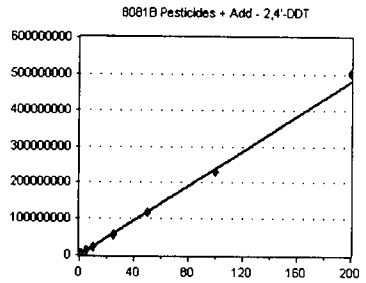
AVE RF **31415.440** RF RSD **8.31** AVE RT **7.69**

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

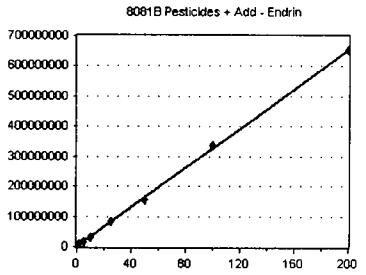


Curve Fit: **AVERAGE RF**

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

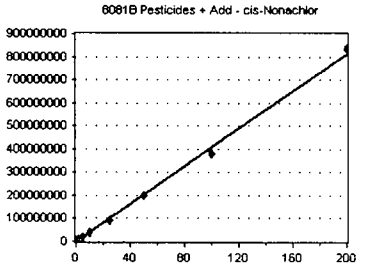


Curve Fit: **AVERAGE RF**

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

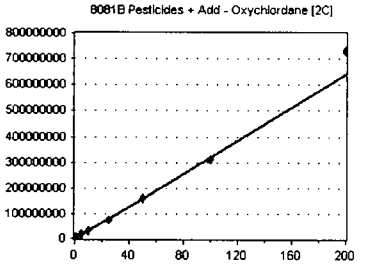


Curve Fit: **AVERAGE RF**

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

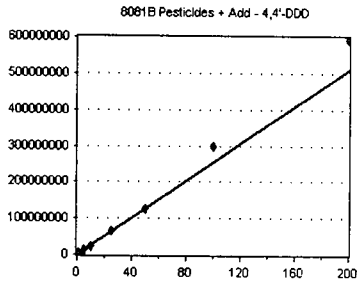
AVE RF **3198118.000** RF RSD **8.55** AVE RT **7.91**

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

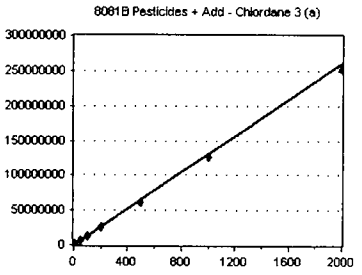


Curve Fit: **AVERAGE RF**

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)

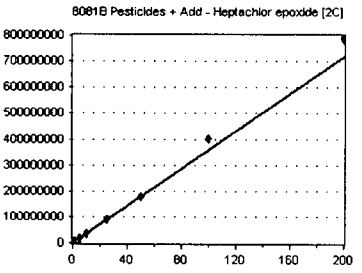


Curve Fit: **AVERAGE RF**

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]

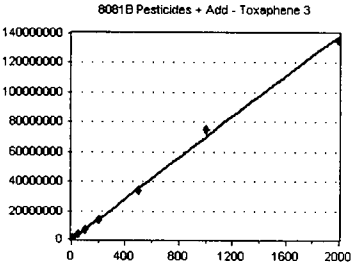


Curve Fit: **AVERAGE RF**

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**

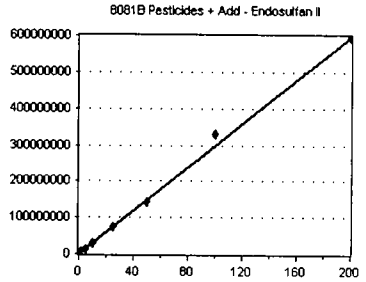
Element Calibration Review Sheet

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**

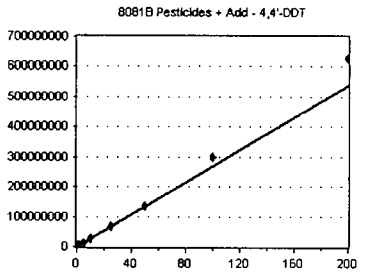


Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	1650694	3301388.000	8.01
0B01012-CAL2	1	3004856	3004856.000	8.01
0B01012-CAL3	2	5851117	2925559.000	8.01
0B01012-CAL4	5	1.400165E+07	2800330.000	8.01
0B01012-CAL5	10	2.818935E+07	2818935.000	8.01
0B01012-CAL6	25	7.334226E+07	2933690.000	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**

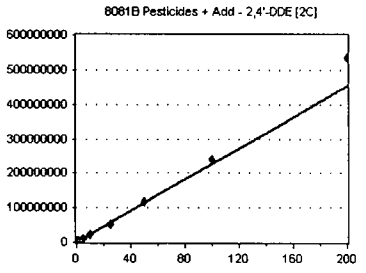


Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	1351757	2703514.000	8.11
0B01012-CAL2	1	2497592	2497592.000	8.11
0B01012-CAL3	2	4907038	2453519.000	8.11
0B01012-CAL4	5	1.263265E+07	2526530.000	8.11
0B01012-CAL5	10	2.469228E+07	2469228.000	8.11
0B01012-CAL6	25	6.809745E+07	2723898.000	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**

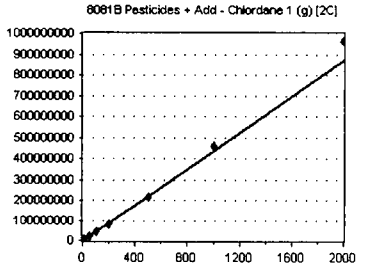


Standard	Concentration	Response	Response Factor	RT
0B01012-CALA	0.5	1200073	2400146.000	8.11
0B01012-CALB	1	2104301	2104301.000	8.11
0B01012-CALC	2	4260806	2130403.000	8.11
0B01012-CALD	5	1.090641E+07	2181282.000	8.11
0B01012-CALE	10	2.19581E+07	2195810.000	8.11
0B01012-CALF	25	5.111336E+07	2044534.000	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**

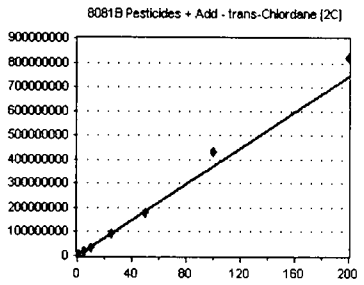
Element Calibration Review Sheet

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**

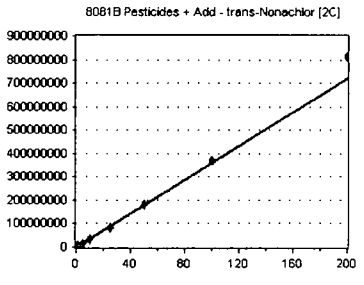


Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	1923989	3847978.000	8.12
0B01012-CAL2	1	3473086	3473086.000	8.12
0B01012-CAL3	2	6824804	3412402.000	8.12
0B01012-CAL4	5	1.70644E+07	3412880.000	8.12
0B01012-CAL5	10	3.494534E+07	3494534.000	8.12
0B01012-CAL6	25	9.410738E+07	3764295.000	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**

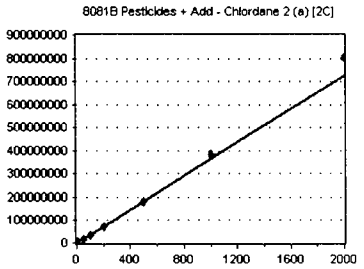


Standard	Concentration	Response	Response Factor	RT
0B01012-CALA	0.5	2004659	4009318.000	8.18
0B01012-CALB	1	3680280	3680280.000	8.18
0B01012-CALC	2	6830472	3415236.000	8.18
0B01012-CALD	5	1.698707E+07	3397414.000	8.18
0B01012-CALE	10	3.440216E+07	3440216.000	8.18
0B01012-CALF	25	8.078905E+07	3231562.000	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**

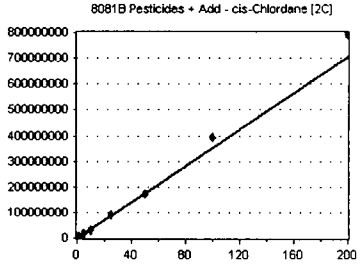


Standard	Concentration	Response	Response Factor	RT
0B01012-CALJ	10	3718290	371829.000	8.23
0B01012-CALK	50	1.591002E+07	318200.400	8.23
0B01012-CALL	100	3.522198E+07	352219.800	8.23
0B01012-CALM	200	7.06827E+07	353413.500	8.23
0B01012-CALN	500	1.819715E+08	363943.000	8.23
0B01012-CALO	1000	3.848055E+08	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

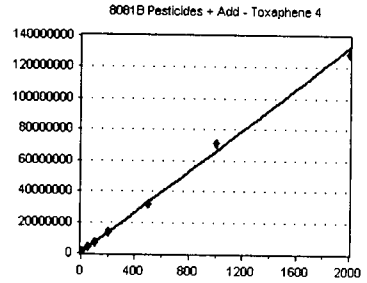
AVE RF **3522677.000** RF RSD **8.70** AVE RT **8.23**

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

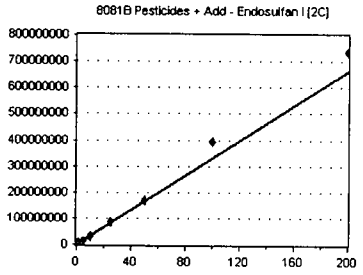


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

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]

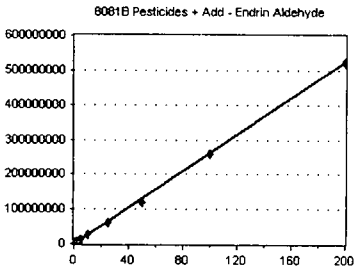


Curve Fit: **AVERAGE RF**

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

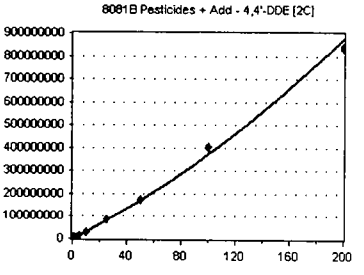


Curve Fit: **AVERAGE RF**

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

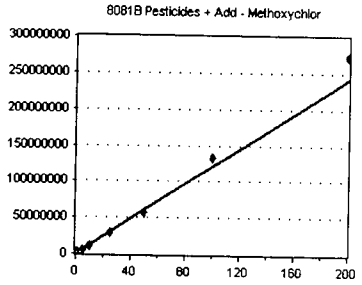
AVE RF **3268173.000** RF RSD **17.29** AVE RT **8.33**

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

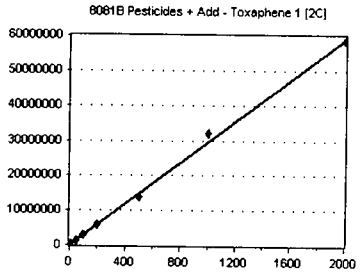


Curve Fit: **AVERAGE RF**

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]

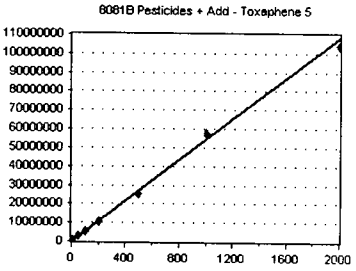


Curve Fit: **AVERAGE RF**

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

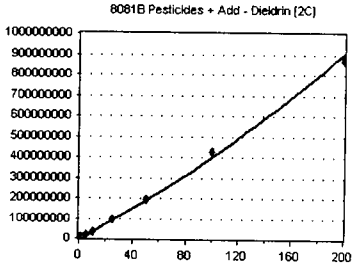


Curve Fit: **AVERAGE RF**

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**

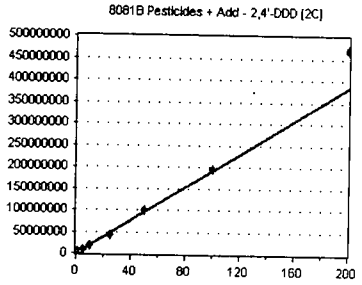
Element Calibration Review Sheet

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**

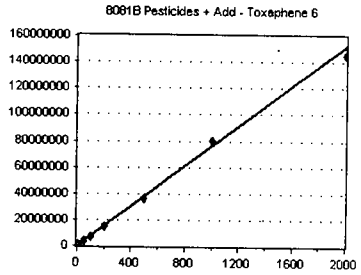


Standard	Concentration	Response	Response Factor	RT
0B01012-CALA	0.5	960869	1921738.000	8.49
0B01012-CALB	1	1795089	1795089.000	8.49
0B01012-CALC	2	3680145	1840073.000	8.49
0B01012-CALD	5	9298557	1859711.000	8.49
0B01012-CALE	10	1.806277E+07	1806277.000	8.48
0B01012-CALF	25	4.296202E+07	1718481.000	8.49
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**

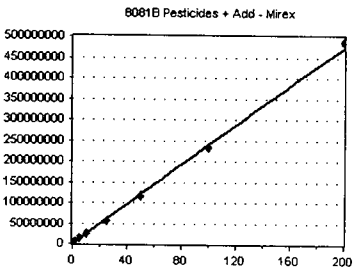


Standard	Concentration	Response	Response Factor	RT
0B01012-CALQ	10	844549	84454.900	8.54
0B01012-CALR	50	3790810	75816.200	8.54
0B01012-CALS	100	7293127	72931.270	8.54
0B01012-CALT	200	1.482303E+07	74115.150	8.54
0B01012-CALU	500	3.599046E+07	71980.920	8.54
0B01012-CALV	1000	8.042554E+07	80425.540	8.54
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**

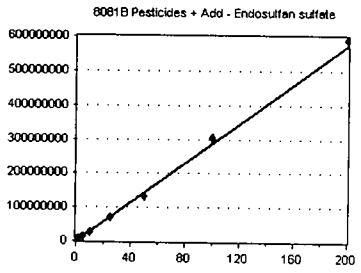


Standard	Concentration	Response	Response Factor	RT
0B01012-CALA	0.5	1693083	3386166.000	8.55
0B01012-CALB	1	2918797	2918797.000	8.55
0B01012-CALC	2	5534484	2767242.000	8.55
0B01012-CALD	5	1.332253E+07	2664506.000	8.55
0B01012-CALE	10	2.54303E+07	2543030.000	8.55
0B01012-CALF	25	5.582939E+07	2233176.000	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**

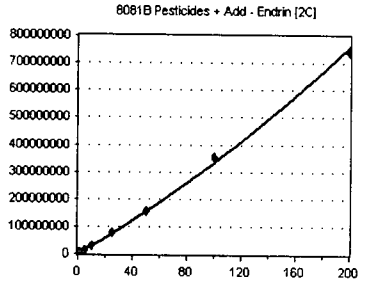
Element Calibration Review Sheet

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**

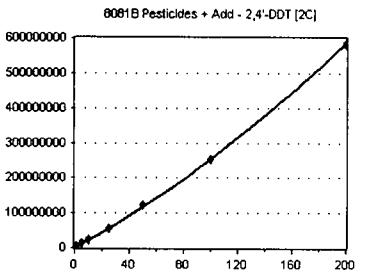


Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	1499119	2998238.000	8.71
0B01012-CAL2	1	2810308	2810308.000	8.71
0B01012-CAL3	2	5547721	2773861.000	8.71
0B01012-CAL4	5	1.387609E+07	2775218.000	8.71
0B01012-CAL5	10	2.91605E+07	2916050.000	8.71
0B01012-CAL6	25	7.939983E+07	3175993.000	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**

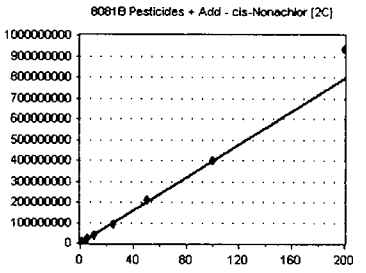


Standard	Concentration	Response	Response Factor	RT
0B01012-CALA	0.5	1210132	2420264.000	8.71
0B01012-CALB	1	2100185	2100185.000	8.71
0B01012-CALC	2	4187285	2093643.000	8.71
0B01012-CALD	5	1.135804E+07	2271608.000	8.71
0B01012-CALE	10	2.213786E+07	2213786.000	8.71
0B01012-CALF	25	5.372345E+07	2148938.000	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**

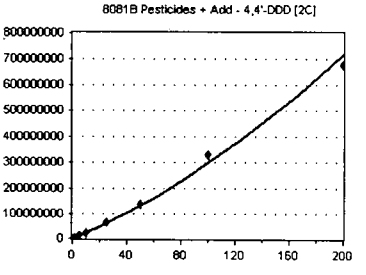


Standard	Concentration	Response	Response Factor	RT
0B01012-CALA	0.5	2084280	4168560.000	8.75
0B01012-CALB	1	3801985	3801985.000	8.75
0B01012-CALC	2	7352547	3676274.000	8.75
0B01012-CALD	5	1.958534E+07	3917068.000	8.75
0B01012-CALE	10	3.83258E+07	3832580.000	8.75
0B01012-CALF	25	9.038487E+07	3615395.000	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**

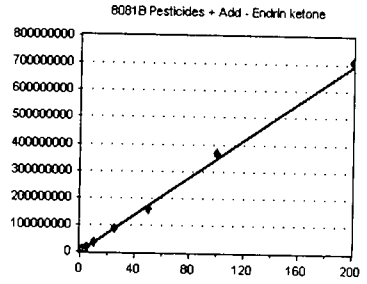
Element Calibration Review Sheet

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**

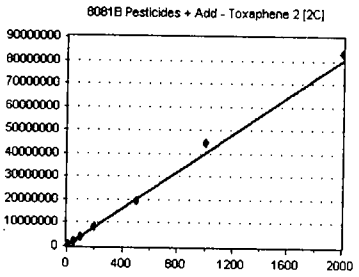


Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	1865728	3731456.000	8.80
0B01012-CAL2	1	3540934	3540934.000	8.80
0B01012-CAL3	2	6824708	3412354.000	8.80
0B01012-CAL4	5	1.662305E+07	3324610.000	8.80
0B01012-CAL5	10	3.267614E+07	3267614.000	8.80
0B01012-CAL6	25	8.55853E+07	3423412.000	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**

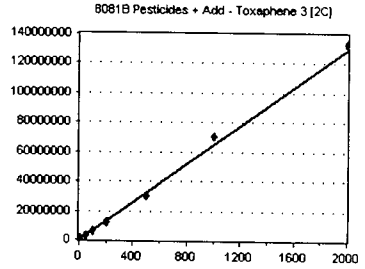


Standard	Concentration	Response	Response Factor	RT
0B01012-CALQ	10	364064	36406.400	8.80
0B01012-CALR	50	1899624	37992.480	8.80
0B01012-CALS	100	4024499	40244.990	8.80
0B01012-CALT	200	8295354	41476.770	8.80
0B01012-CALU	500	1.937513E+07	38750.260	8.80
0B01012-CALV	1000	4.495241E+07	44952.410	8.80
0B01012-CALW	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**

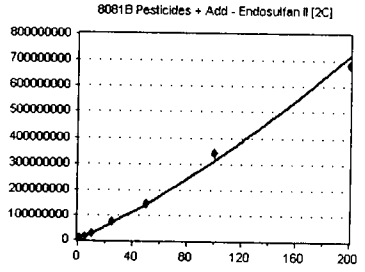


Standard	Concentration	Response	Response Factor	RT
0B01012-CALQ	10	694351	69435.100	8.84
0B01012-CALR	50	3122967	62459.340	8.84
0B01012-CALS	100	6231660	62316.600	8.84
0B01012-CALT	200	1.240684E+07	62034.200	8.84
0B01012-CALU	500	3.008388E+07	60167.760	8.84
0B01012-CALV	1000	7.000674E+07	70006.730	8.84
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**

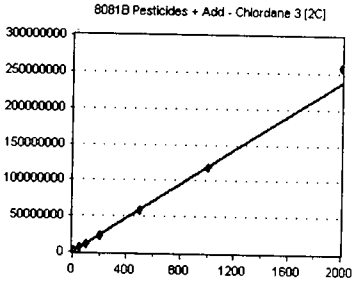
Element Calibration Review Sheet

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**

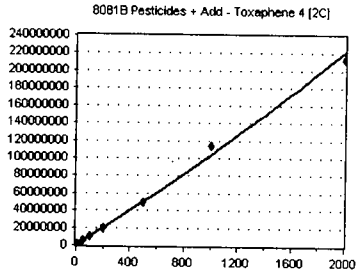


Standard	Concentration	Response	Response Factor	RT
0B01012-CALJ	10	1246903	124690.300	8.89
0B01012-CALK	50	5712561	114251.200	8.89
0B01012-CALL	100	1.164798E+07	116479.800	8.89
0B01012-CALM	200	2.214872E+07	110743.600	8.89
0B01012-CALN	500	5.849682E+07	116993.600	8.89
0B01012-CALO	1000	1.188456E+08	118845.600	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**

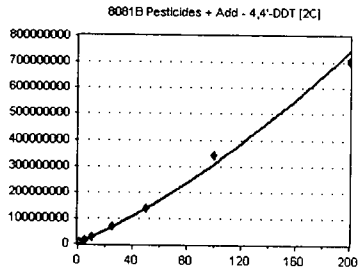


Standard	Concentration	Response	Response Factor	RT
0B01012-CALQ	10	1372328	137232.800	8.91
0B01012-CALR	50	5032751	100655.000	8.91
0B01012-CALS	100	1.007582E+07	100758.200	8.91
0B01012-CALT	200	1.995519E+07	99775.950	8.91
0B01012-CALU	500	4.883292E+07	97665.840	8.91
0B01012-CALV	1000	1.141068E+08	114106.800	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**

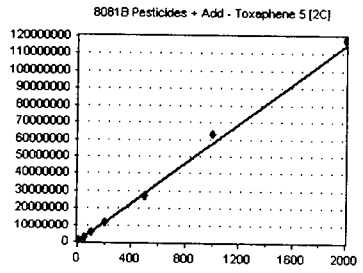


Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	1360505	2721010.000	8.98
0B01012-CAL2	1	2317293	2317293.000	8.98
0B01012-CAL3	2	4735251	2367626.000	8.98
0B01012-CAL4	5	1.163505E+07	2327010.000	8.98
0B01012-CAL5	10	2.513261E+07	2513261.000	8.98
0B01012-CAL6	25	7.053326E+07	2821331.000	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

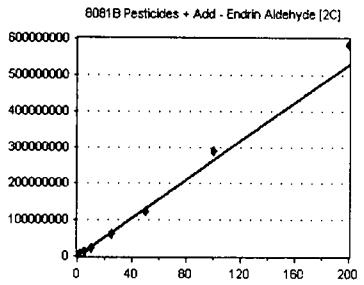
AVE RF **57329.150** RF RSD **5.45** AVE RT **9.08**

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]

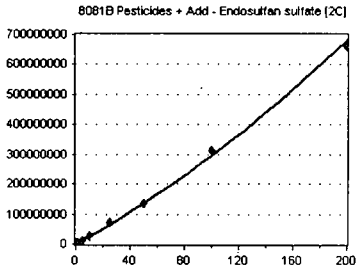


Curve Fit: **AVERAGE RF**

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]

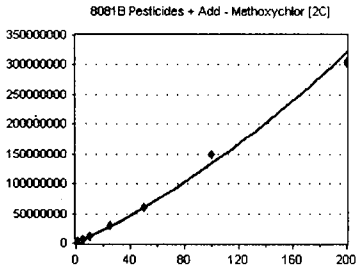


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

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]

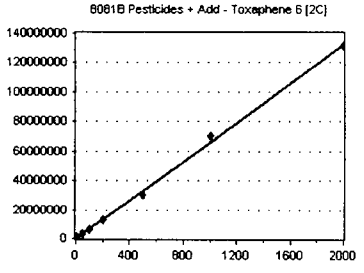


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

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**

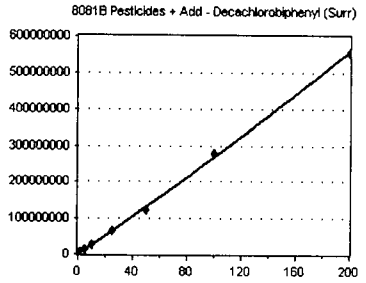
Element Calibration Review Sheet

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**

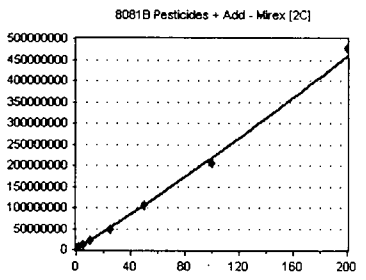


Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	2137981	4275962.000	9.51
0B01012-CAL2	1	3342363	3342363.000	9.51
0B01012-CAL3	2	6150705	3075353.000	9.51
0B01012-CAL4	5	1.355021E+07	2710042.000	9.51
0B01012-CAL5	10	2.660587E+07	2660587.000	9.51
0B01012-CAL6	25	6.645264E+07	2658106.000	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**

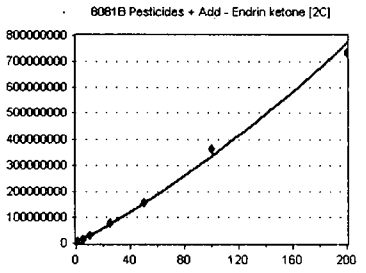


Standard	Concentration	Response	Response Factor	RT
0B01012-CALA	0.5	1475836	2951672.000	9.68
0B01012-CALB	1	2854711	2854711.000	9.67
0B01012-CALC	2	4870687	2435344.000	9.67
0B01012-CALD	5	1.146715E+07	2293430.000	9.67
0B01012-CALE	10	2.096208E+07	2096208.000	9.67
0B01012-CALF	25	4.778422E+07	1911369.000	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**

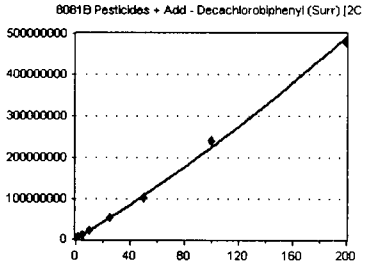


Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	2135612	4271224.000	9.68
0B01012-CAL2	1	3121972	3121972.000	9.68
0B01012-CAL3	2	6091766	3045883.000	9.68
0B01012-CAL4	5	1.440246E+07	2880492.000	9.68
0B01012-CAL5	10	2.883066E+07	2883066.000	9.68
0B01012-CAL6	25	7.944938E+07	3177975.000	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

MWB 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

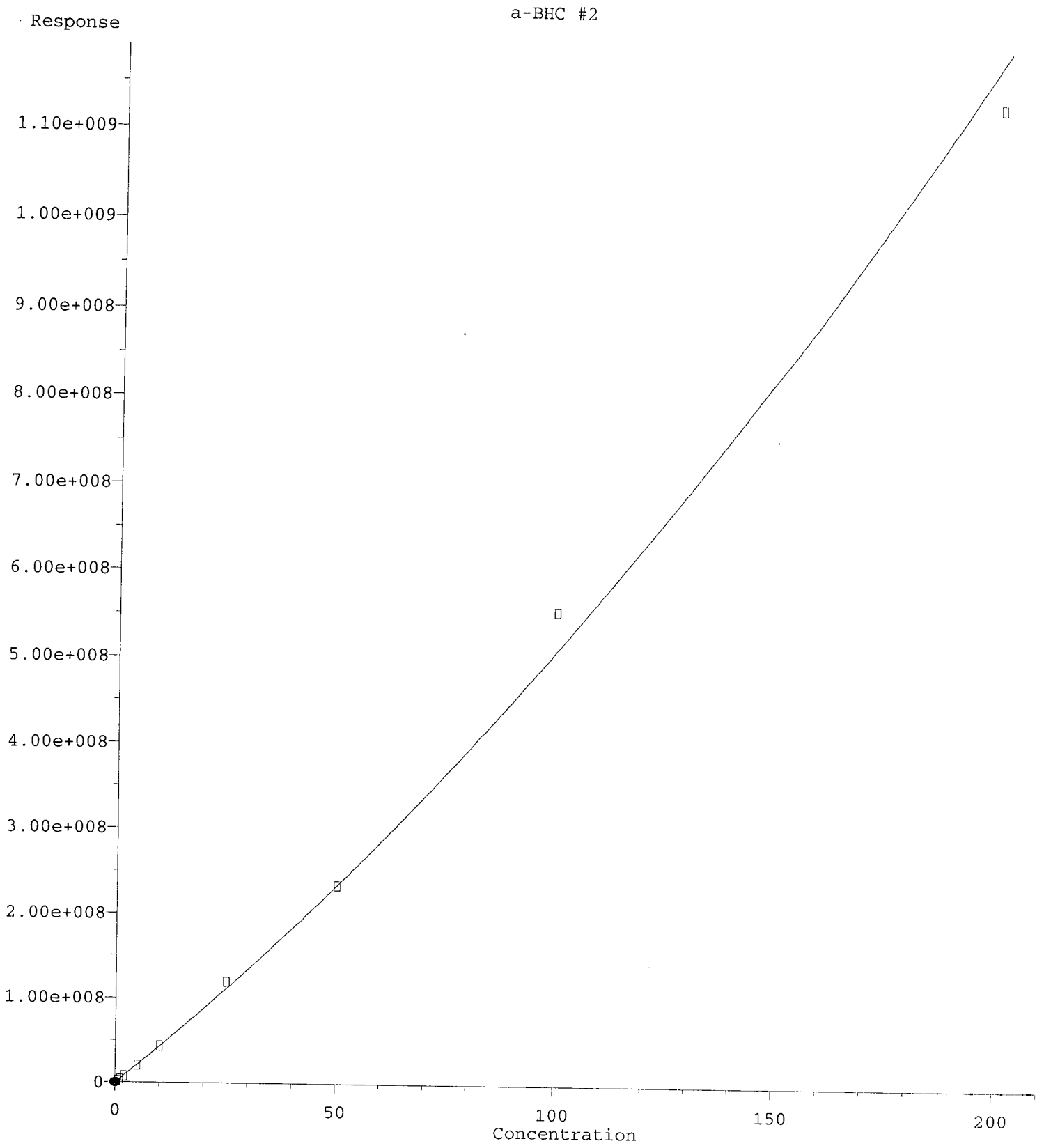
Response Factor Report DUALECD8

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

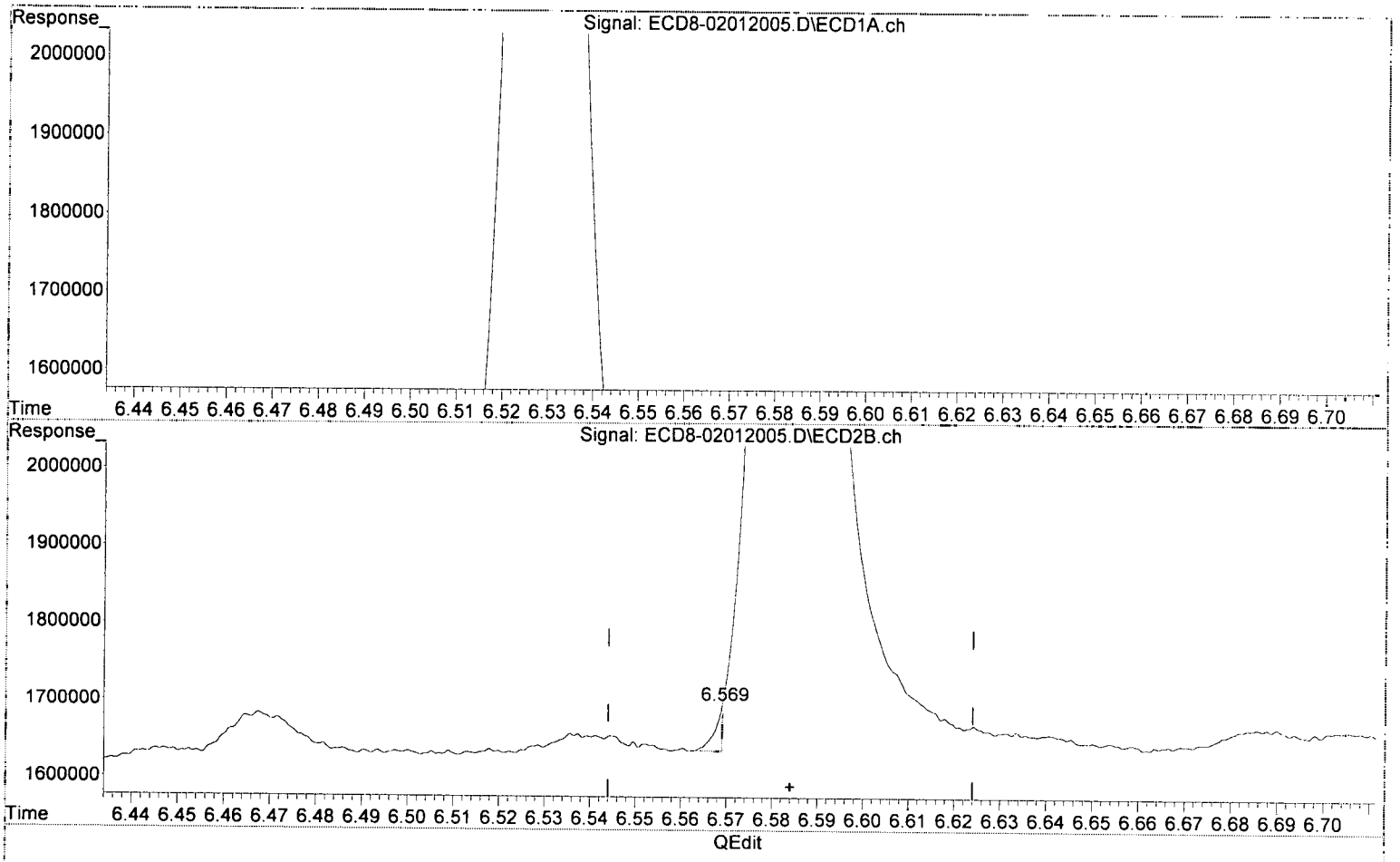


R = 8.27e+003 A*A + 4.27e+006 A - 3.23e+005
Coef of Det (r^2) = 0.996 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

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

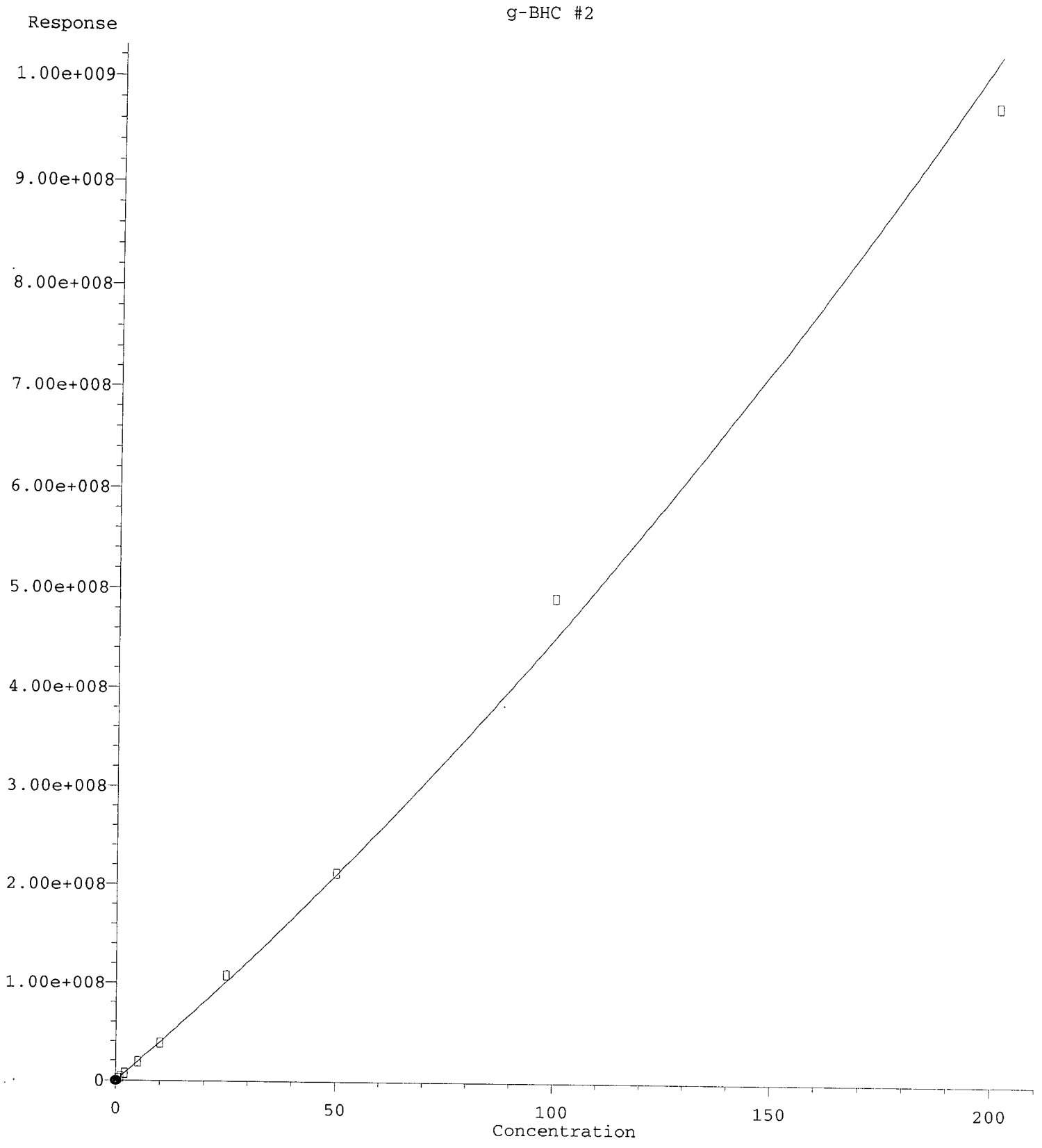
MJB 2/3/20

(2) a-BHC #2

6.569min 0.090 ng/mL

response 59842

(+) = Expected Retention Time

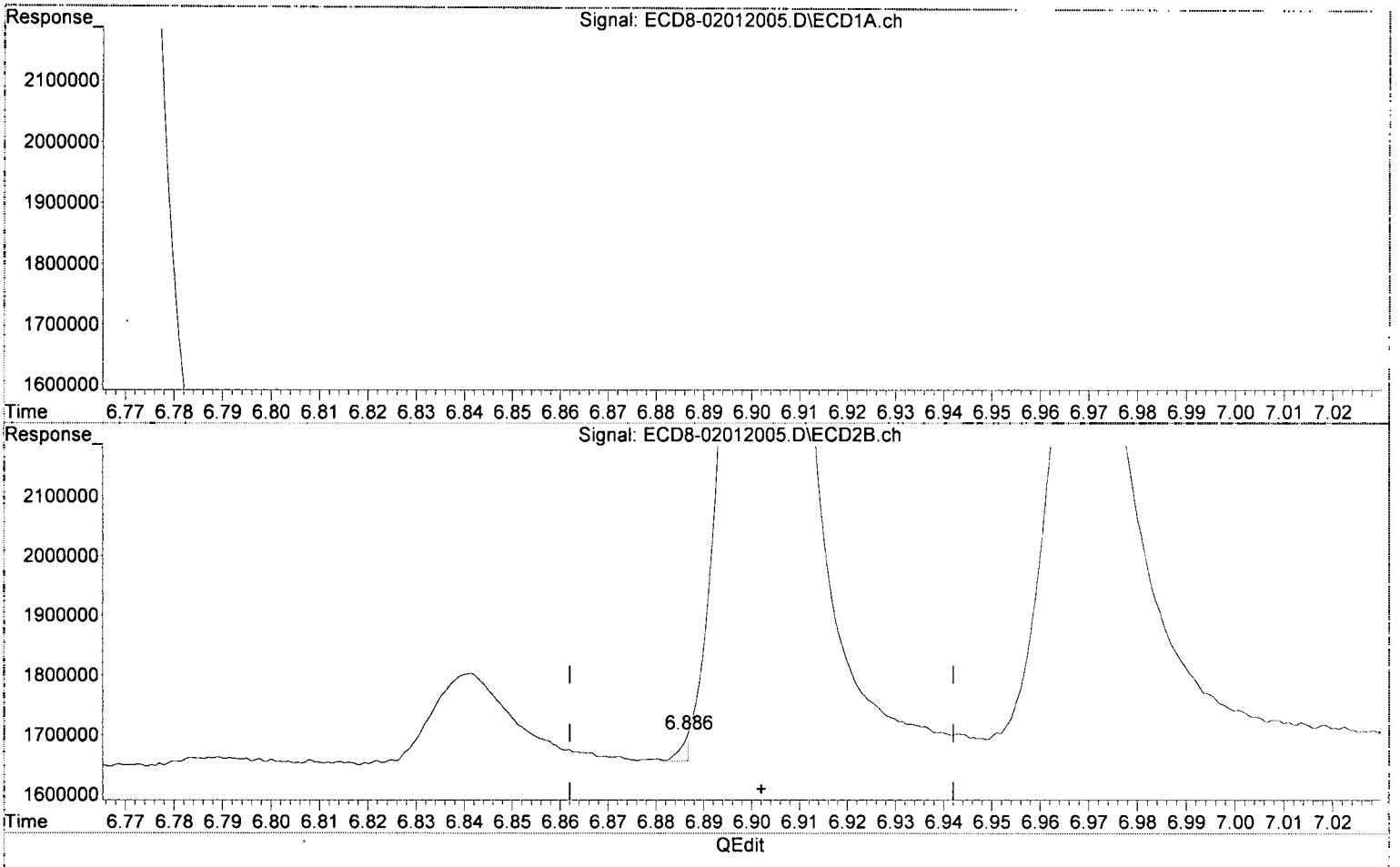


R = 6.15e+003 A*A + 3.90e+006 A - 1.64e+005
Coef of Det (r^2) = 0.996 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

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

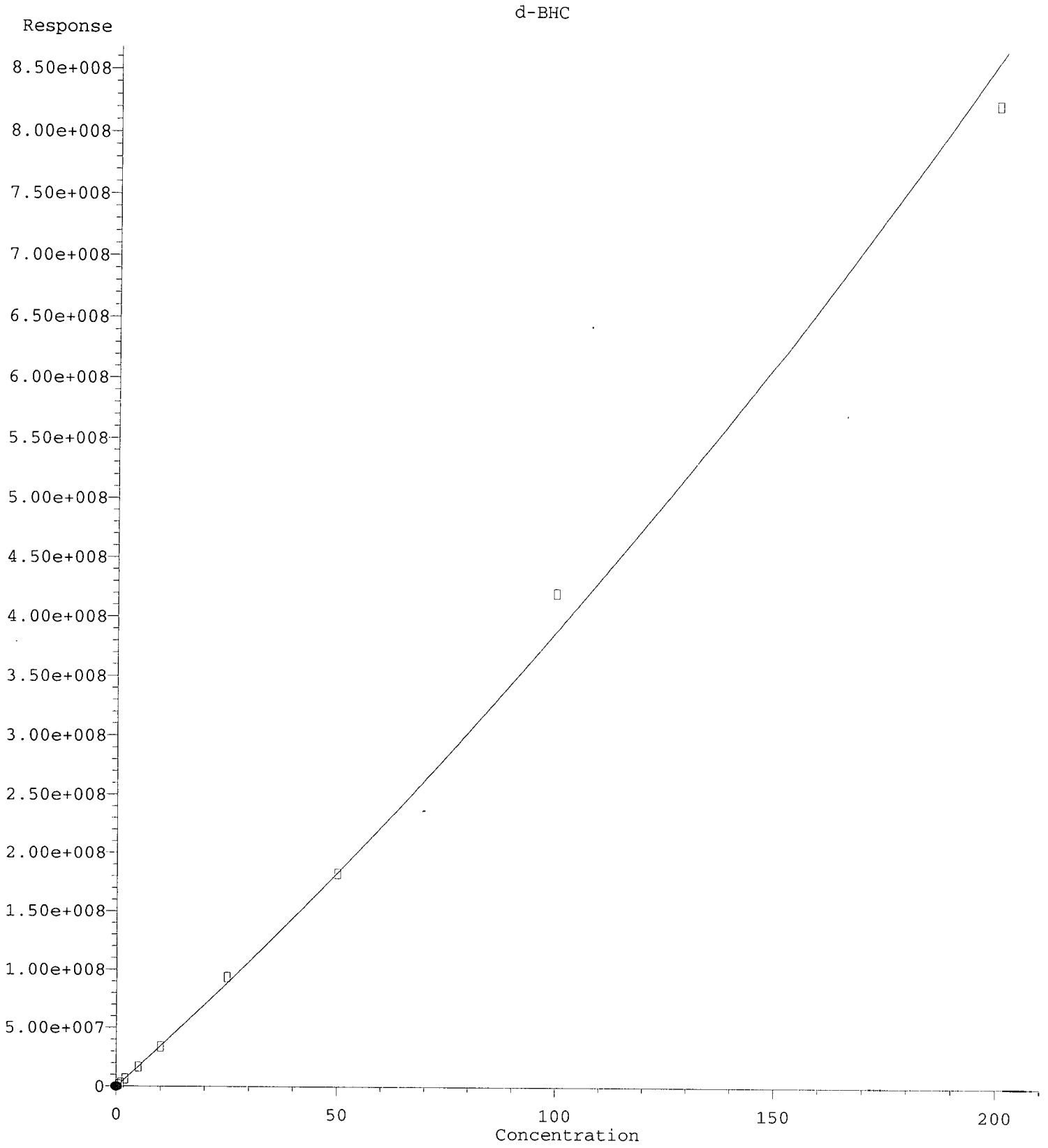
MJB 2/3/20

(3) g-BHC #2

6.886min 0.052 ng/mL m

response 37568

(+) = Expected Retention Time

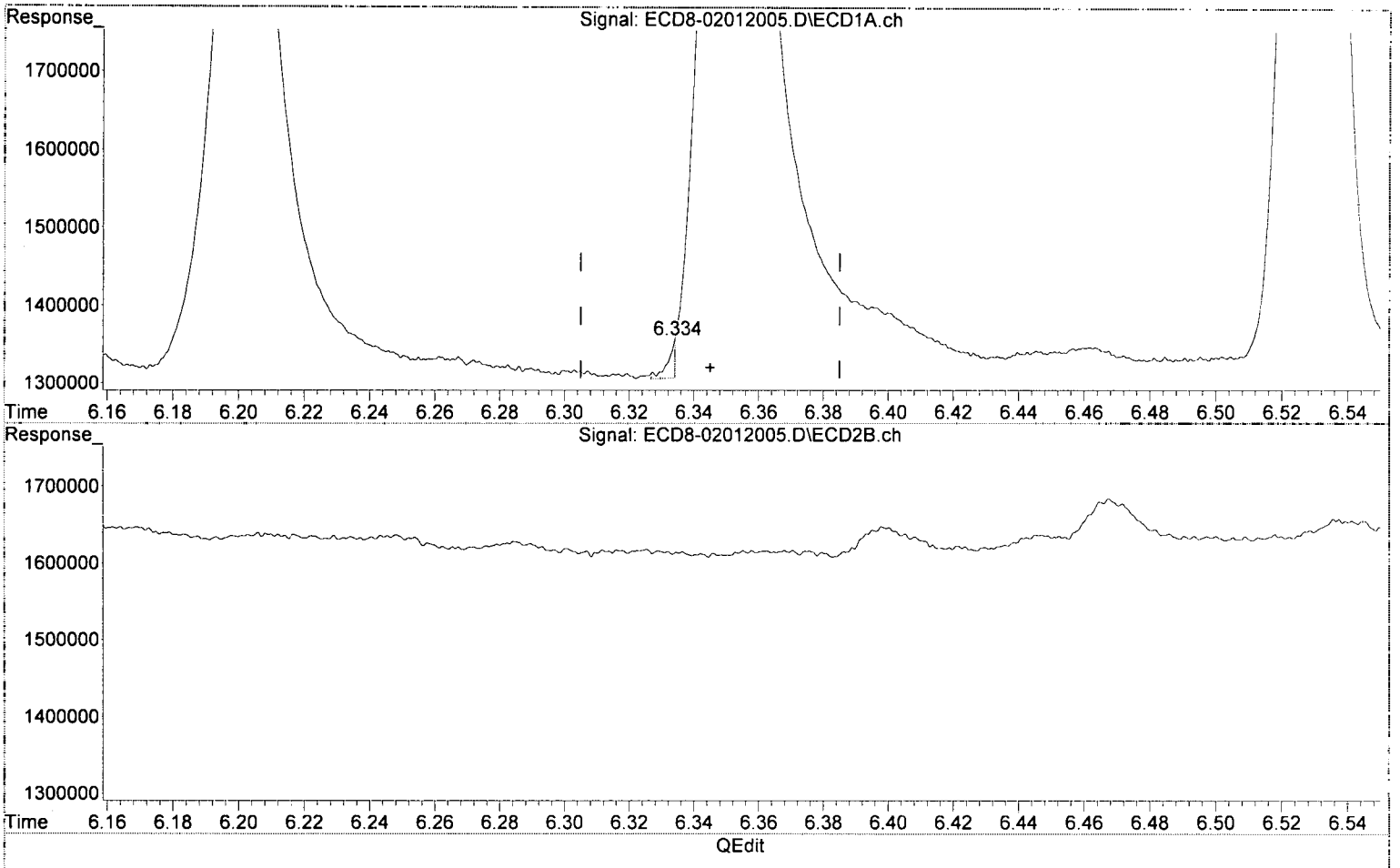


R = 4.28e+003 A*A + 3.45e+006 A - 3.68e+005
Coef of Det (r^2) = 0.996 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

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

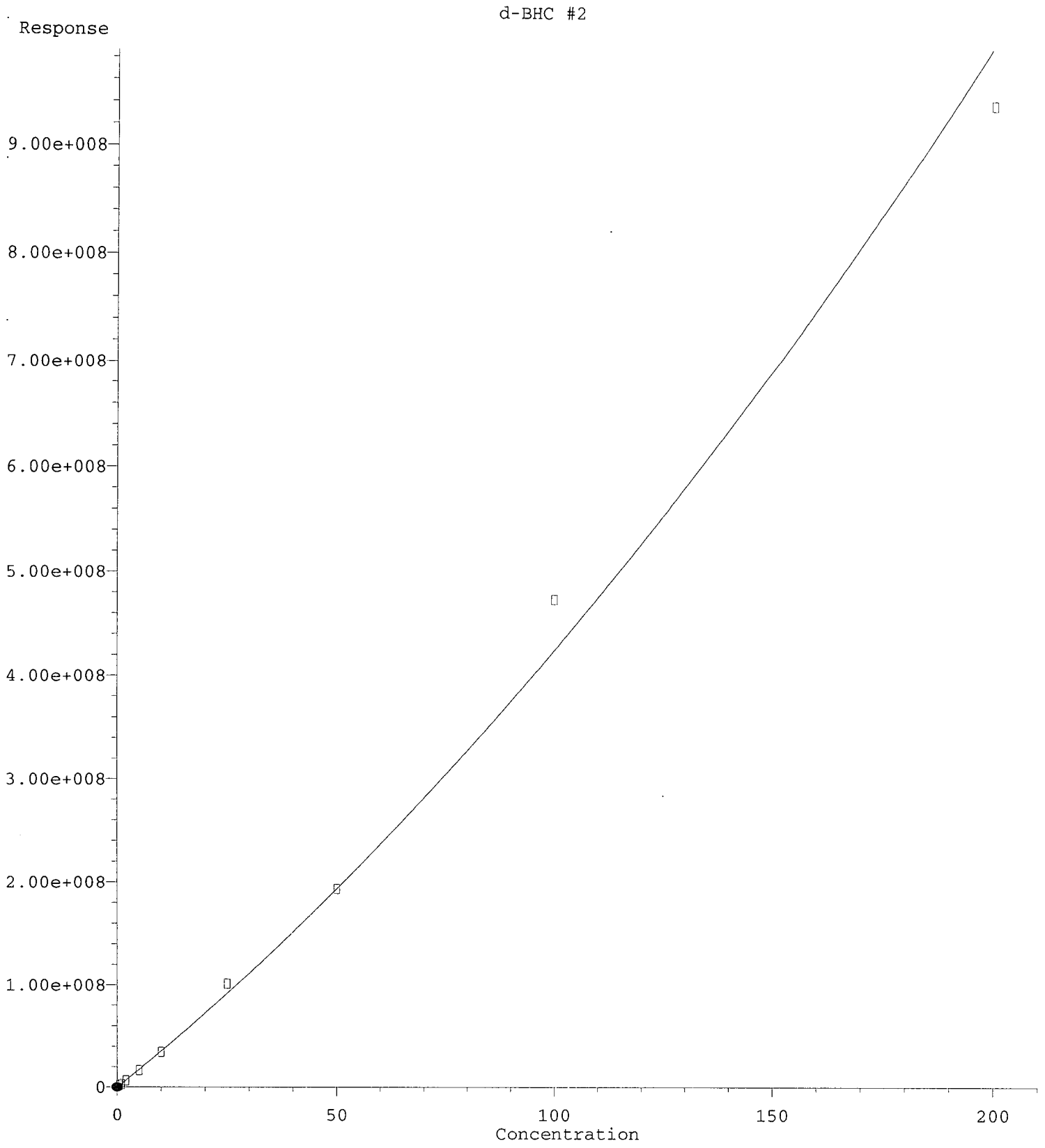
MB 2/3/20

(6) d-BHC #2

7.224min 0.533 ng/mL

response 1525163

(+) = Expected Retention Time

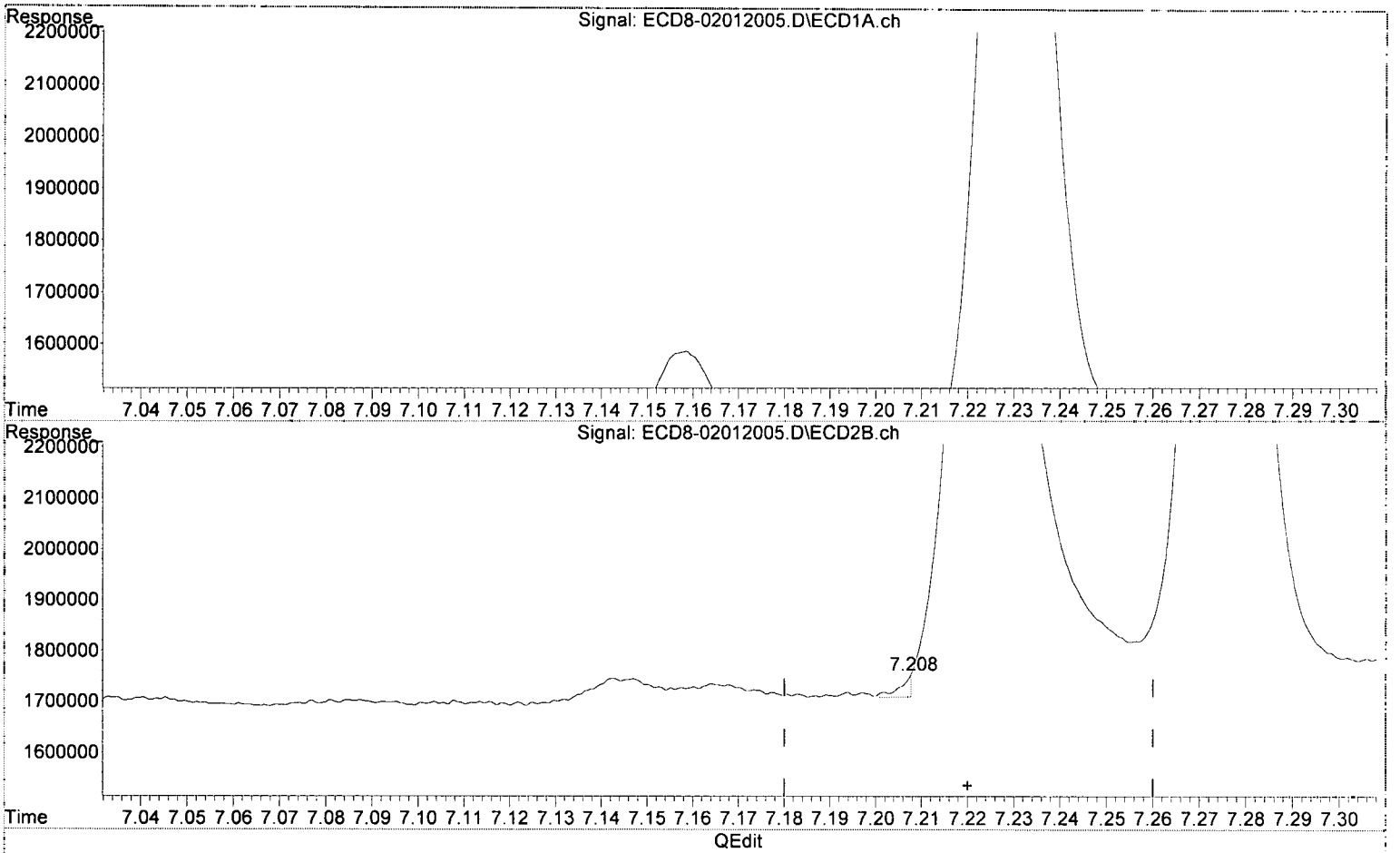


R = 7.38e+003 A*A + 3.50e+006 A - 3.41e+005
Coef of Det (r^2) = 0.993 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

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

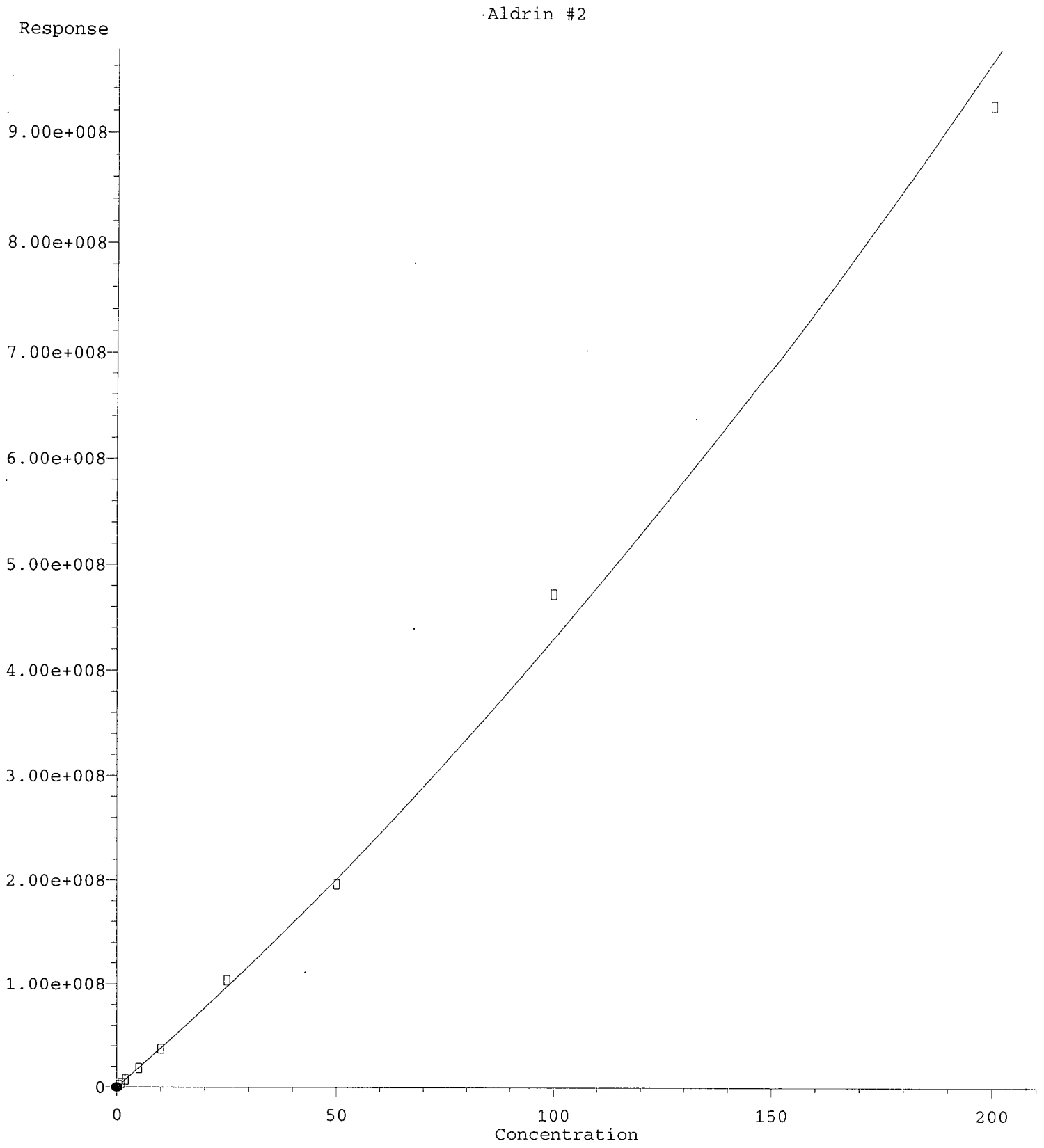
MJB 2/3/20

(6) d-BHC #2

7.208min 0.110 ng/mL m

response 42952

(+) = Expected Retention Time

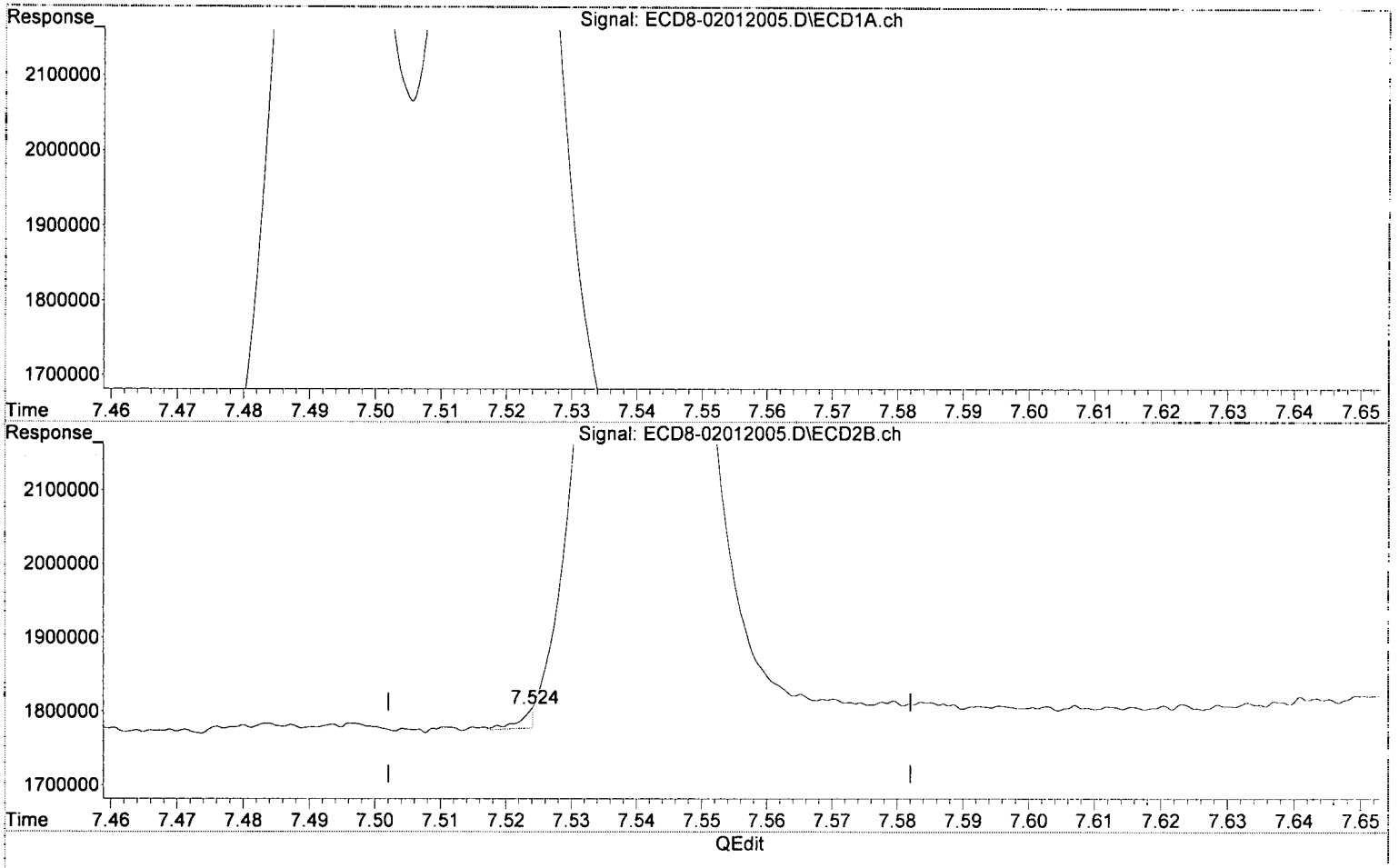


R = 5.56e+003 A*A + 3.74e+006 A - 4.51e+004
Coef of Det (r^2) = 0.996 Curve Fit: Quadratic w/(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

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

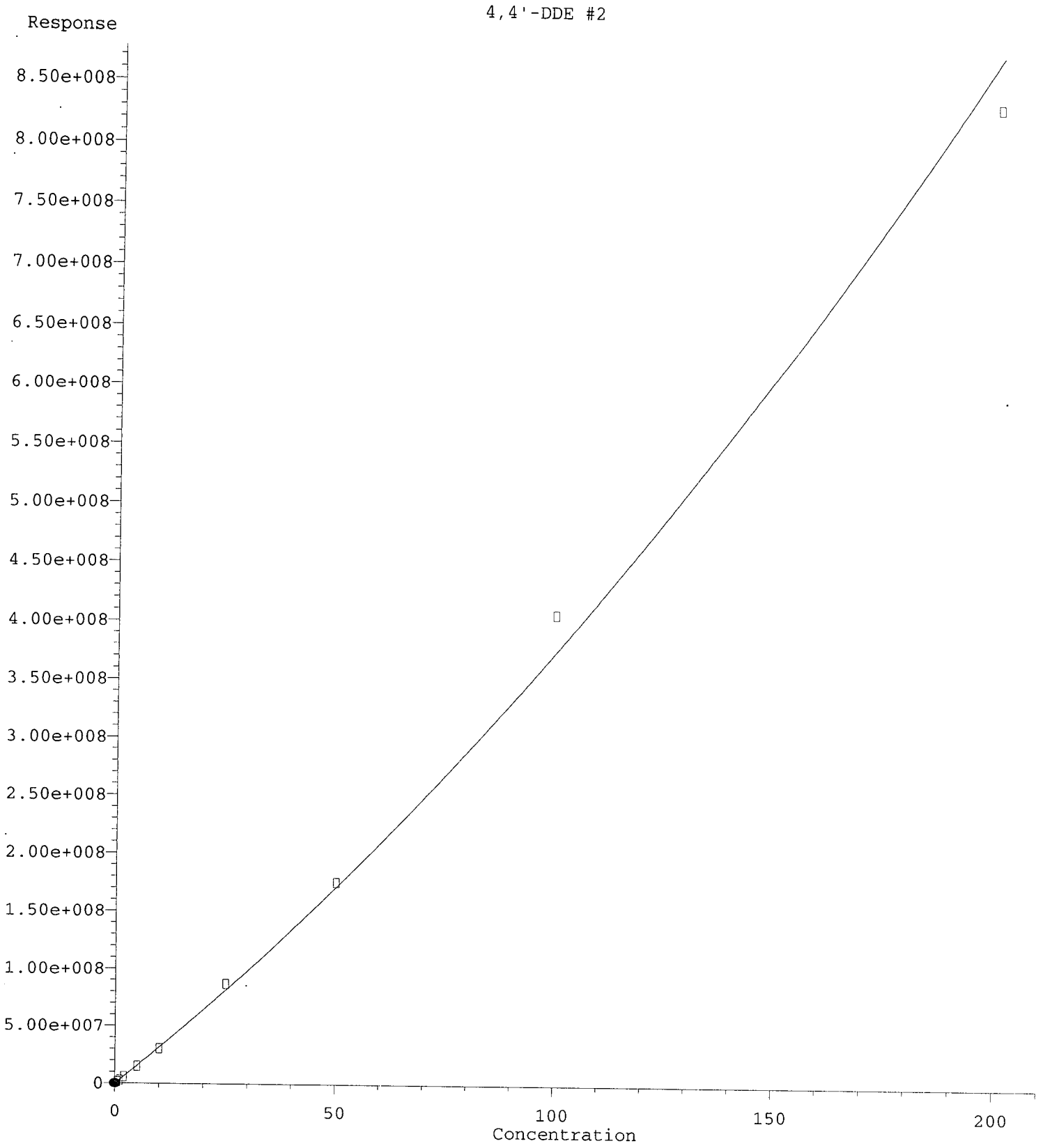
MJB 2/3/20

(7) Aldrin #2

7.524min 0.019 ng/mL (m)

response 26735

(+) = Expected Retention Time

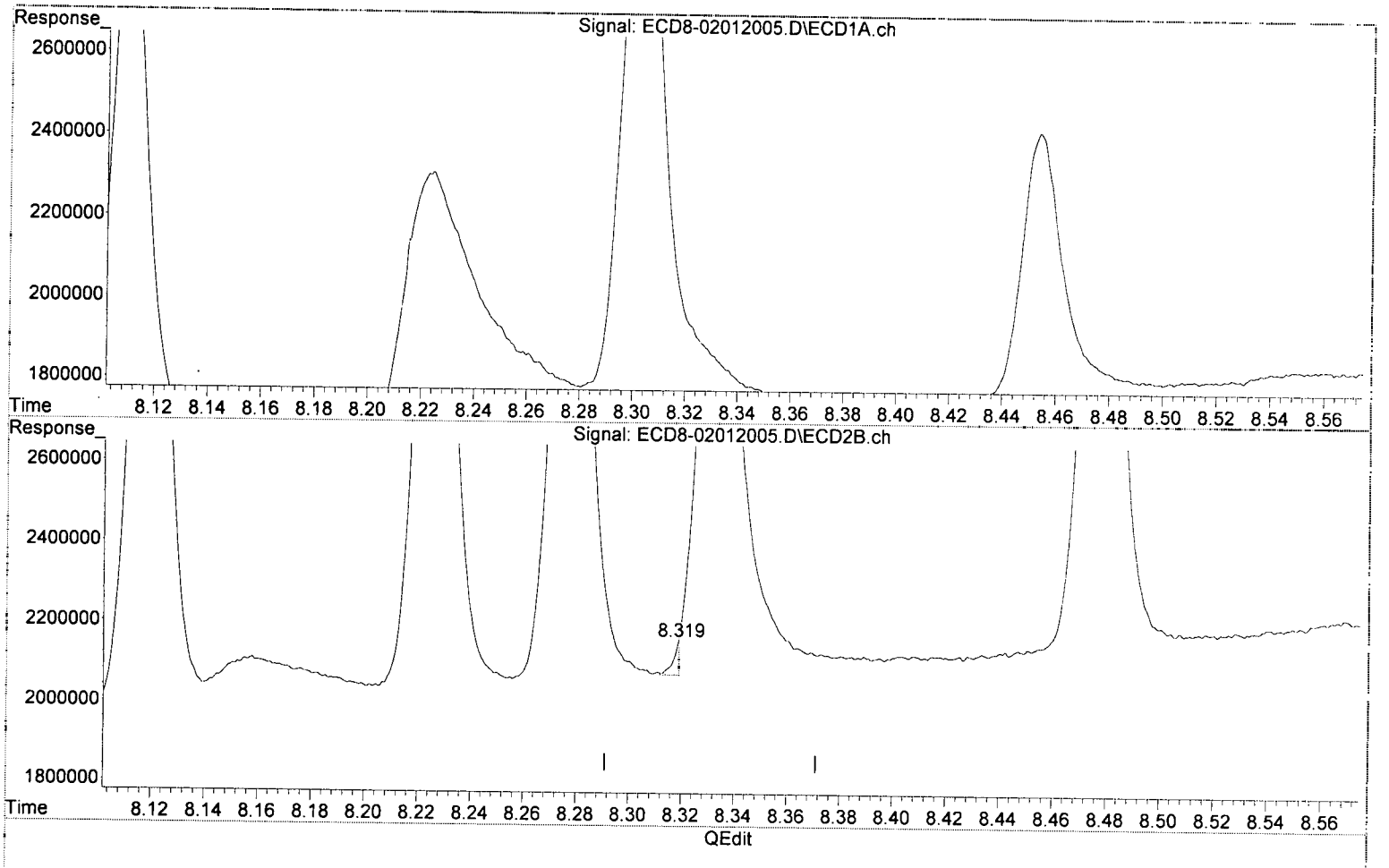


R = 6.32e+003 A*A + 3.11e+006 A - 2.74e+005
Coef of Det (r^2) = 0.996 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

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

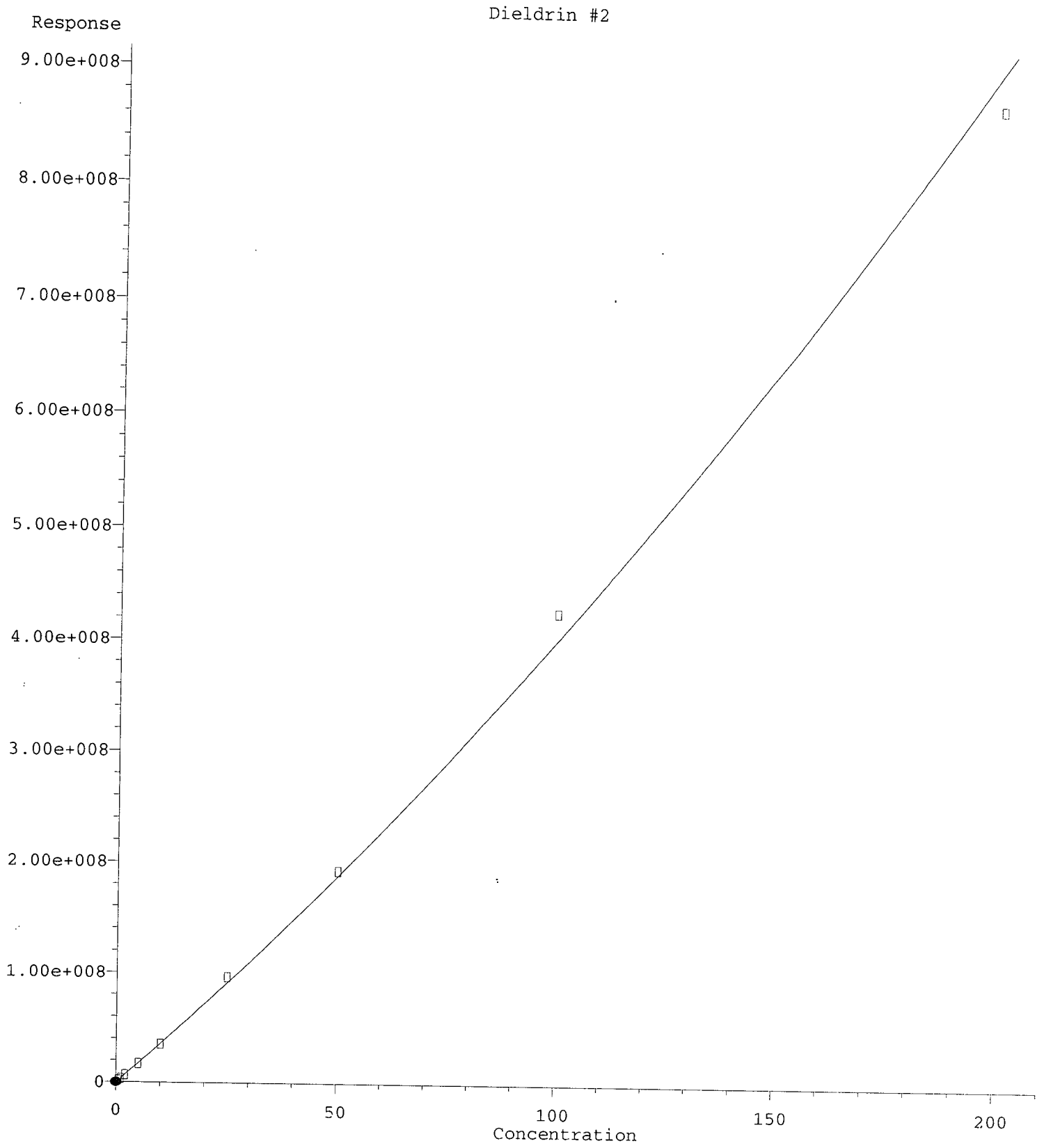
MJB 2/3/20

(12) 4,4'-DDE #2

8.319min 0.115 ng/mL (m)

response 84324

(+) = Expected Retention Time

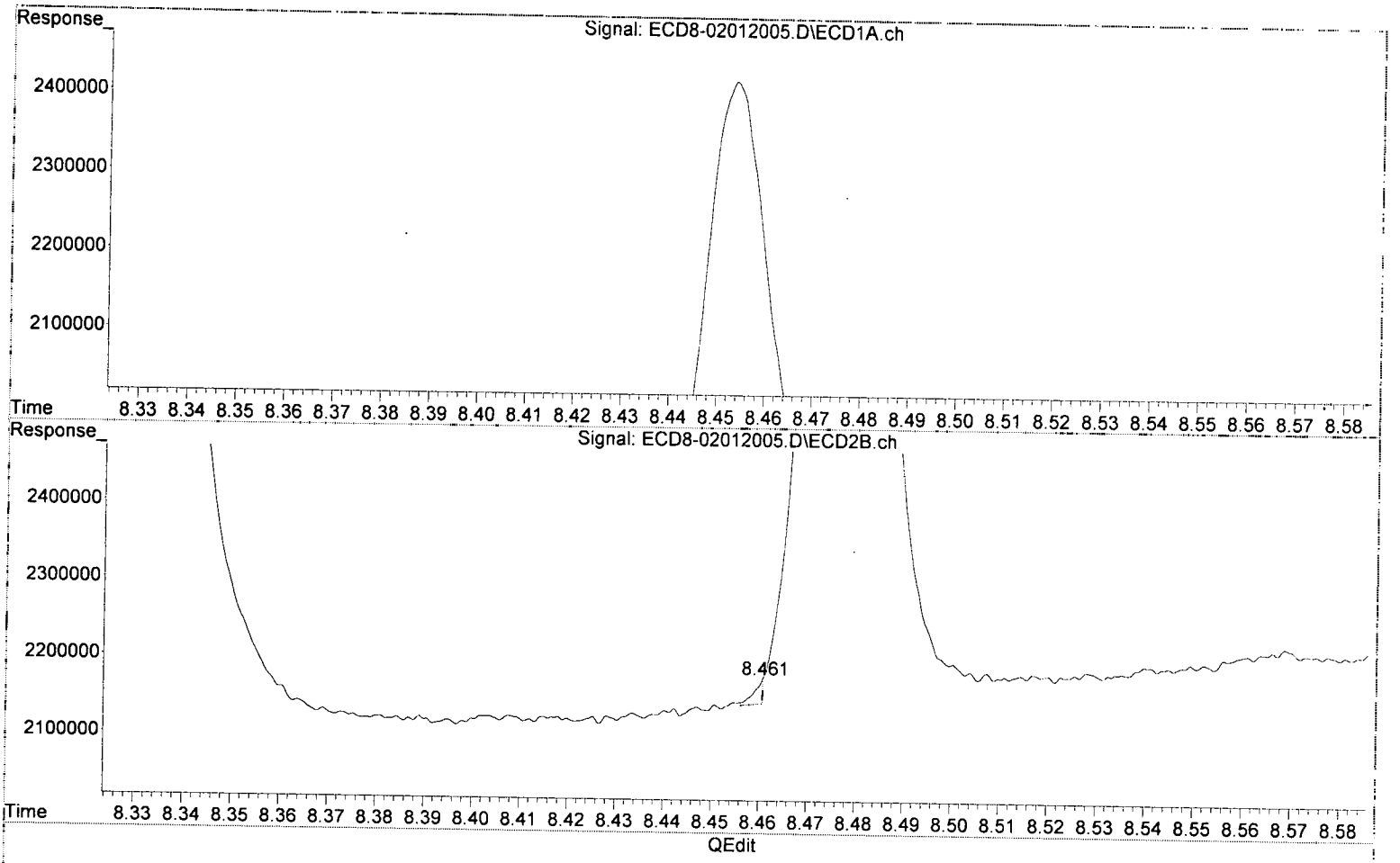


R = 5.10e+003 A*A + 3.50e+006 A - 1.13e+005
Coef of Det (r^2) = 0.997 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

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

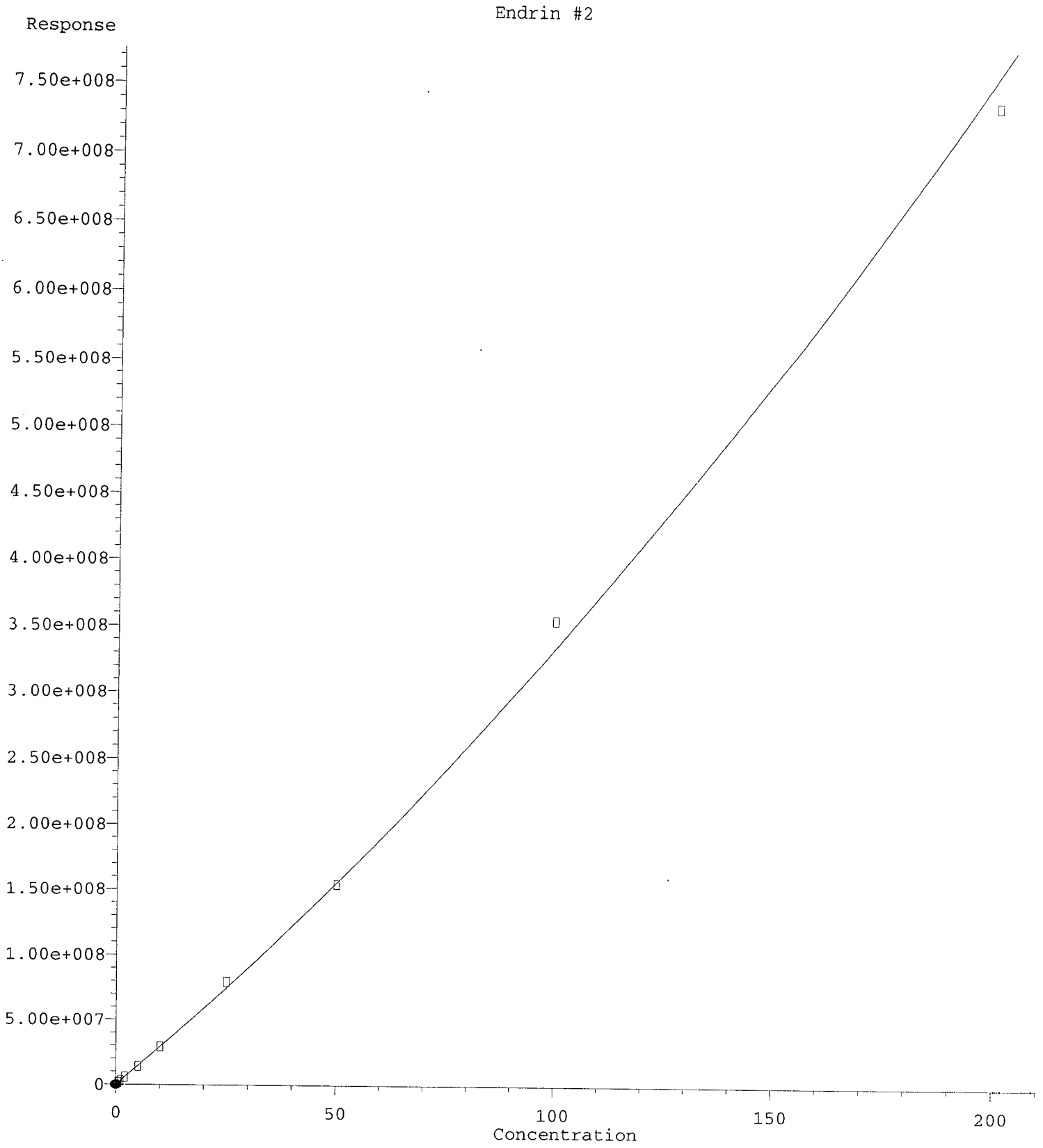
MJB 2/3/20

(13) Dieldrin #2

8.461min 0.041 ng/mL (m)

response 30875

(+) = Expected Retention Time

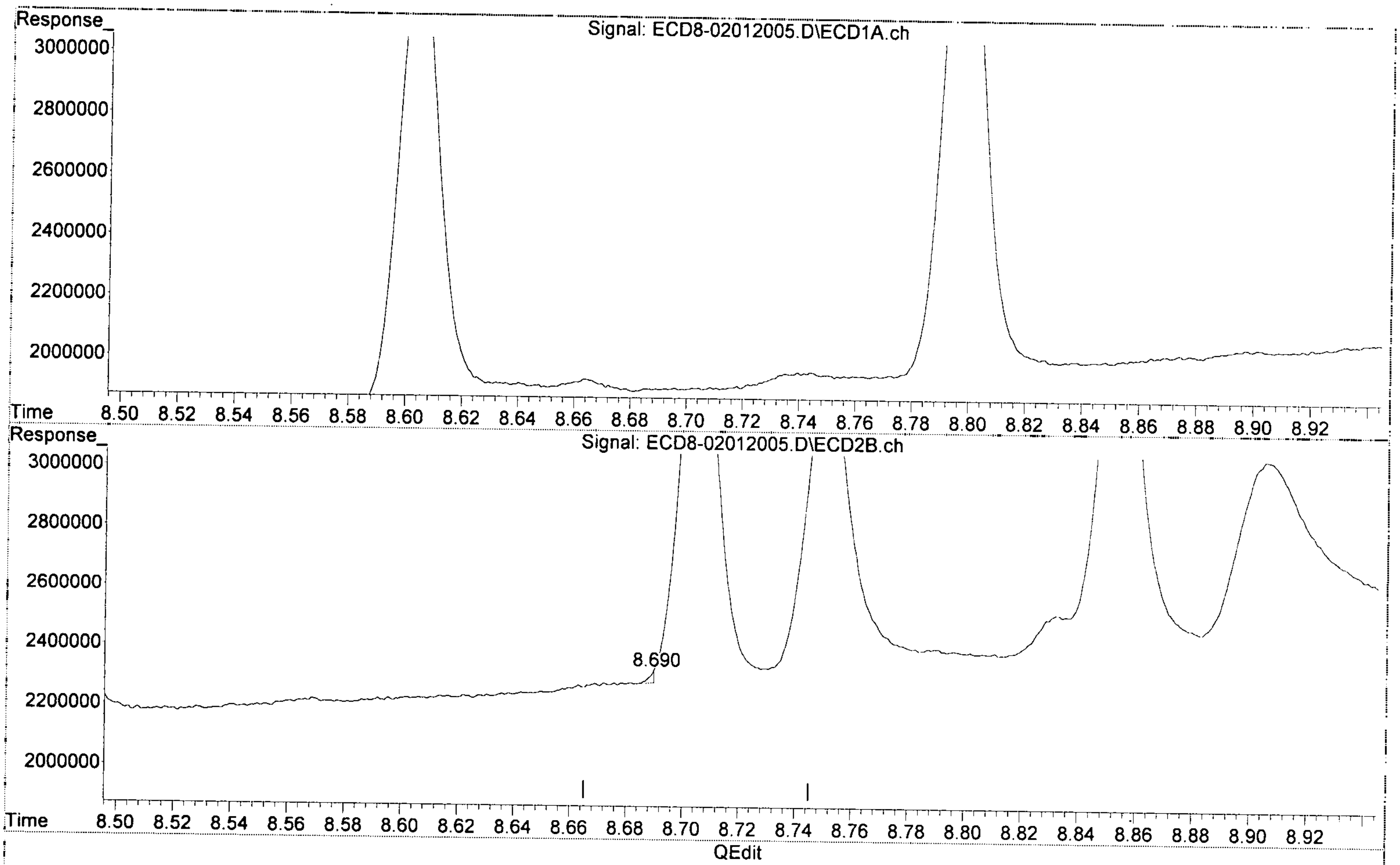


R = 4.68e+003 A*A + 2.87e+006 A + 2.17e+004
Coef of Det (r^2) = 0.998 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

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

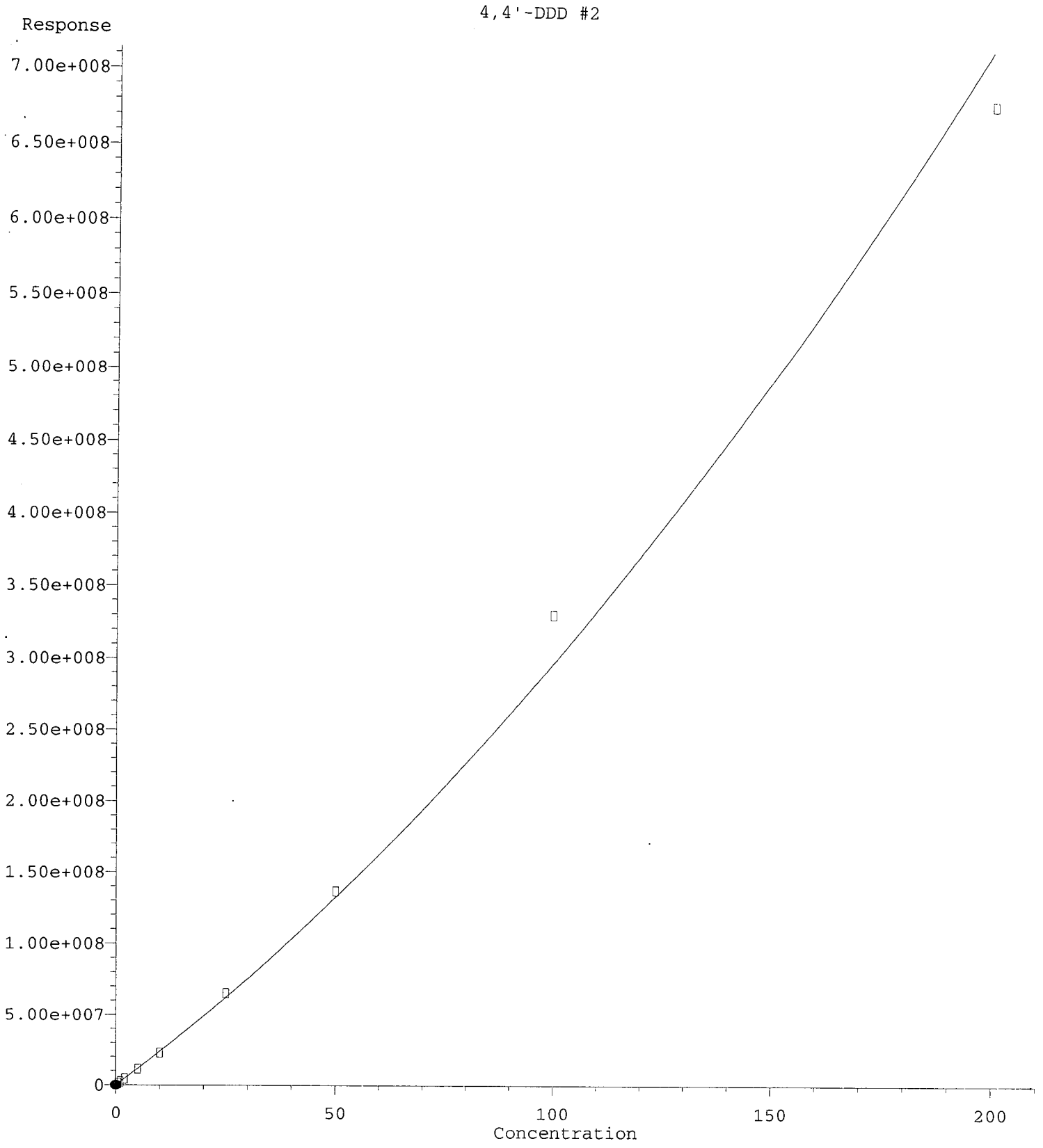
MJB 2/3/20

(14) Endrin #2

8.690min 0.007 ng/mL (m)

response 40887

(+) = Expected Retention Time

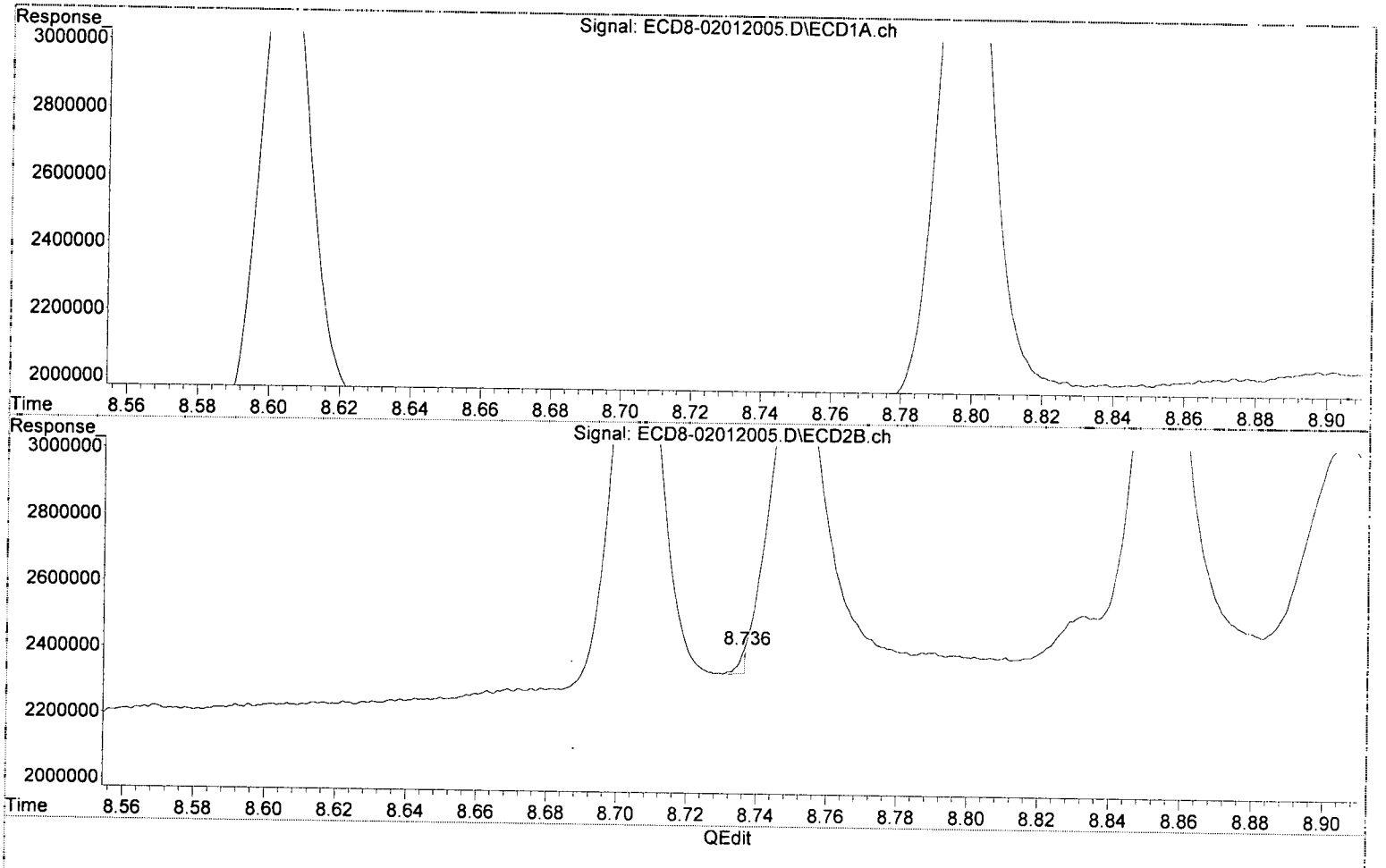


R = 6.31e+003 A*A + 2.33e+006 A - 1.00e+005
Coef of Det (r^2) = 0.995 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

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

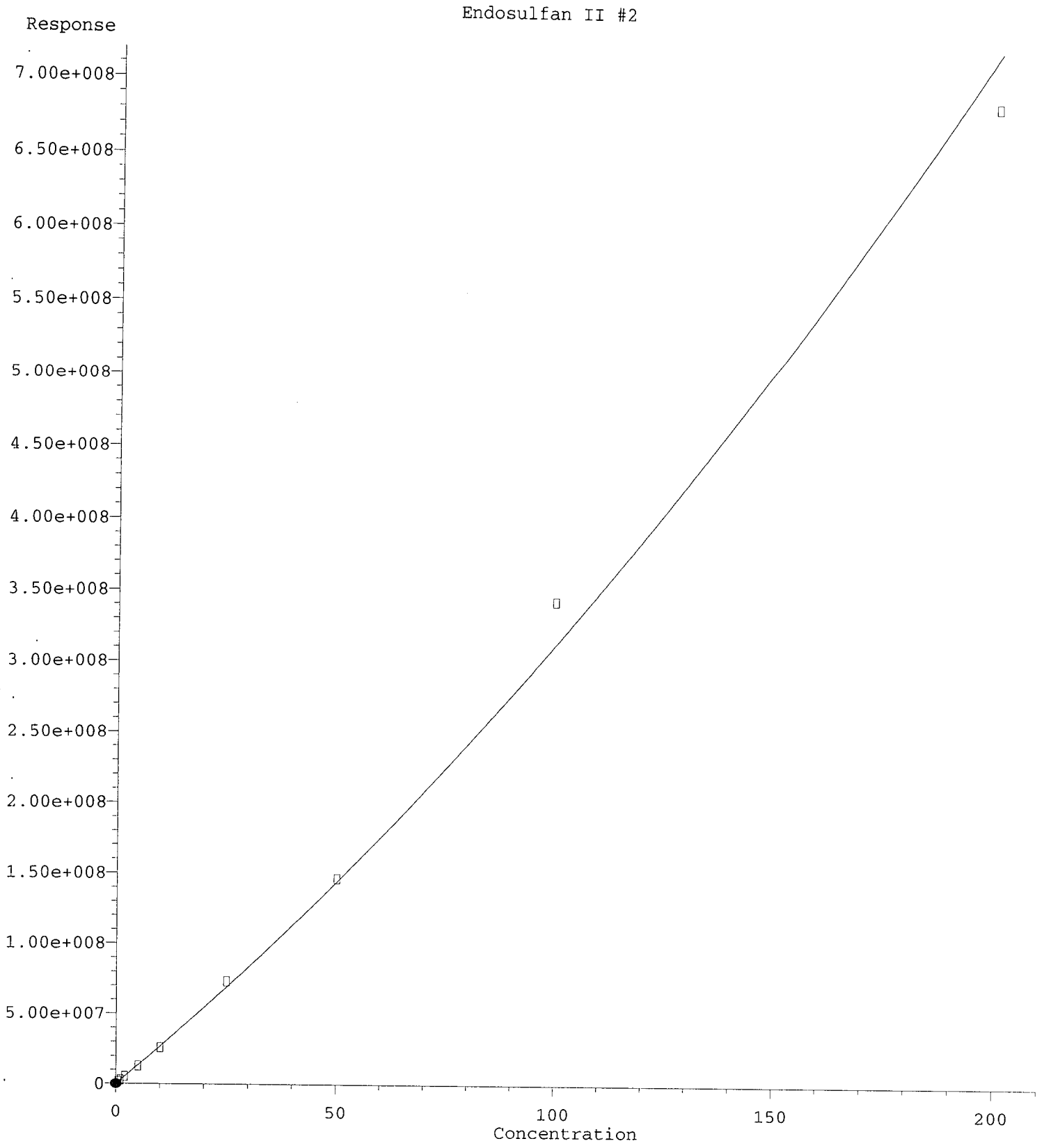
MWB 2/3/20

(15) 4,4'-DDD #2

8.736min 0.075 ng/mL (m)

response 74855

(+) = Expected Retention Time

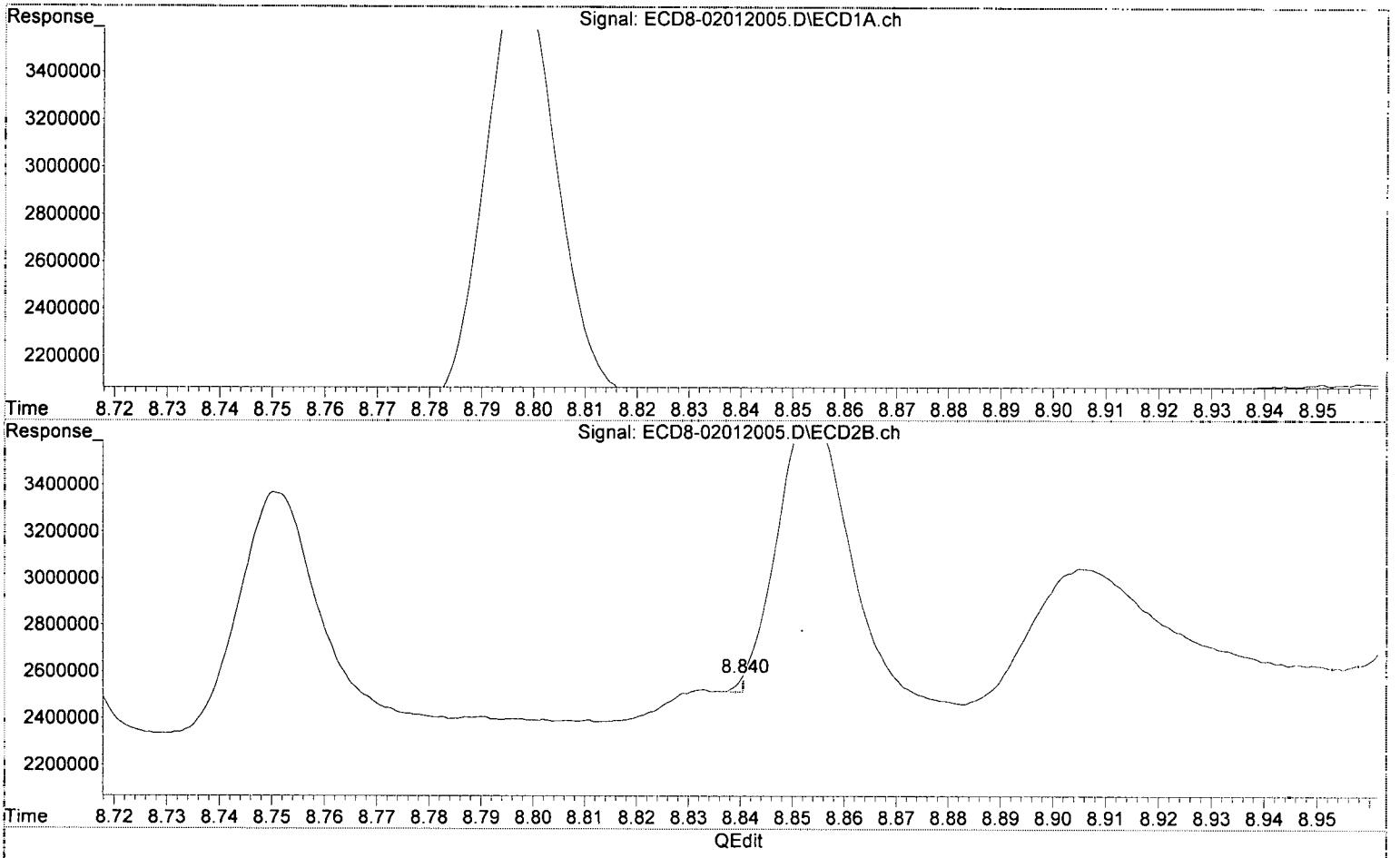


R = 4.81e+003 A*A + 2.64e+006 A + 8.03e+004
Coef of Det (r^2) = 0.996 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

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

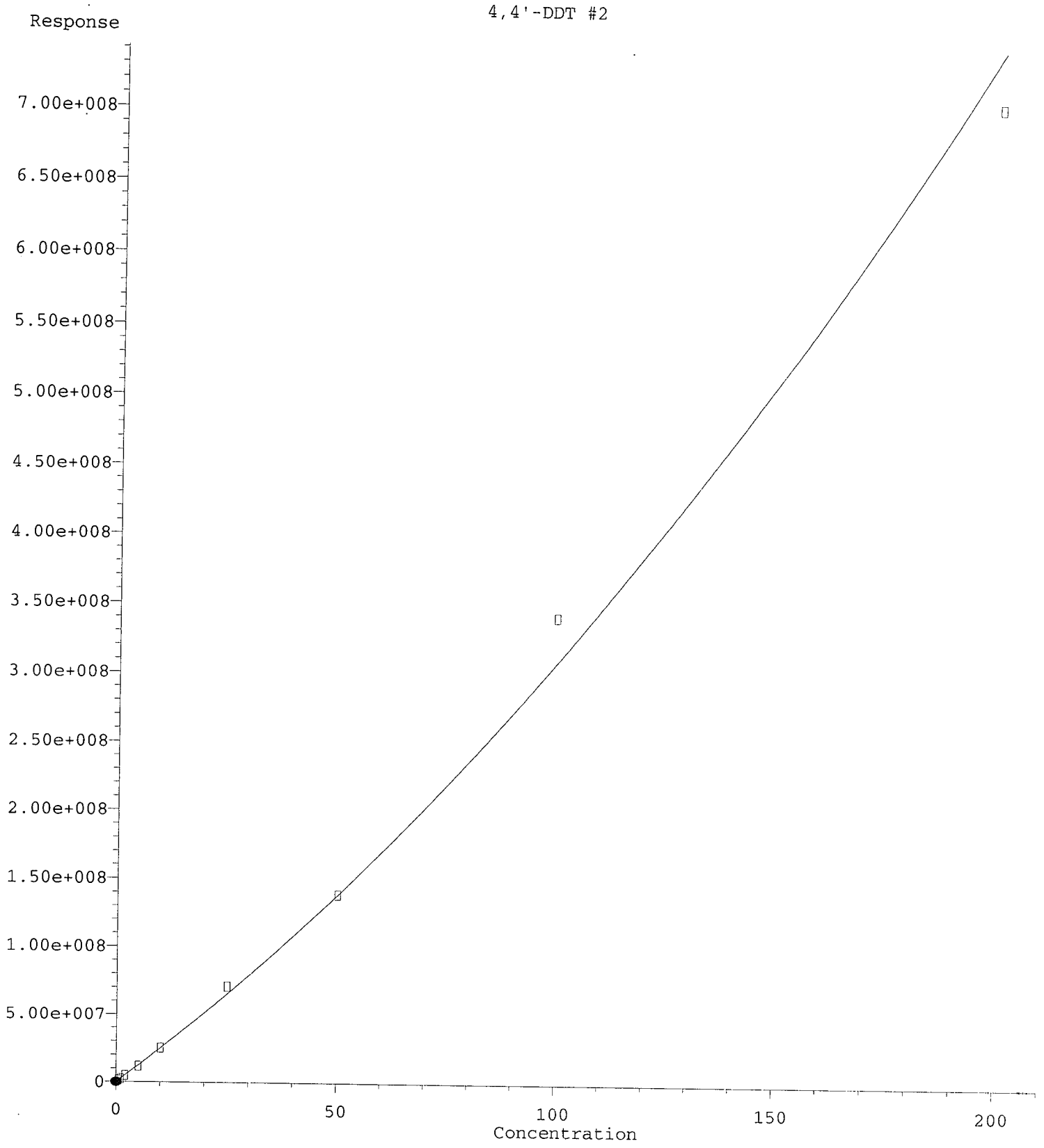
MJ 2/3/20

(16) Endosulfan II #2

8.840min -0.006 ng/mL m

response 64183

(+) = Expected Retention Time

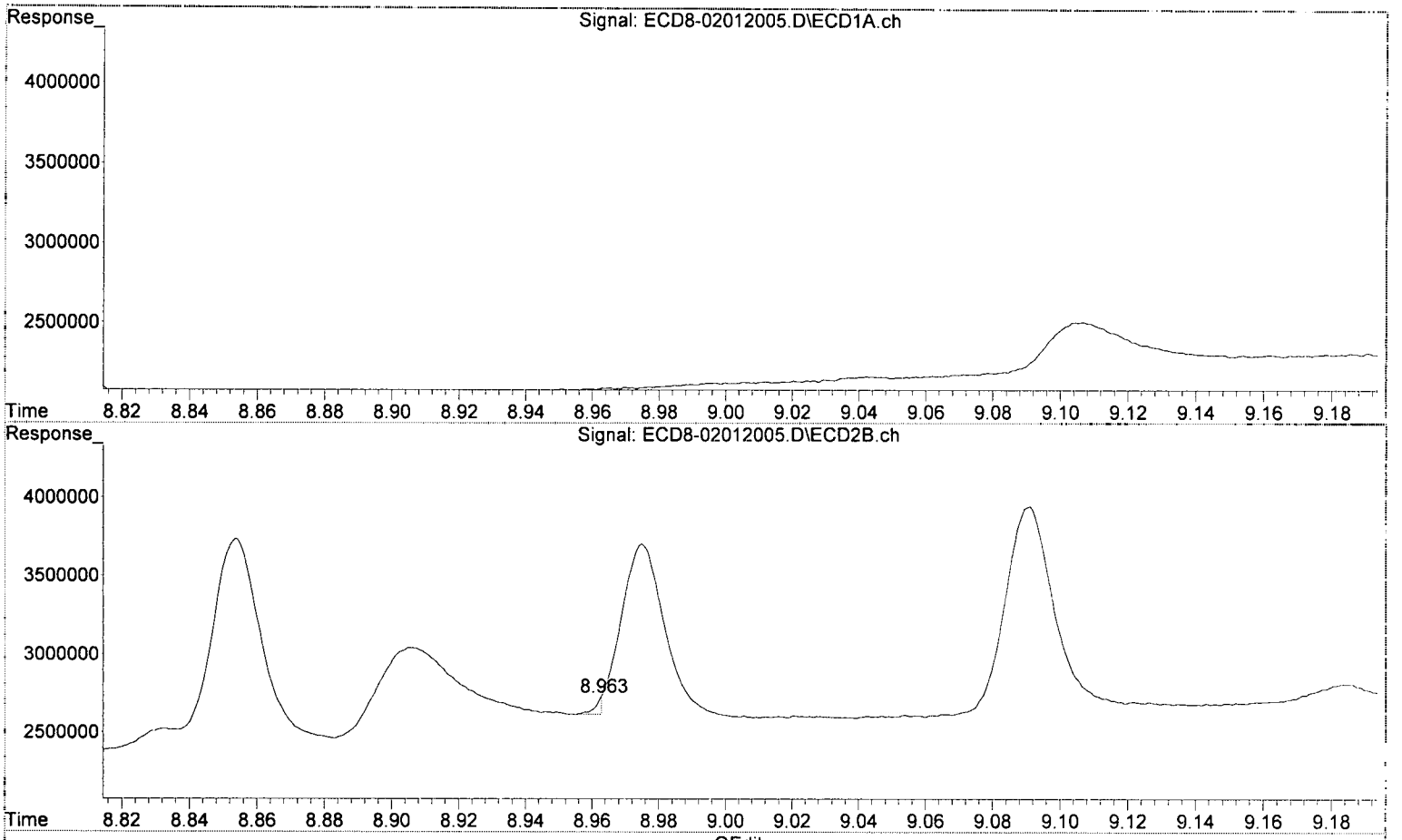


R = 6.32e+003 A*A + 2.45e+006 A + 6.29e+004
Coef of Det (r^2) = 0.994 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

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

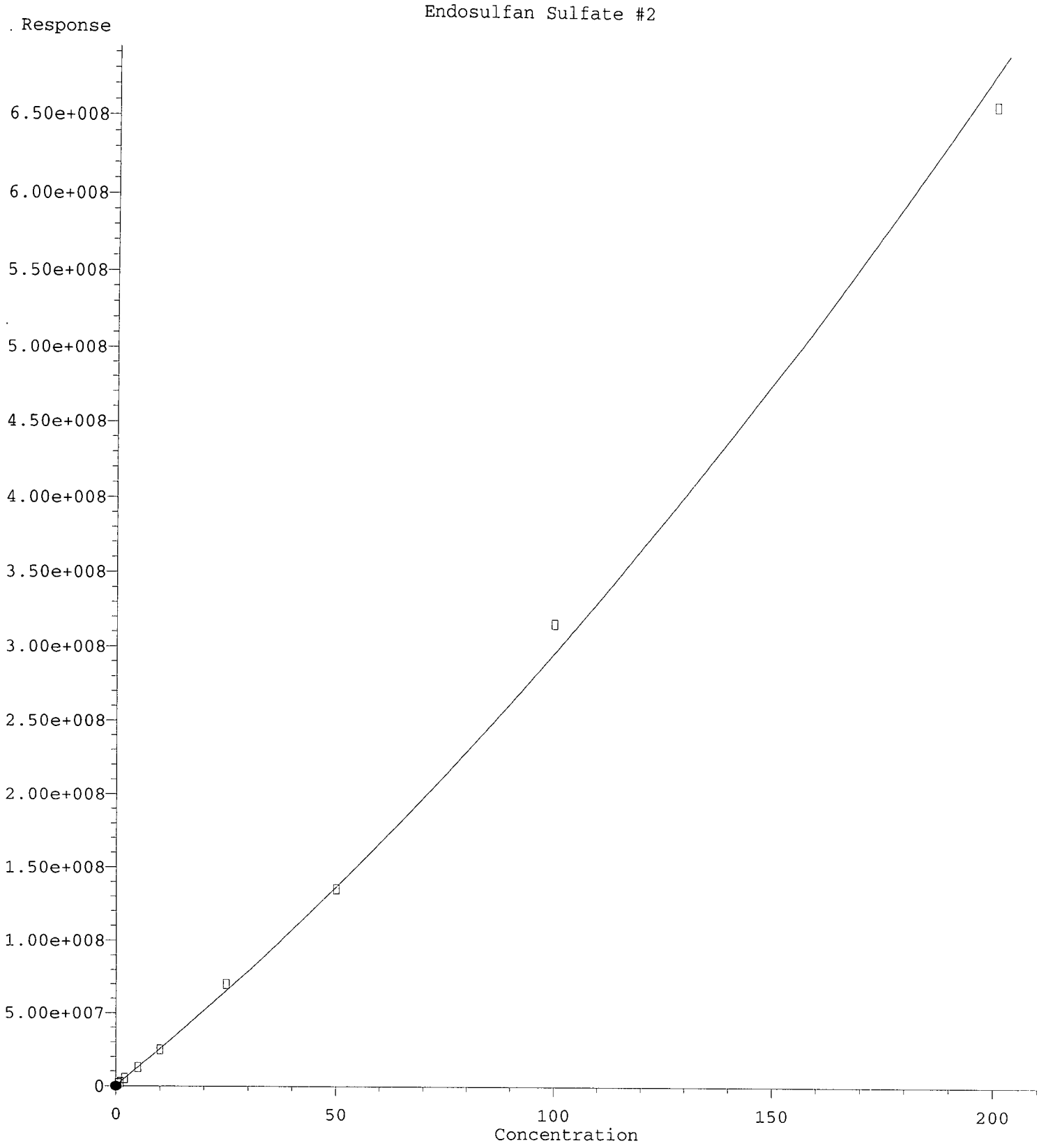
MJB 2/3/20

(17) 4,4'-DDT #2

8.963min 0.021 ng/mL (m)

response 113728

(+) = Expected Retention Time

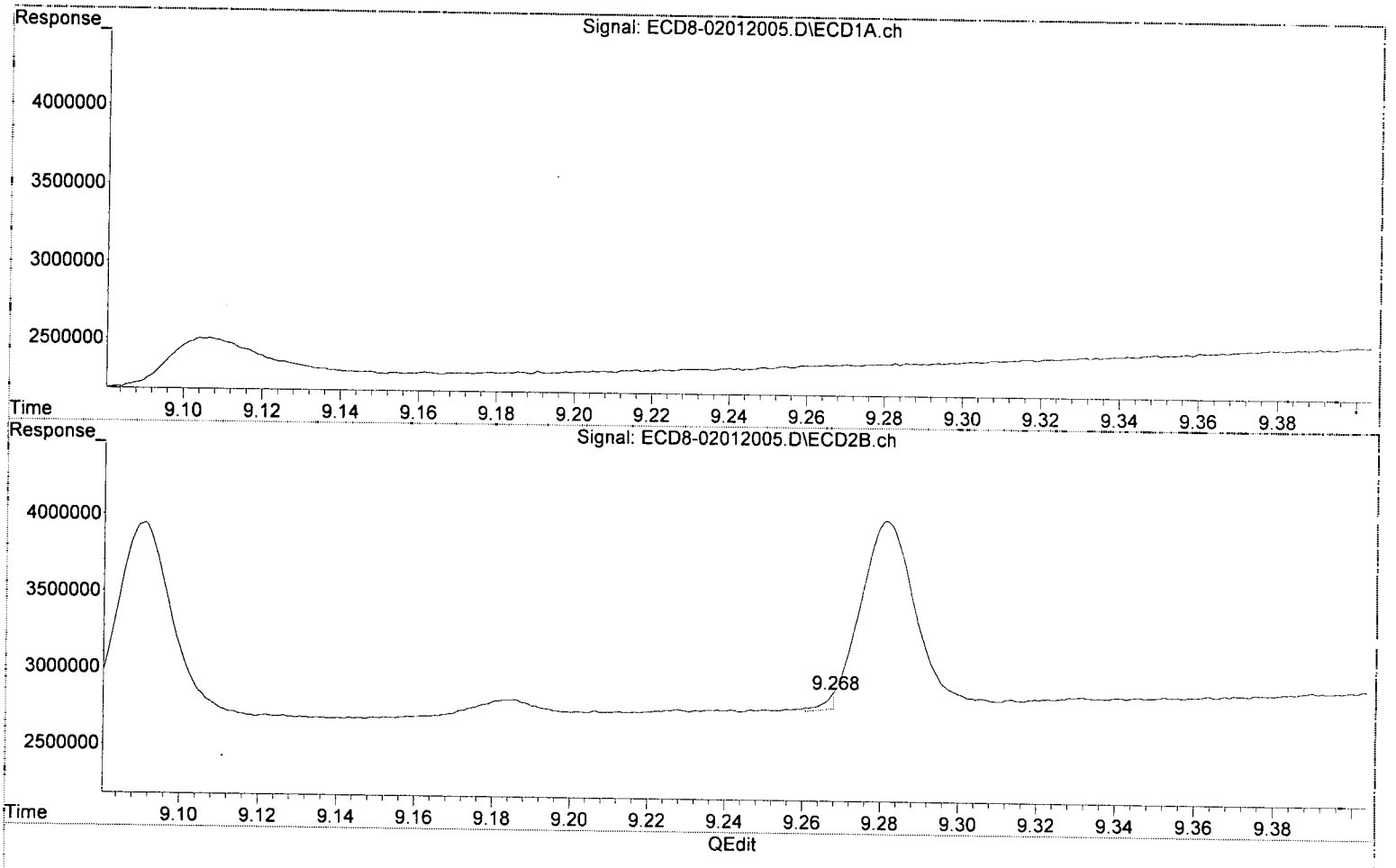


R = 4.57e+003 A*A + 2.50e+006 A + 2.22e+005
Coef of Det (r^2) = 0.997 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

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

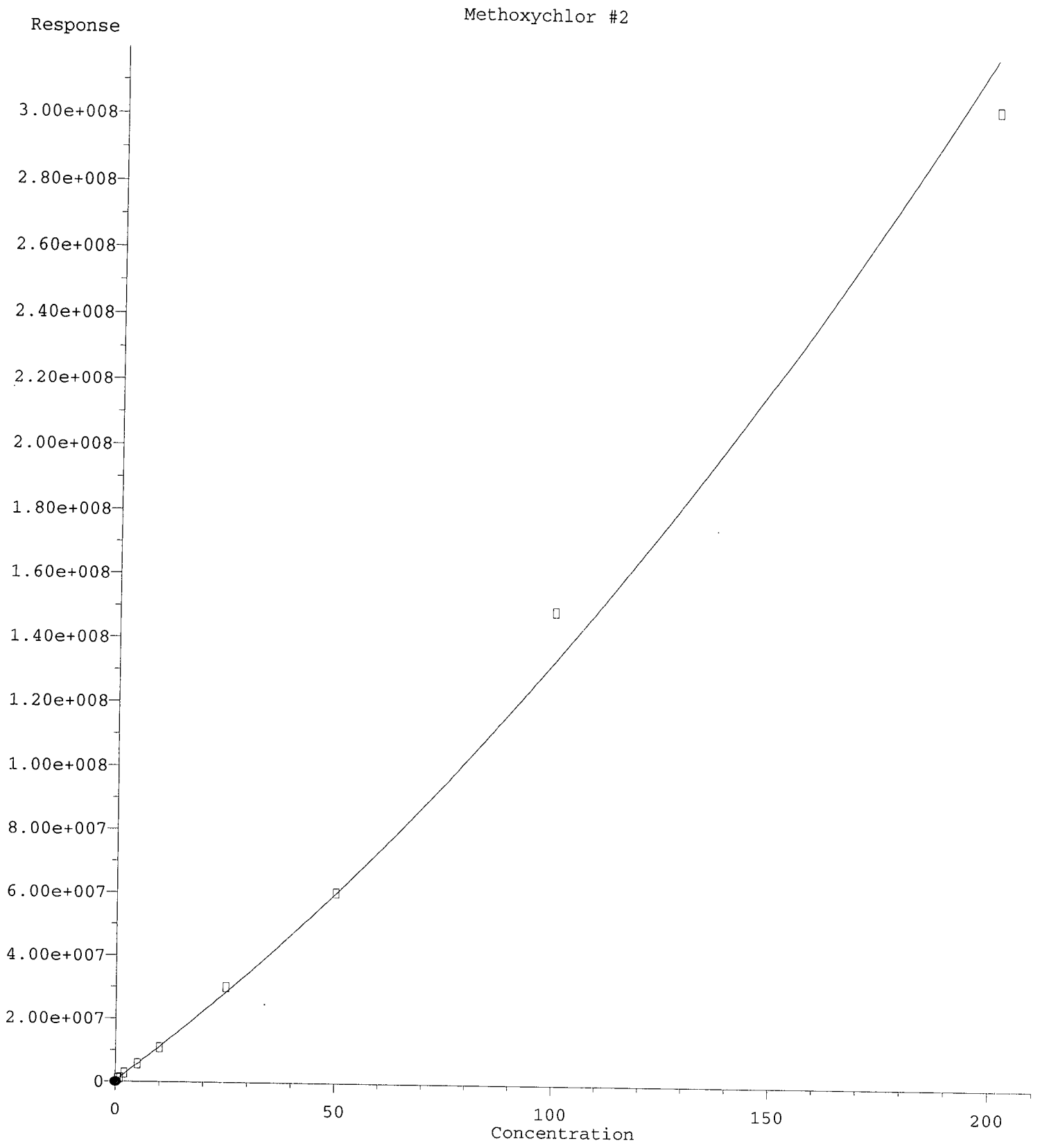
MJB 2/3/20

(19) Endosulfan Sulfate #2

9.268min -0.049 ng/mL (m)

response 99158

(+) = Expected Retention Time

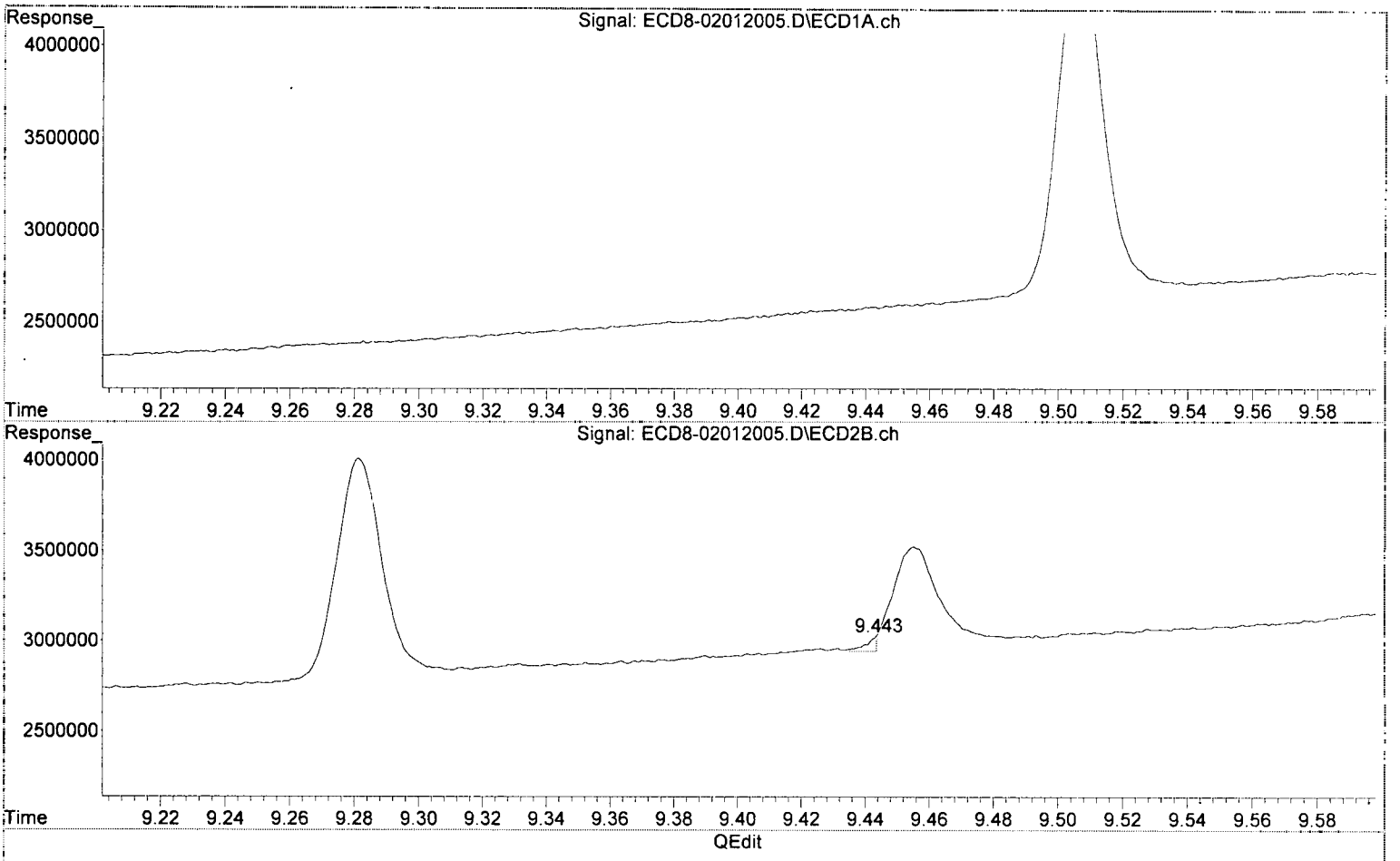


R = 2.73e+003 A*A + 1.06e+006 A + 3.97e+005
Coef of Det (r^2) = 0.988 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

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

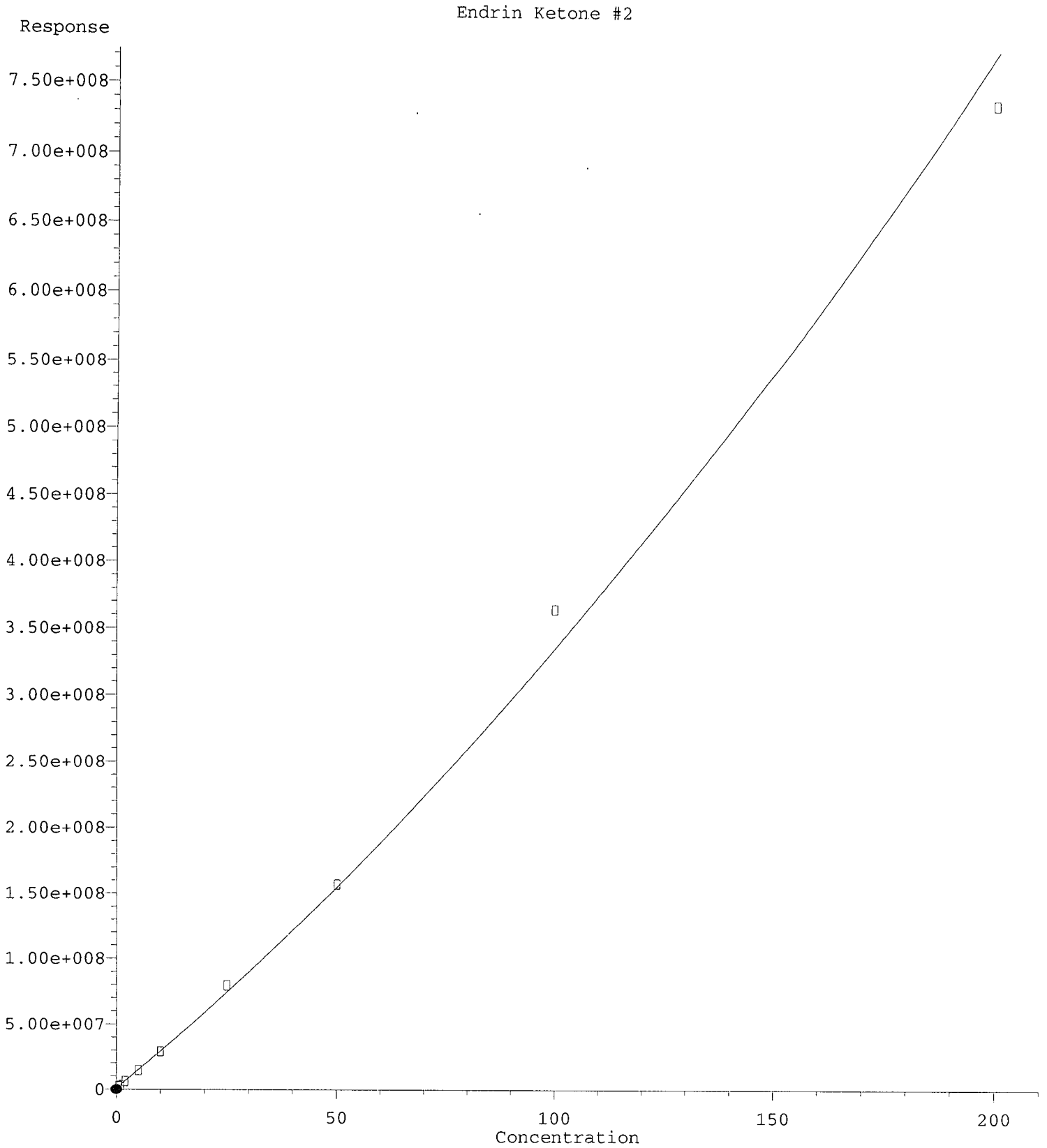
MJB 2/3/20

(20) Methoxychlor #2

9.443min -0.297 ng/mL m

response 82761

(+) = Expected Retention Time

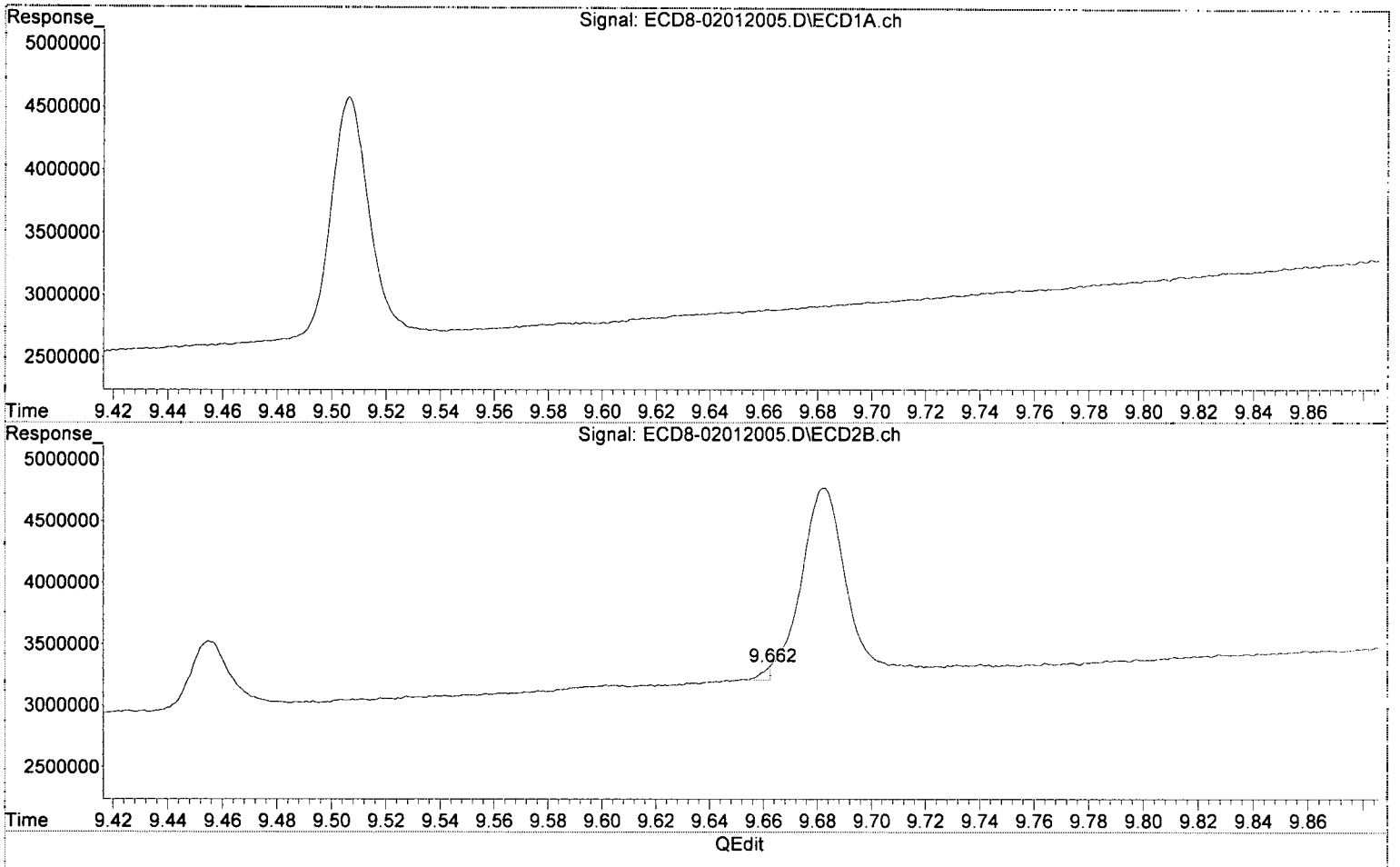


R = 5.21e+003 A*A + 2.82e+006 A + 6.29e+005
Coef of Det (r^2) = 0.995 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

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

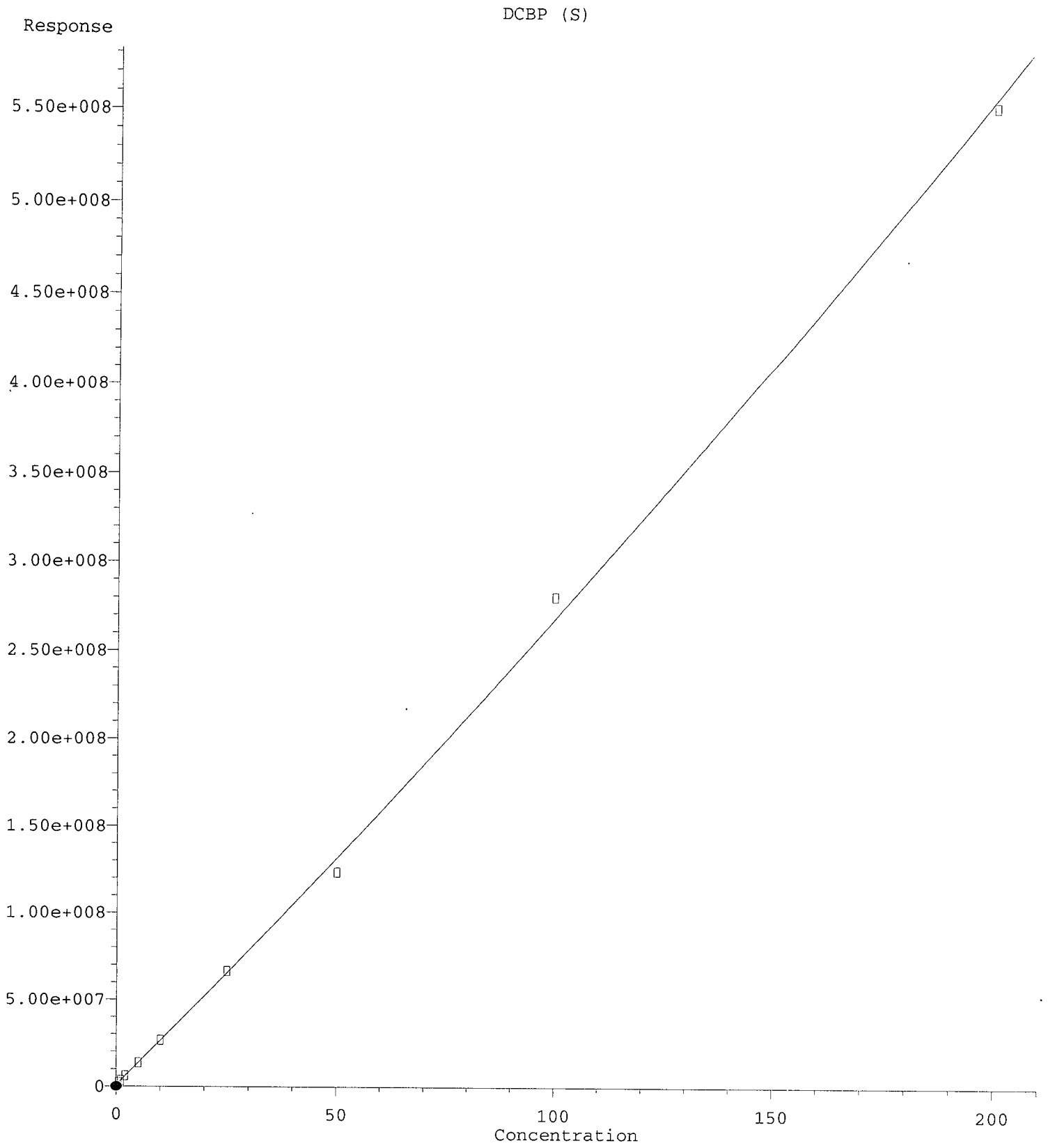
MJB 2/3/20

(21) Endrin Ketone #2

9.662min -0.183 ng/mL (m)

response 113206

(+) = Expected Retention Time

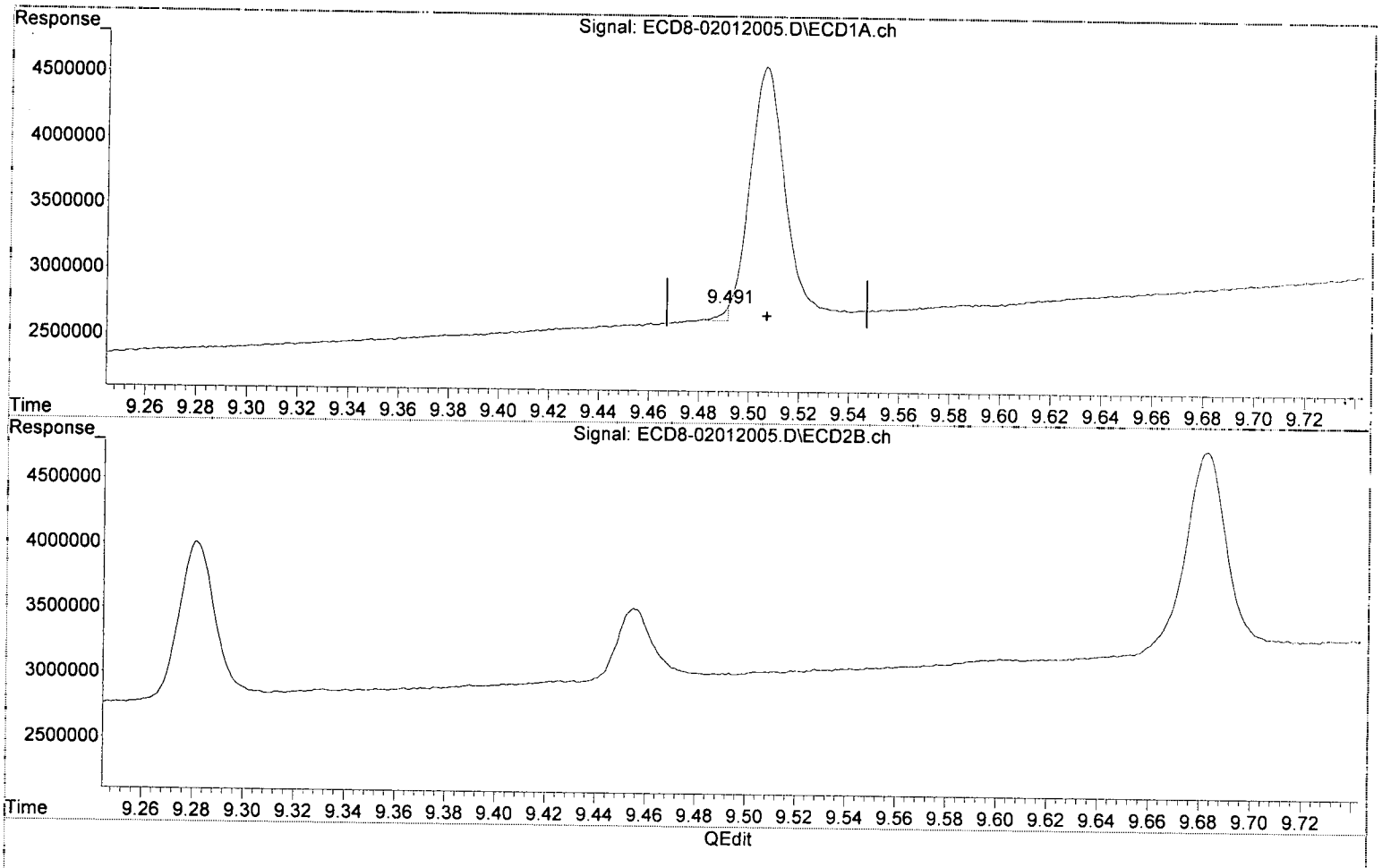


R = 1.20e+003 A*A + 2.55e+006 A + 8.55e+005
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

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

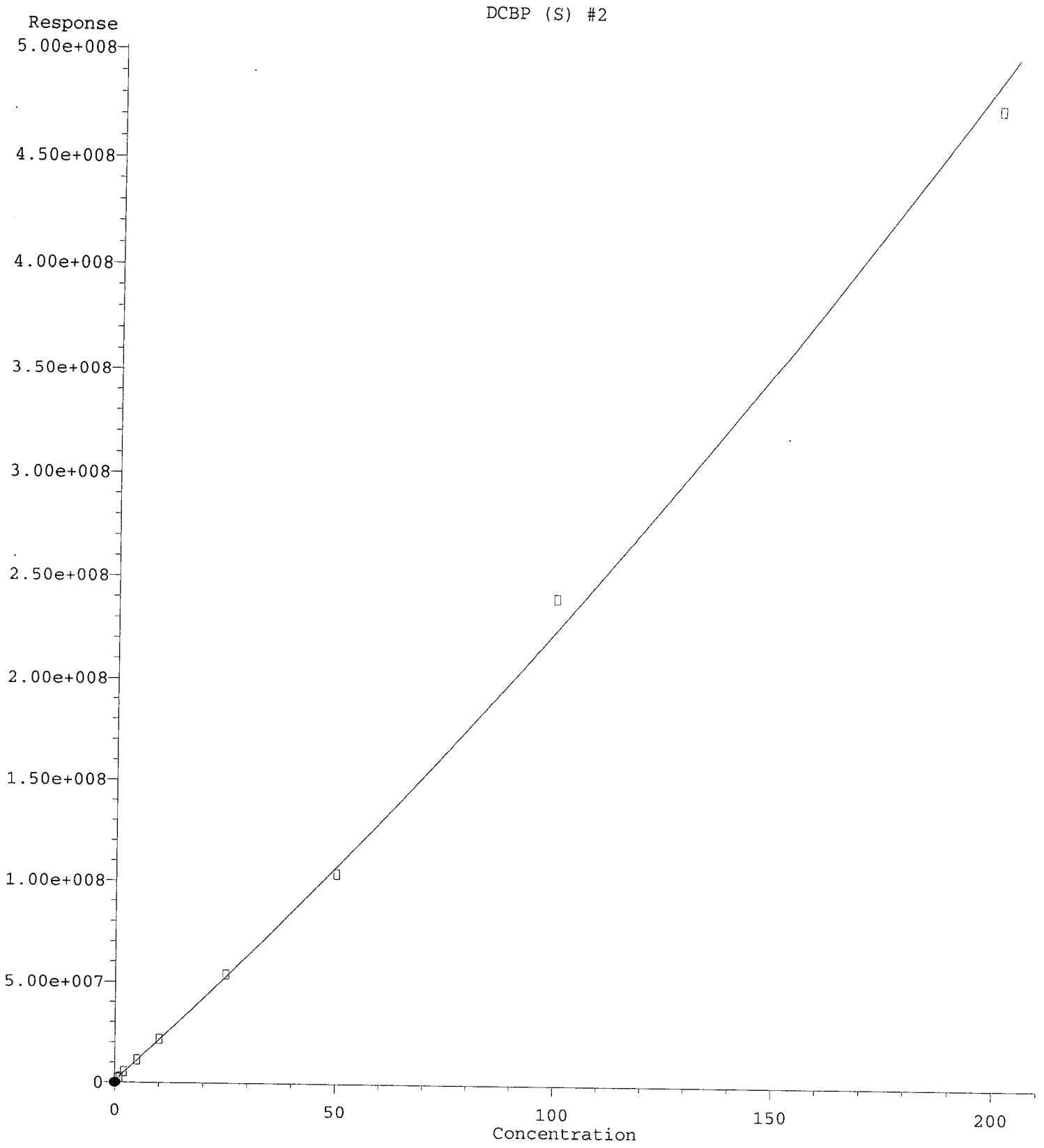
MJB 4/8/20

(22) DCBP (S) #2 (S)

10.537min 0.543 ng/mL

response 2121210

(+) = Expected Retention Time

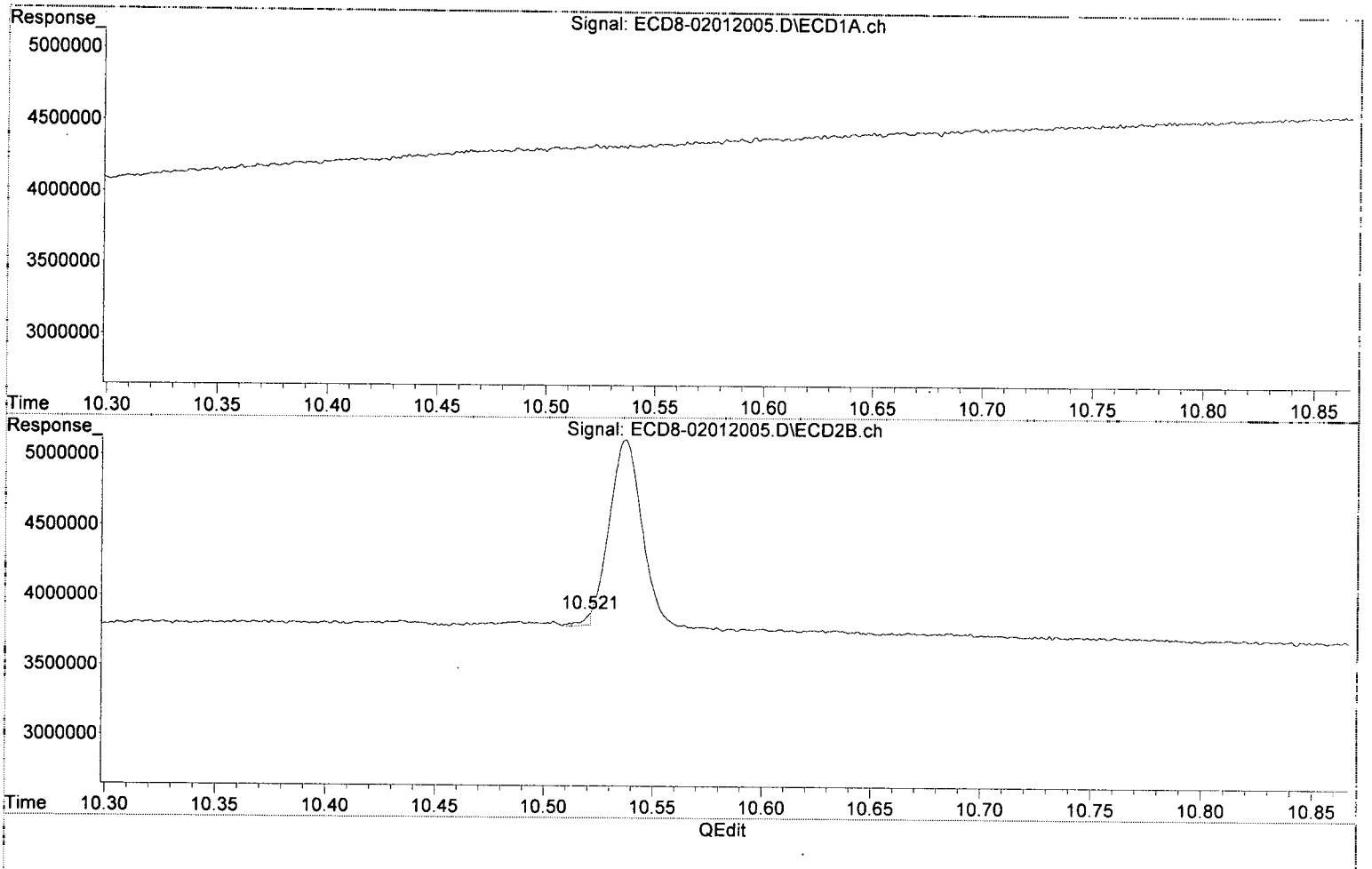


R = 2.17e+003 A*A + 2.02e+006 A + 1.03e+006
Coef of Det (r^2) = 0.991 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

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

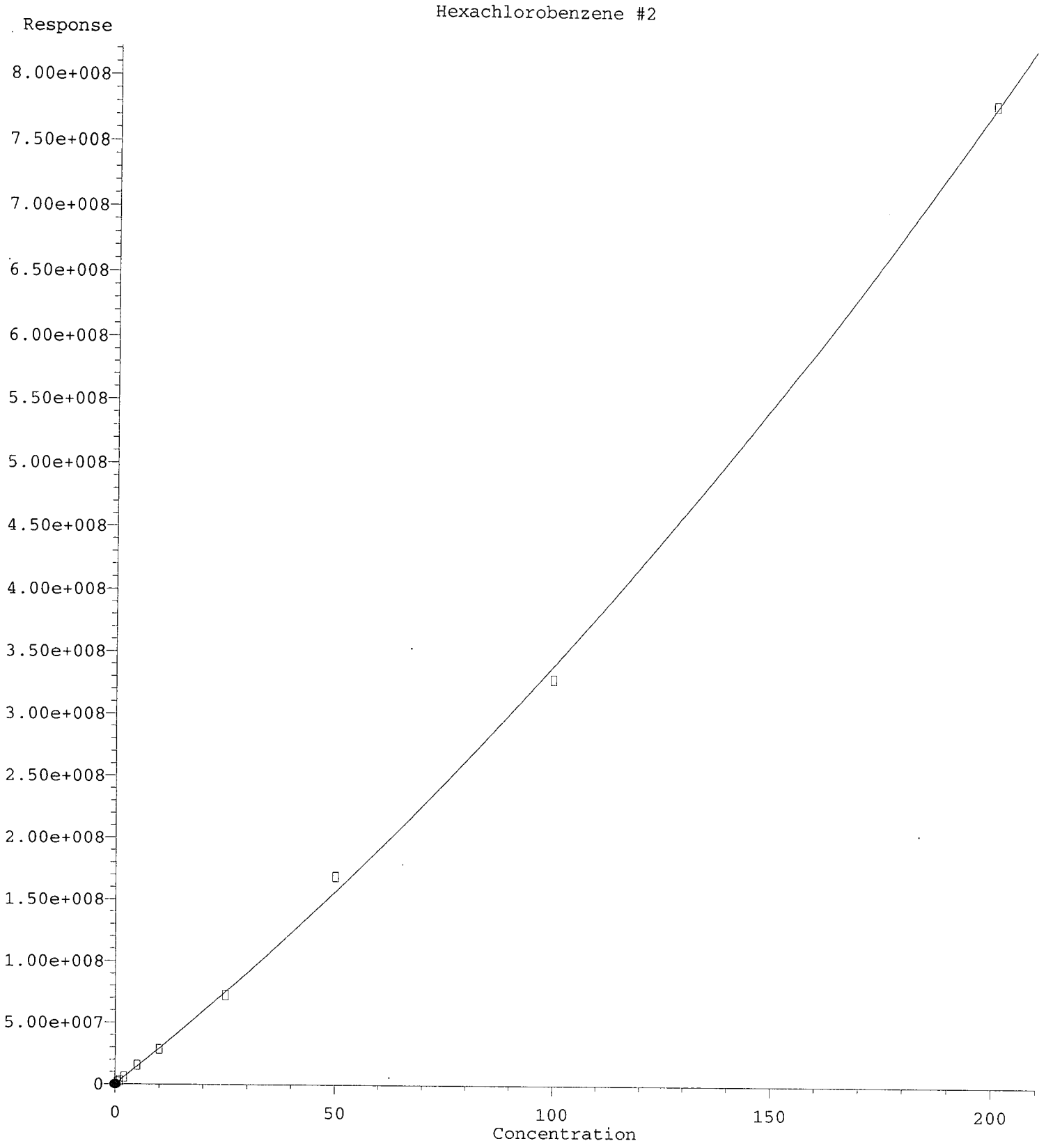
MJB 2/3/20

(22) DCBP (S) #2 (S)

10.521min -0.468 ng/mL (m)

response 82061

(+) = Expected Retention Time

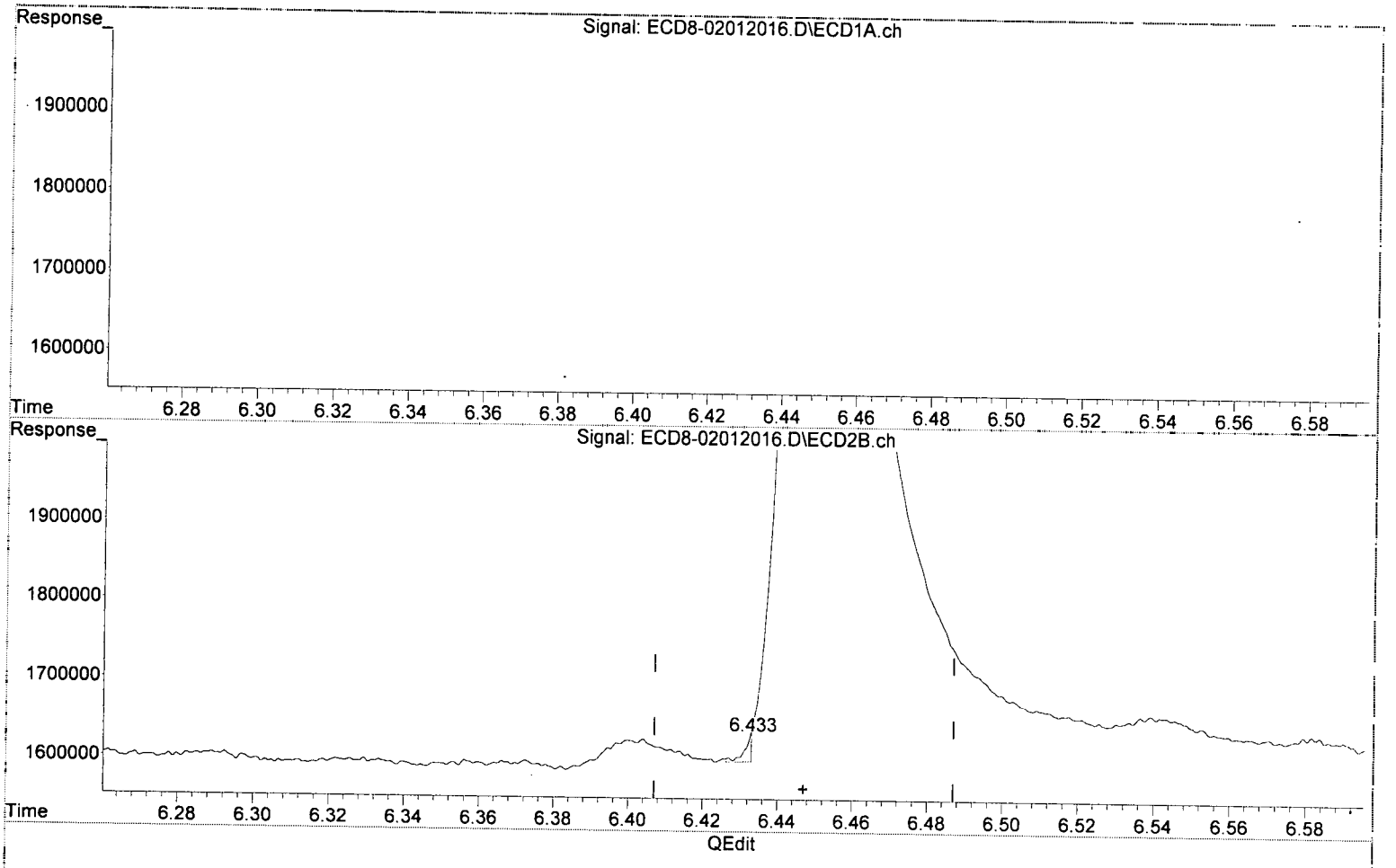


R = 5.17e+003 A*A + 2.87e+006 A + 1.57e+005
Coef of Det (r^2) = 0.998 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

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

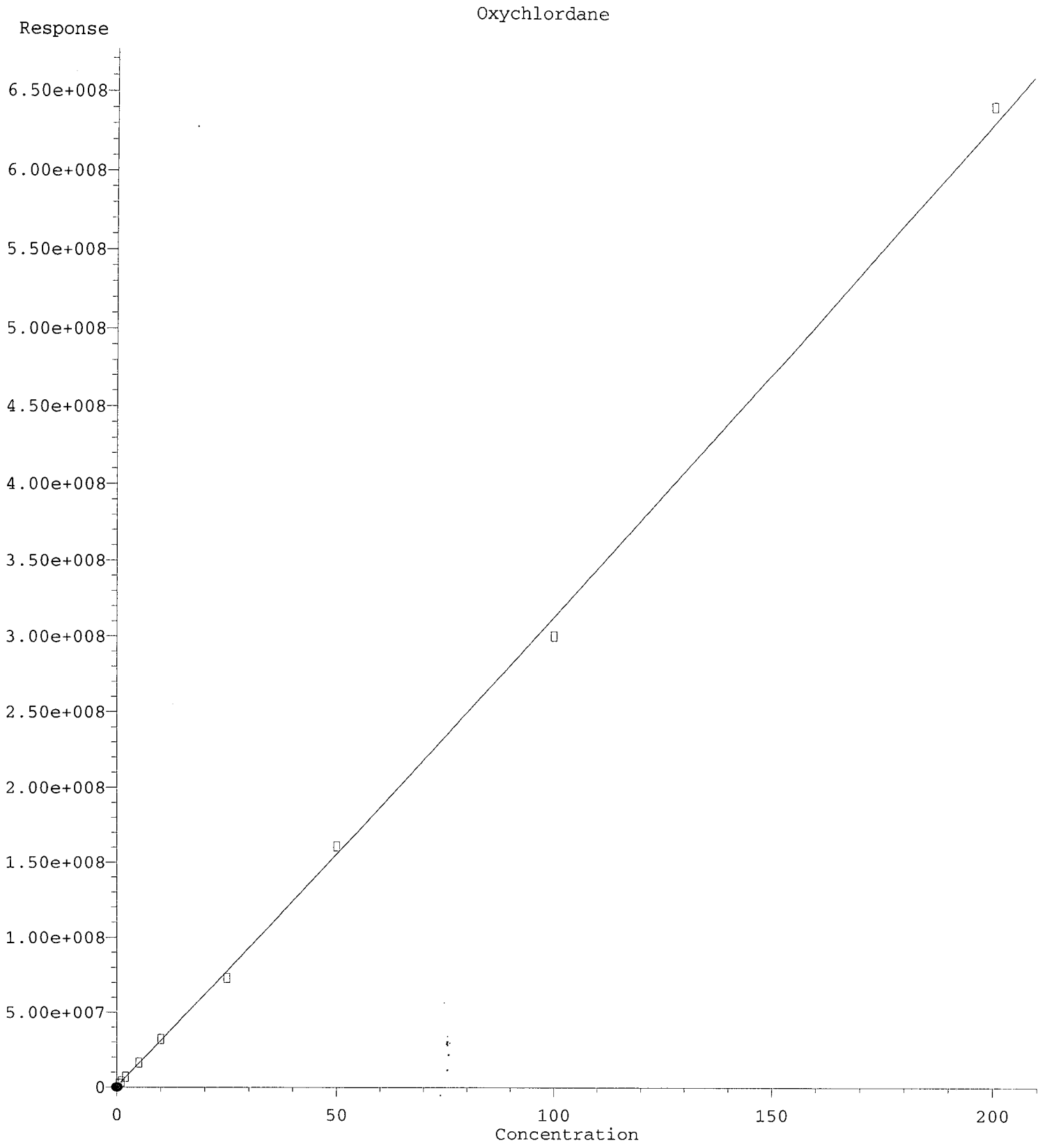
MJB 2/3/20

(24) Hexachlorobenzene #2

6.433min -0.043 ng/mL (m)

response 32864

(+) = Expected Retention Time

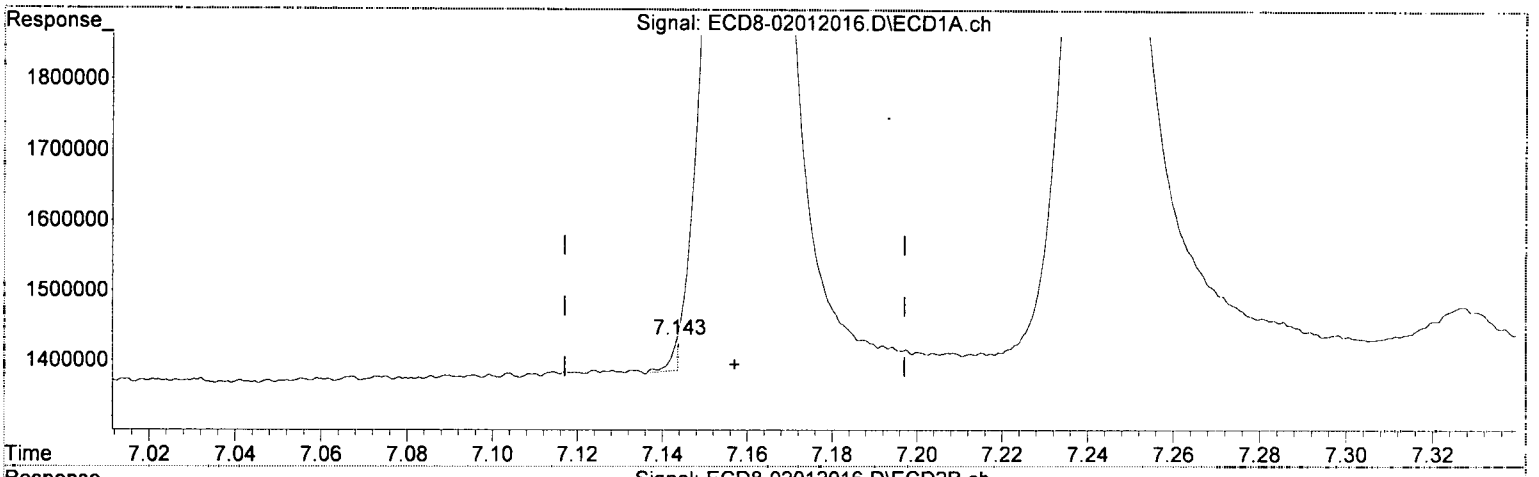


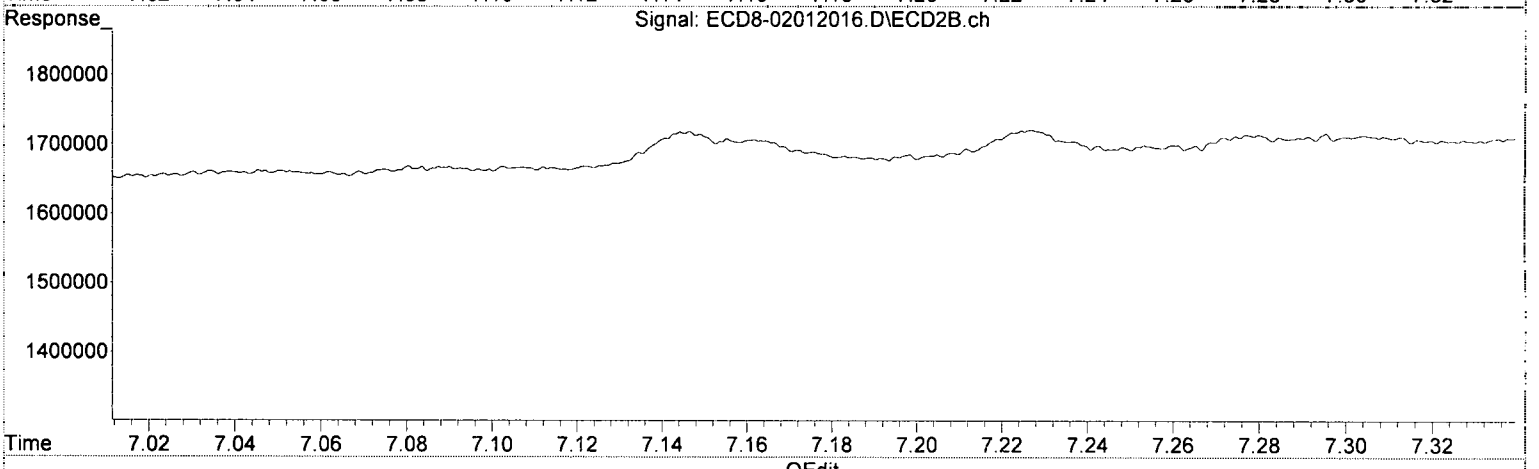
R = 4.64e+002 A*A + 3.07e+006 A + 5.52e+005
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

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

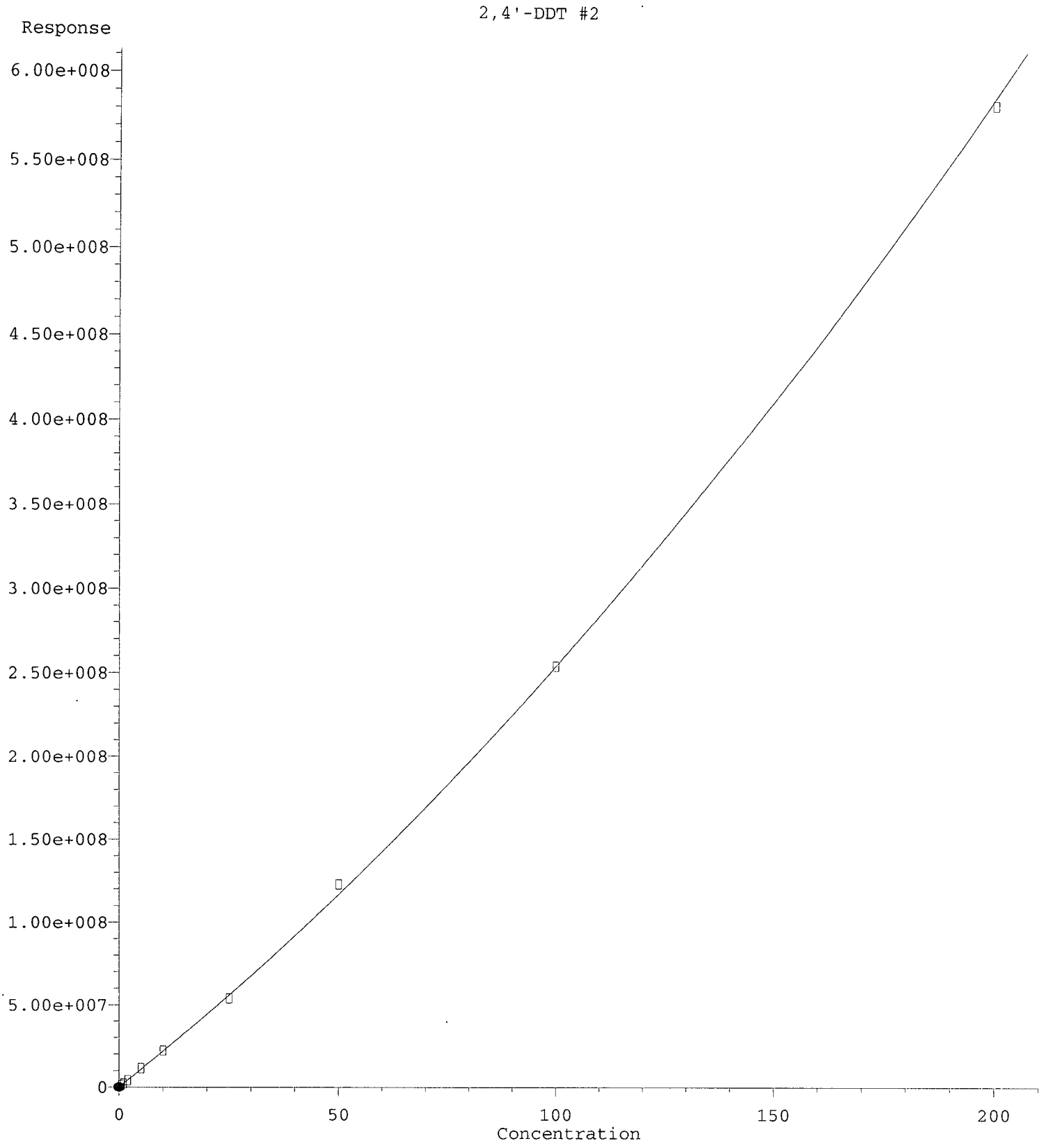
MJB 2/3/20

(25) Oxychlordane #2

7.908min 0.568 ng/mL

response 1817597

(+) = Expected Retention Time

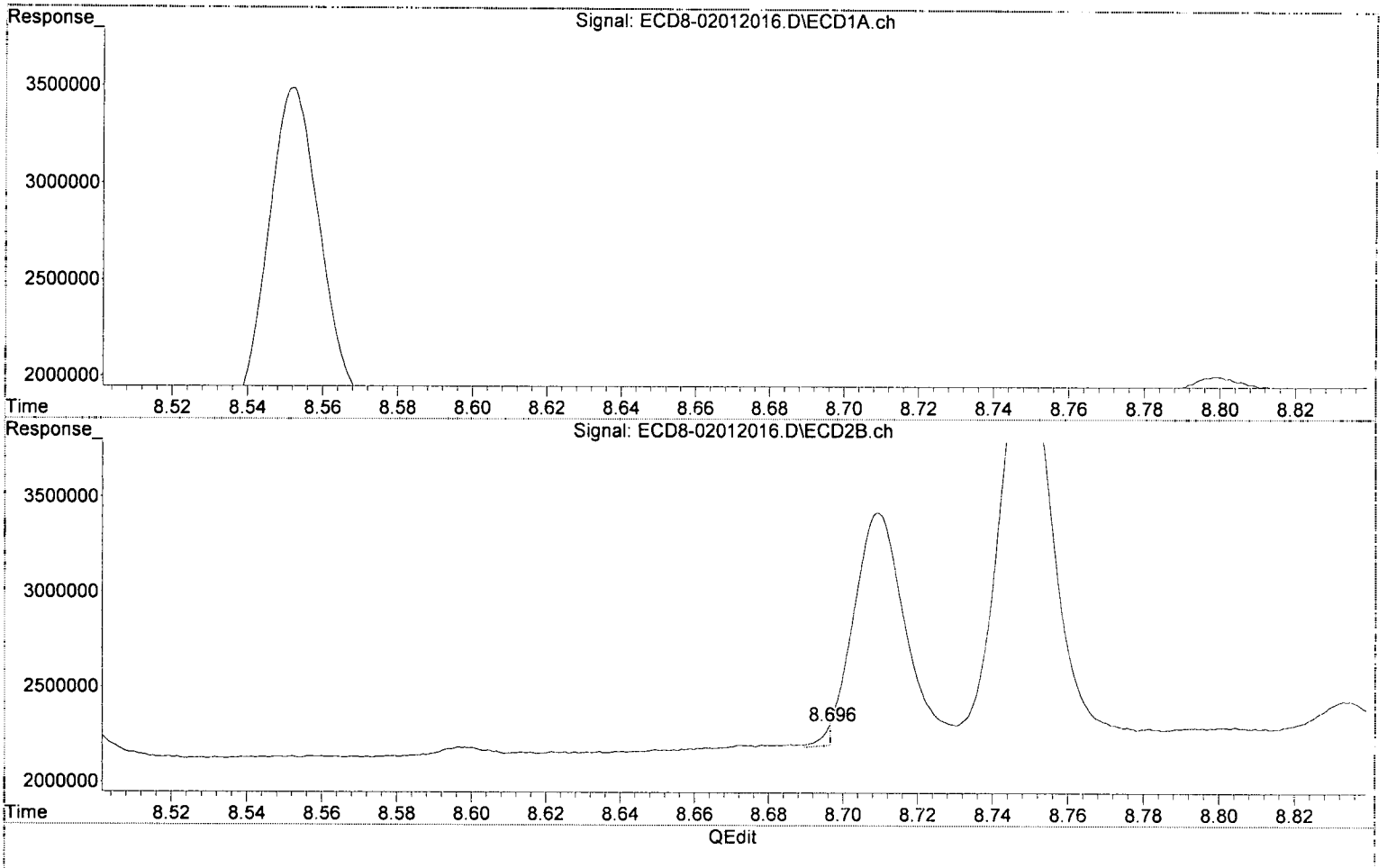


R = 4.06e+003 A*A + 2.13e+006 A + 1.05e+005
Coef of Det (r^2) = 0.998 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

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

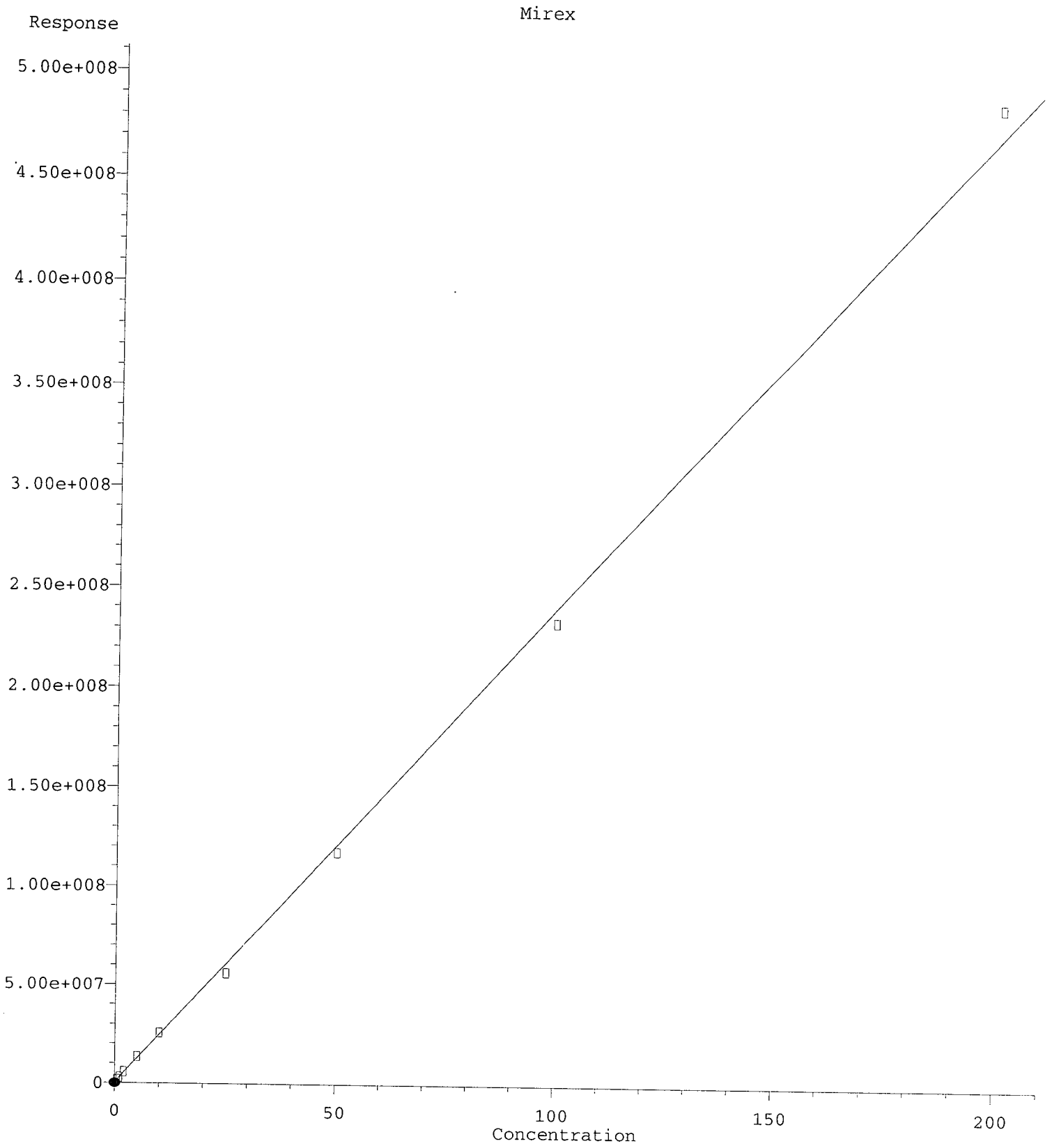
MJB 2/3/20

(29) 2,4'-DDT #2

8.696min -0.000 ng/mL (m)

response 104421

(+) = Expected Retention Time

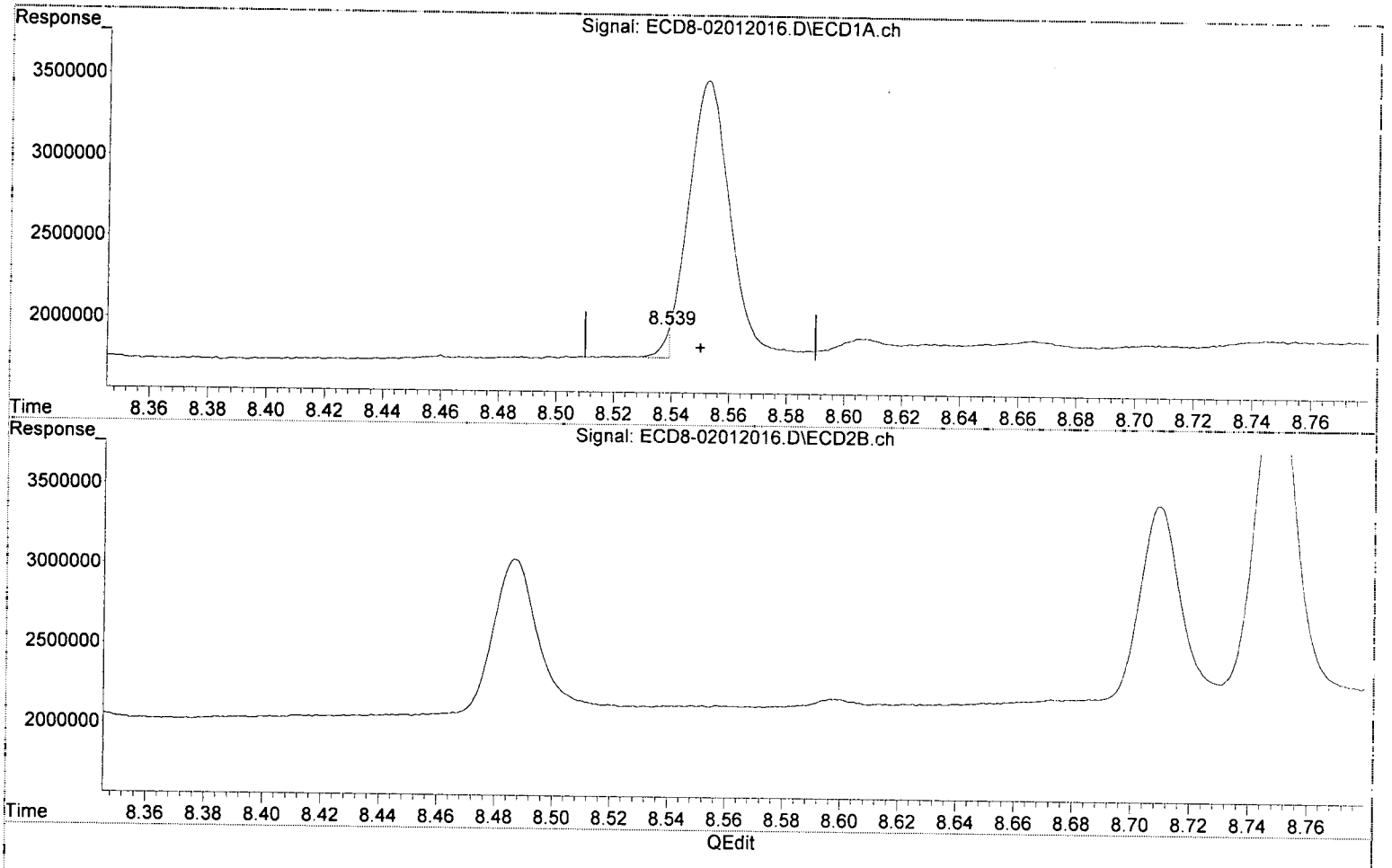


R = -2.95e+002 A*A + 2.42e+006 A + 5.00e+005
Coef of Det (r^2) = 0.997 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

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

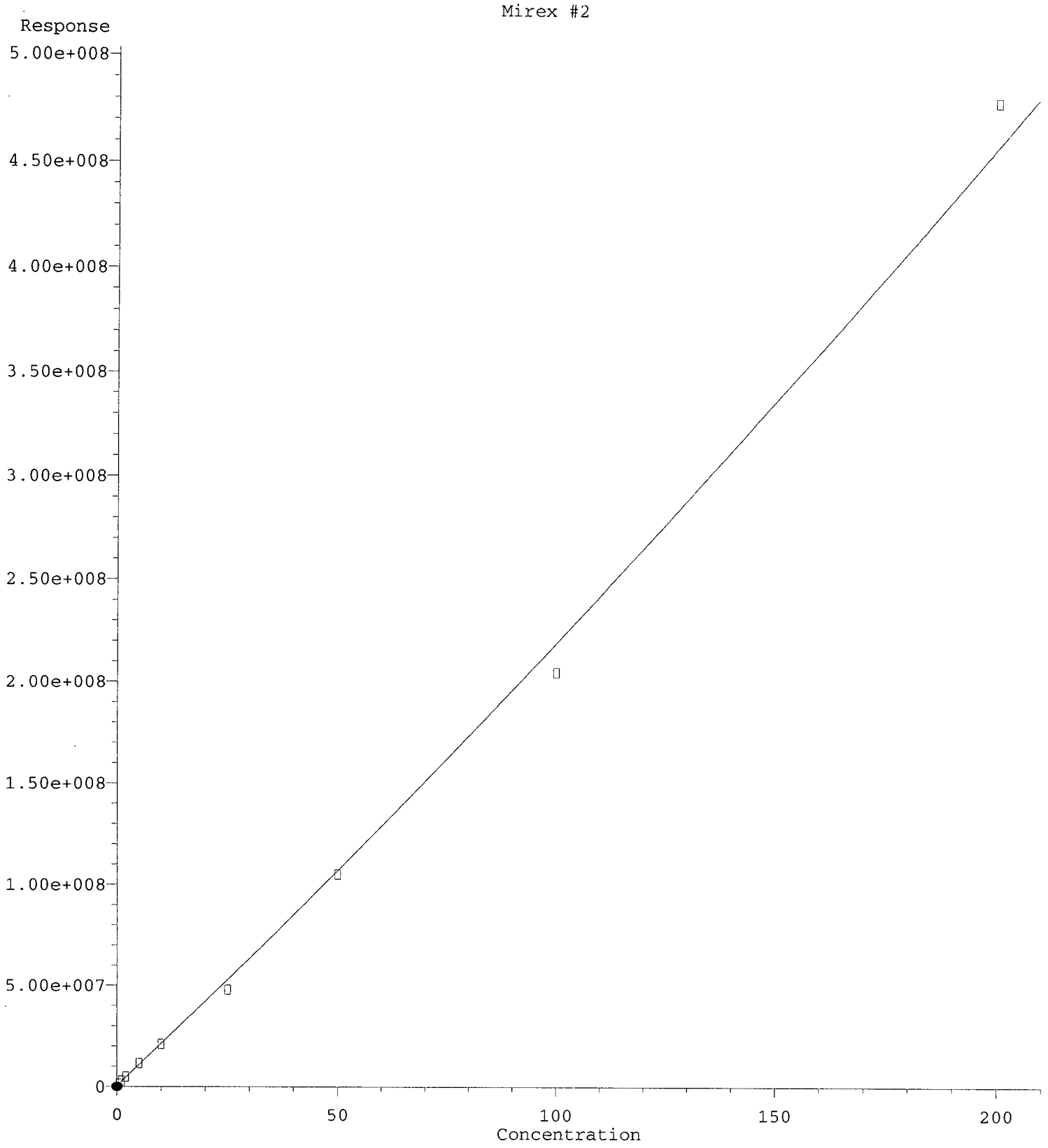
MJB 2/3/20

(31) Mirex #2

9.675min 0.461 ng/mL

response 1475836

(+) = Expected Retention Time

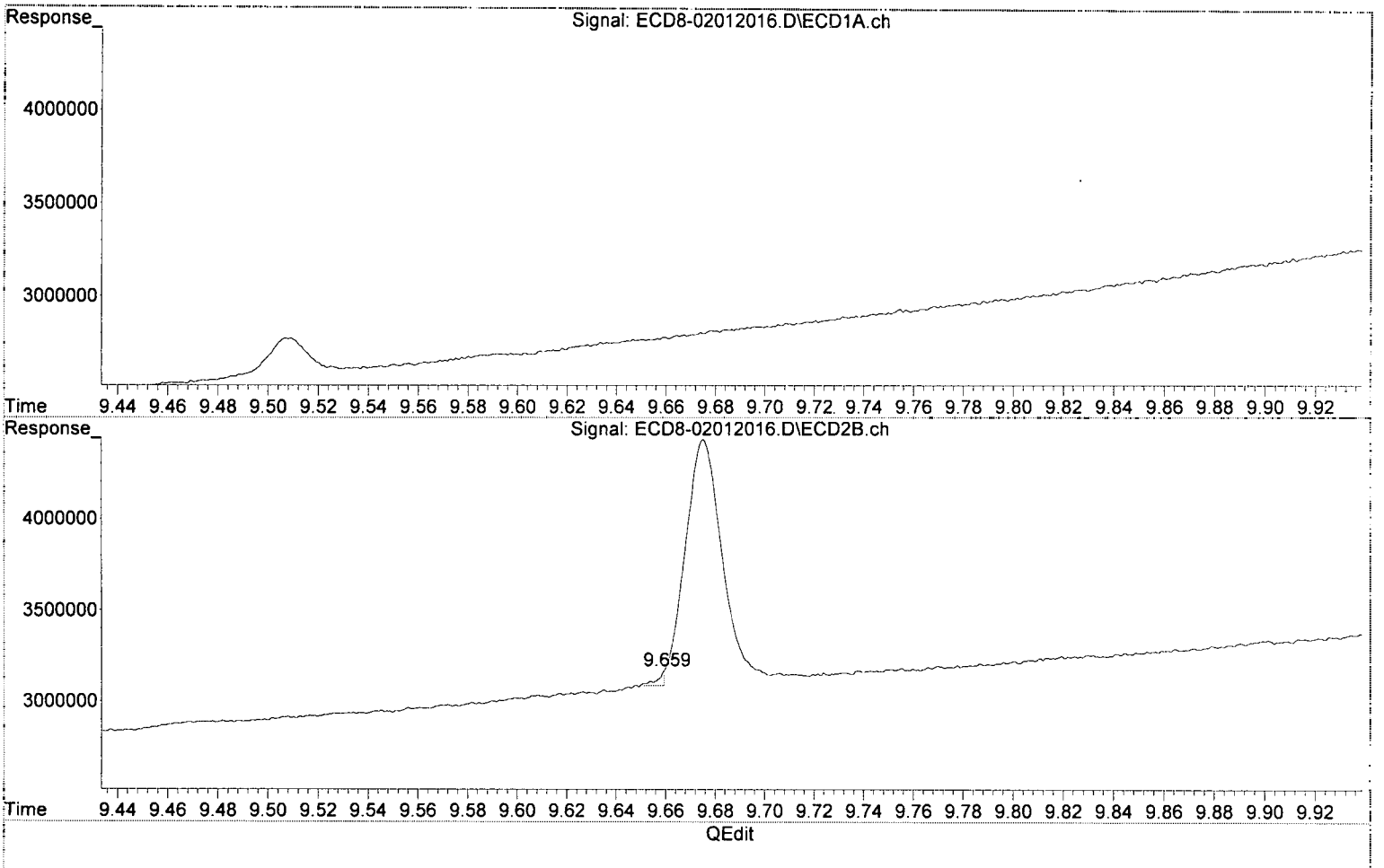


R = 1.11e+003 A*A + 2.07e+006 A + 5.22e+005
Coef of Det (r^2) = 0.993 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\EC08_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

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

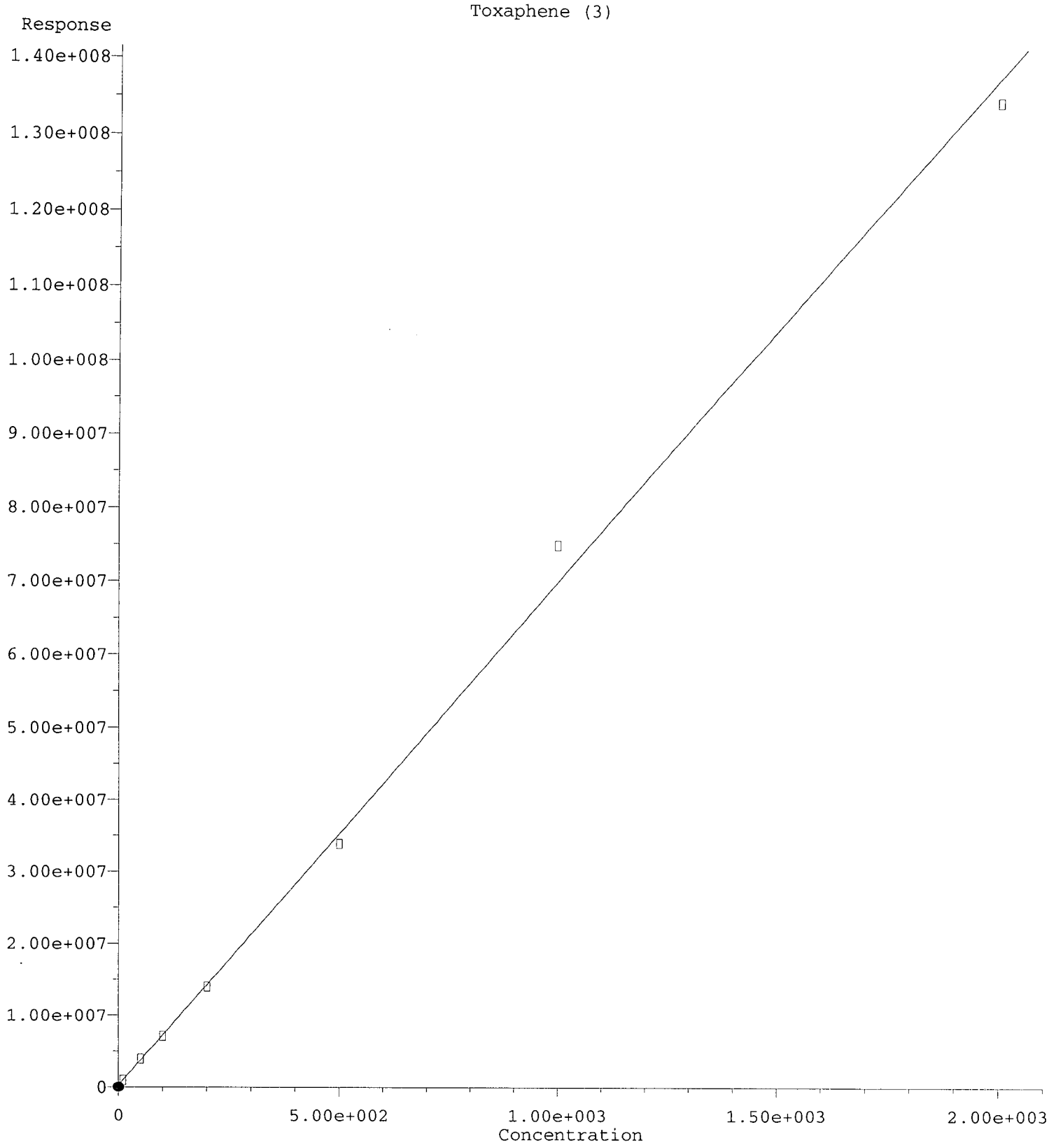
MJB 2/3/20

(31) Mirex #2

9.659min -0.212 ng/mL (m)

response 83389

(+) = Expected Retention Time

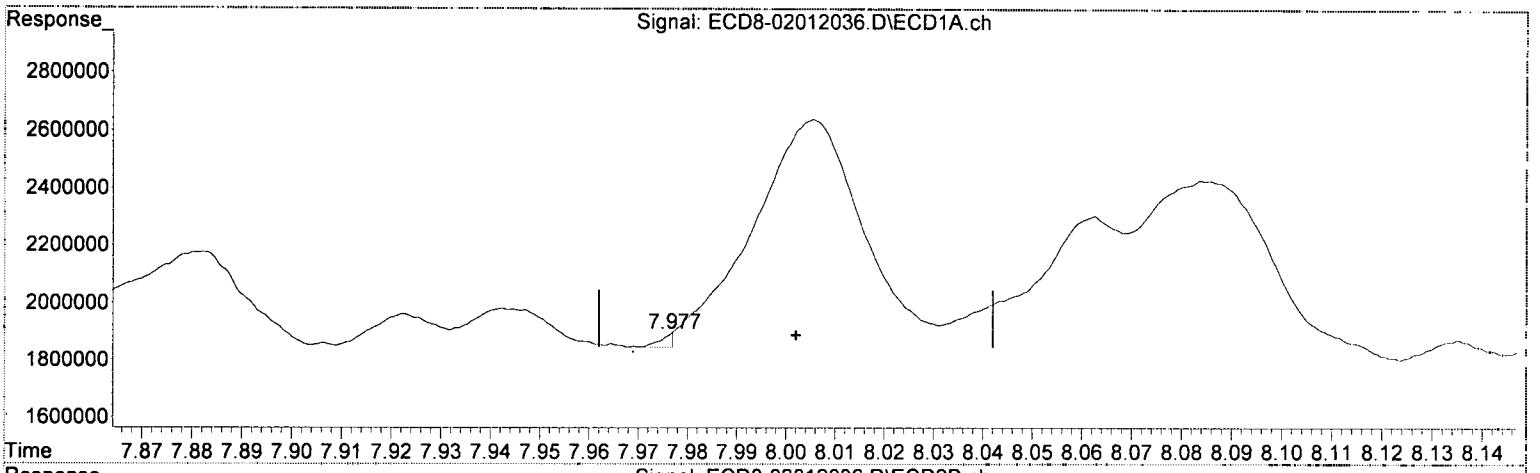


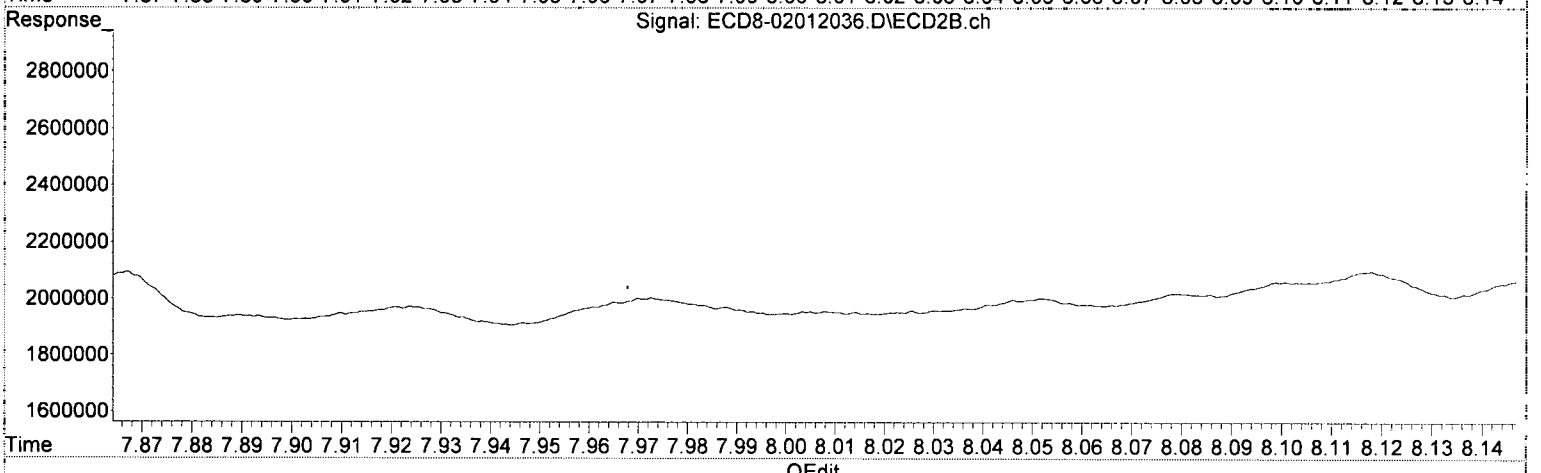
R = -7.28e-001 A*A + 7.04e+004 A + 2.22e+005
Coef of Det (r^2) = 0.998 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

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)

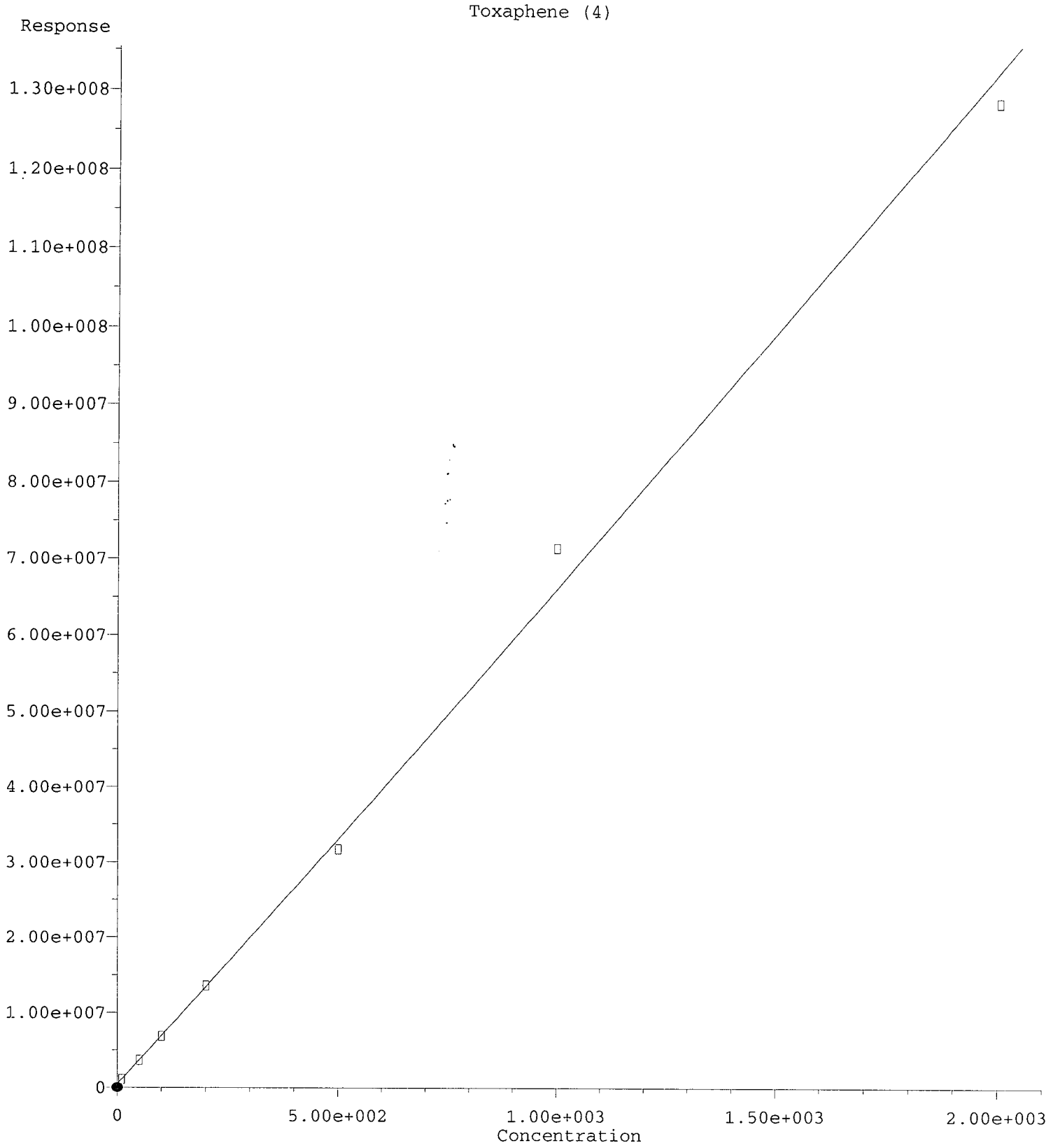
response 47861

(38) Toxaphene (3) #2

8.838min 10.732 ng/mL

response 694351

(+) = Expected Retention Time

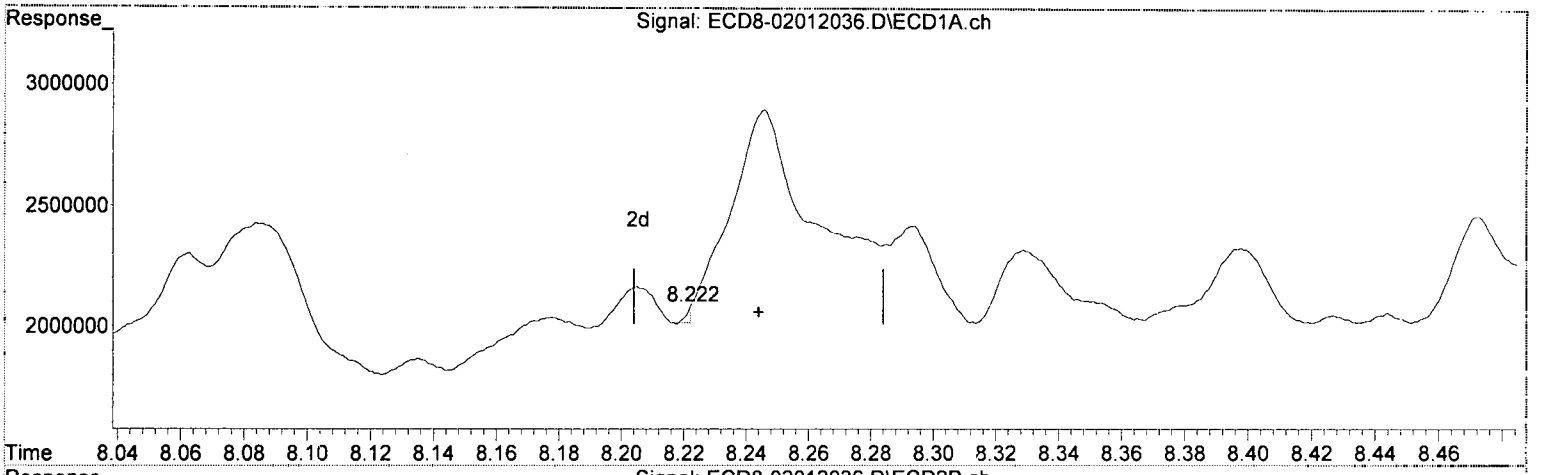


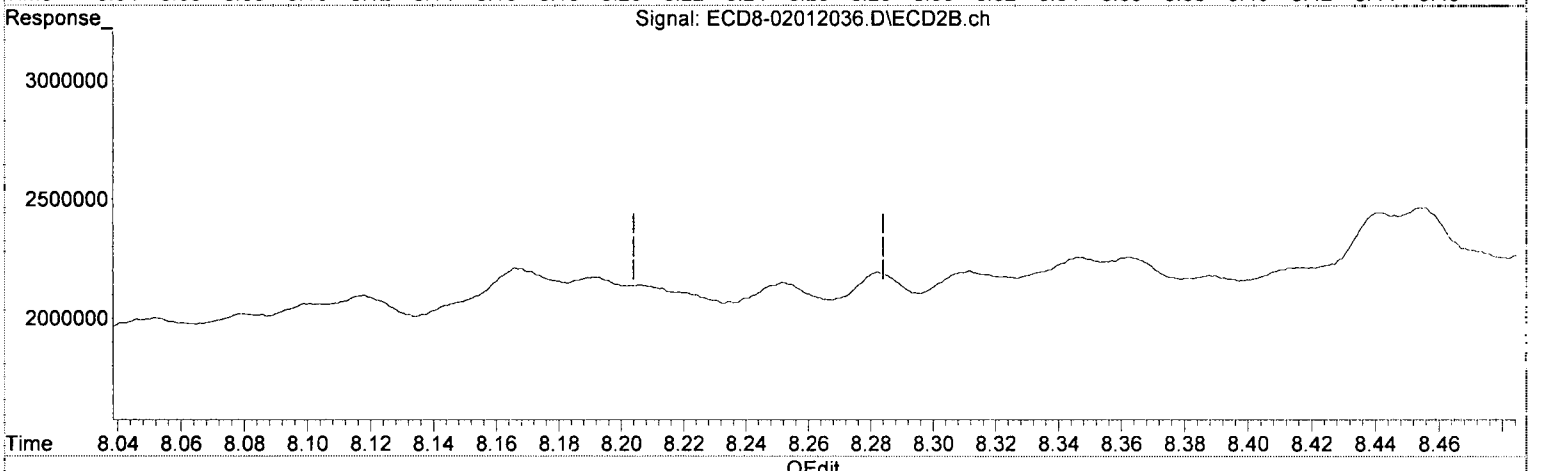
R = 6.76e-001 A*A + 6.49e+004 A + 4.50e+005
Coef of Det (r^2) = 0.998 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

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

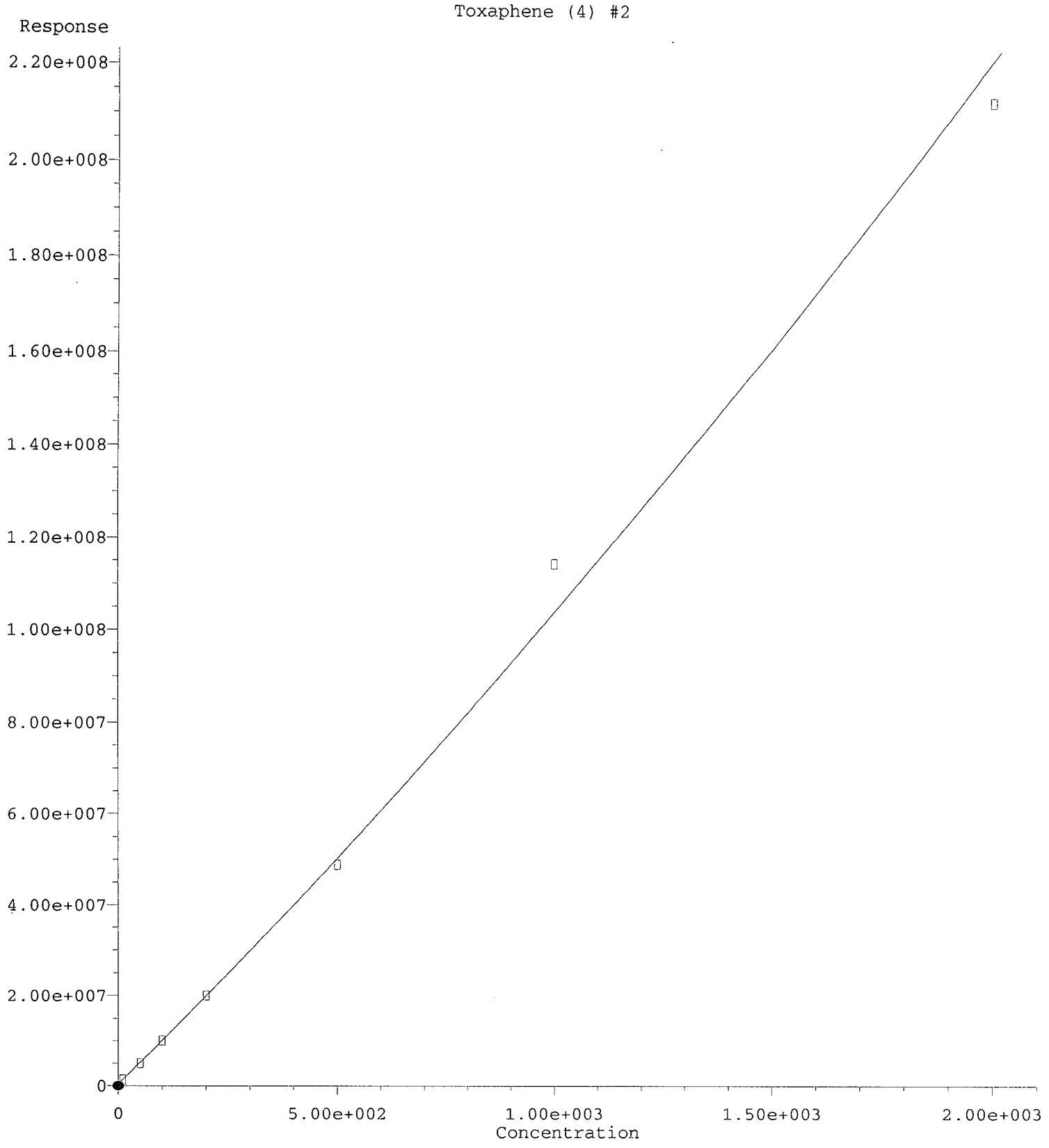
MJB 2/3/20

(39) Toxaphene (4) #2

8.907min 10.079 ng/mL

response 1372328

(+) = Expected Retention Time

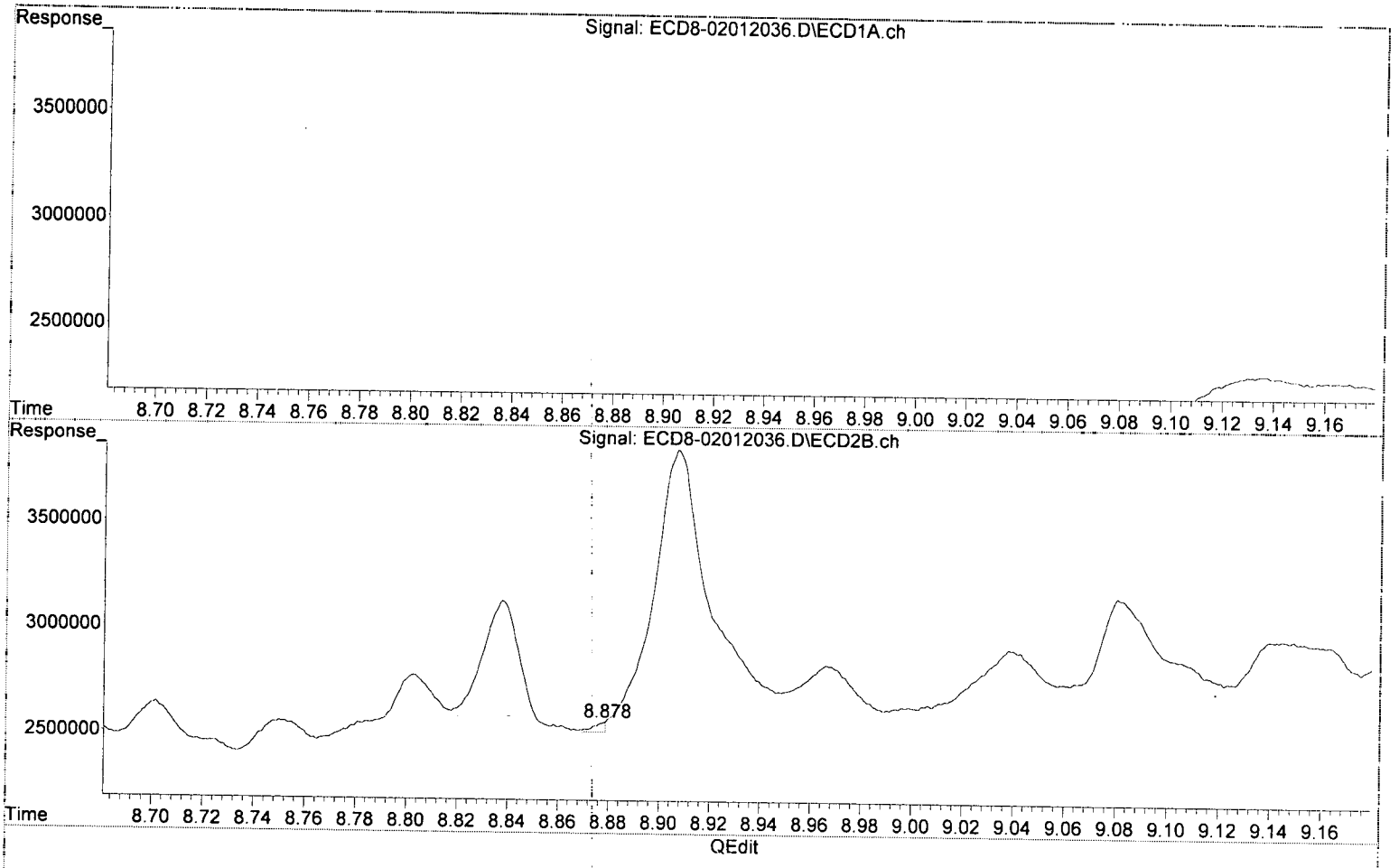


R = 7.17e+000 A*A + 9.62e+004 A + 4.02e+005
Coef of Det (r^2) = 0.997 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

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

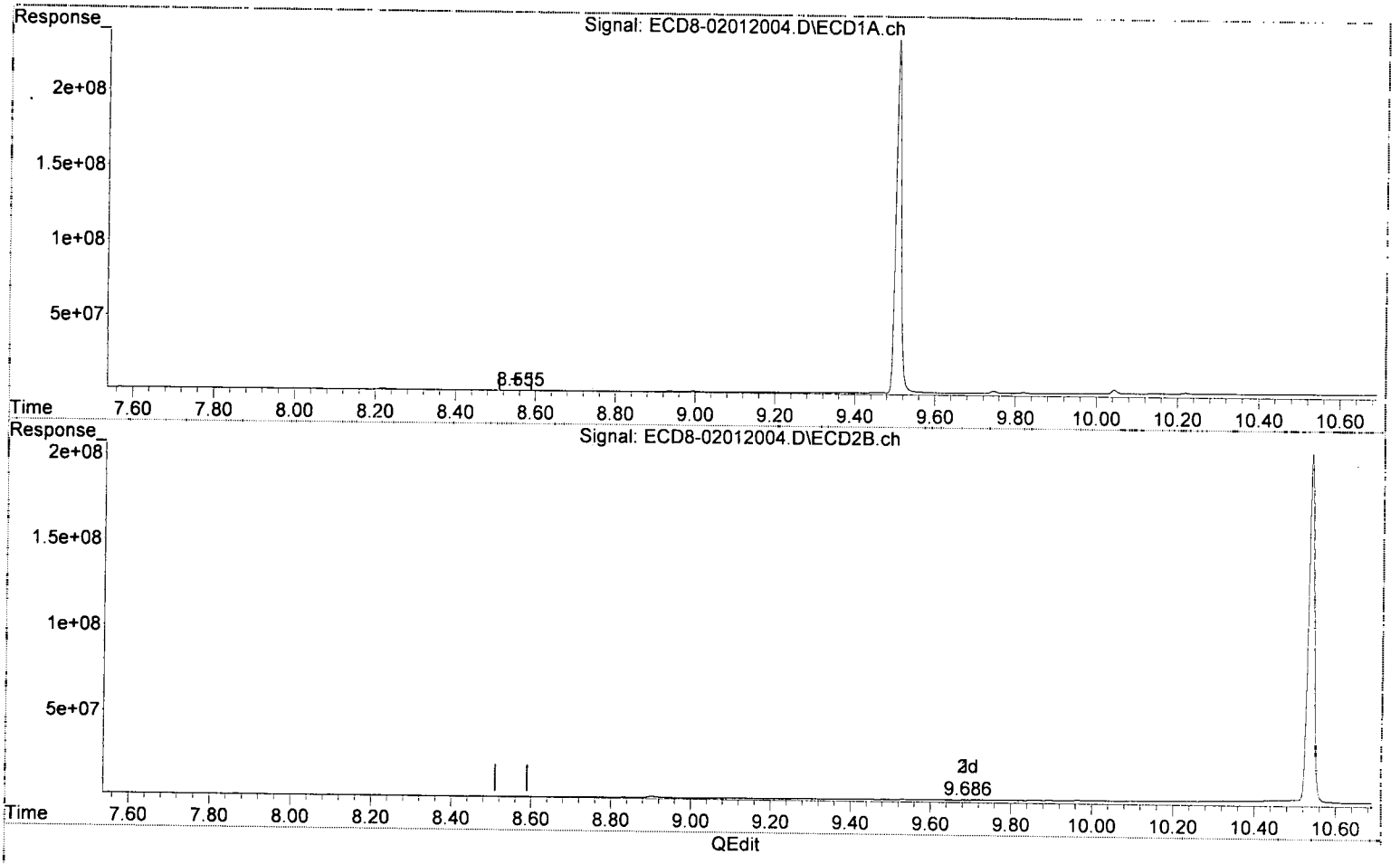
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.297	5.981	318.0E6	341.4E6	90.964	98.960	
22)	S	DCBP (S)	9.506	10.536	236.5E6	202.4E6	88.597	90.949	
		Target Compounds							
2)		a-BHC	5.840	0.000	33920	0	0.007	N.D.	#
3)		g-BHC	6.132	6.911	55024	6227	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

response 179129

(31) Mirex #2

9.687min -0.035 ng/mL

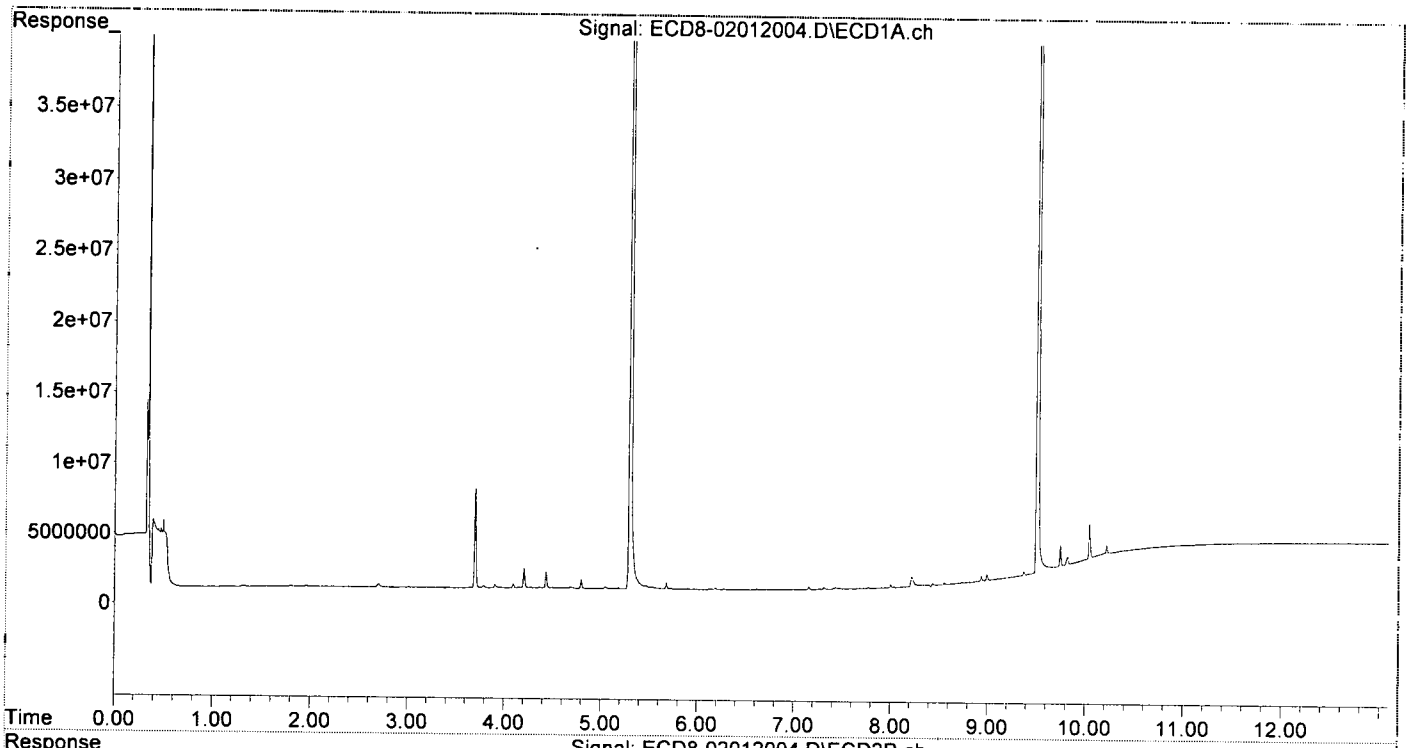
response 449438

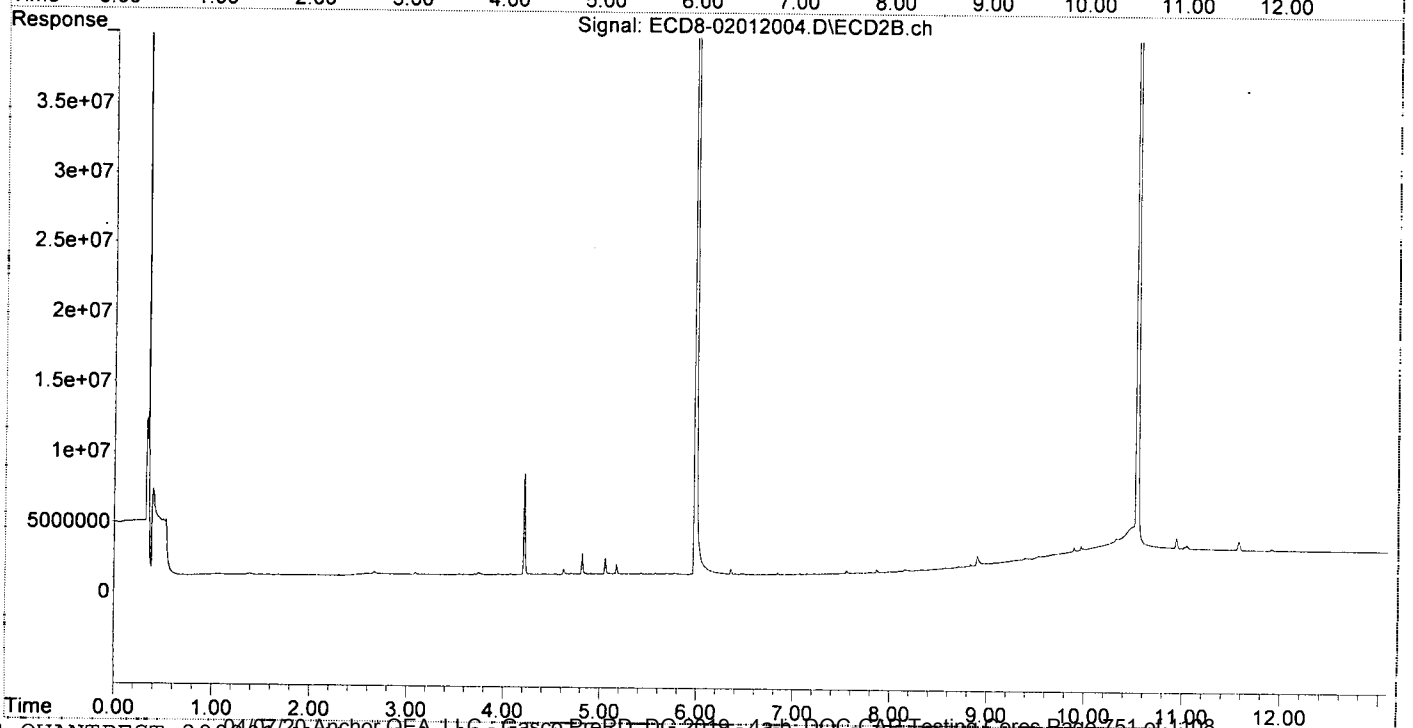
(+) = Expected Retention Time

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 4/3/20

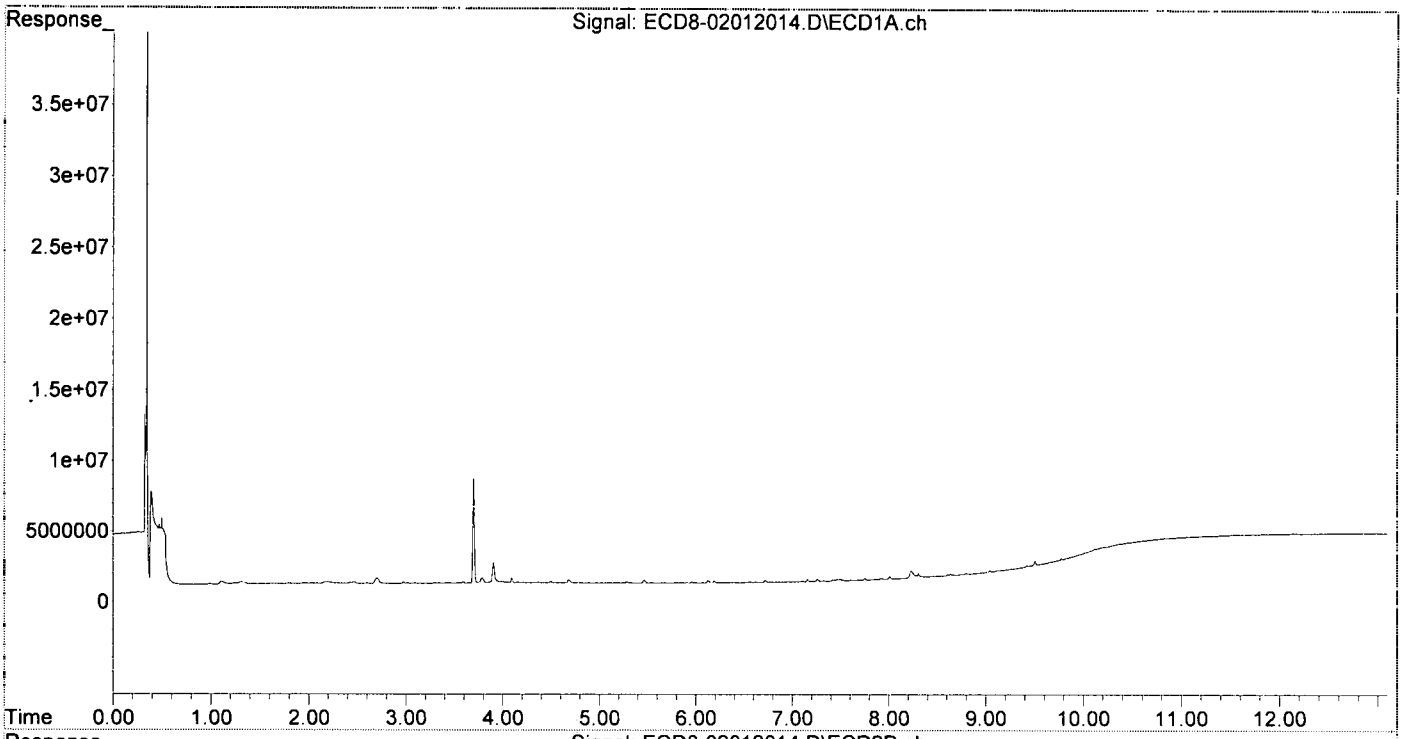
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	5.282	5.982	95189	41890	0.027	0.012 #
22) S	DCBP (S)	9.507	10.537	492471	638877	BelowCal	BelowCal
	Target Compounds						
2)	a-BHC	5.841	6.586	40611	26491	0.009	0.082 #
3)	g-BHC	6.125	6.905	169328	10004	0.041	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.

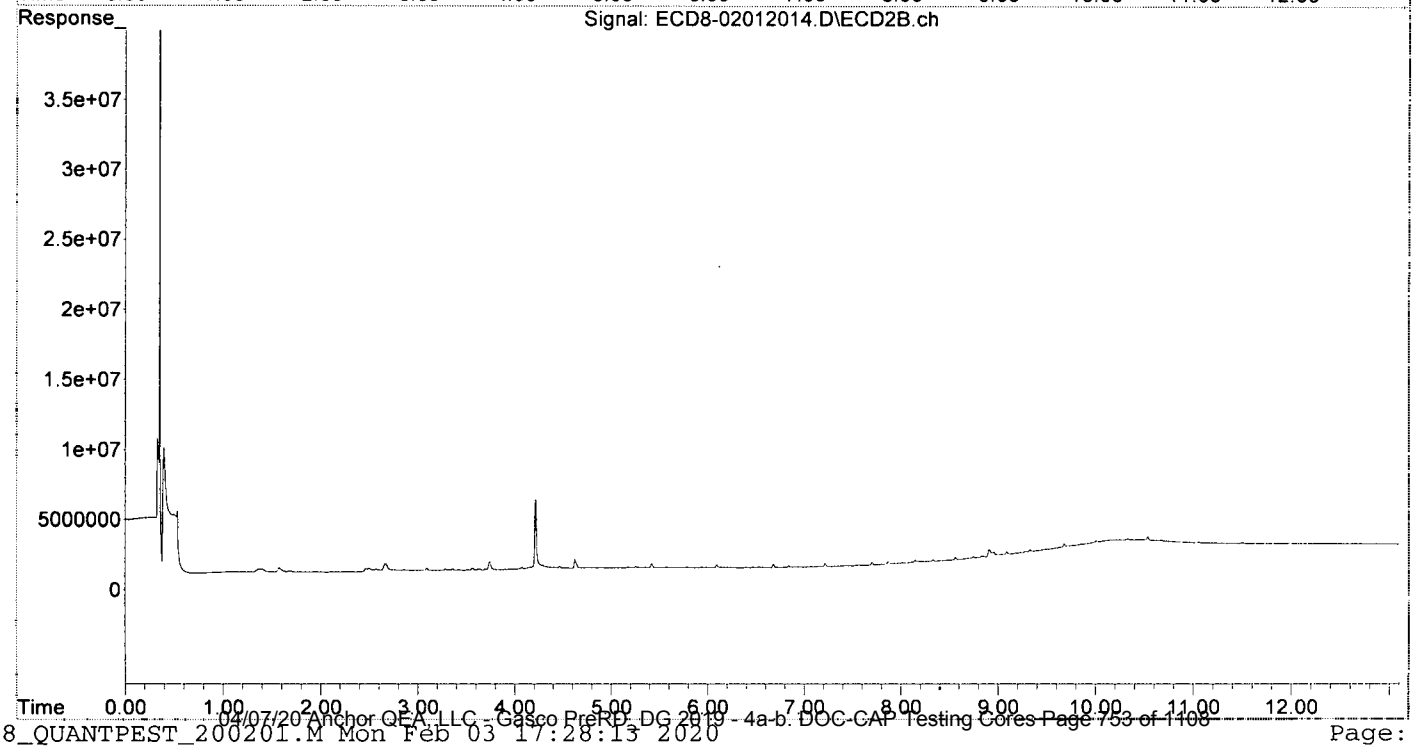
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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

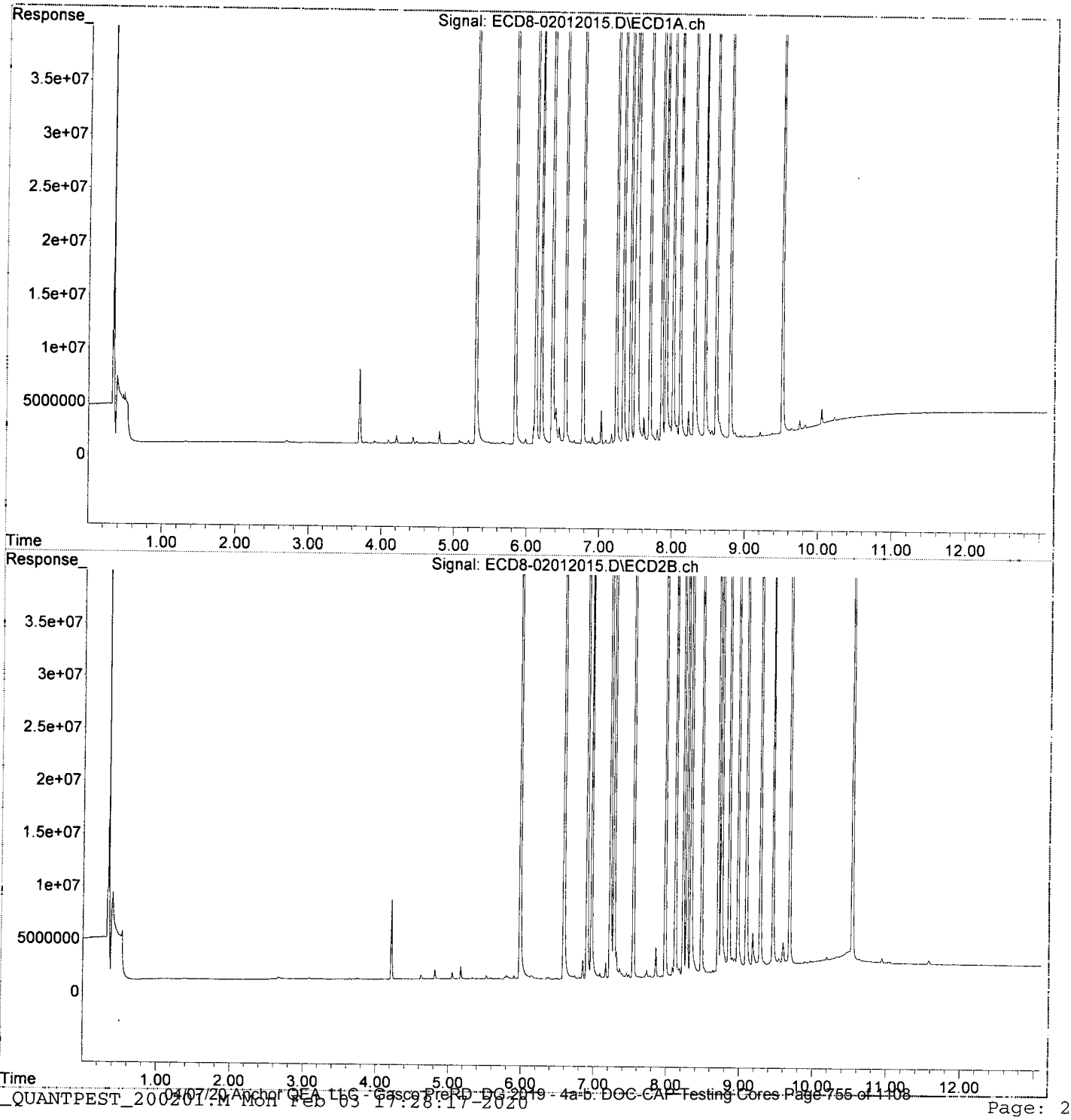
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.297	5.981	161.5E6	170.2E6	46.195	49.336	
22)	S DCBP (S)	9.507	10.537	121.2E6	103.5E6	46.127	48.299	
	Target Compounds							
2)	a-BHC	5.836	6.585	229.8E6	234.7E6	48.636	50.205	
3)	g-BHC	6.119	6.902	206.9E6	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 2/3/20

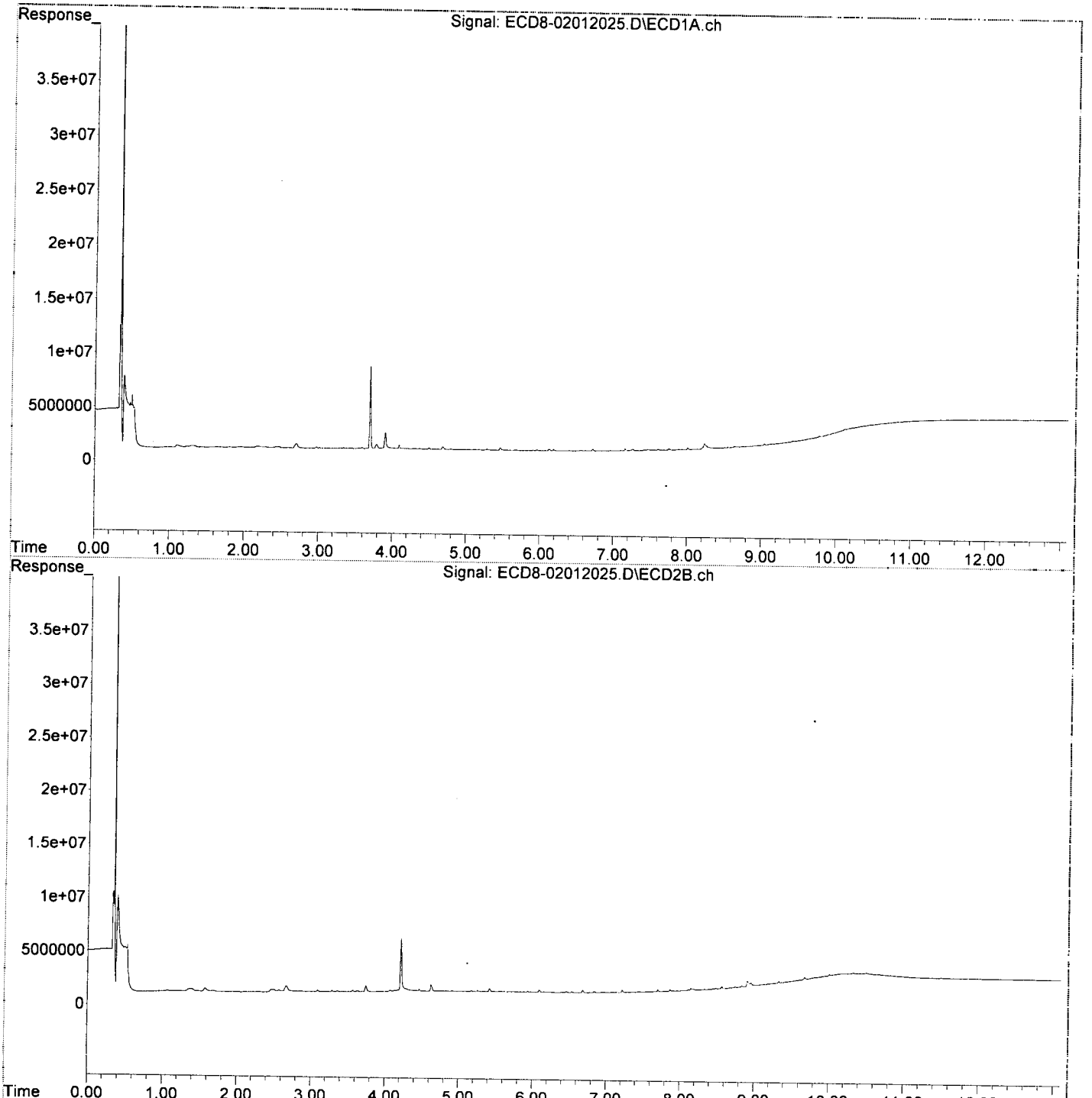
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.283	5.983	94989	23258	0.027	0.007	#
22)	S	DCBP (S)	9.514	10.527	177944	664094	BelowCal	BelowCal	
		Target Compounds							
2)		a-BHC	5.844	6.576	30623	16777	0.006	0.080	#
3)		g-BHC	6.127	6.894	153765	9160	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

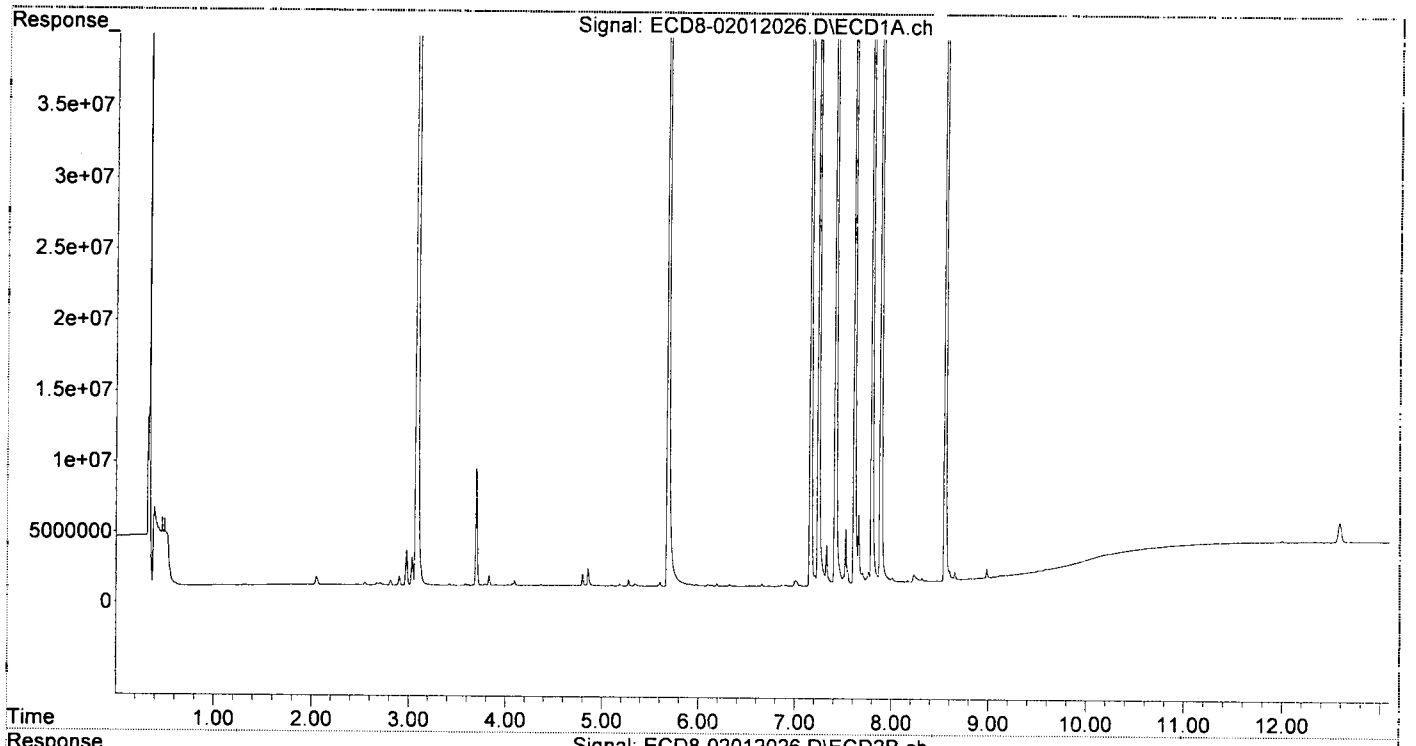
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.273f	5.985	462494	95930	0.132	0.028	#
22)	S	DCBP (S)	0.000	10.541	0	281717	N.D.	BelowCal	
		Target Compounds							
2)		a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)		g-BHC	6.093f	6.930f	137773	44680	0.033	0.054	#
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.	

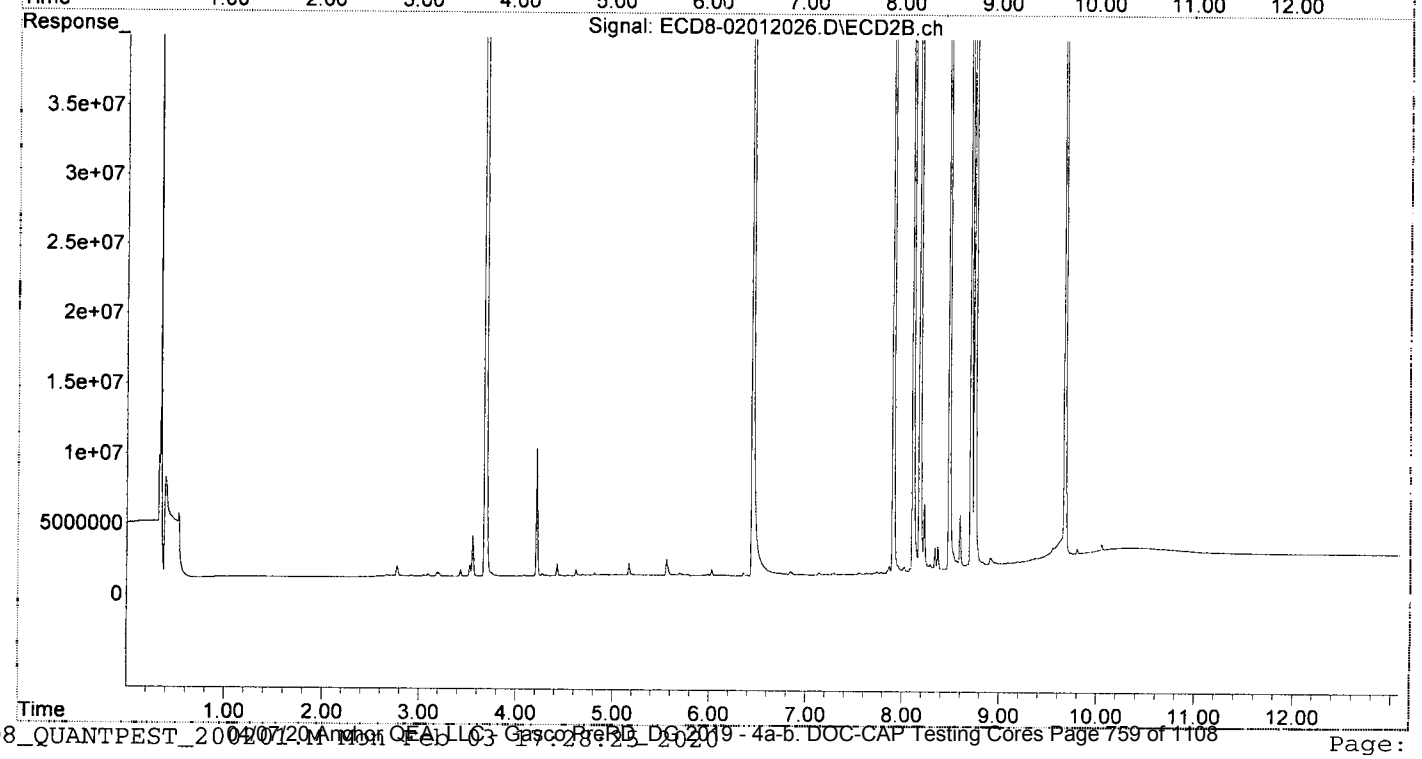
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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

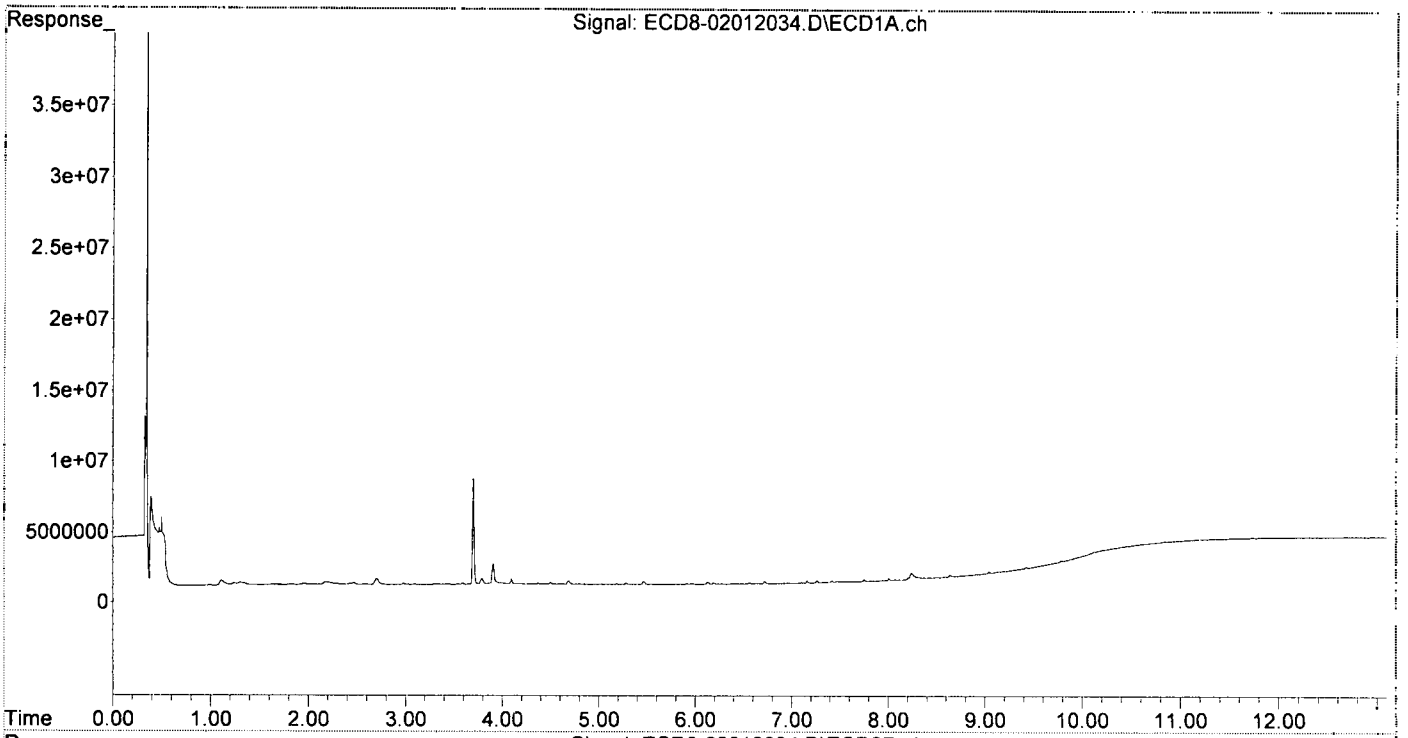
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.284	5.981	98733	19607	0.028	0.006	#
22)	S	DCBP (S)	9.501	10.541	43622	892875	BelowCal	BelowCal	
		Target Compounds							
2)		a-BHC	5.843	6.582	32066	15598	0.007	0.079	#
3)		g-BHC	6.127	6.895	147613	9454	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.	

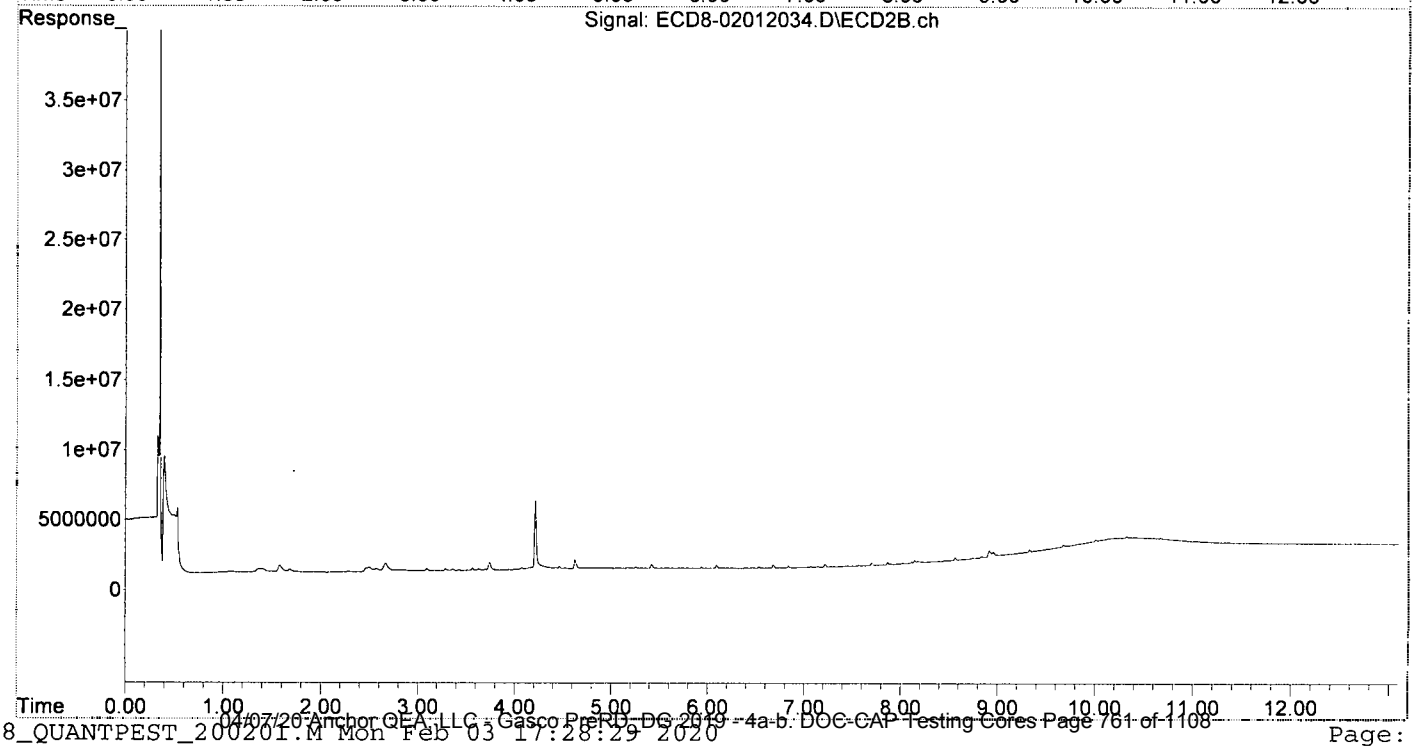
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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.	

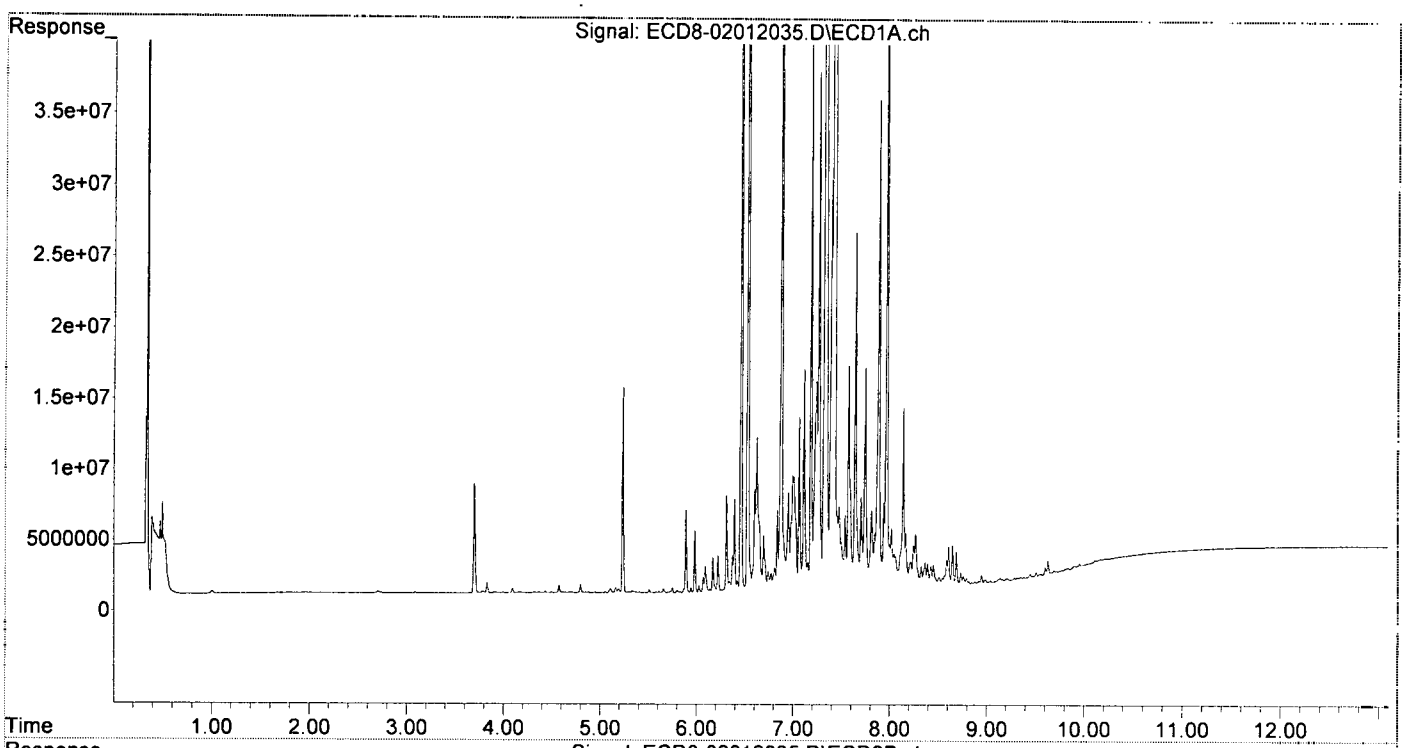
A B
492.62 507.79

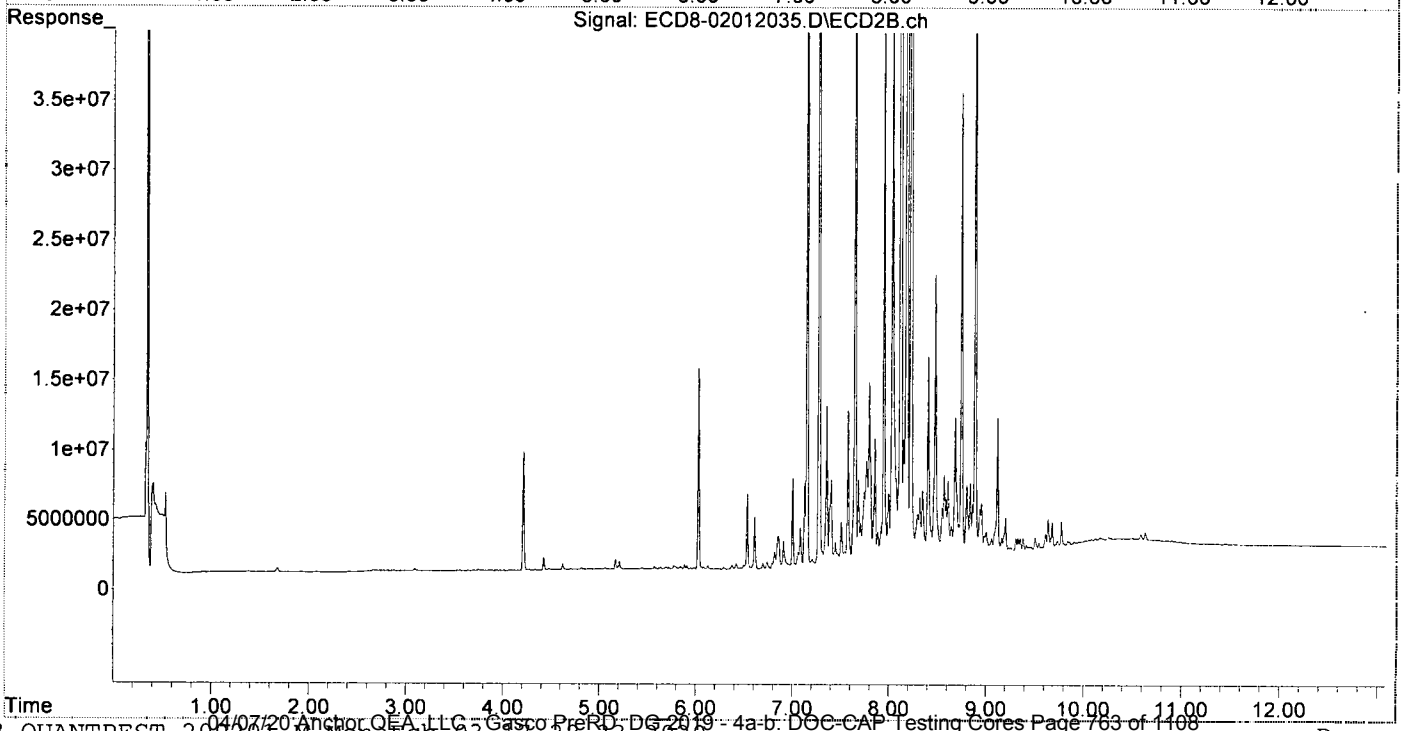
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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

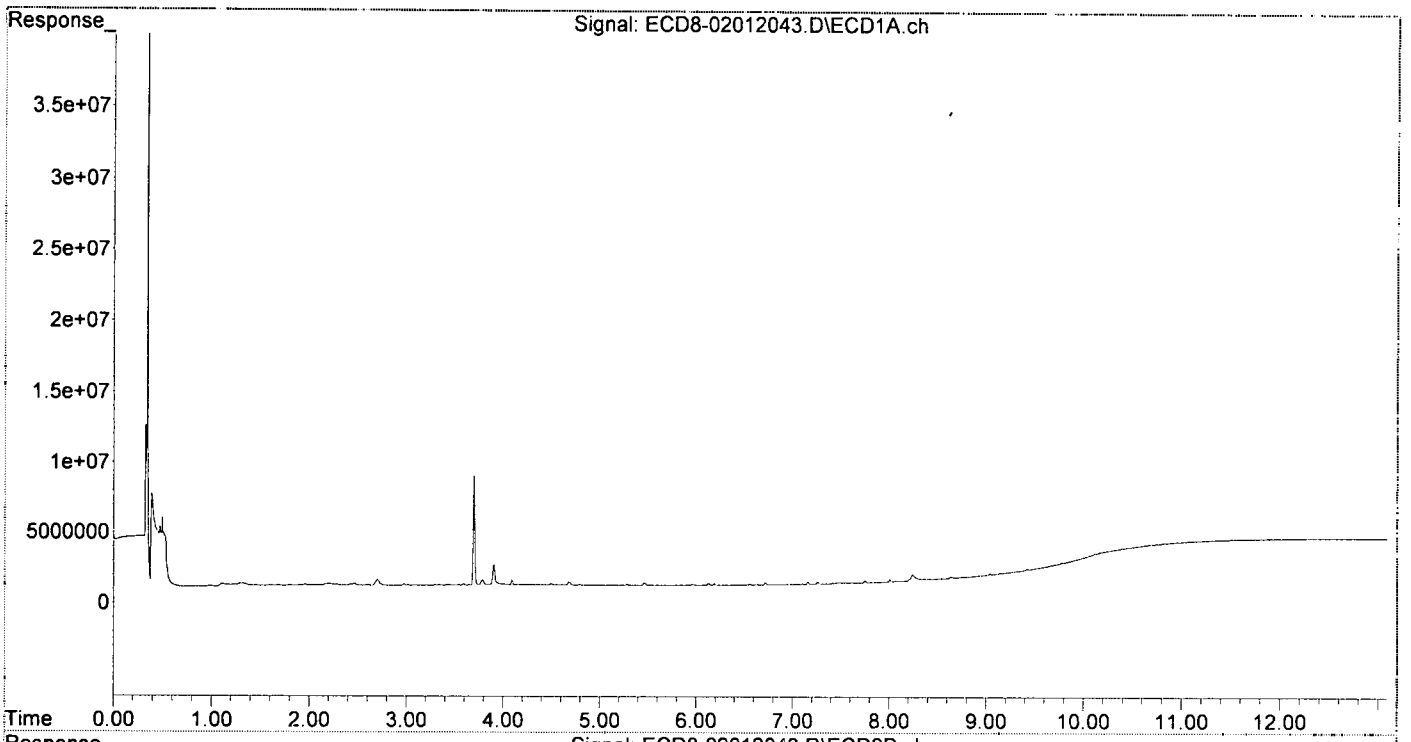
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.283	5.983	97129	10331	0.028	0.003	#
22)	S	DCBP (S)	9.505	10.525	158391	742061	BelowCal	BelowCal	
		Target Compounds							
2)		a-BHC	5.841	6.573	31406	23051	0.007	0.081	#
3)		g-BHC	6.129	6.892	144324	11670	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.	

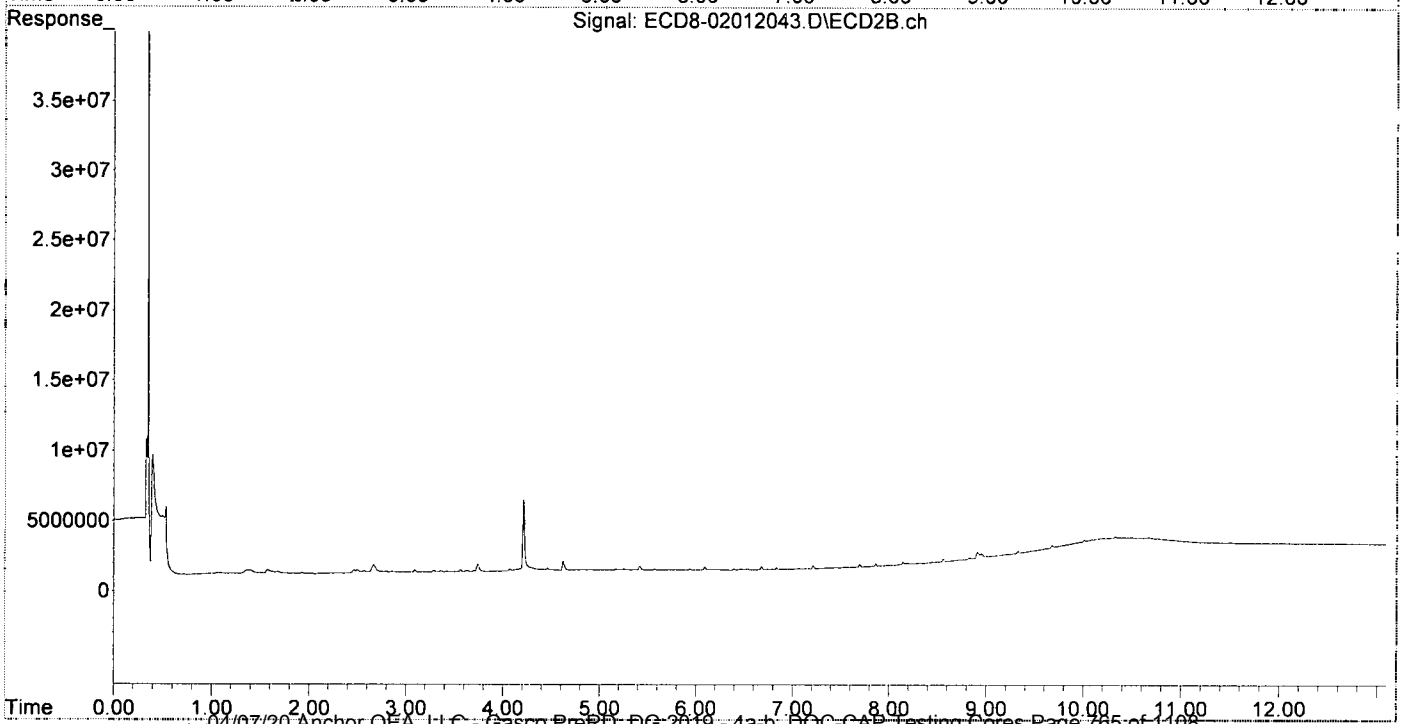
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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

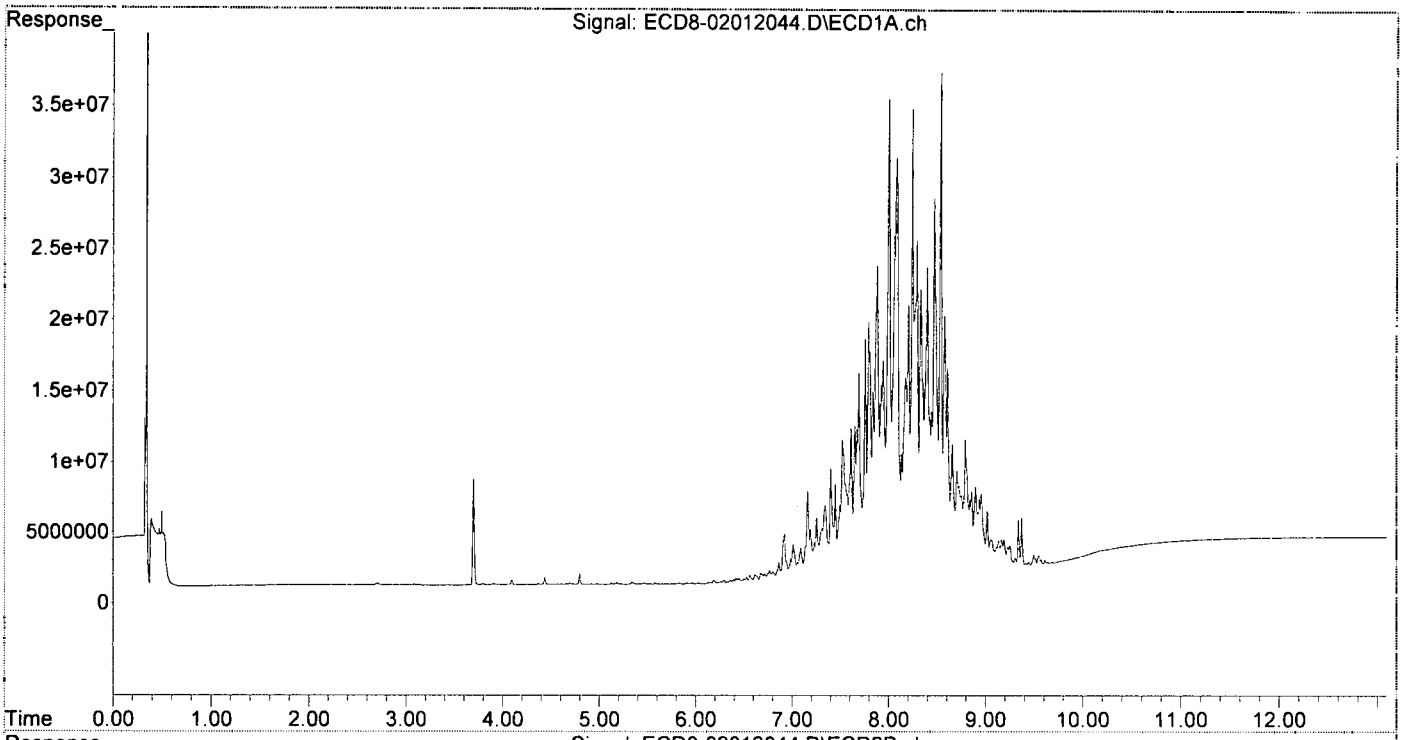
B 477.95

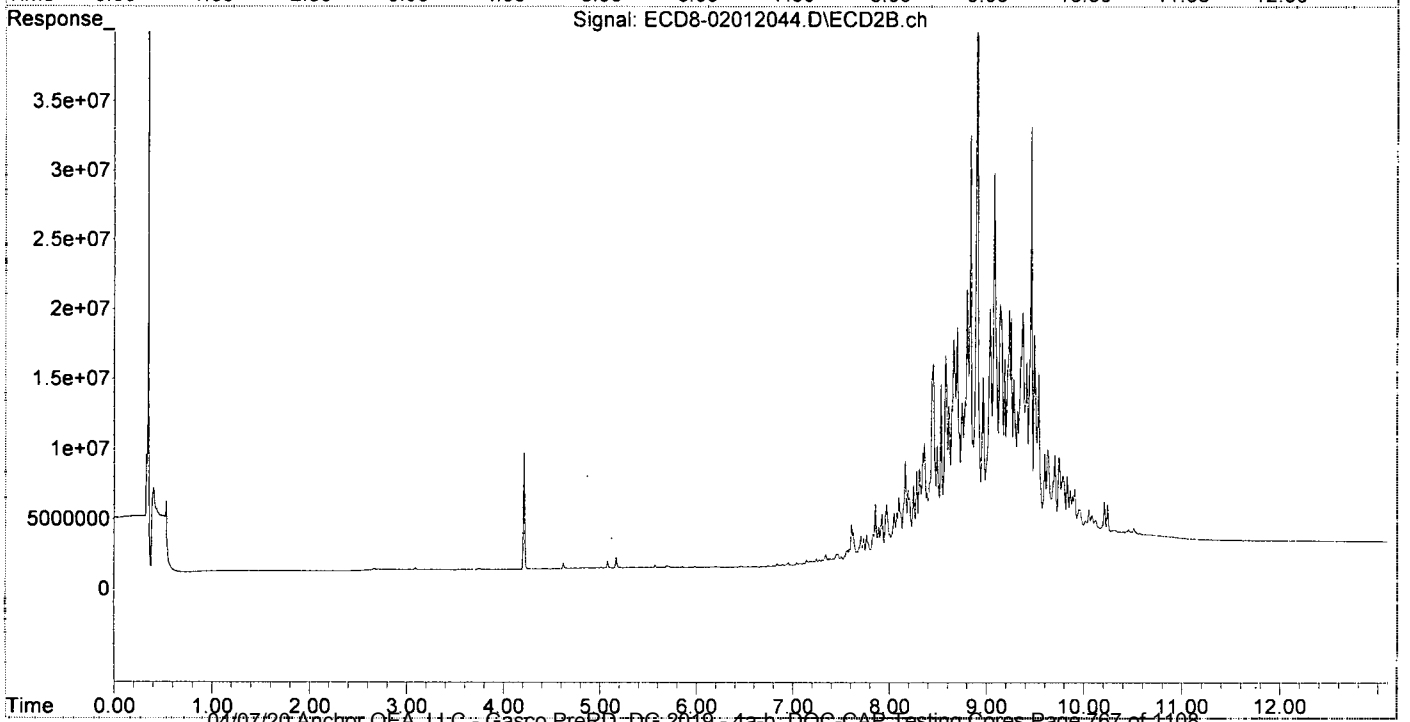
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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

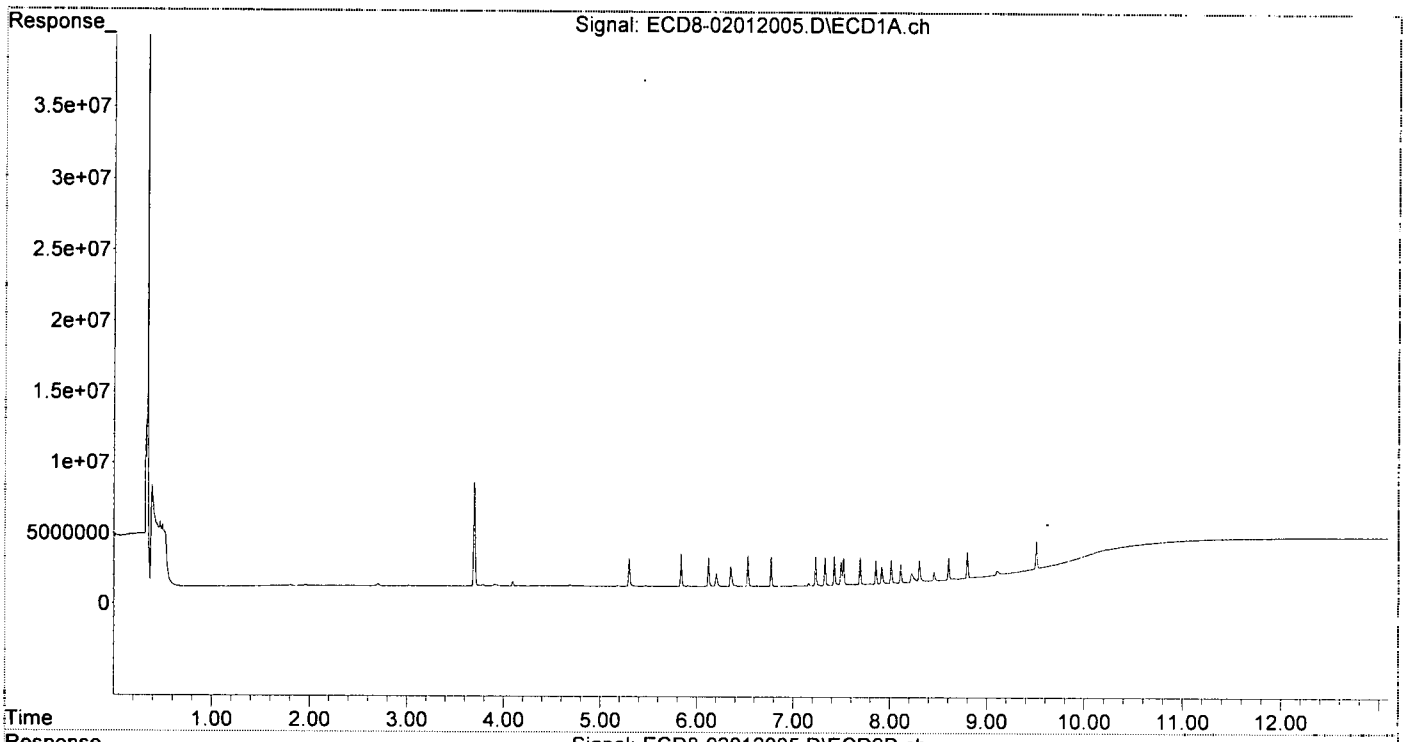
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.297	5.982	2010387	1807457	0.575	0.524	
22)	S DCBP (S)	9.507	10.537	2137981	2121210	0.502	0.543	
	Target Compounds							
2)	a-BHC	5.836	6.585	2323532	1906806	0.492	0.522	
3)	g-BHC	6.120	6.903	2098226	1857818	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.	

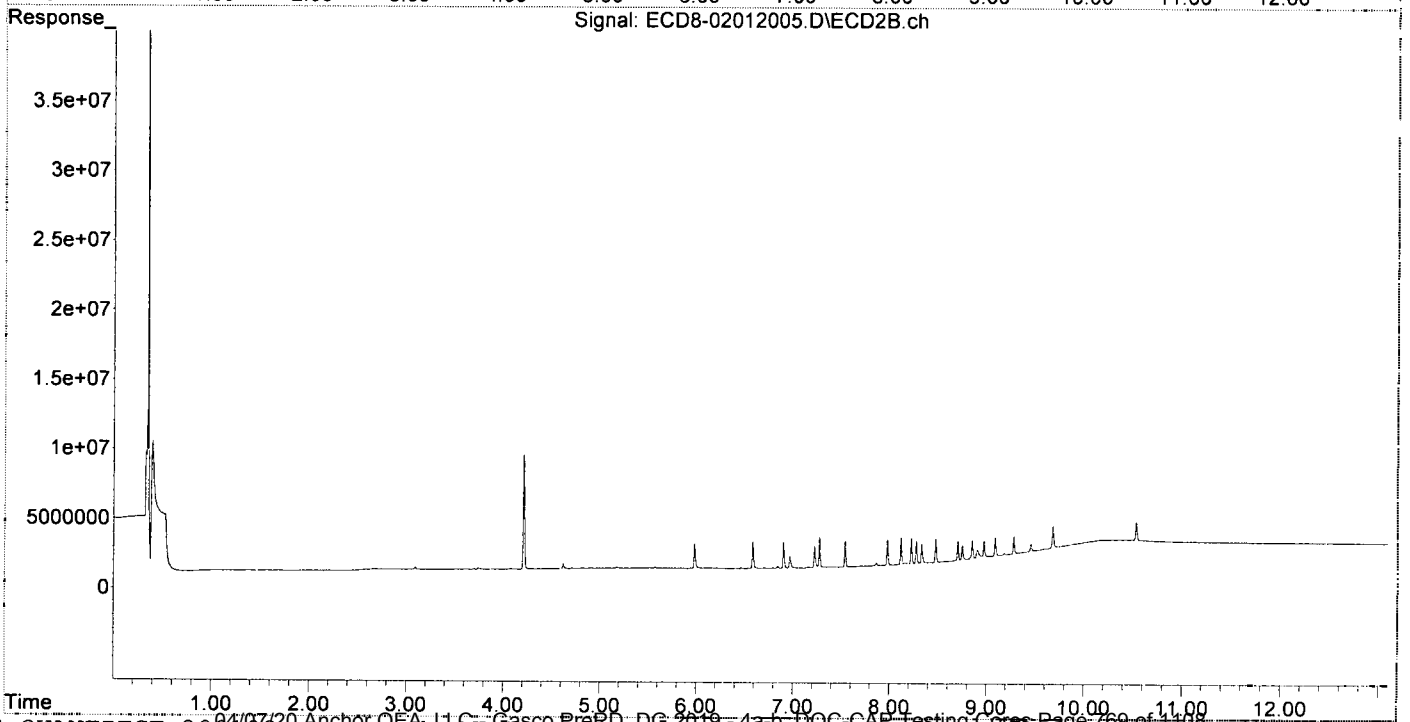
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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

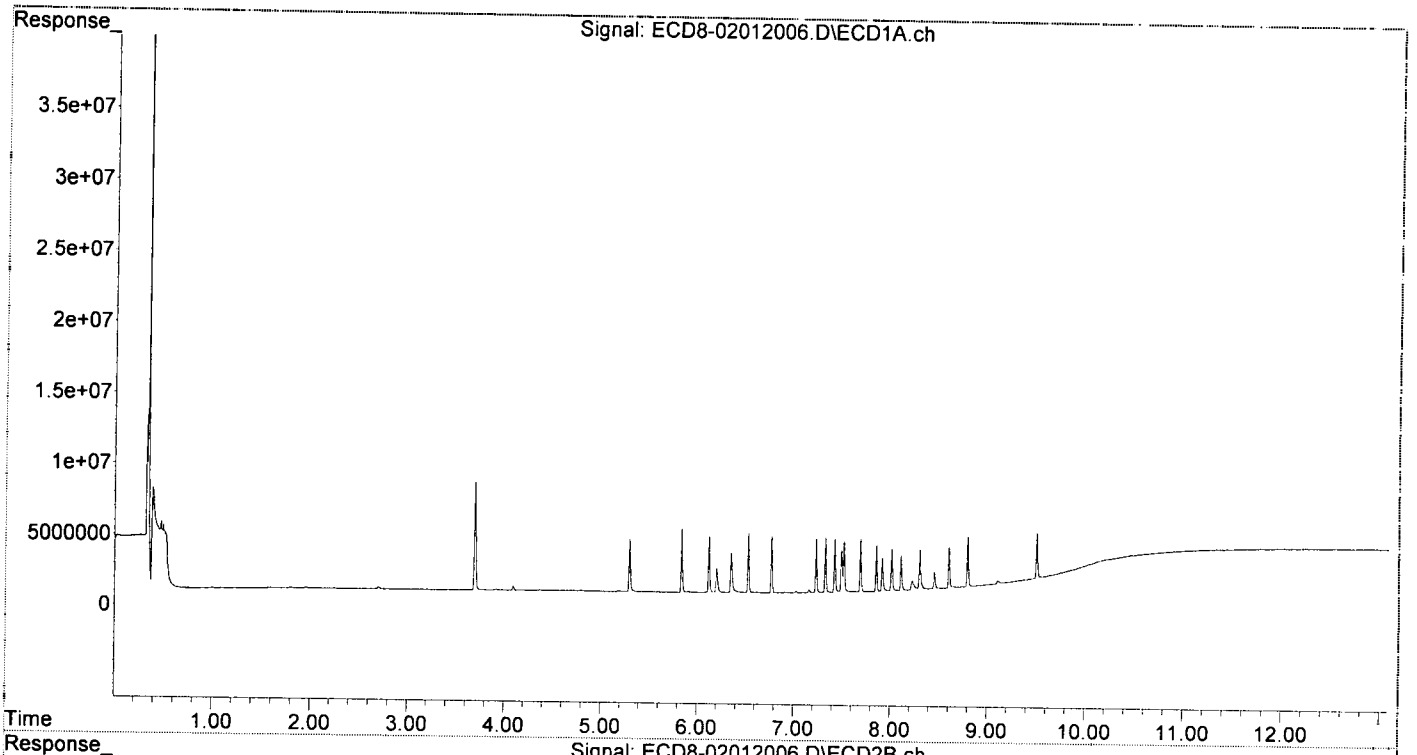
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.298	5.982	3713760	3325610	1.062	0.964	
22)	S DCBP (S)	9.507	10.537	3342363	2619998	0.974	0.789	
	Target Compounds							
2)	a-BHC	5.837	6.585	4491787	3754344	0.951	0.954	
3)	g-BHC	6.120	6.902	3995270	3614287	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.	

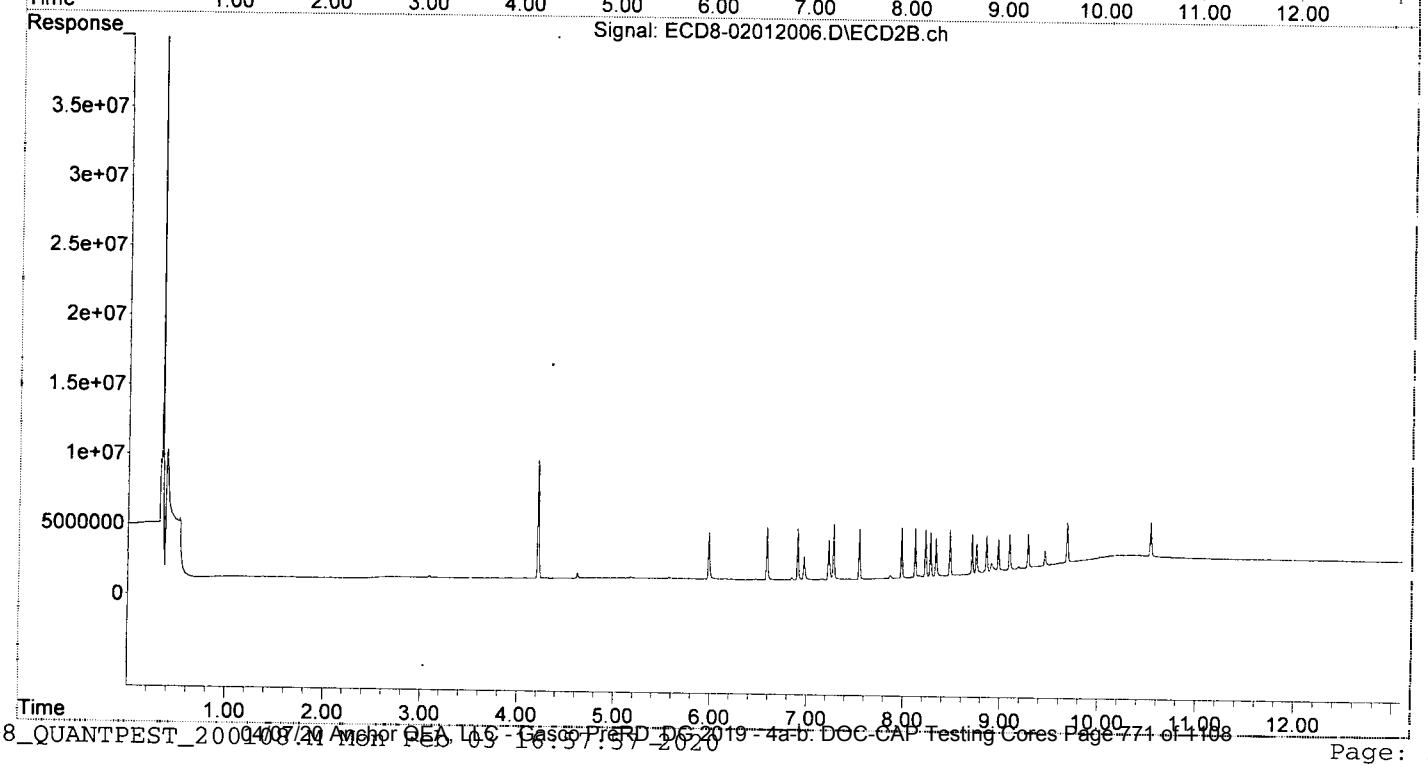
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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

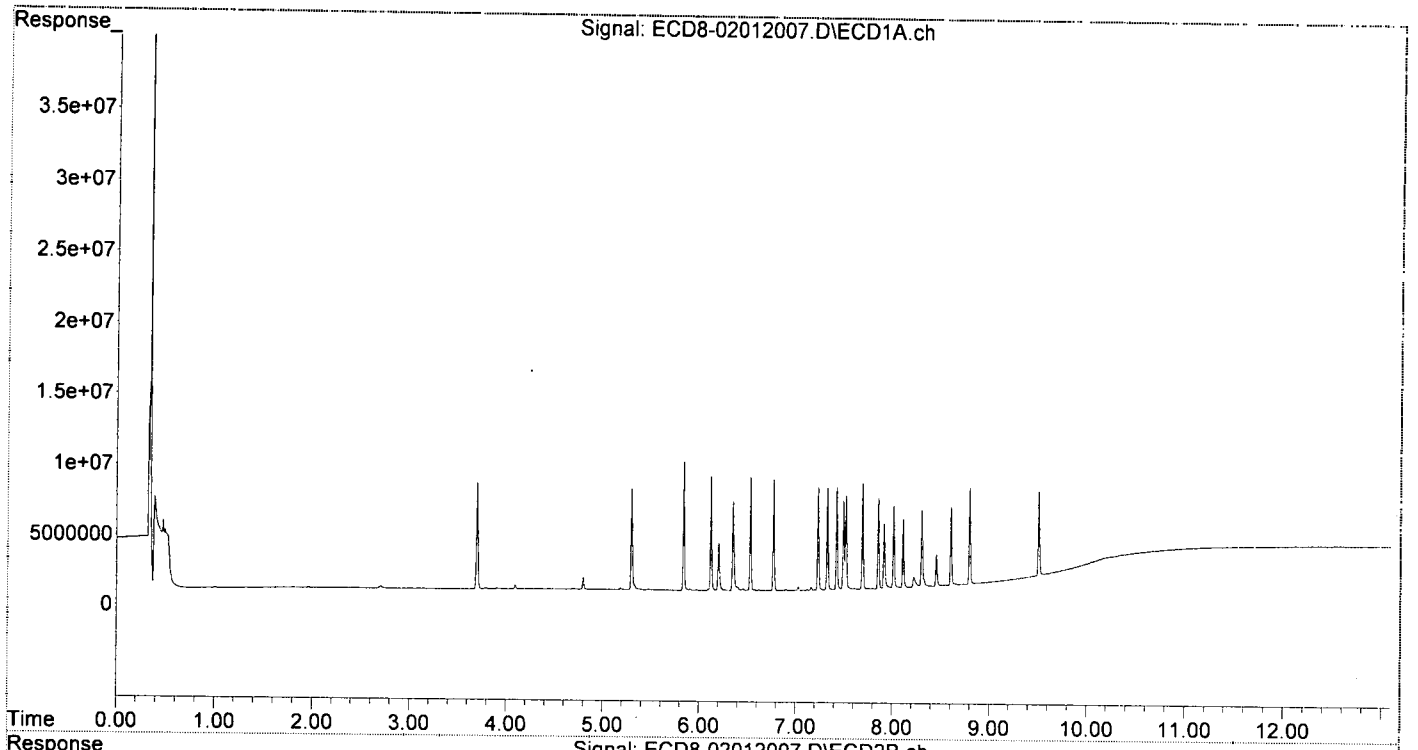
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.297	5.982	7209311	6464924	2.062	1.874	
22)	S DCBP (S)	9.506	10.536	6150705	5371510	2.072	2.149	
	Target Compounds							
2)	a-BHC	5.837	6.585	9150524	7591226	1.937	1.848	
3)	g-BHC	6.119	6.902	8103069	7144289	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.	

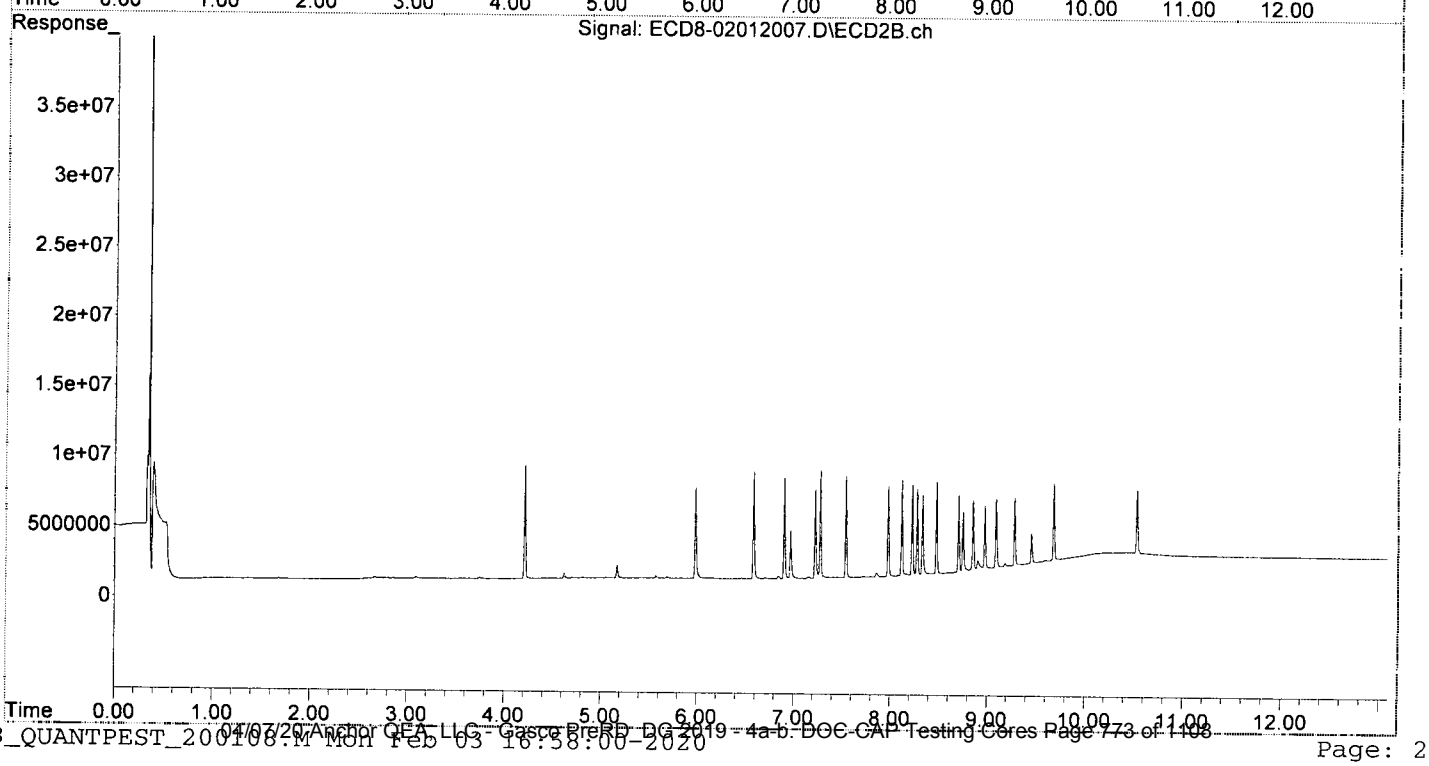
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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

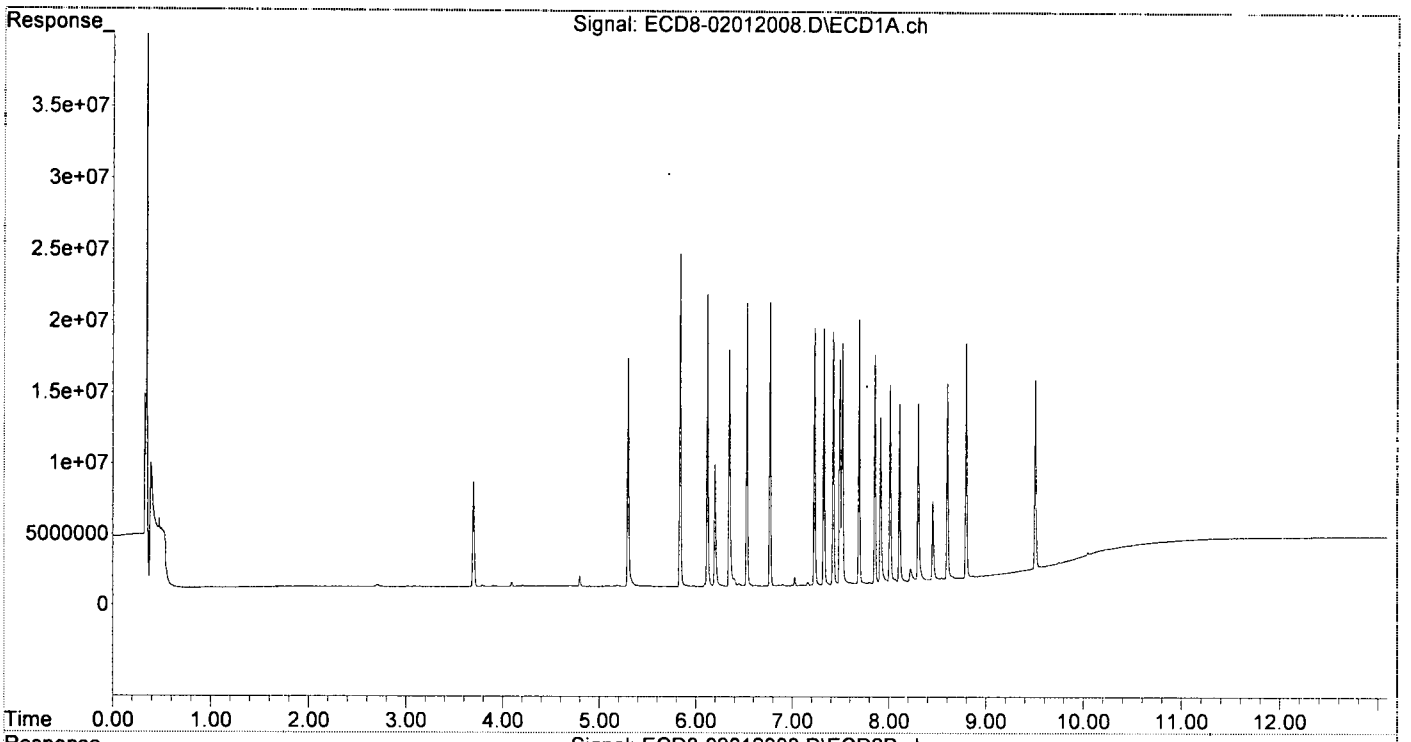
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.298	5.981	16081203	15031272	4.600	4.357	
22)	S DCBP (S)	9.507	10.536	13550213	11242637	4.961	5.037	
	Target Compounds							
2)	a-BHC	5.837	6.585	23466079	20250518	4.967	4.778	
3)	g-BHC	6.119	6.902	20617843	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.	

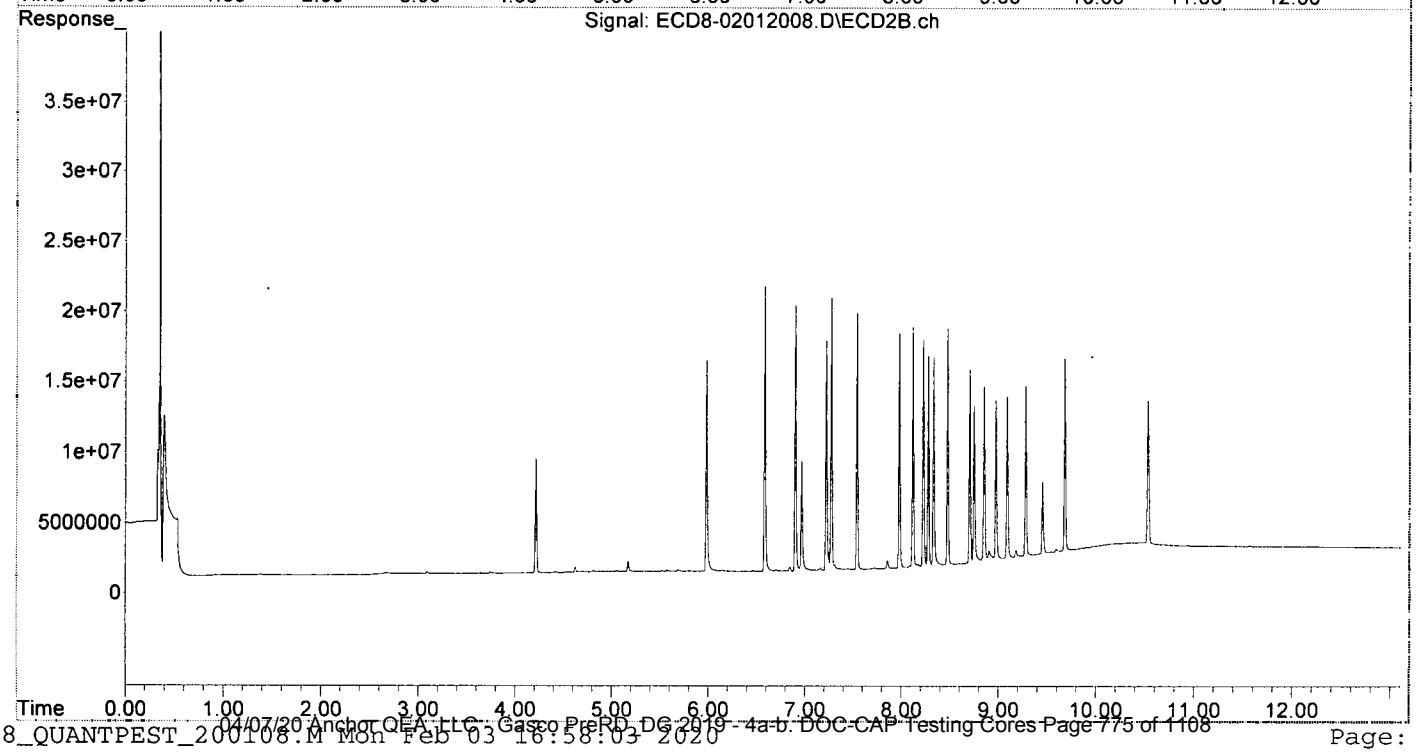
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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

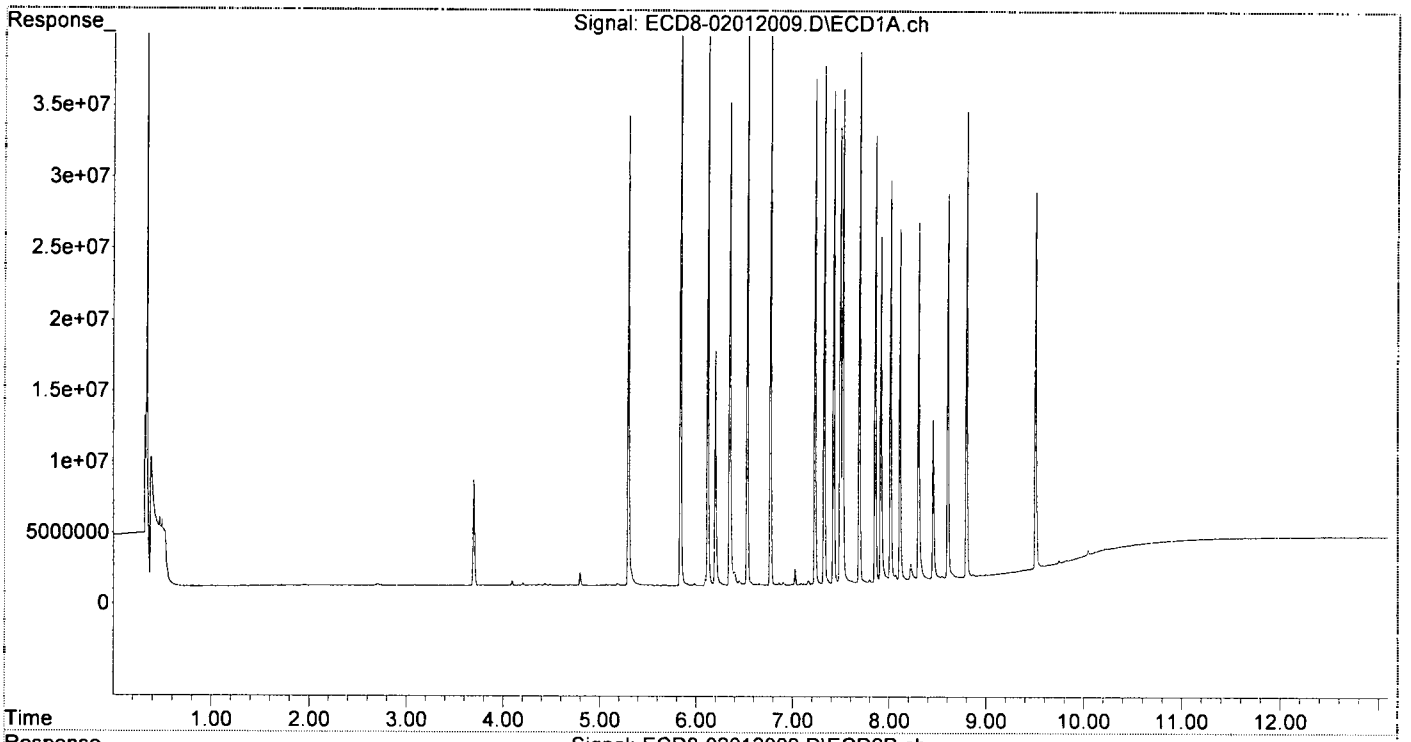
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.297	5.981	33031495	31880995	9.448	9.242	
22)	S DCBP (S)	9.507	10.537	26605868	21641632	10.038	10.109	
	Target Compounds							
2)	a-BHC	5.836	6.585	46556069	43486995	9.854	10.072	
3)	g-BHC	6.119	6.902	40429962	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.	

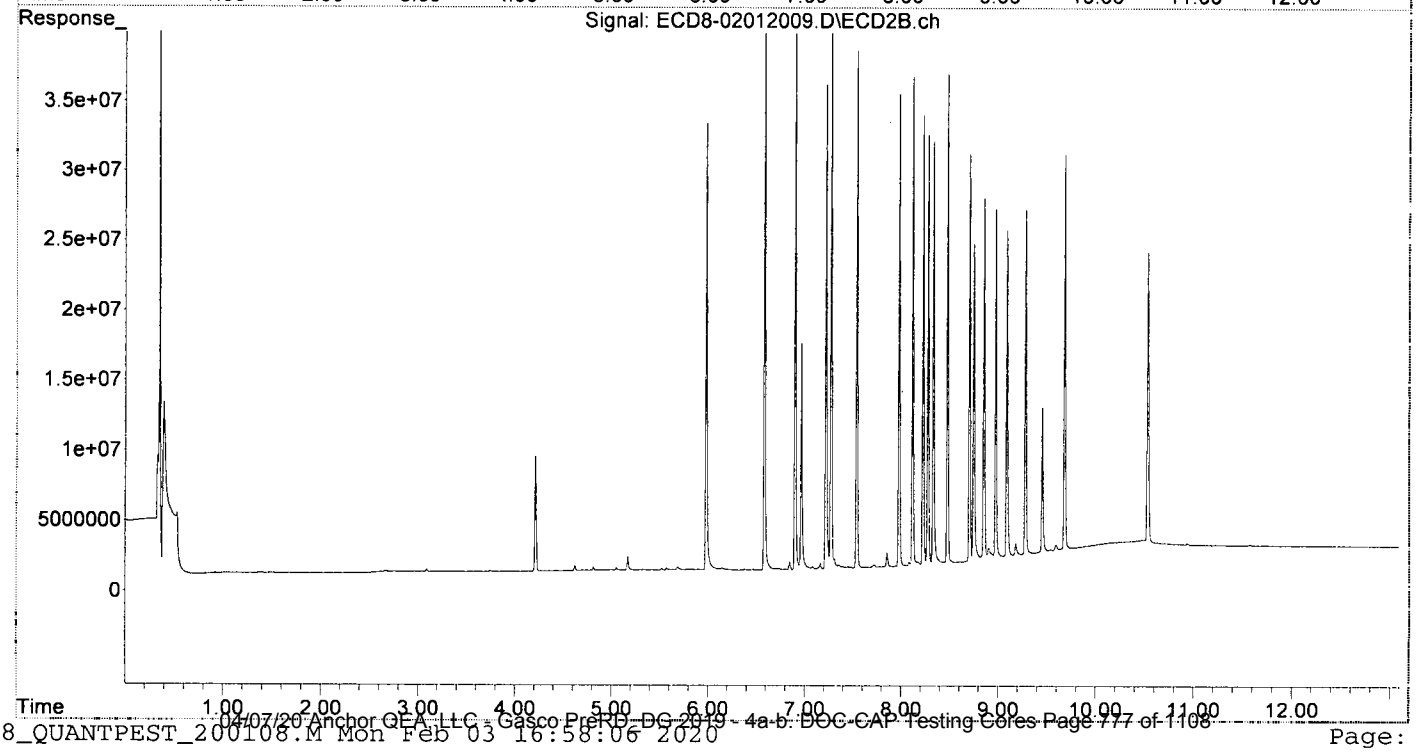
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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

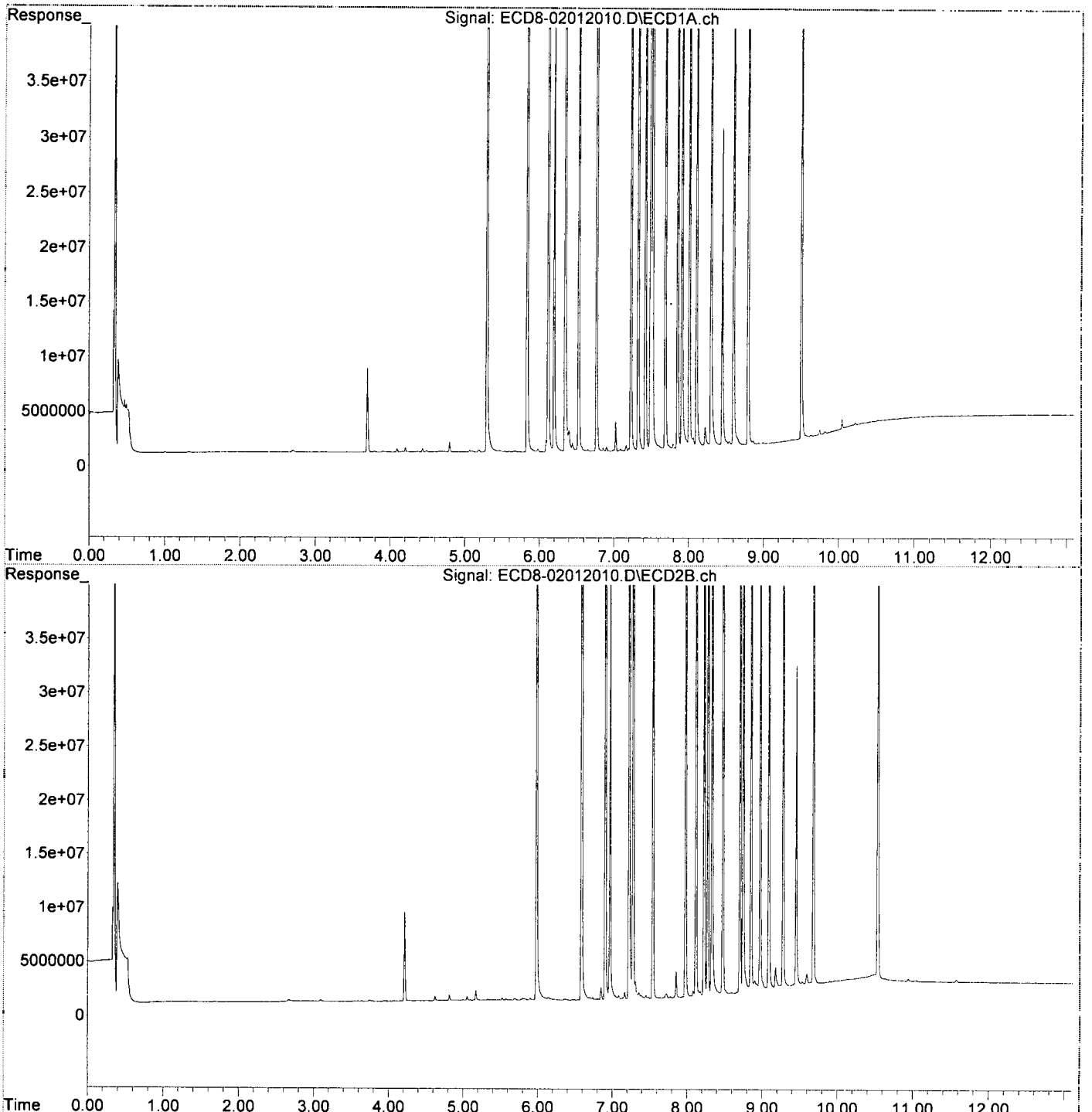
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.297	5.981	85829808	85149324	24.550	24.684	
22)	S DCBP (S)	9.507	10.537	66452642	54017910	25.390	25.564	
	Target Compounds							
2)	a-BHC	5.836	6.583	121.6E6	119.2E6	25.743	26.638	
3)	g-BHC	6.118	6.901	105.7E6	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

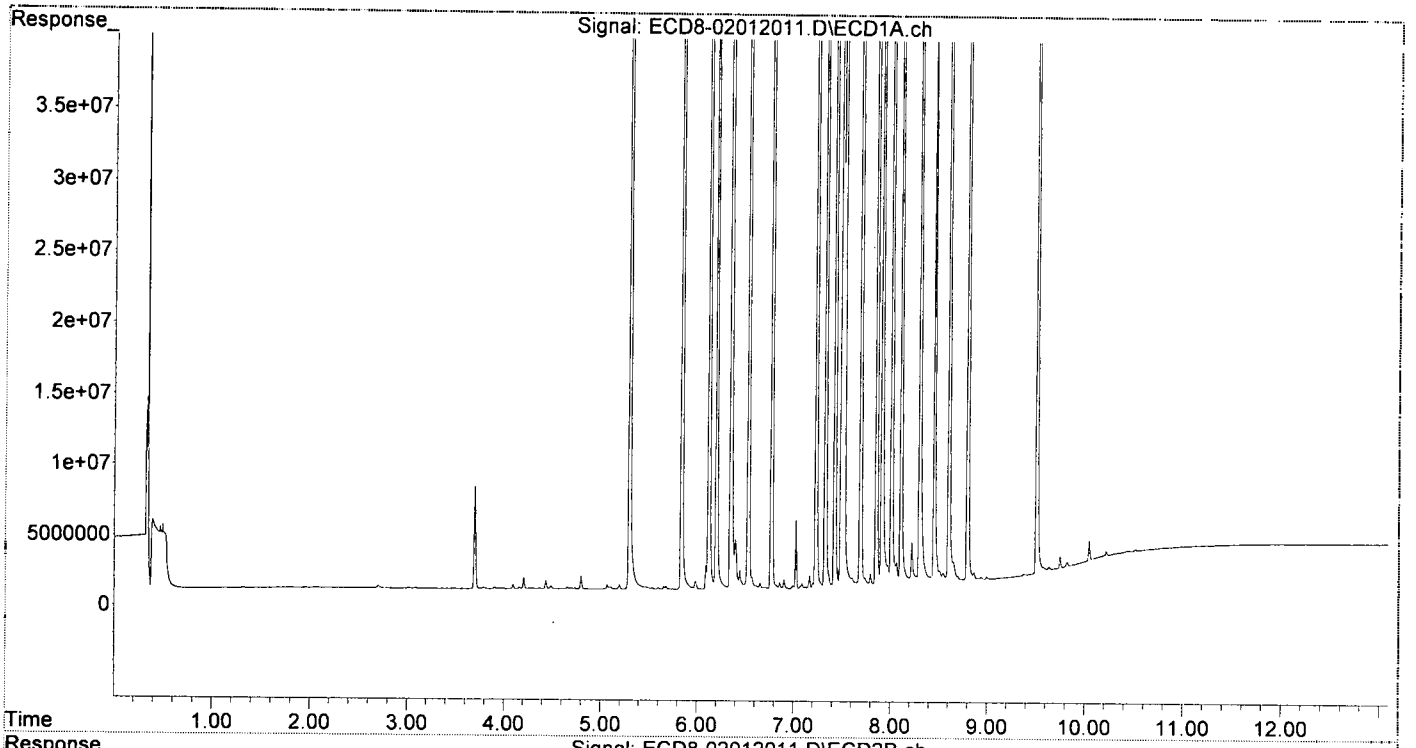
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	5.297	5.981	160.2E6	168.3E6	45.821	48.785	
22) S	DCBP (S)	9.507	10.537	123.4E6	103.8E6	46.953	48.422	
	Target Compounds							
2)	a-BHC	5.837	6.585	224.9E6	233.3E6	47.596	49.927	
3)	g-BHC	6.119	6.902	203.3E6	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.	

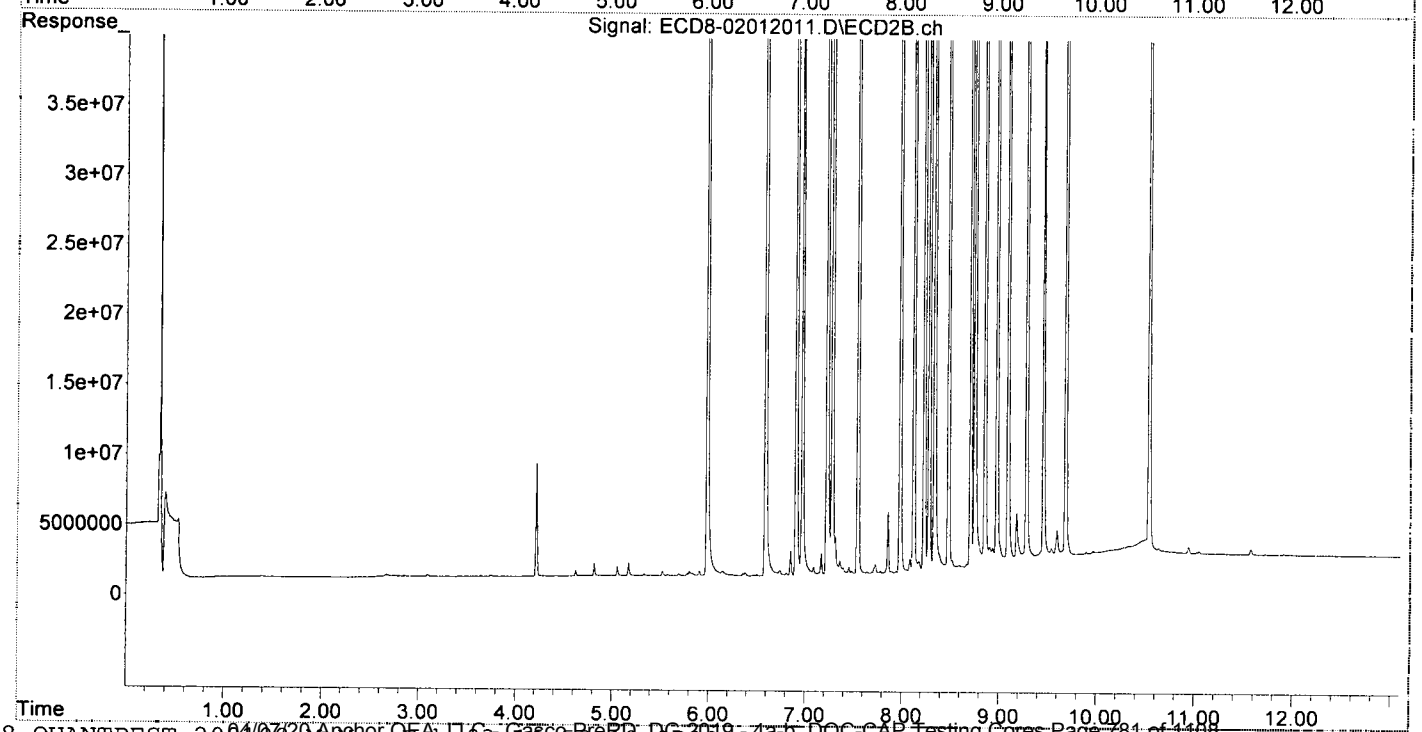
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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

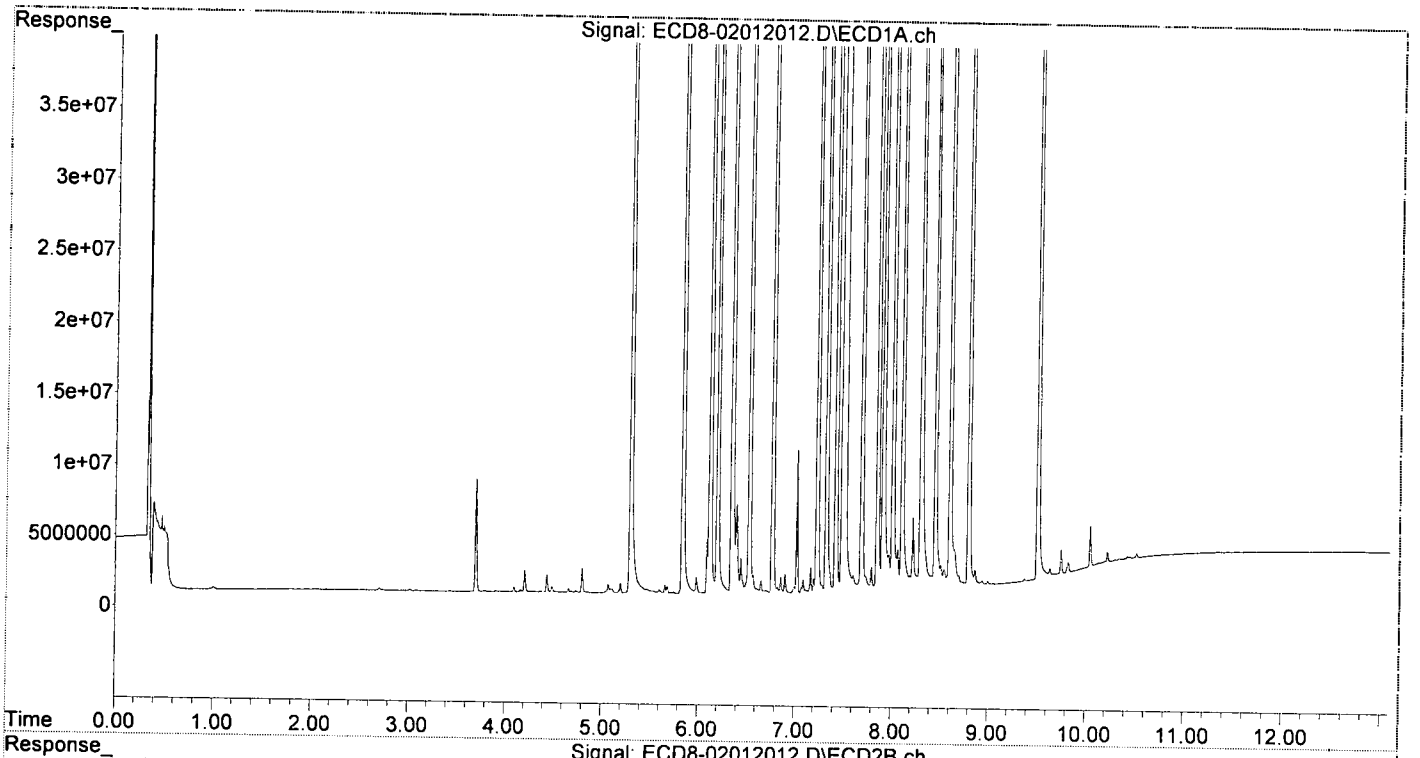
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.298	5.982	355.4E6	386.4E6	101.662	112.028	
22)	S DCBP (S)	9.507	10.537	280.1E6	240.0E6	104.273	106.329	
	Target Compounds							
2)	a-BHC	5.837	6.585	509.4E6	553.7E6	107.818	107.465	
3)	g-BHC	6.120	6.902	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.	

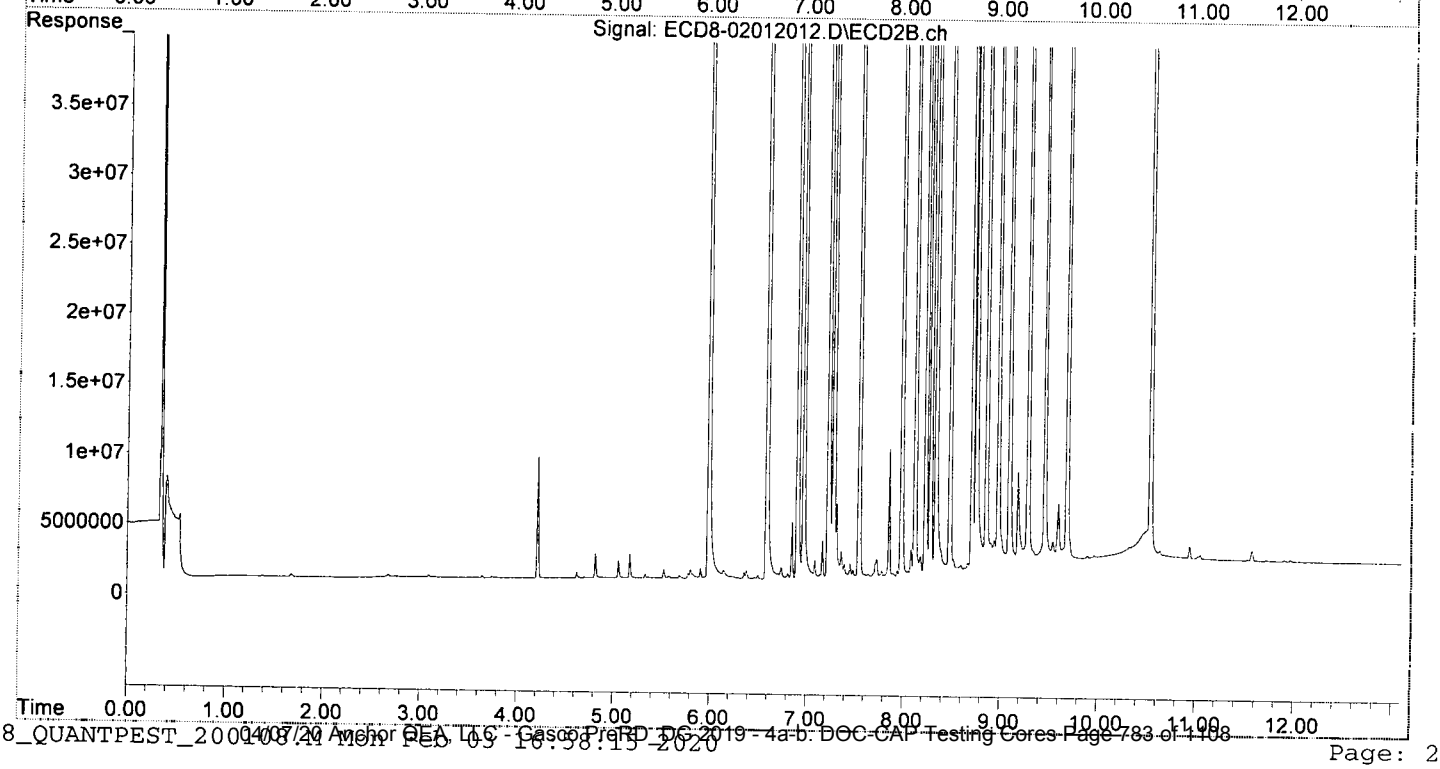
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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

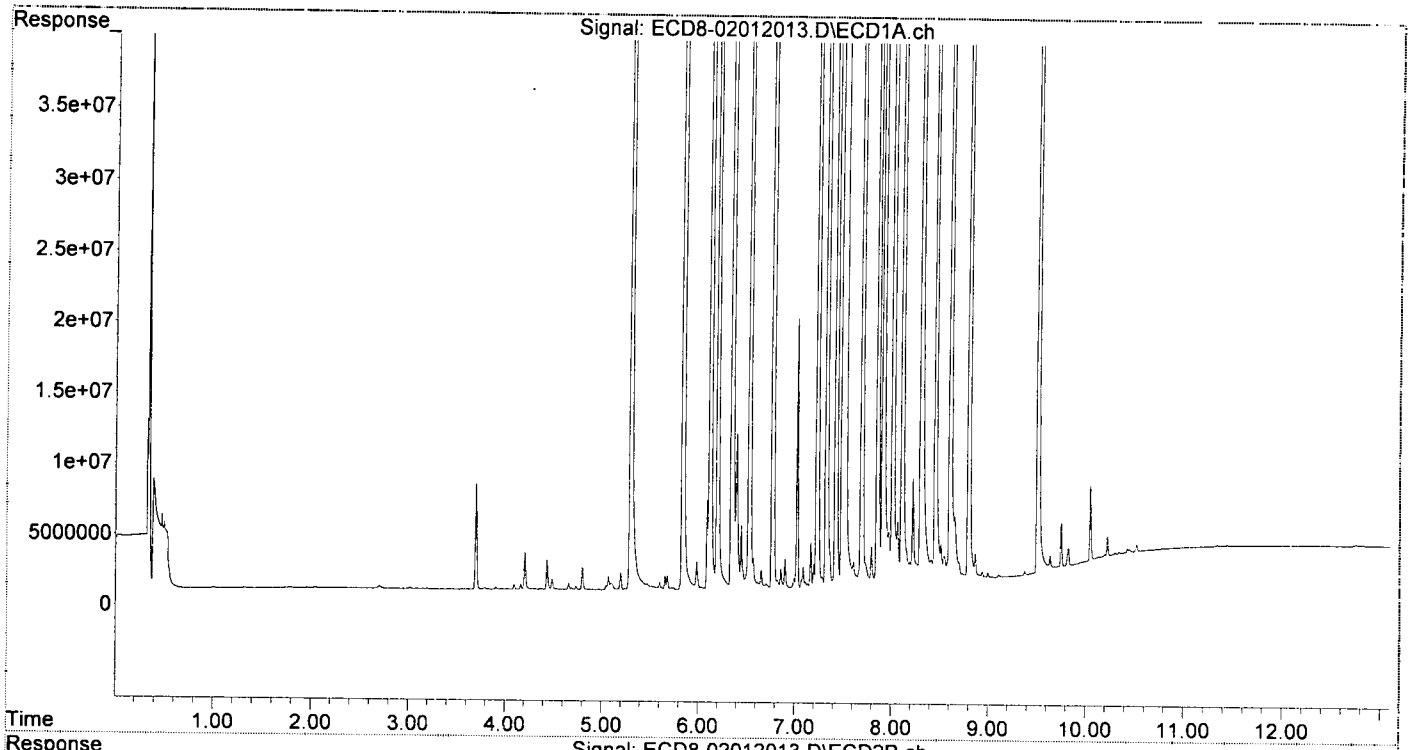
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.297	5.981	683.0E6	808.5E6	195.366	234.378	
22)	S DCBP (S)	9.507	10.537	554.4E6	477.6E6	198.363	195.289	
	Target Compounds							
2)	a-BHC	5.837	6.585	1000.4E6	1133.4E6	211.739	193.275	
3)	g-BHC	6.119	6.902	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.	

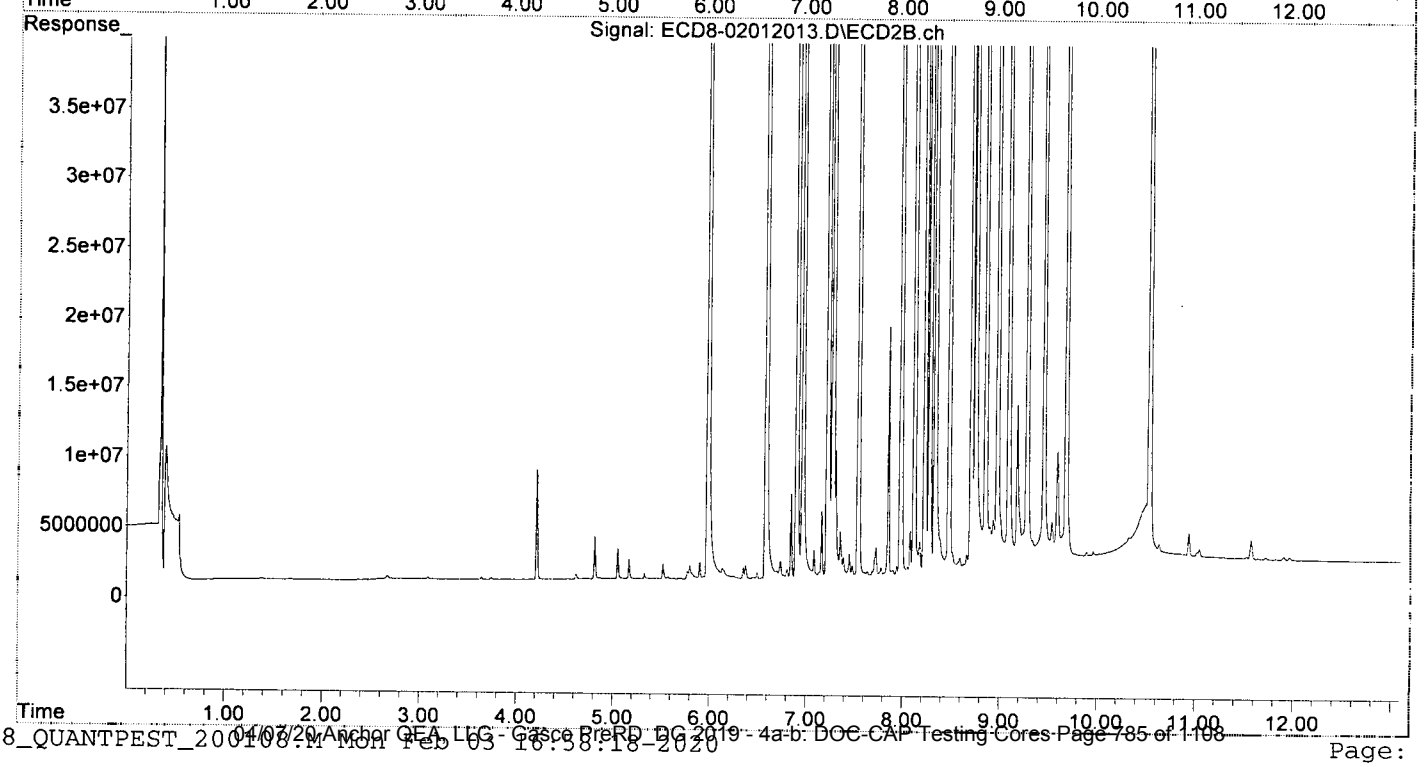
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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

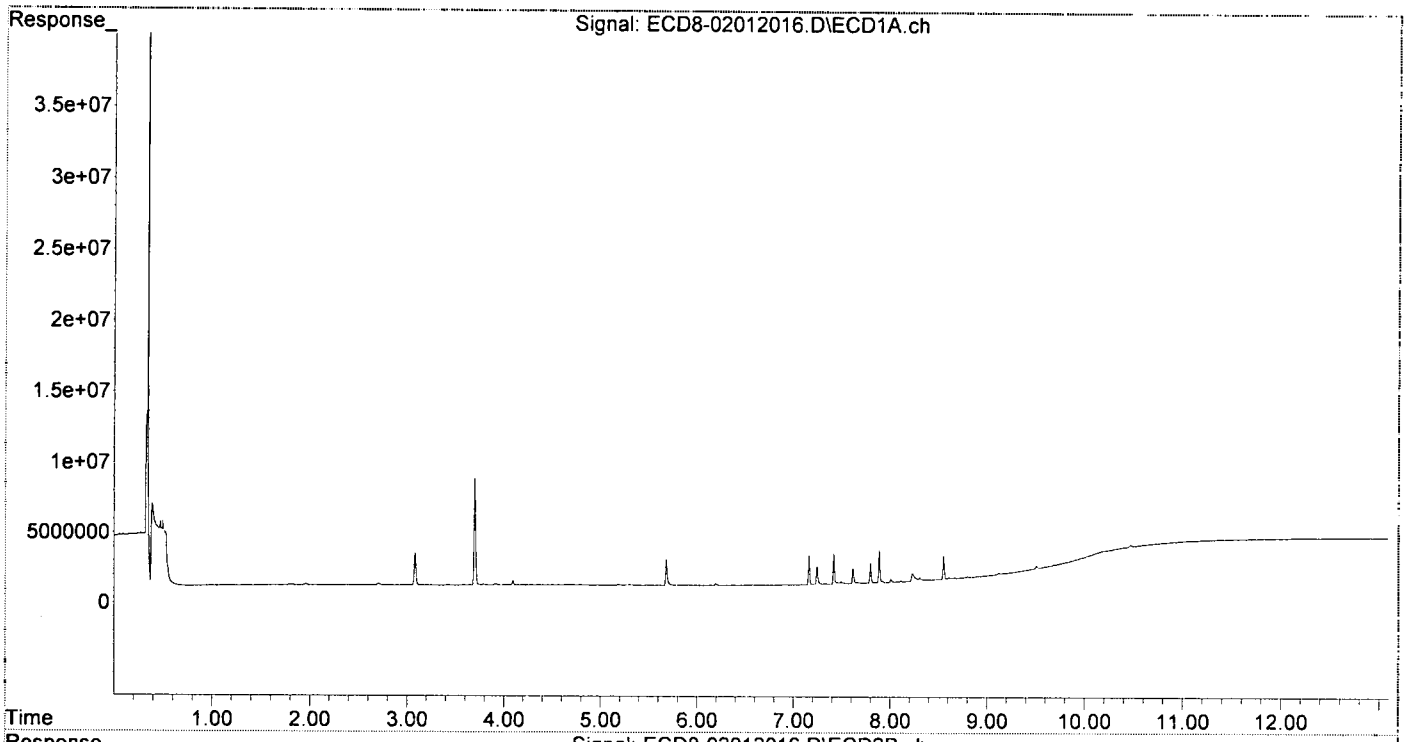
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.299	5.985	68485	103337	0.020	0.030	#
22)	S DCBP (S)	9.508	10.537	377603	163698	BelowCal	BelowCal	
	Target Compounds							
2)	a-BHC	5.846	6.582	35427	35202	0.007	0.084	#
3)	g-BHC	6.146f	6.904	28094	12379	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.	

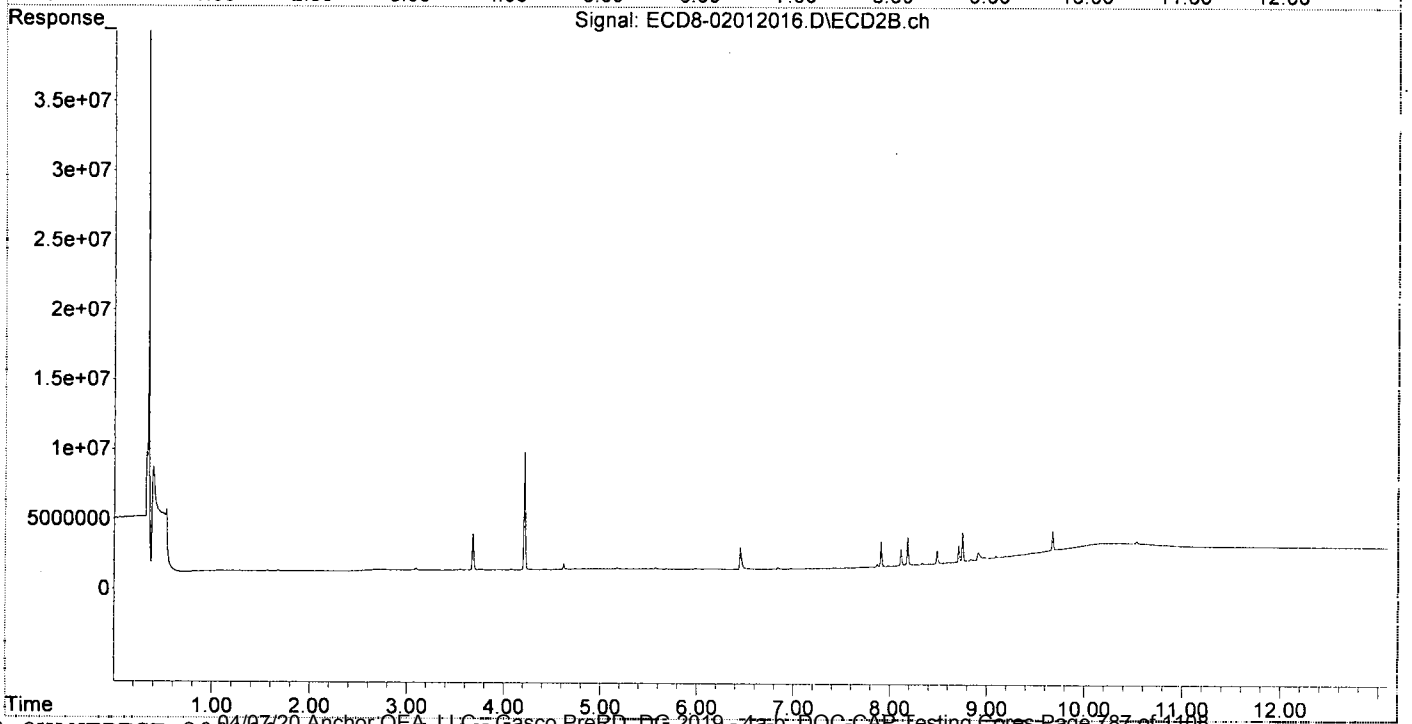
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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

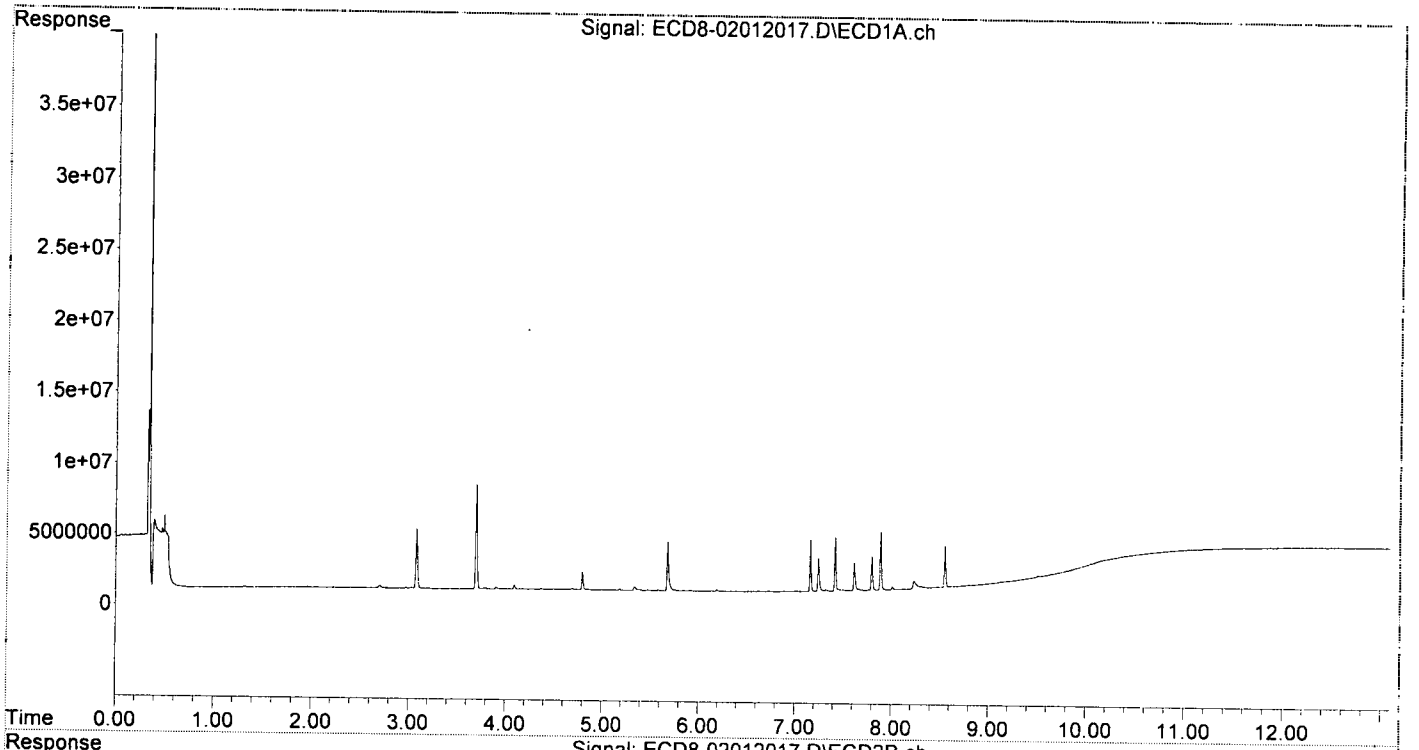
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.337f	5.984	229364	104783	0.066	0.030	#
22)	S DCBP (S)	9.508	10.536	256145	681144	BelowCal	BelowCal	
	Target Compounds							
2)	a-BHC	5.844	6.579	36088	42418	0.008	0.086	#
3)	g-BHC	6.136	6.938f	33688	6890	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.	

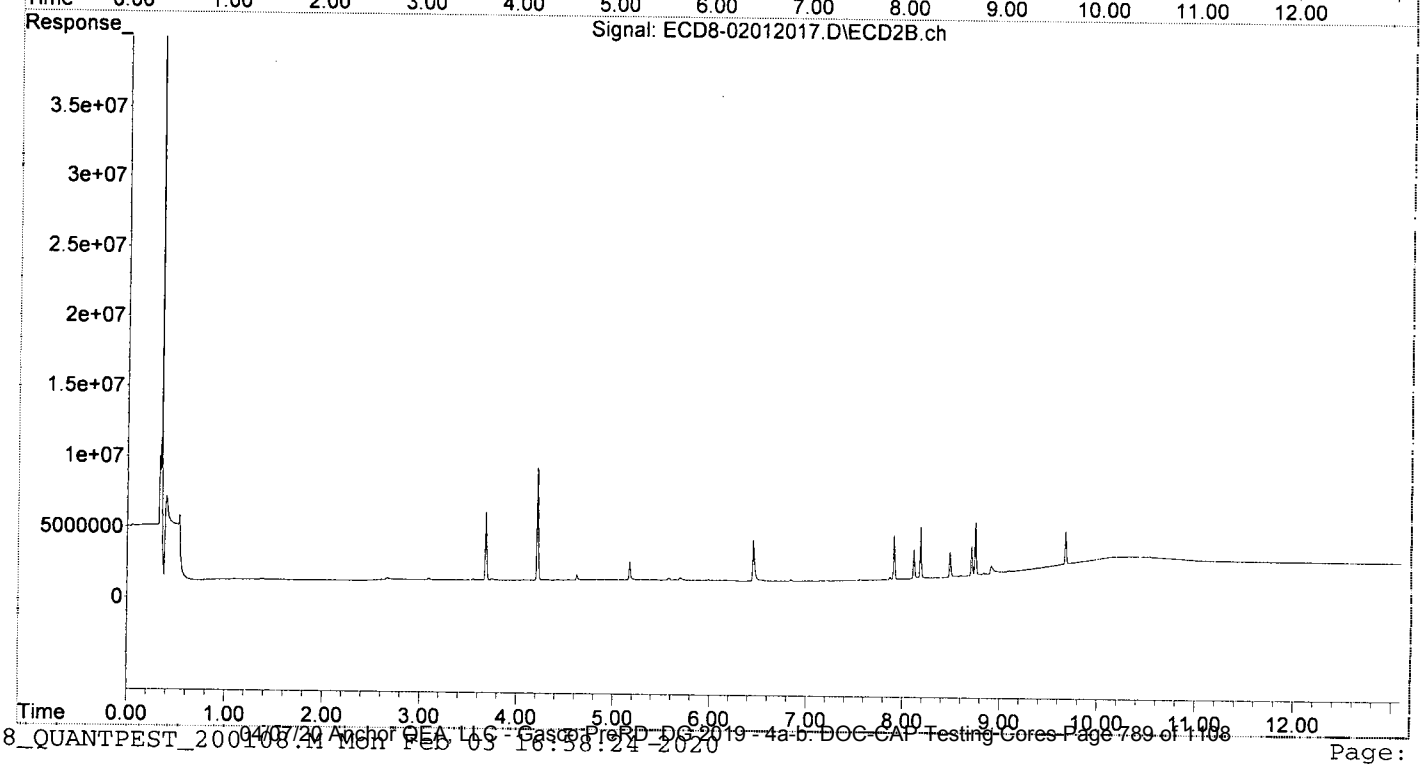
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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

MR 2/3/20

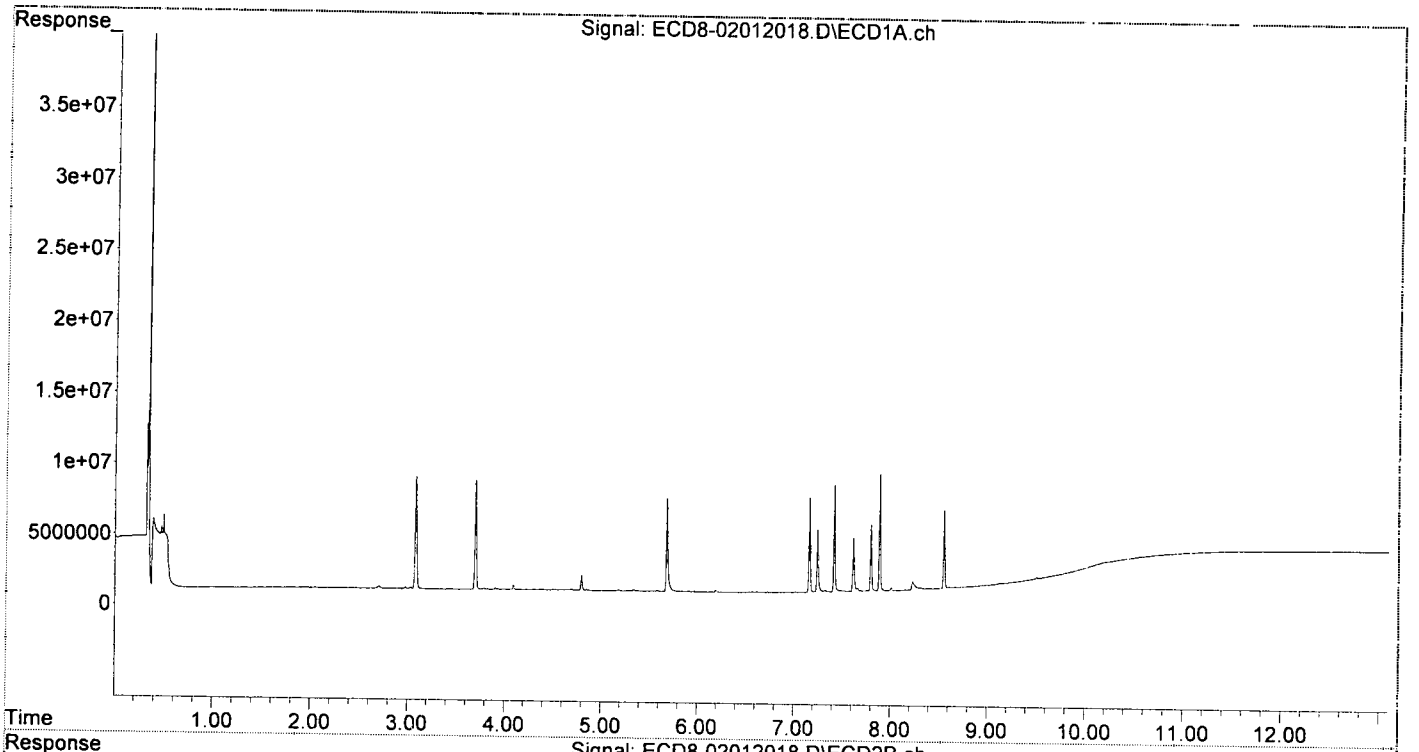
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	5.299	5.983	19602	101756	0.006	0.029 #
22)	S	DCBP (S)	9.506	10.538	109381	596649	BelowCal	BelowCal
		Target Compounds						
2)		a-BHC	5.841	6.584	55246	56316	0.012	0.089 #
3)		g-BHC	6.138	6.904	39150	10198	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.

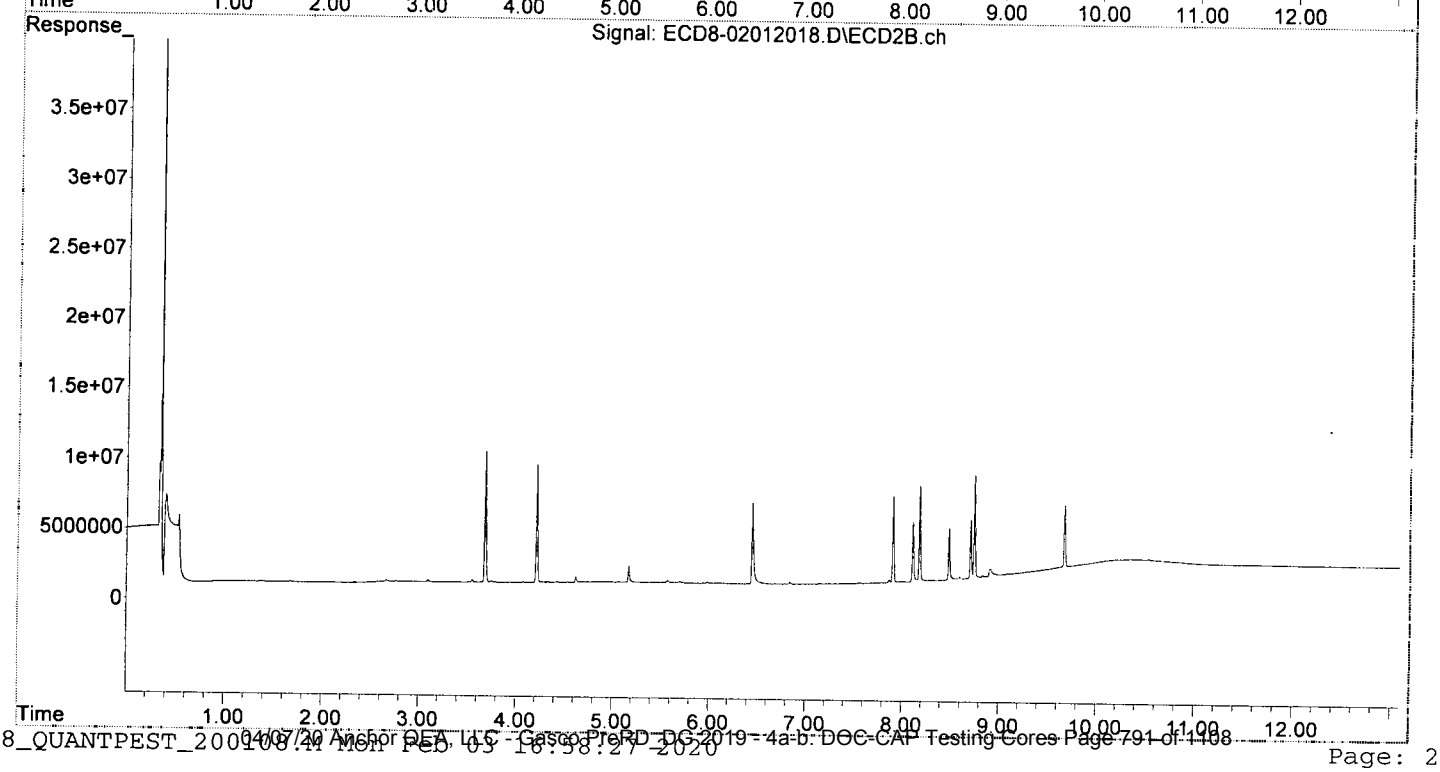
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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

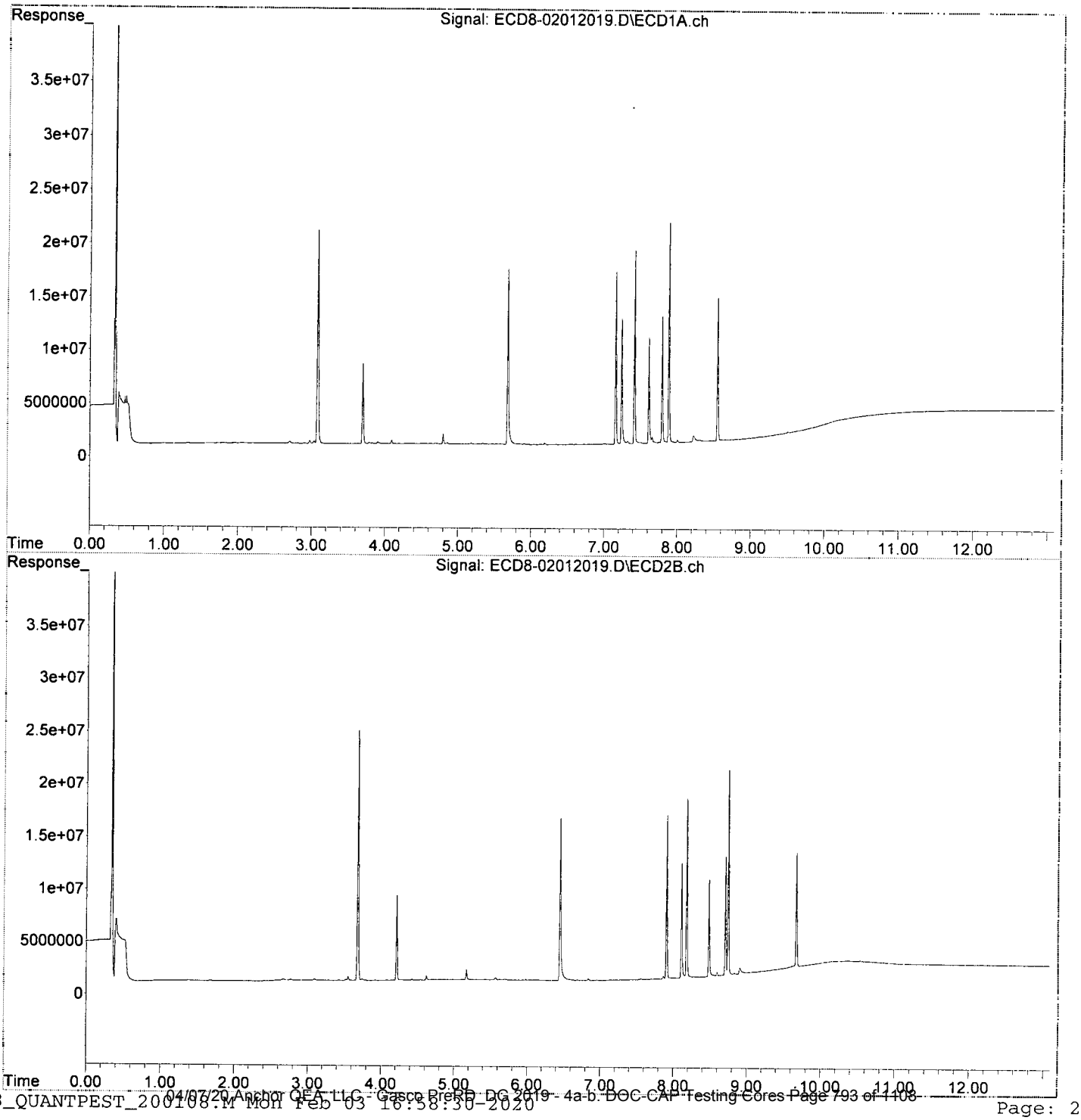
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.274f	5.983	35388	75103	0.010	0.022	#
22)	S	DCBP (S)	9.508	10.536	305584	1041976	BelowCal	0.008	
		Target Compounds							
2)		a-BHC	5.838	6.580	105593	130785	0.022	0.106	#
3)		g-BHC	6.134	6.903	74335	44969	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

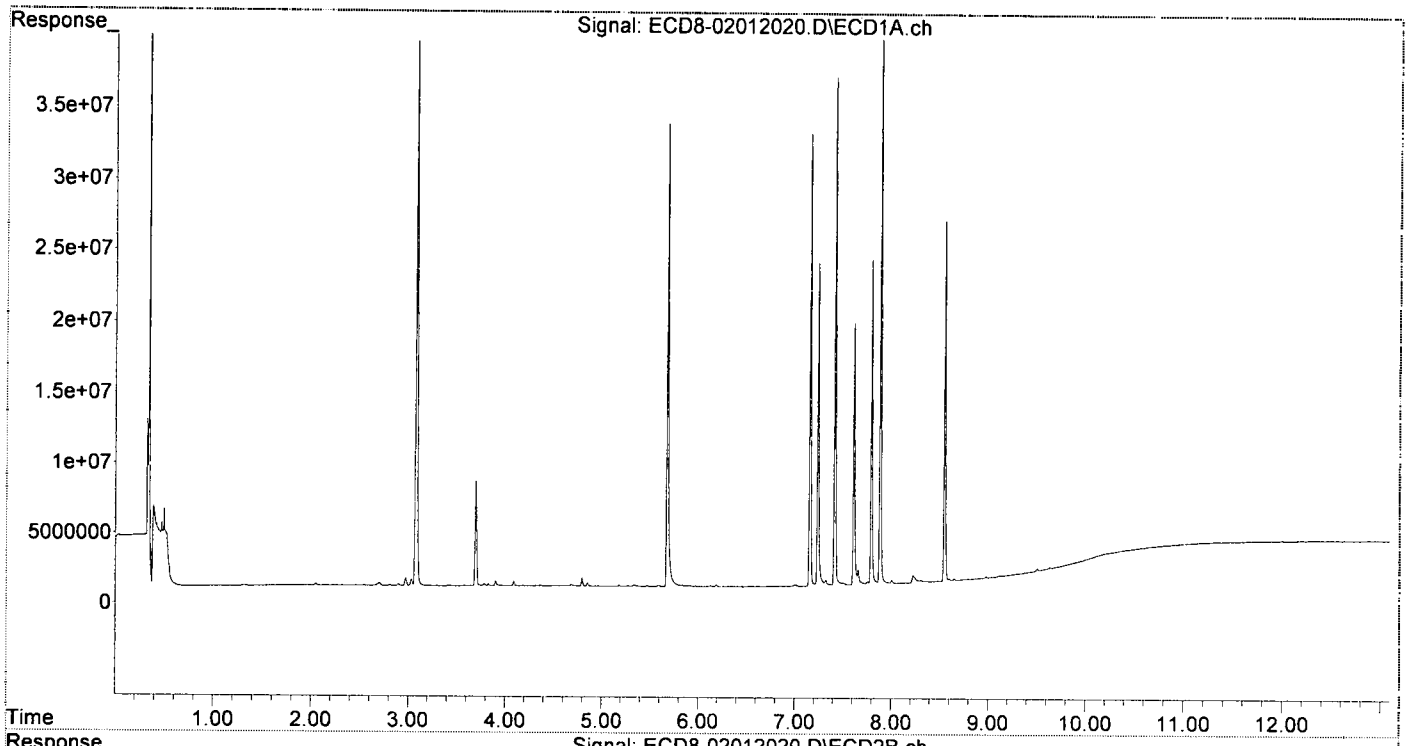
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.274f	5.986	81445	79788	0.023	0.023	
22)	S	DCBP (S)	9.507	10.538	324289	369785	BelowCal	BelowCal	
		Target Compounds							
2)		a-BHC	5.841	0.000	99883	0	0.021	N.D.	#
3)		g-BHC	6.109	6.902	26027	16767	0.006	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.	

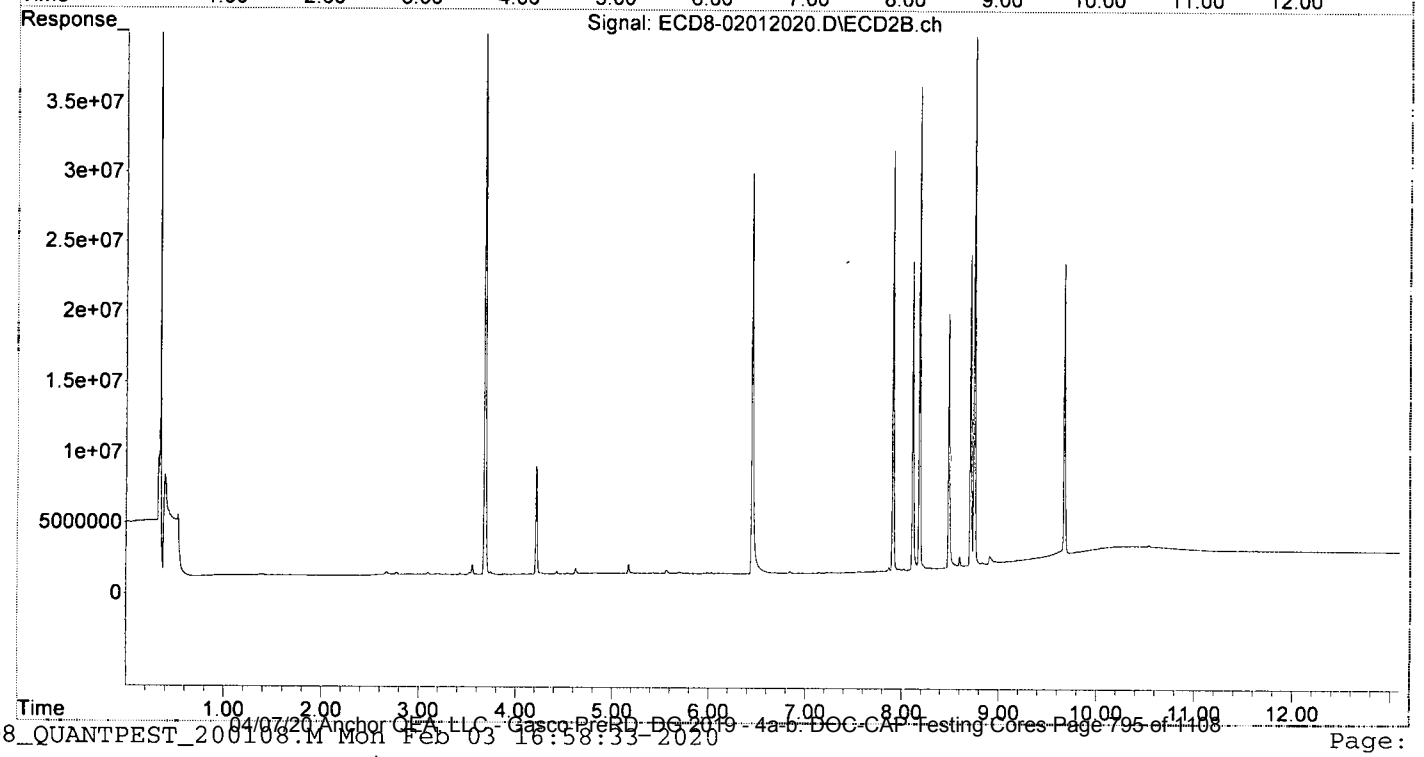
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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

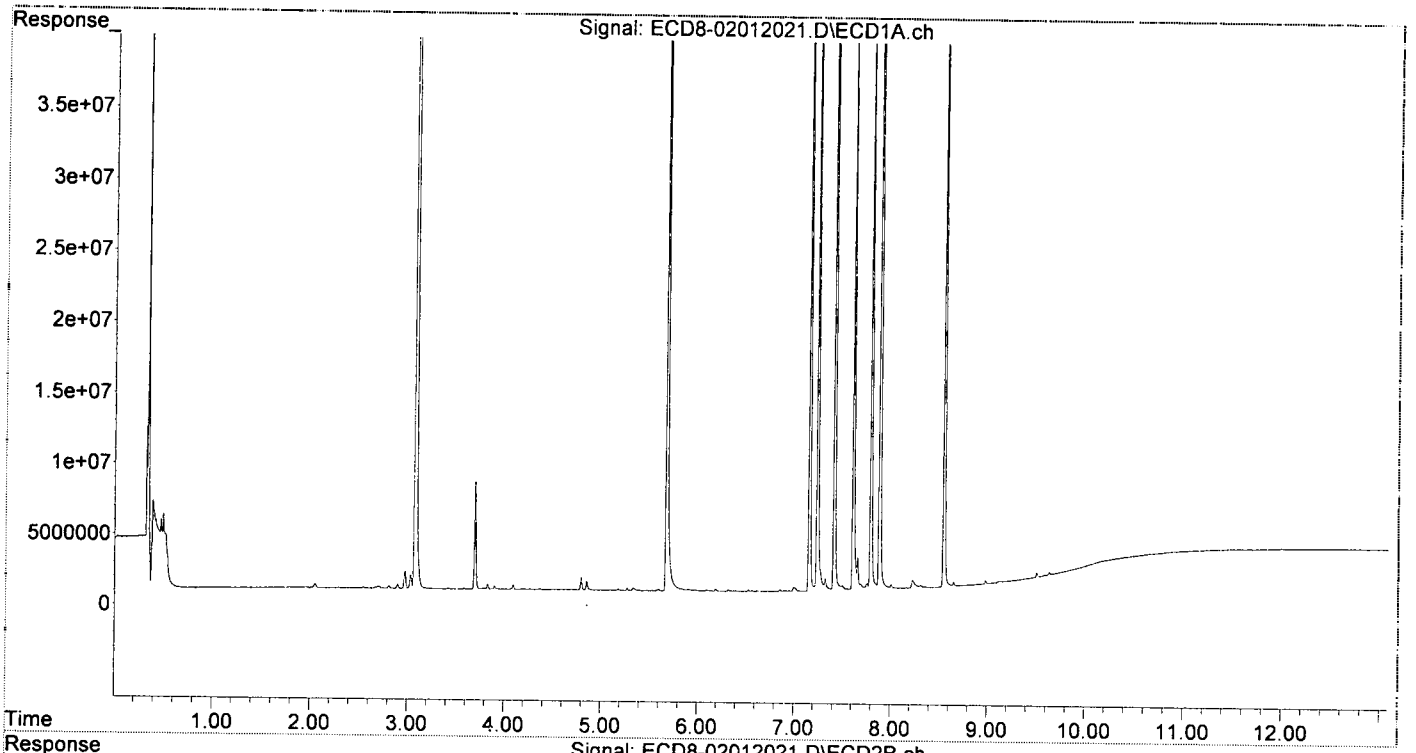
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.273f	5.983	172543	81641	0.049	0.024	#
22)	S DCBP (S)	9.507	10.536	471771	879618	BelowCal	BelowCal	
	Target Compounds							
2)	a-BHC	5.839	0.000	166681	0	0.035	N.D.	#
3)	g-BHC	6.135	6.933f	51177	19174	0.012	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.	

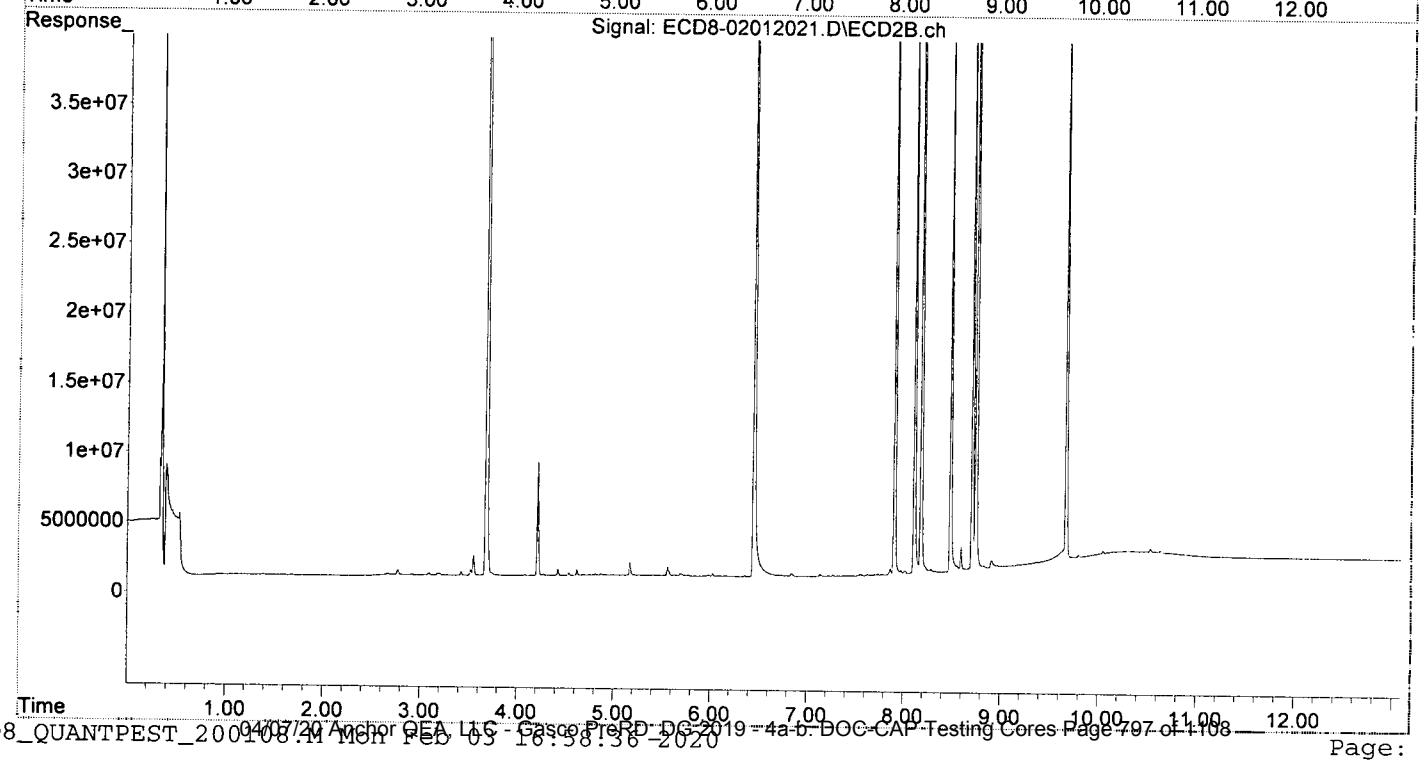
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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

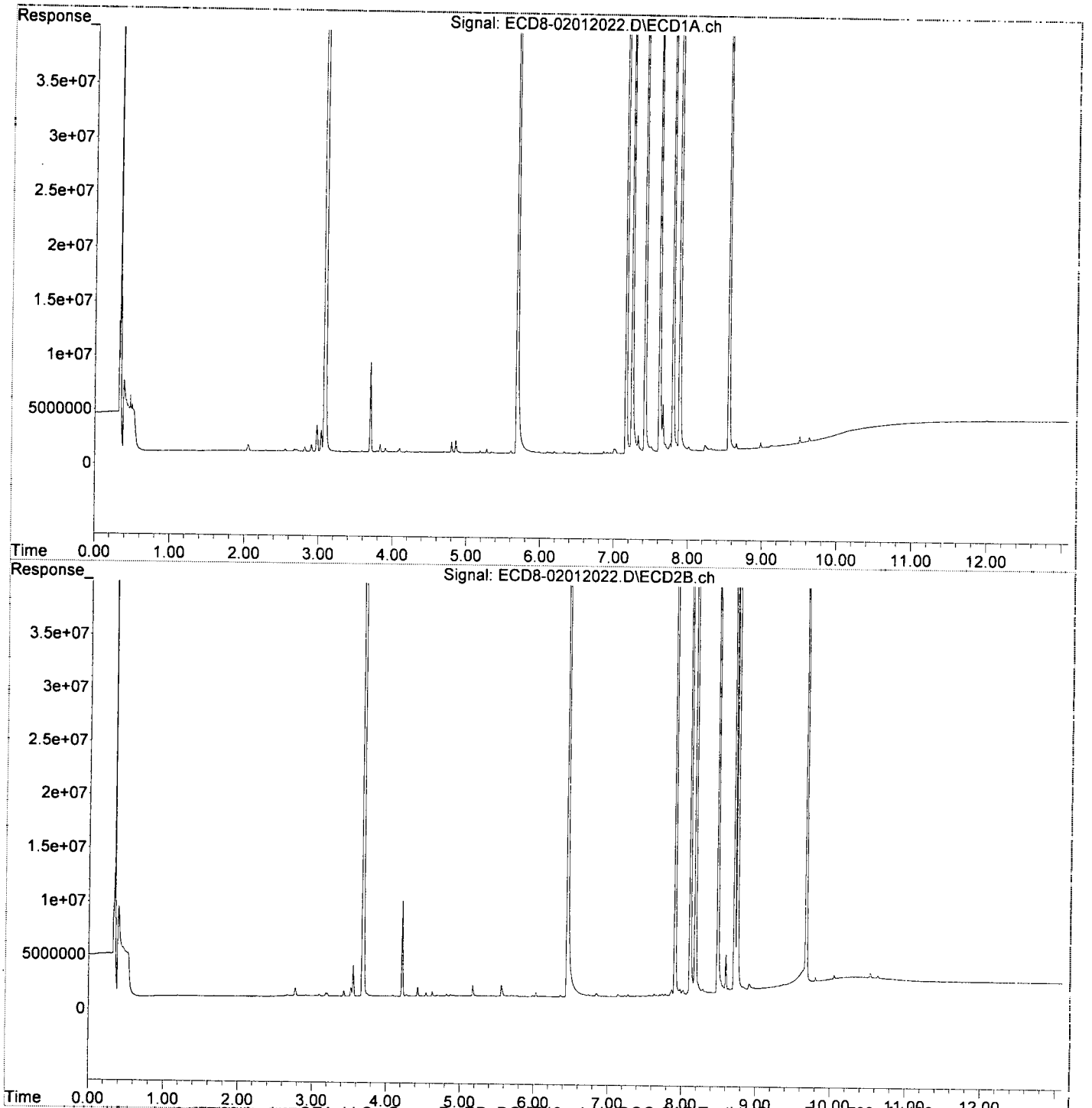
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.273f	5.983	378443	98341	0.108	0.029	#
22)	S	DCBP (S)	9.507	10.537	770659	1505892	BelowCal	0.238	
		Target Compounds							
2)		a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)		g-BHC	6.131	6.921	42529	49908	0.010	0.055	#
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

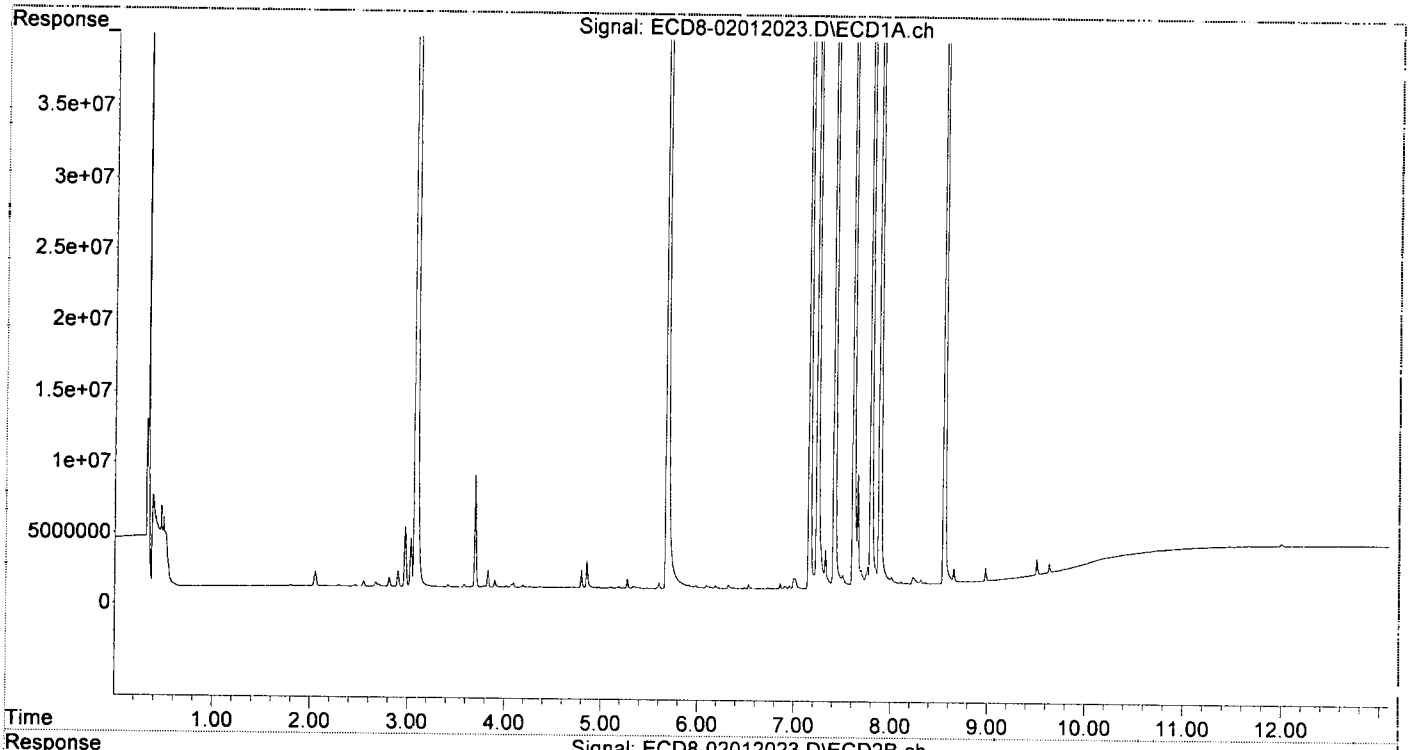
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.273f	5.983	681545	104717	0.195	0.030	#
22)	S	DCBP (S)	9.508	10.537	1256804	1267933	0.157	0.120	
		Target Compounds							
2)		a-BHC	5.837	0.000	374614	0	0.079	N.D.	#
3)		g-BHC	6.138	6.931f	45065	89708	0.011	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.	

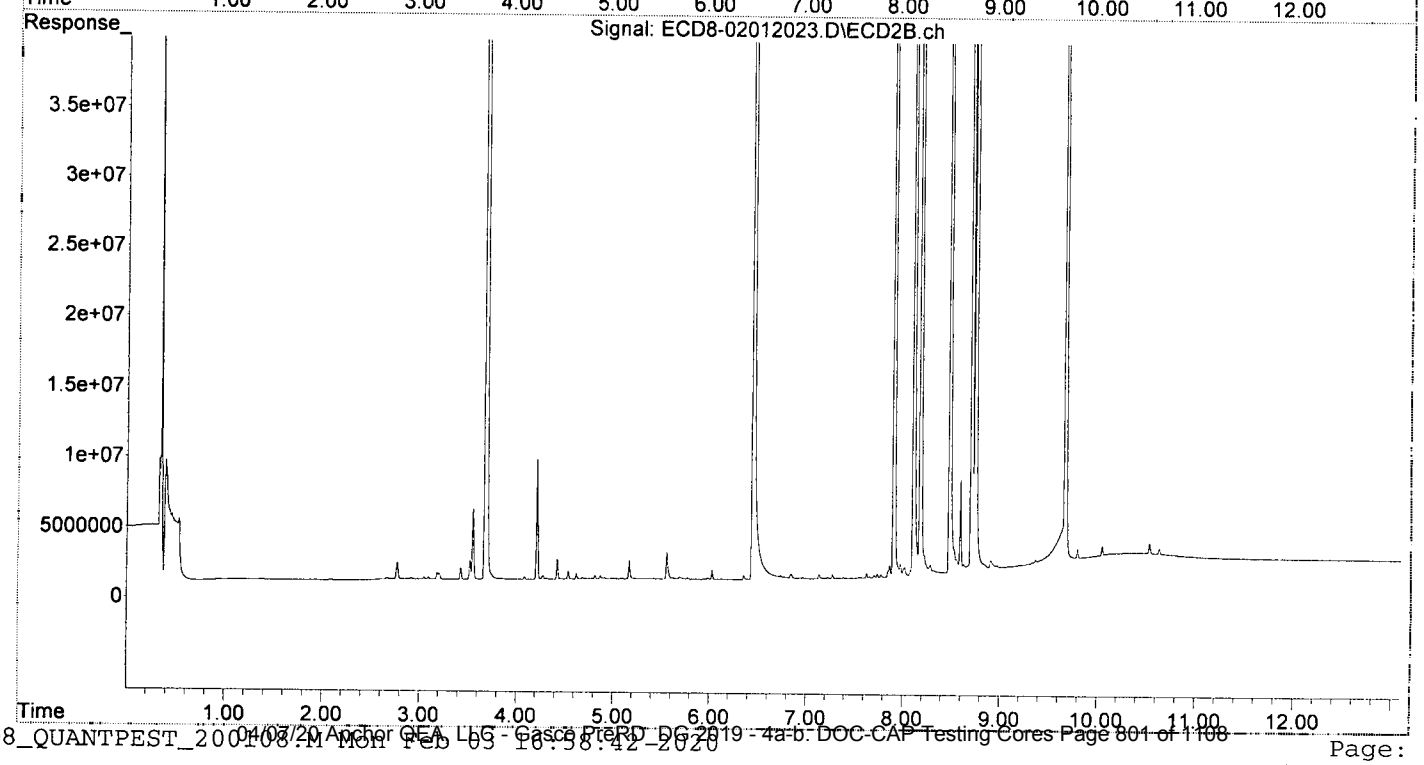
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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

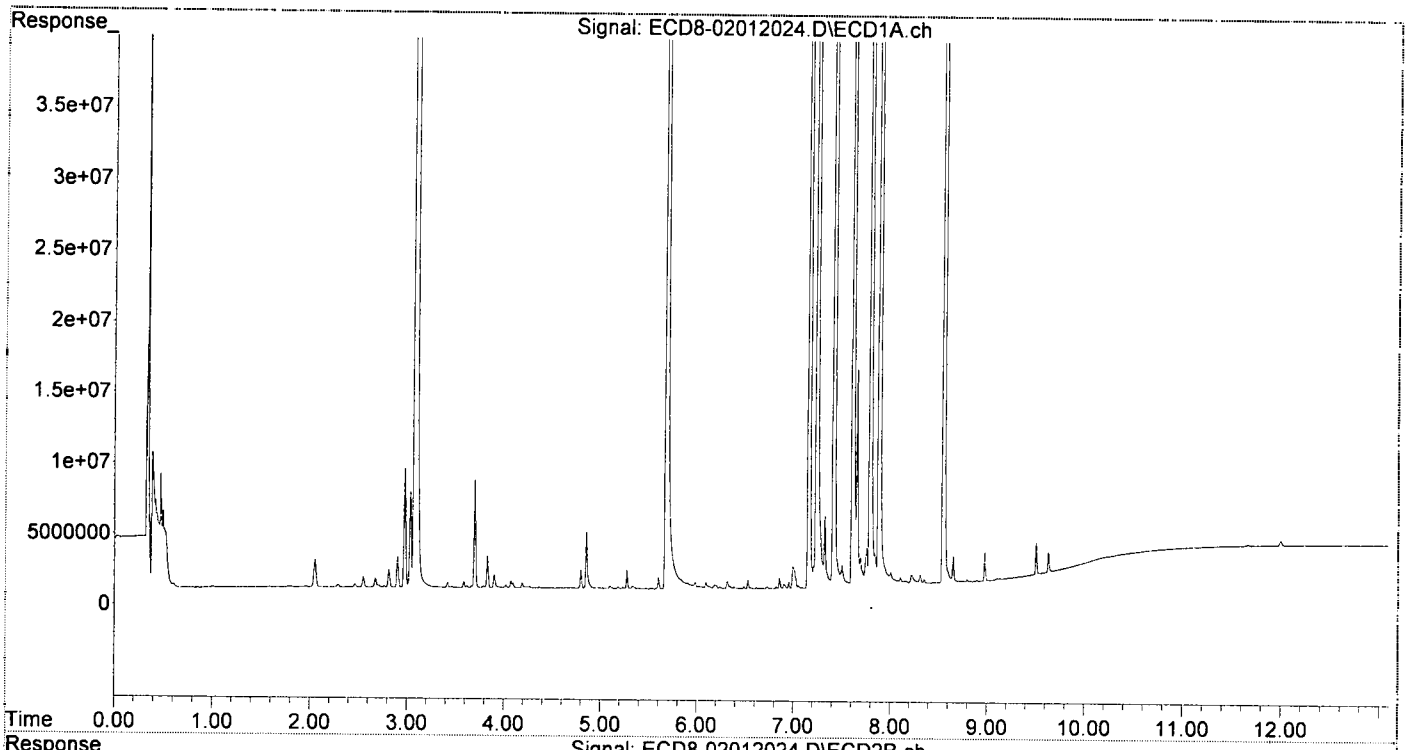
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.273f	5.979	1304536	82402	0.373	0.024	#
22)	S DCBP (S)	9.506	10.535	2233814	2678724	0.540	0.818	#
	Target Compounds							
2)	a-BHC	5.833	0.000	700515	0	0.148	N.D.	#
3)	g-BHC	6.117	6.904	203946	144858	0.049	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.	

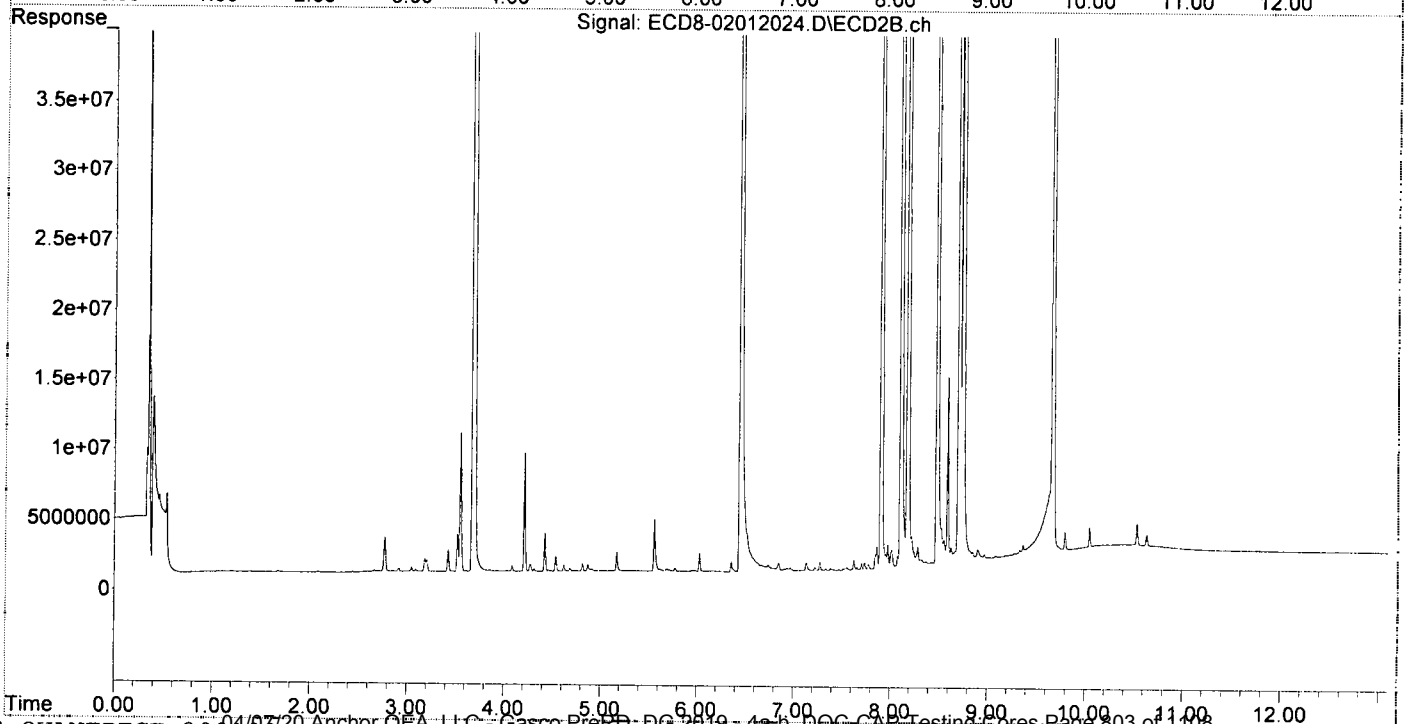
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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

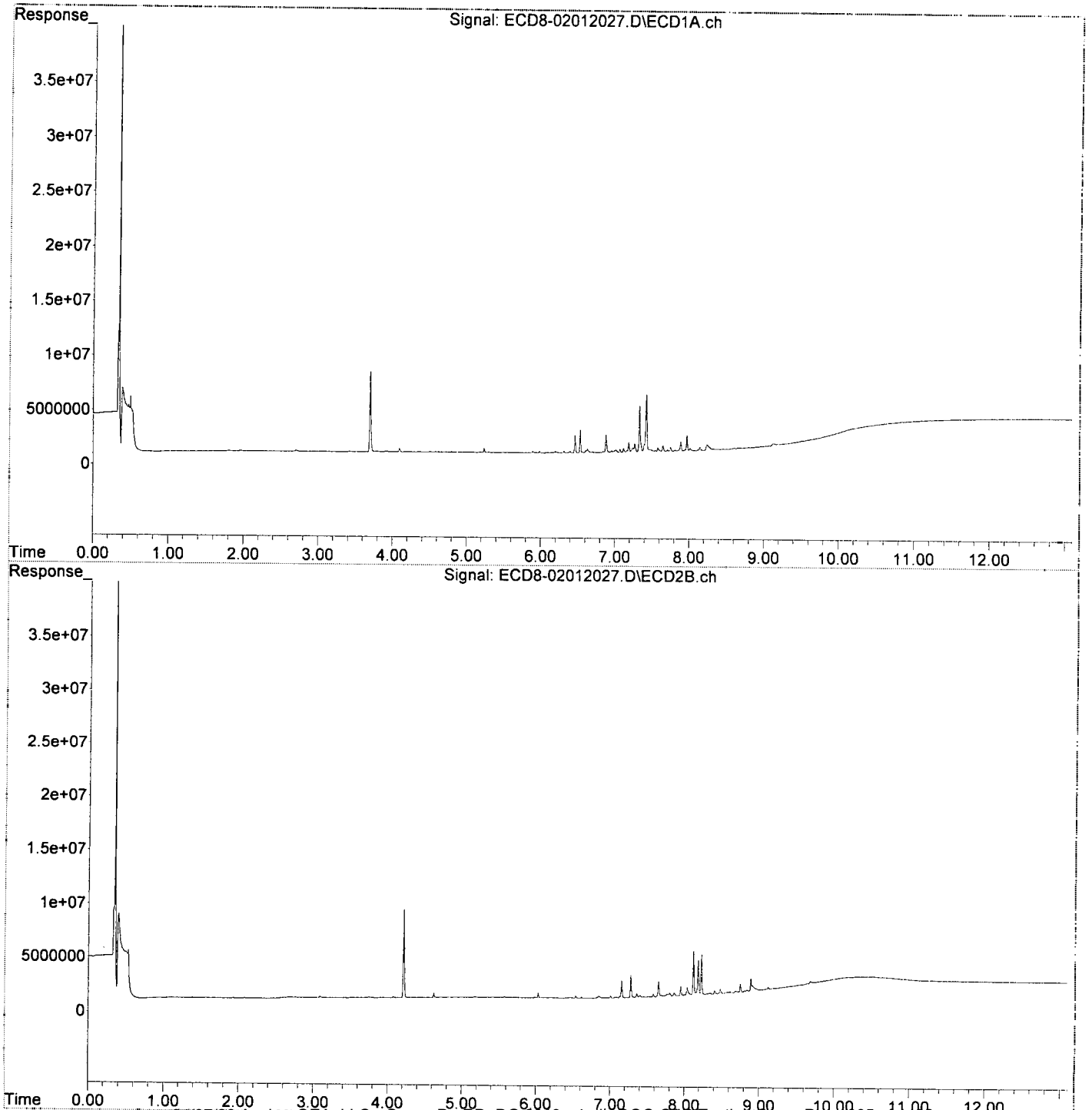
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.298	5.983	37371	62991	0.011	0.018	#
22)	S	DCBP (S)	9.509	10.536	201674	561115	BelowCal	BelowCal	
		Target Compounds							
2)		a-BHC	5.846	6.611f	24343	115221	0.005	0.103	#
3)		g-BHC	6.091f	6.912	65256	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

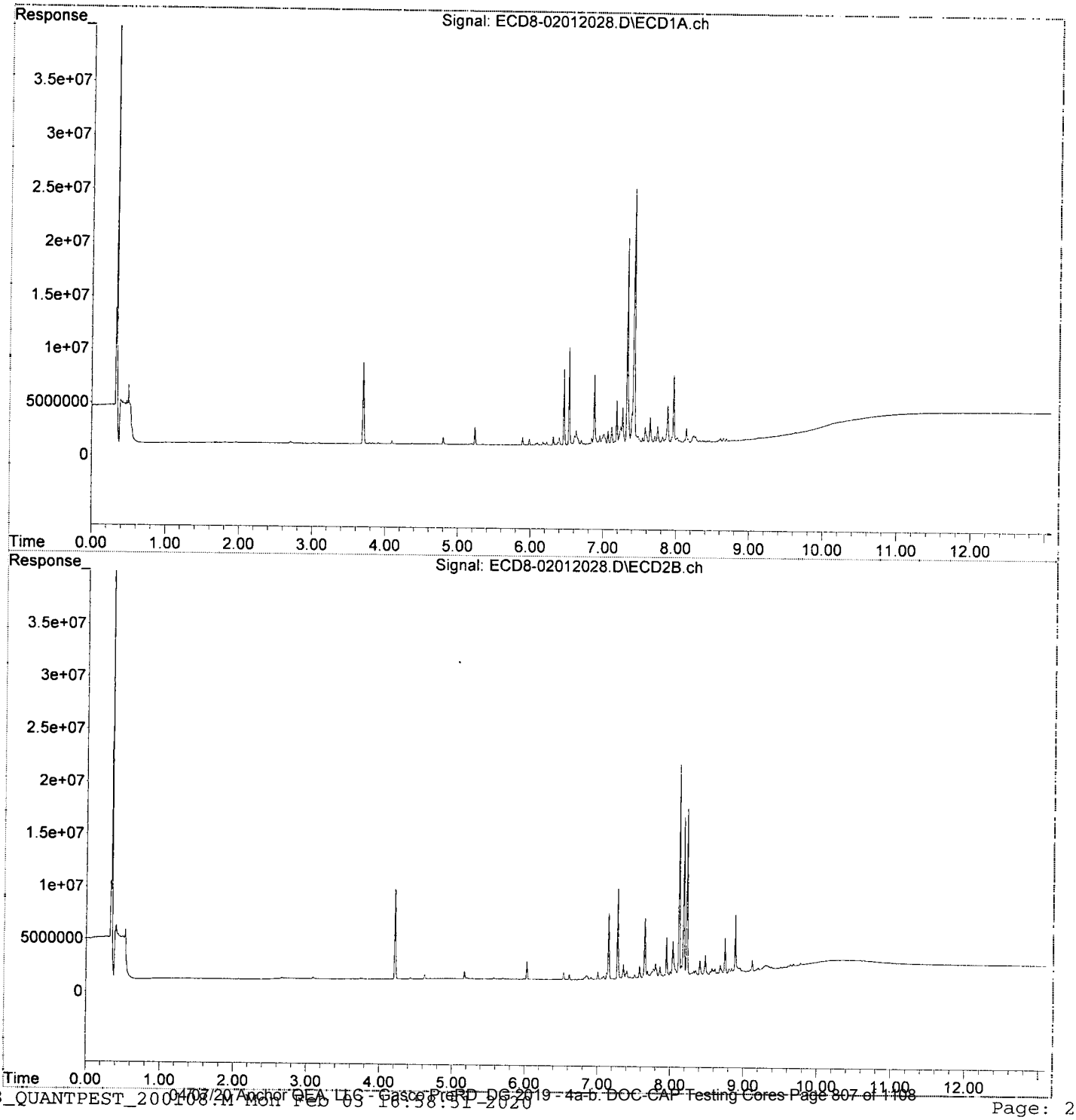
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	0.000	5.987	0	80767	N.D.	0.023	#
22)	S DCBP (S)	9.510	10.540	186477	988312	BelowCal	BelowCal	
	Target Compounds							
2)	a-BHC	5.843	6.611f	34117	507112	0.007	0.195	#
3)	g-BHC	6.138	6.911	45252	221321	0.011	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

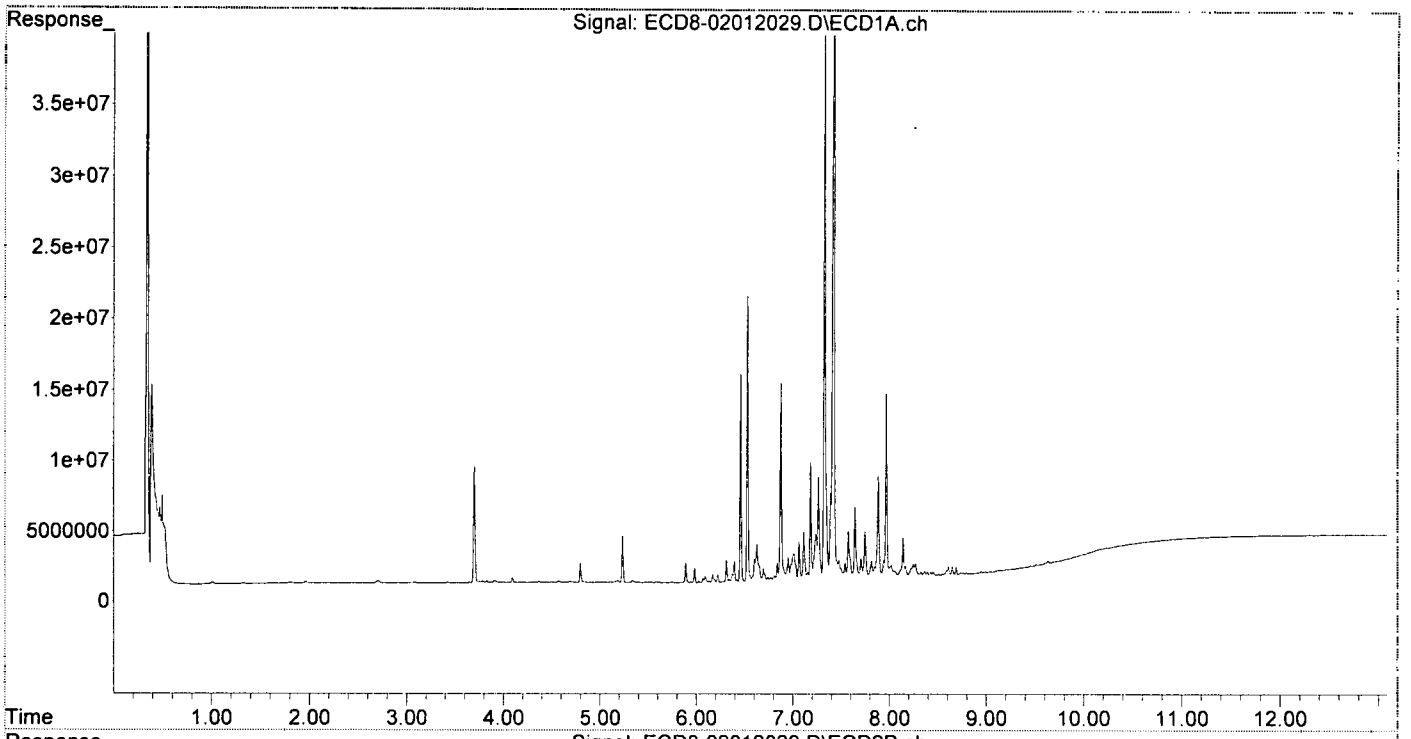
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.296	5.981	18285	139852	0.005	0.041	#
22)	S DCBP (S)	9.511	10.548	233812	955797	BelowCal	BelowCal	
	Target Compounds							
2)	a-BHC	5.836	6.559f	40233	71861	0.009	0.093	#
3)	g-BHC	6.137	6.910	63520	453479	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.	

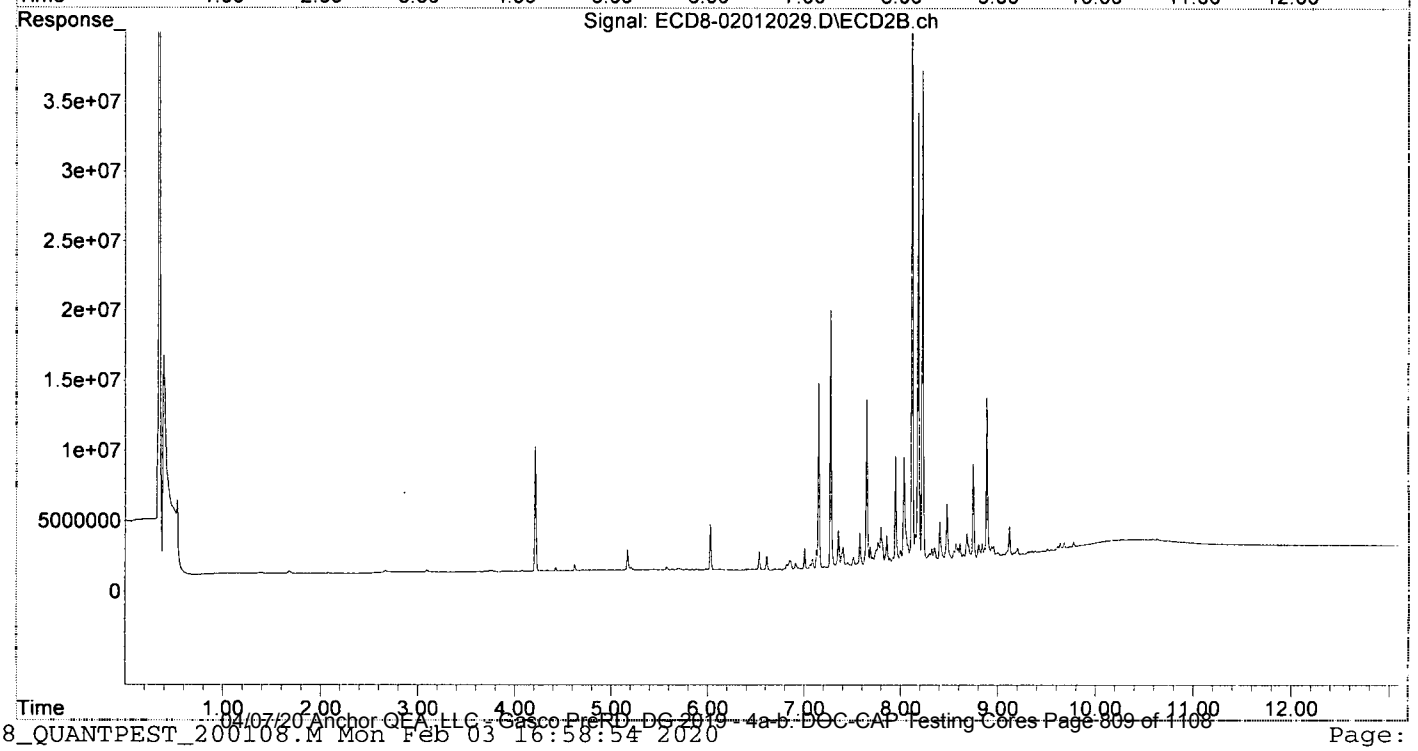
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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

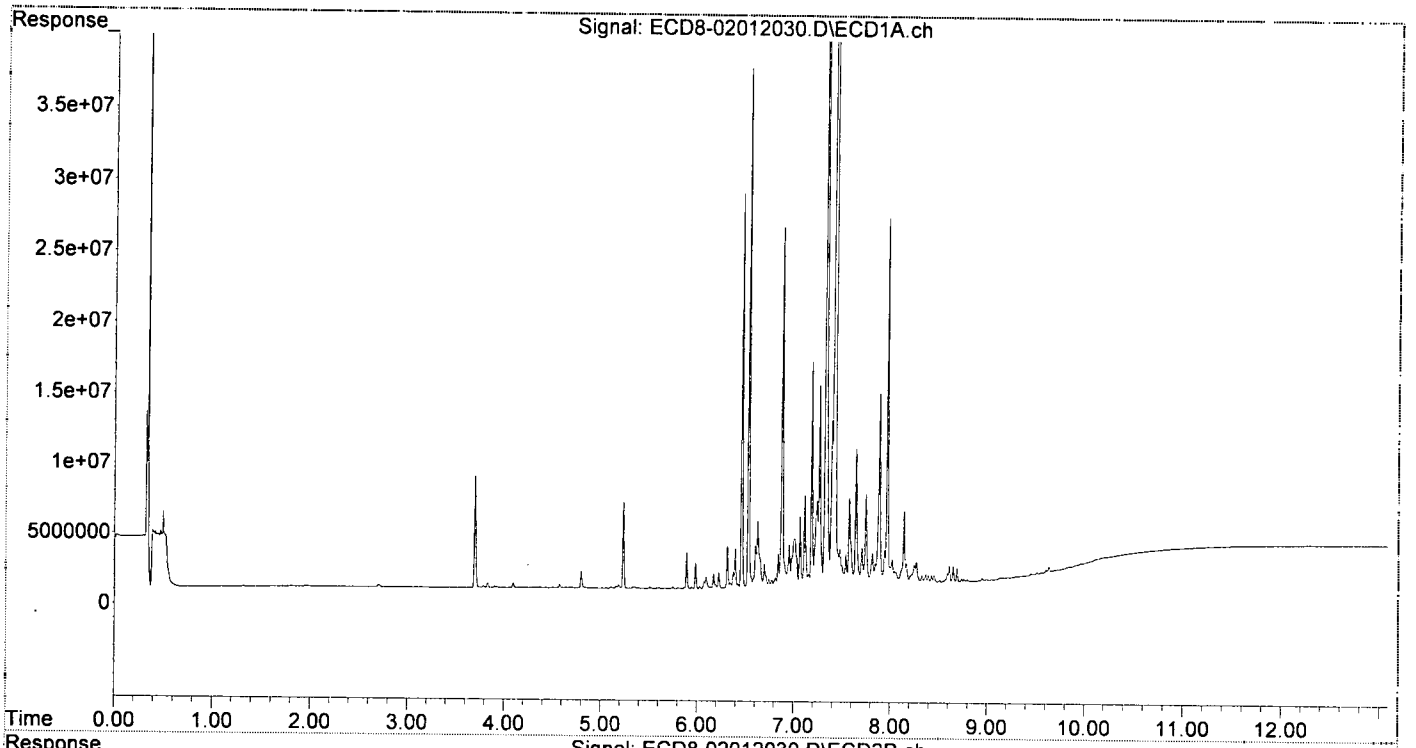
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.298	5.985	47307	82645	0.014	0.024	#
22)	S	DCBP (S)	9.511	10.540	261414	1006590	BelowCal	BelowCal	
		Target Compounds							
2)		a-BHC	5.844	6.612f	28614	1618187	0.006	0.455	#
3)		g-BHC	6.136	6.911	96732	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.	

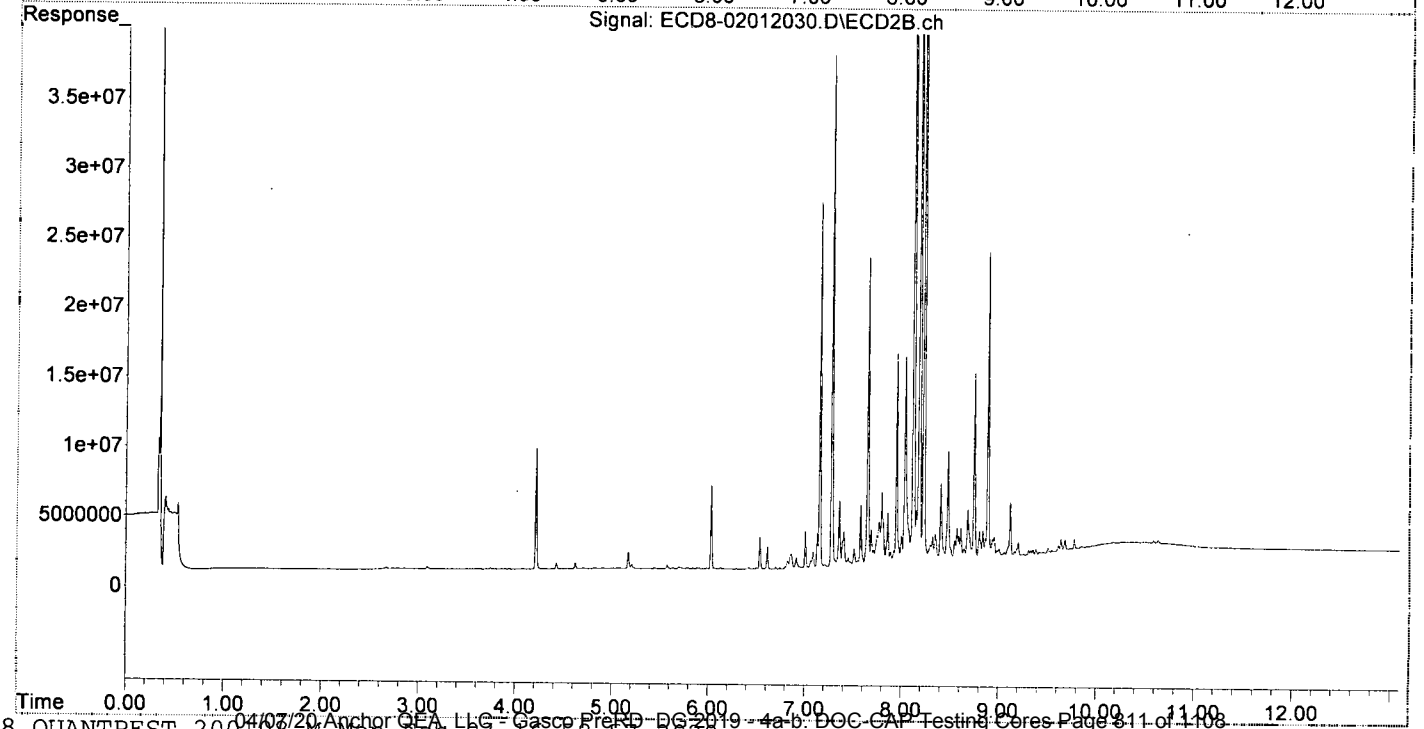
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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

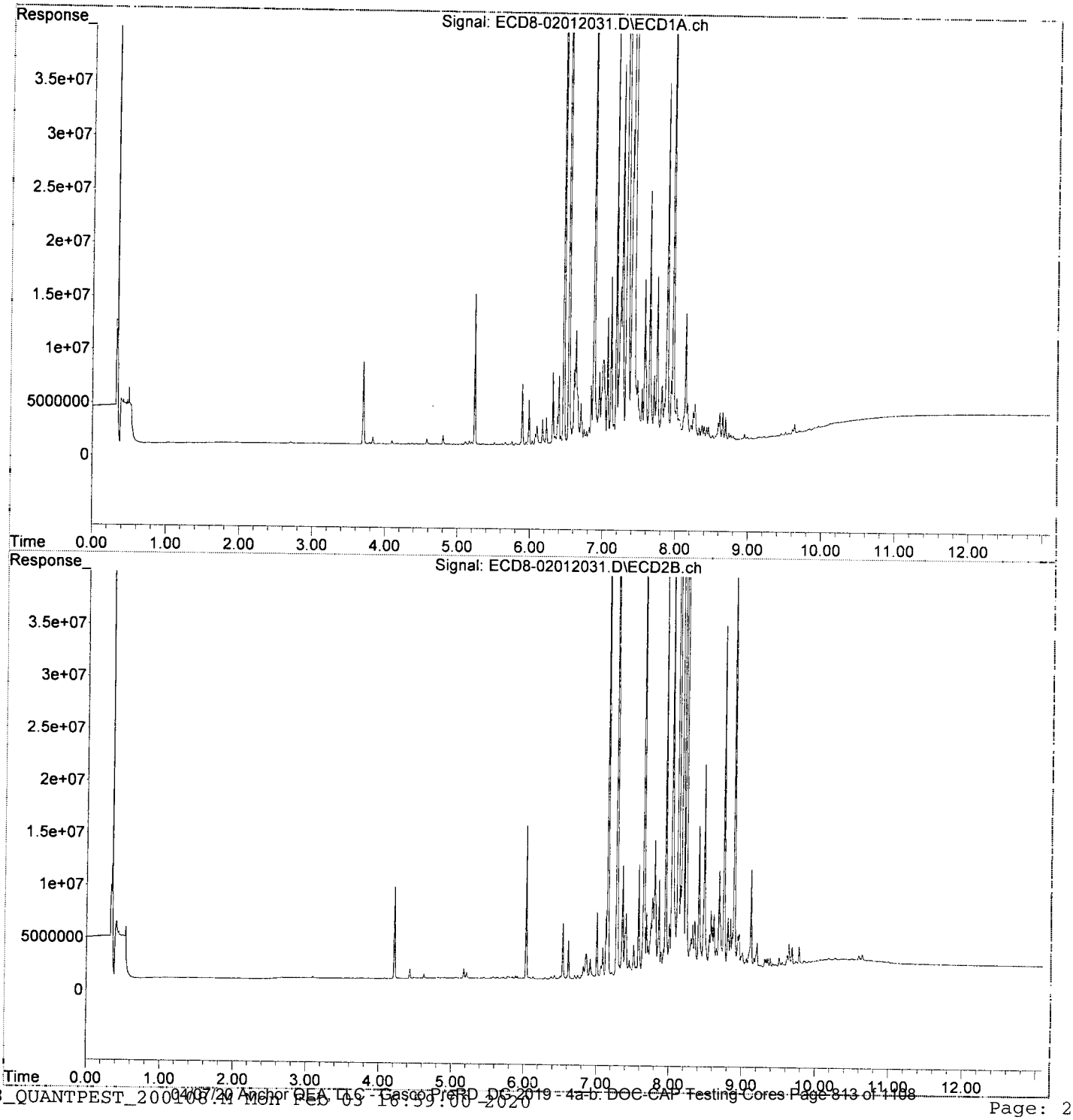
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.298	5.984	109867	106671	0.031	0.031	
22)	S	DCBP (S)	9.512	10.555	403486	1150905	BelowCal	0.062	
		Target Compounds							
2)		a-BHC	5.842	6.611f	42377	3578554	0.009	0.913	#
3)		g-BHC	6.136	6.911	205837	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

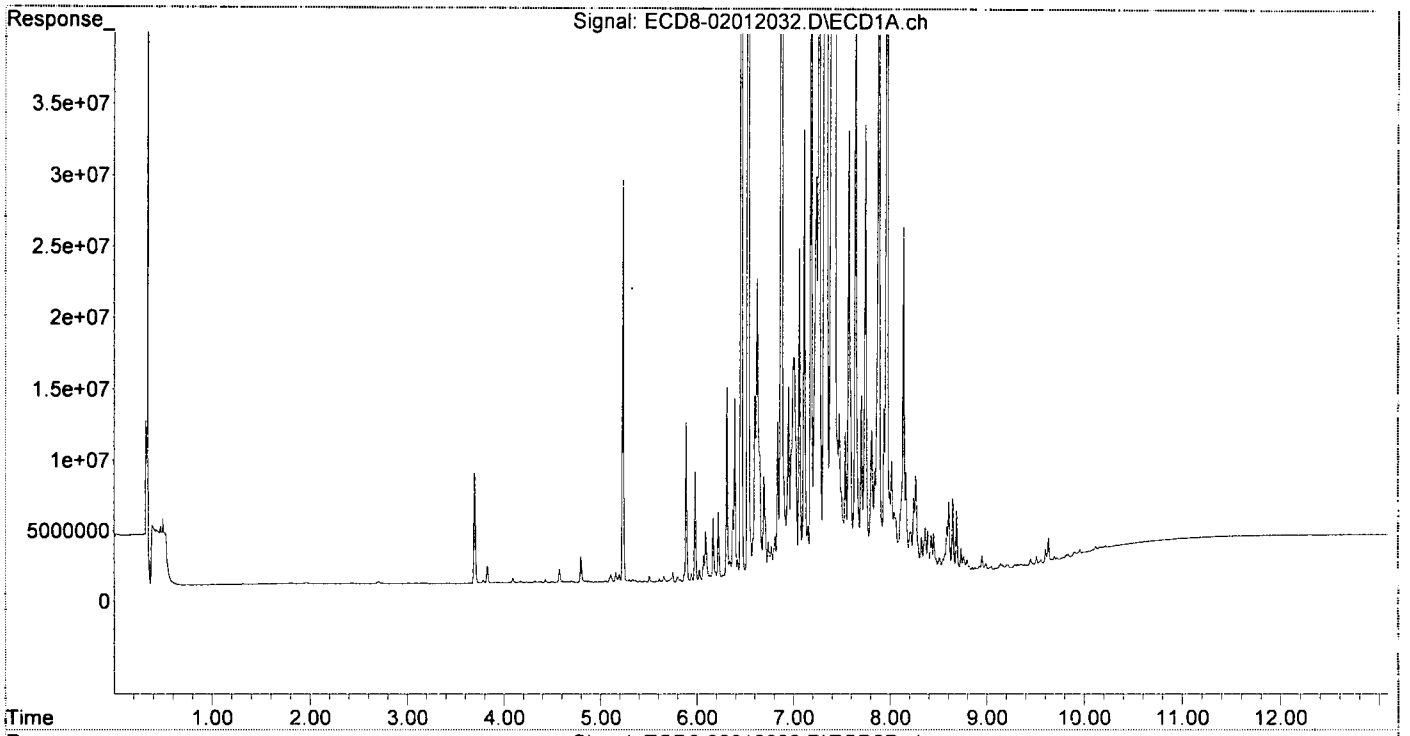
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.297	5.981	206224	122190	0.059	0.035	#
22)	S DCBP (S)	9.510	10.547	660494	961665	BelowCal	BelowCal	
	Target Compounds							
2)	a-BHC	5.824	6.611f	187012	6740232	0.040	1.650	#
3)	g-BHC	6.136	6.910	387178	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.	

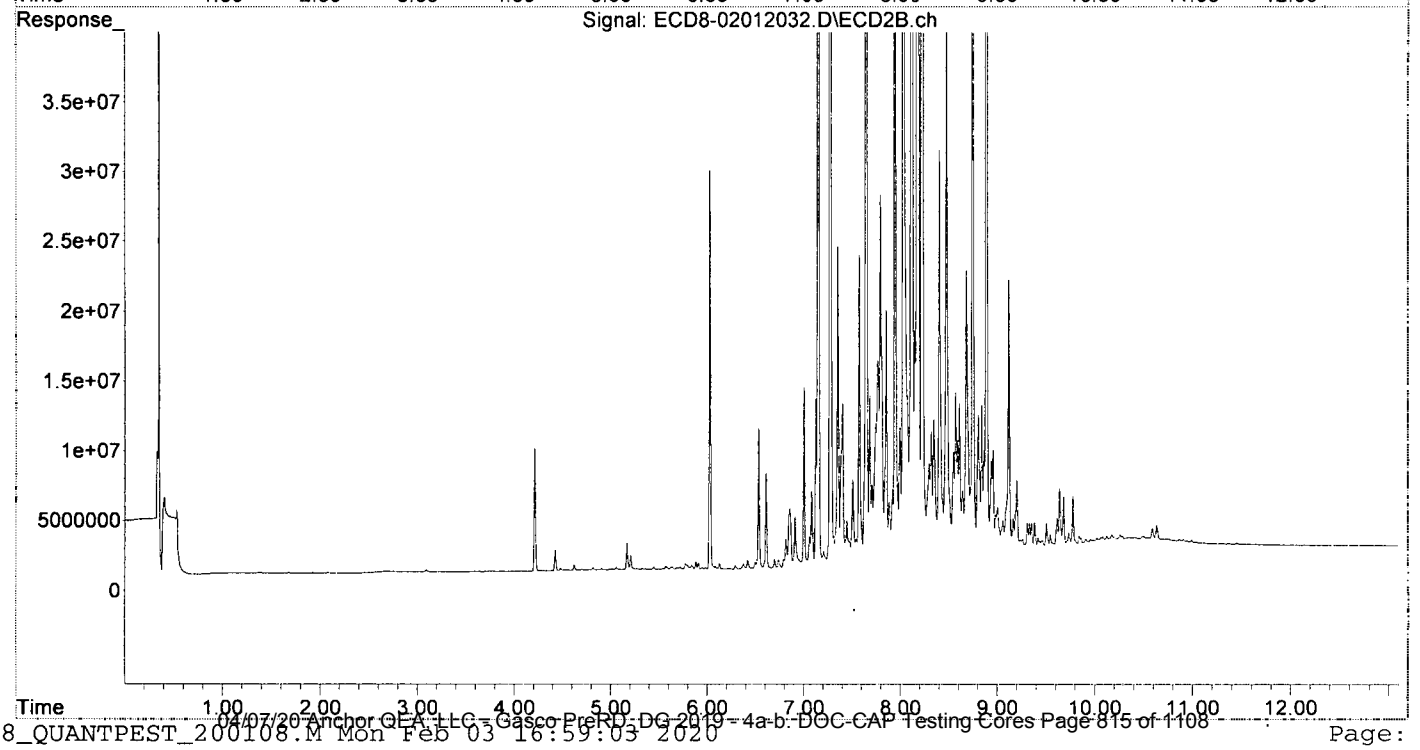
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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

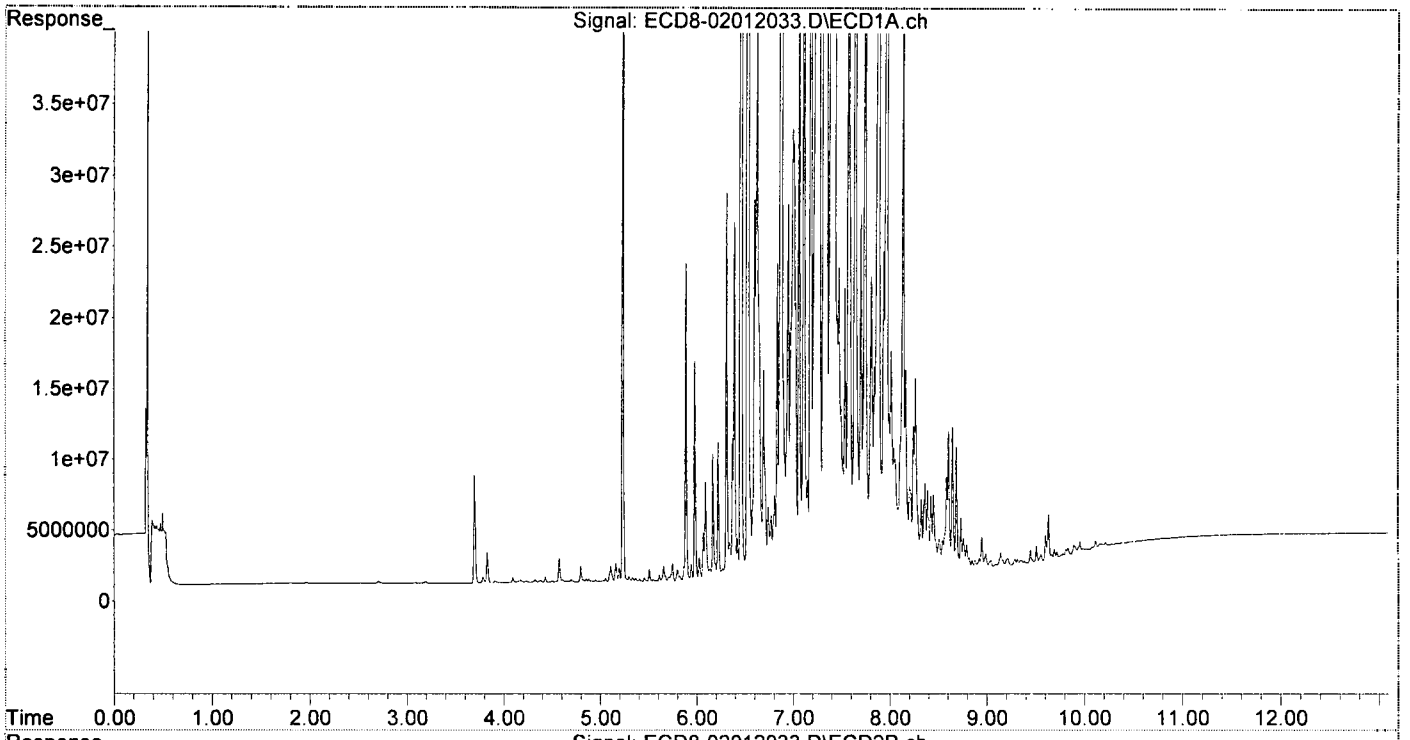
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.298	5.980	386961	124322	0.111	0.036	#
22)	S	DCBP (S)	9.511	10.548	1159083	1147394	0.119	0.060	#
		Target Compounds							
2)		a-BHC	5.824	6.611f	357462	13261627	0.076	3.165	#
3)		g-BHC	6.137	6.910	720392	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.	

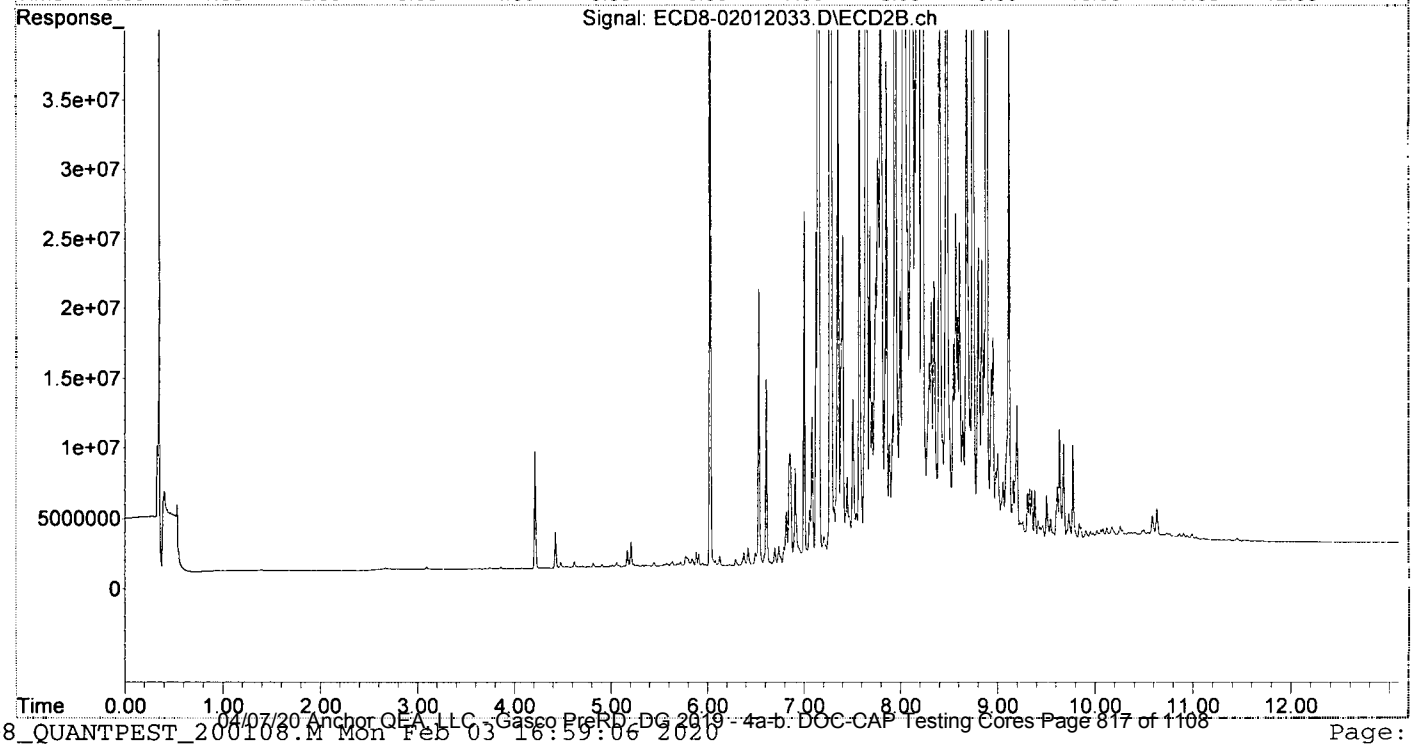
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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

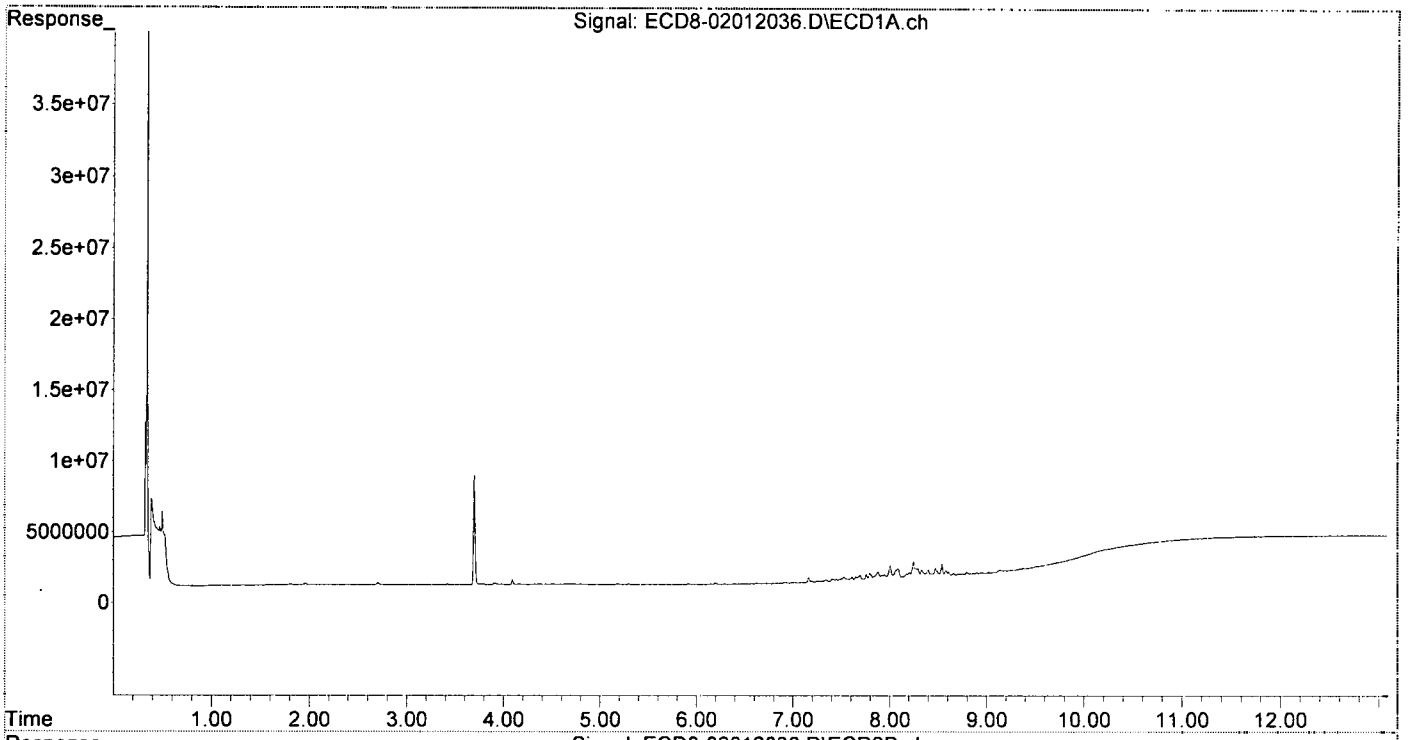
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.298	5.983	28712	46121	0.008	0.013	#
22)	S DCBP (S)	9.508	10.533	128410	317278	BelowCal	BelowCal	
	Target Compounds							
2)	a-BHC	5.850	6.577	30270	18605	0.006	0.080	#
3)	g-BHC	6.149f	6.894	24417	14094	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.	

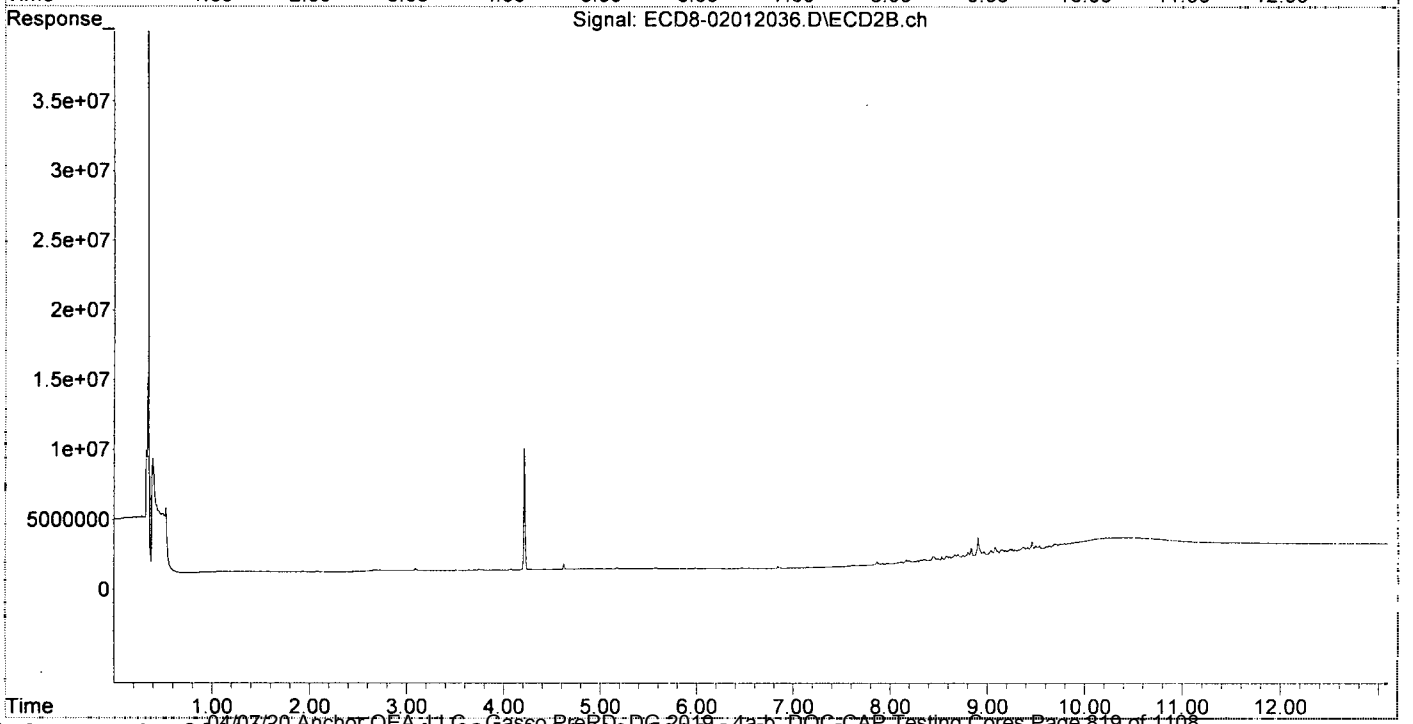
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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

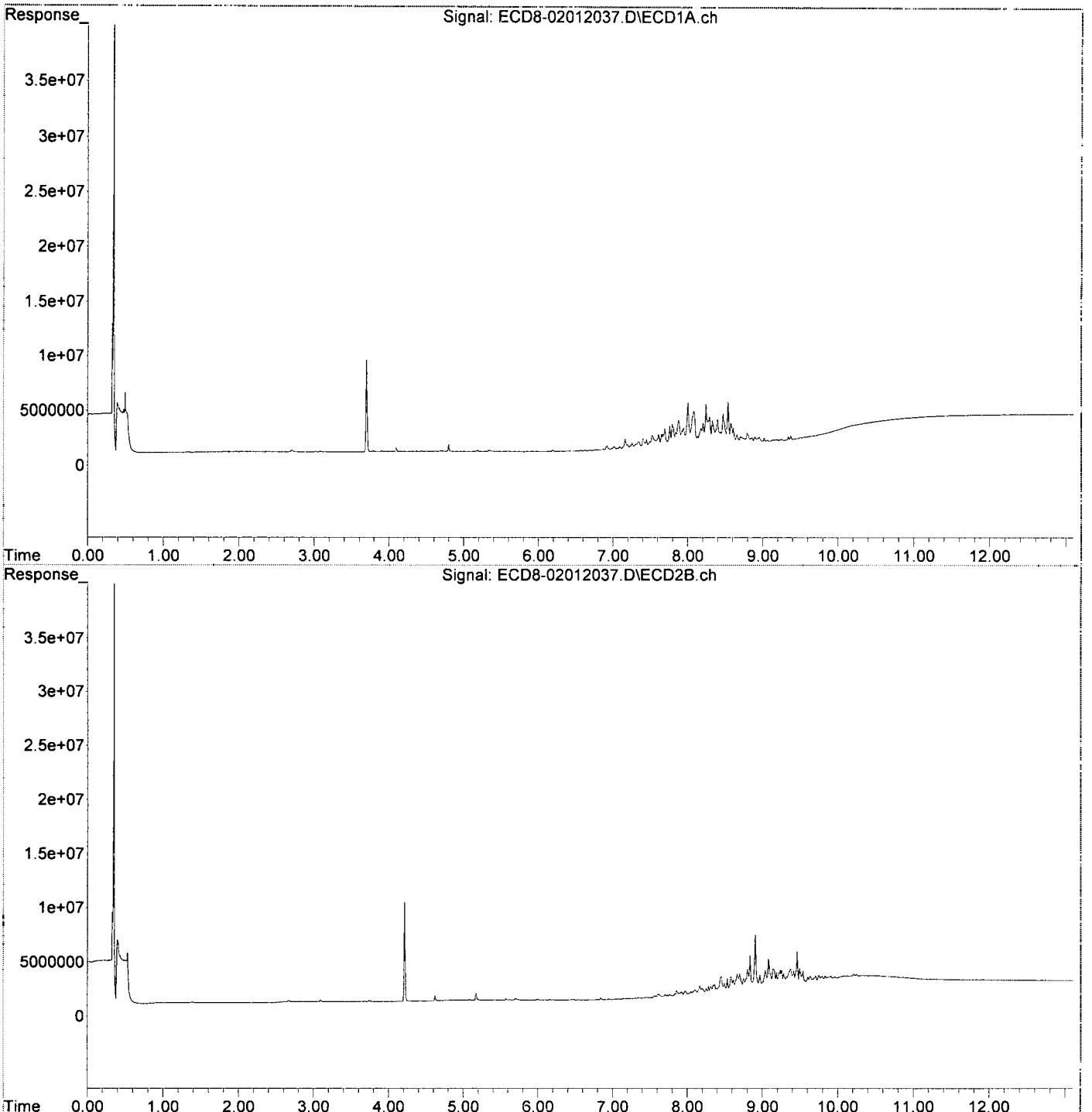
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	0.000	5.986	0	80701	N.D.	0.023	#
22)	S DCBP (S)	9.501	10.538	123893	268561	BelowCal	BelowCal	
	Target Compounds							
2)	a-BHC	5.850	6.585	34223	12874	0.007	0.079	#
3)	g-BHC	6.144f	6.891	32070	17922	0.008	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

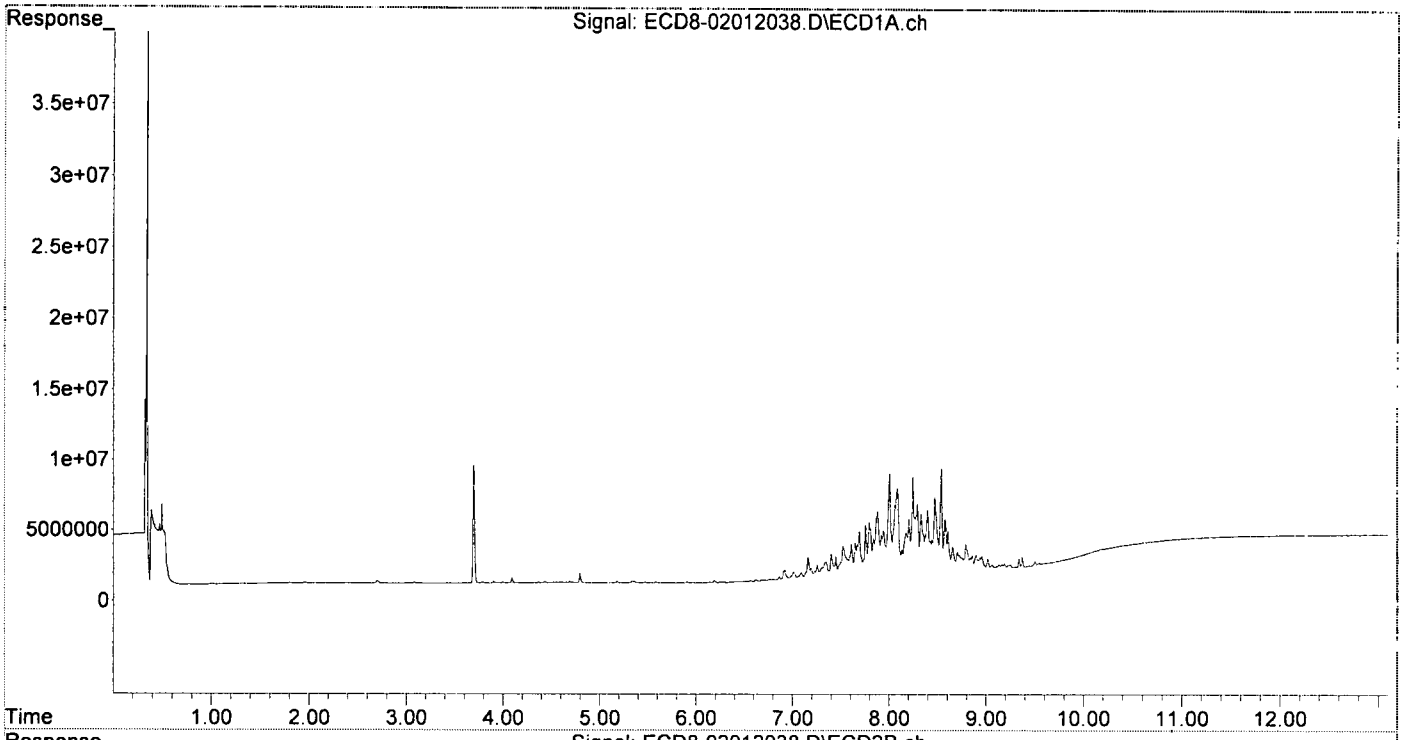
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.337f	5.984	125814	111210	0.036	0.032	
22)	S DCBP (S)	9.506	10.535	295577	948995	BelowCal	BelowCal	
	Target Compounds							
2)	a-BHC	5.838	6.581	57804	42176	0.012	0.086	#
3)	g-BHC	6.137	6.907	65176	16875	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.	

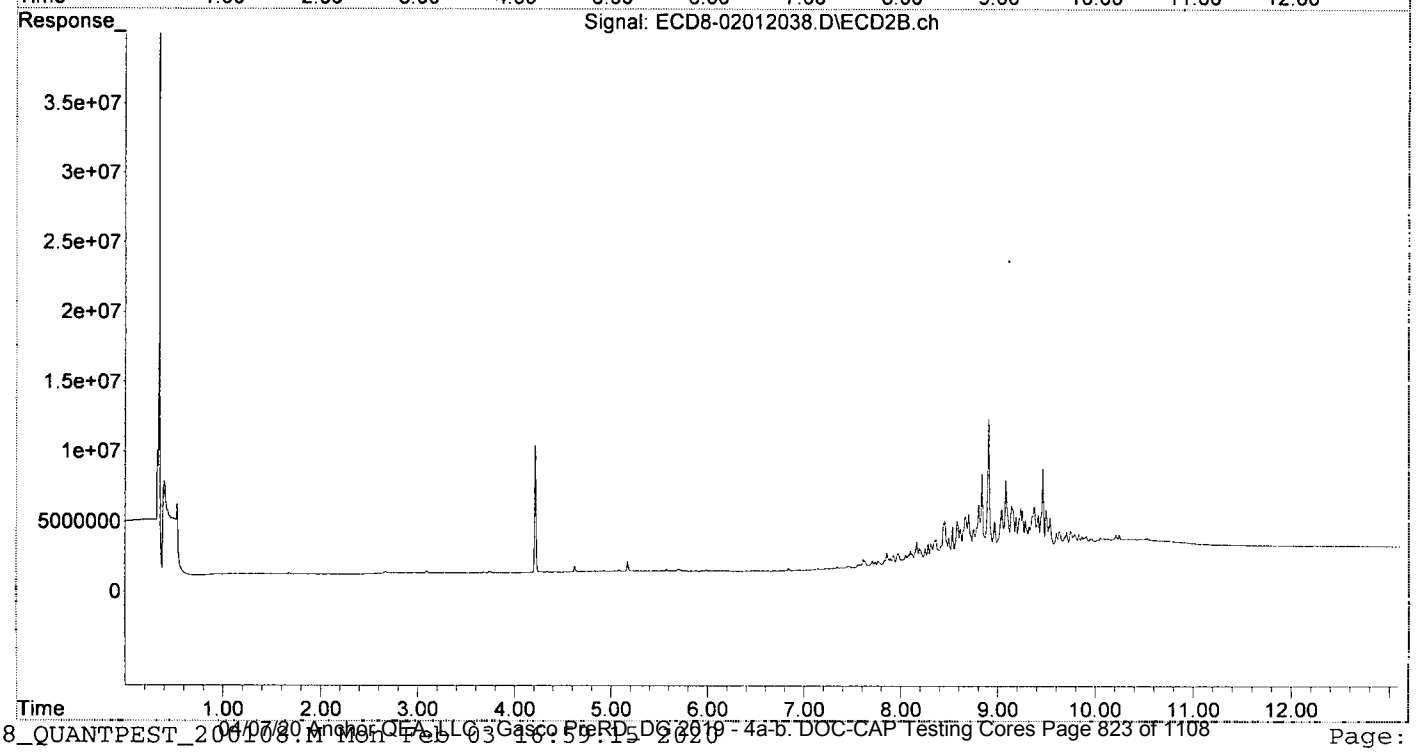
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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

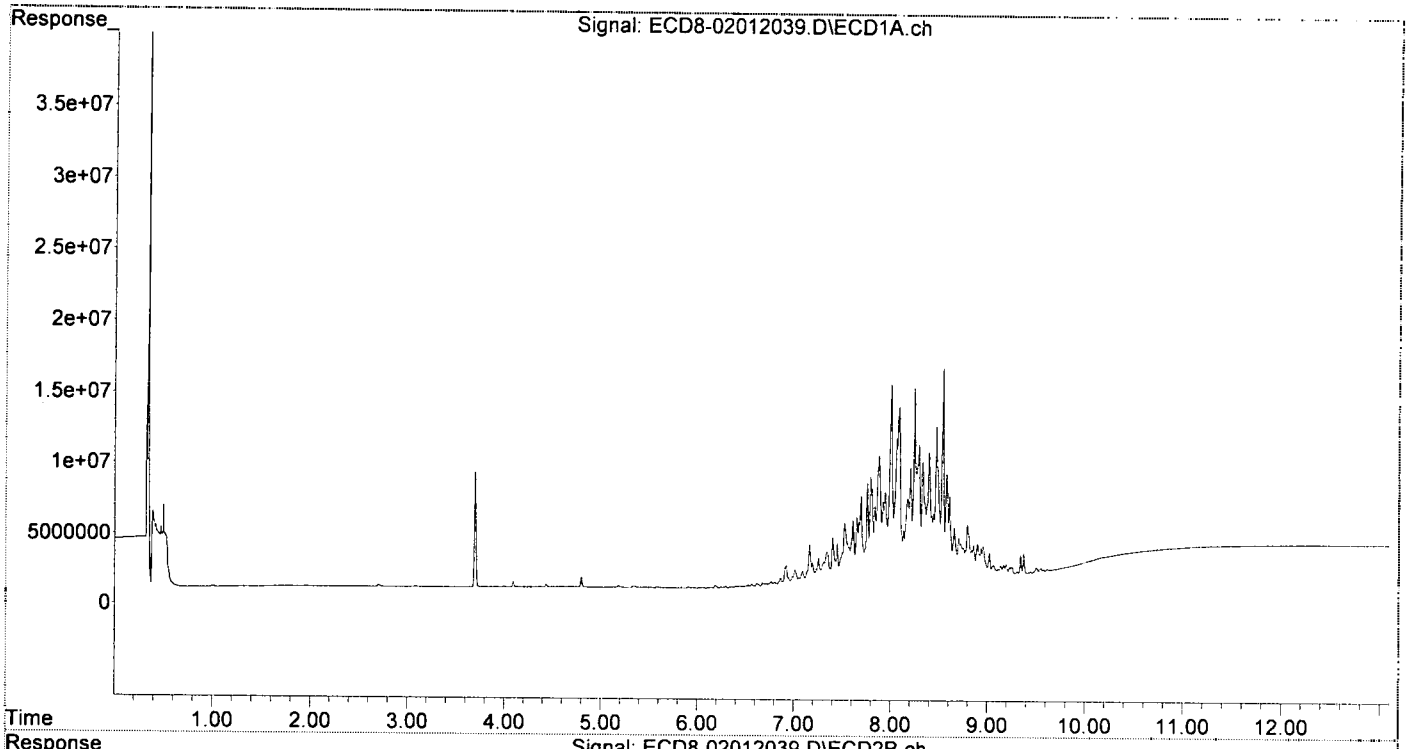
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.335f	5.983	123217	122865	0.035	0.036	
22)	S	DCBP (S)	9.501	10.534	298320	1363903	BelowCal	0.167	
		Target Compounds							
2)		a-BHC	5.835	6.585	73051	60242	0.015	0.090	#
3)		g-BHC	6.109	6.906	43247	28398	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.	

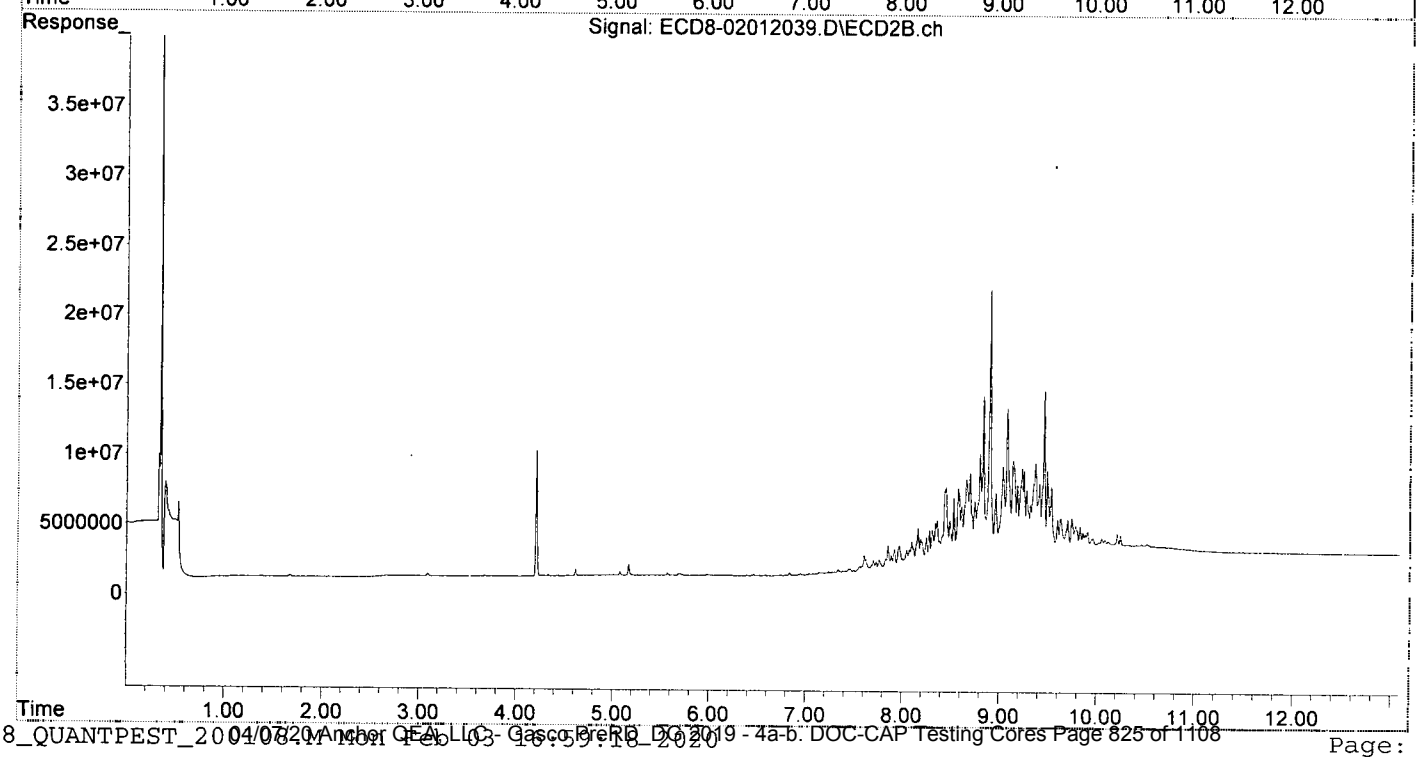
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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

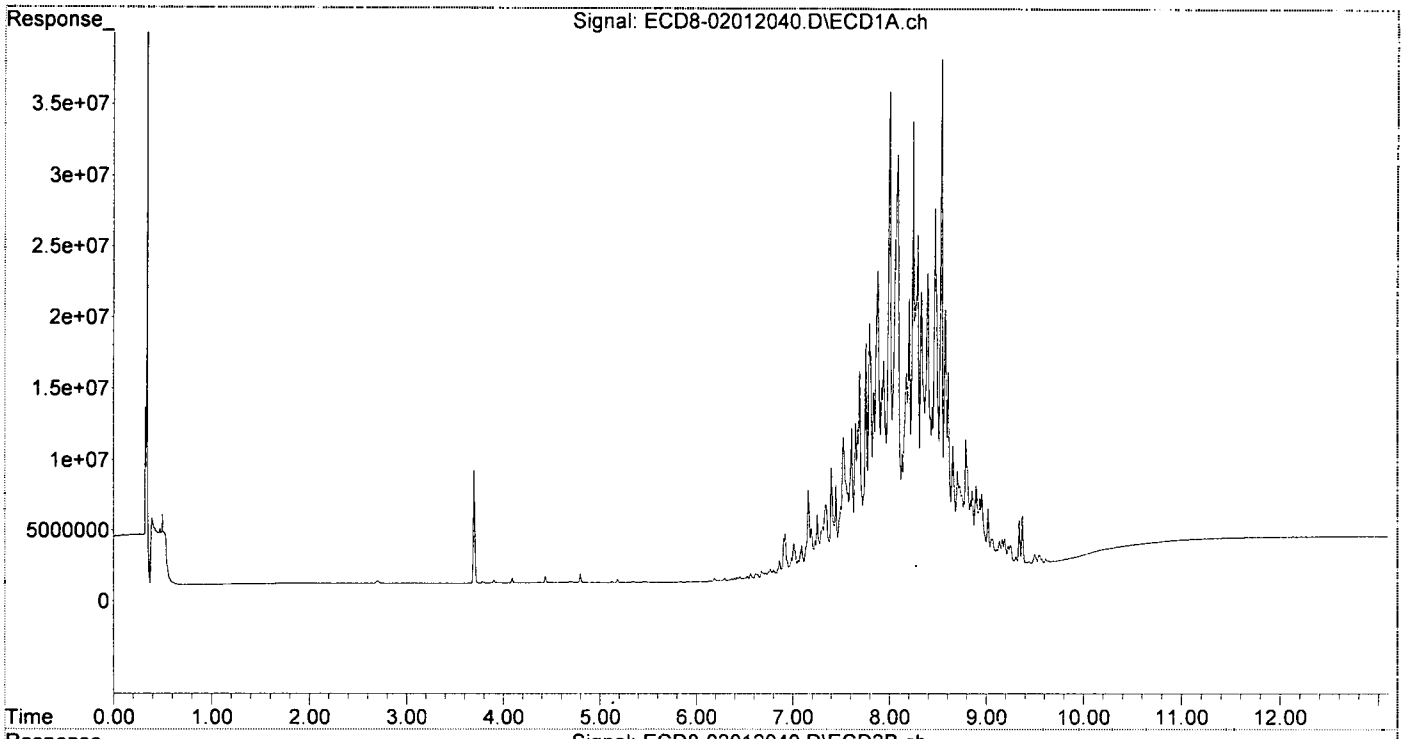
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	0.000	5.984	0	67232	N.D.	0.019	#
22)	S DCBP (S)	9.498	10.516f	663992	1308073	BelowCal	0.140	
	Target Compounds							
2)	a-BHC	5.836	6.585	76051	56797	0.016	0.089	#
3)	g-BHC	6.107	6.892	24897	108271	0.006	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.	

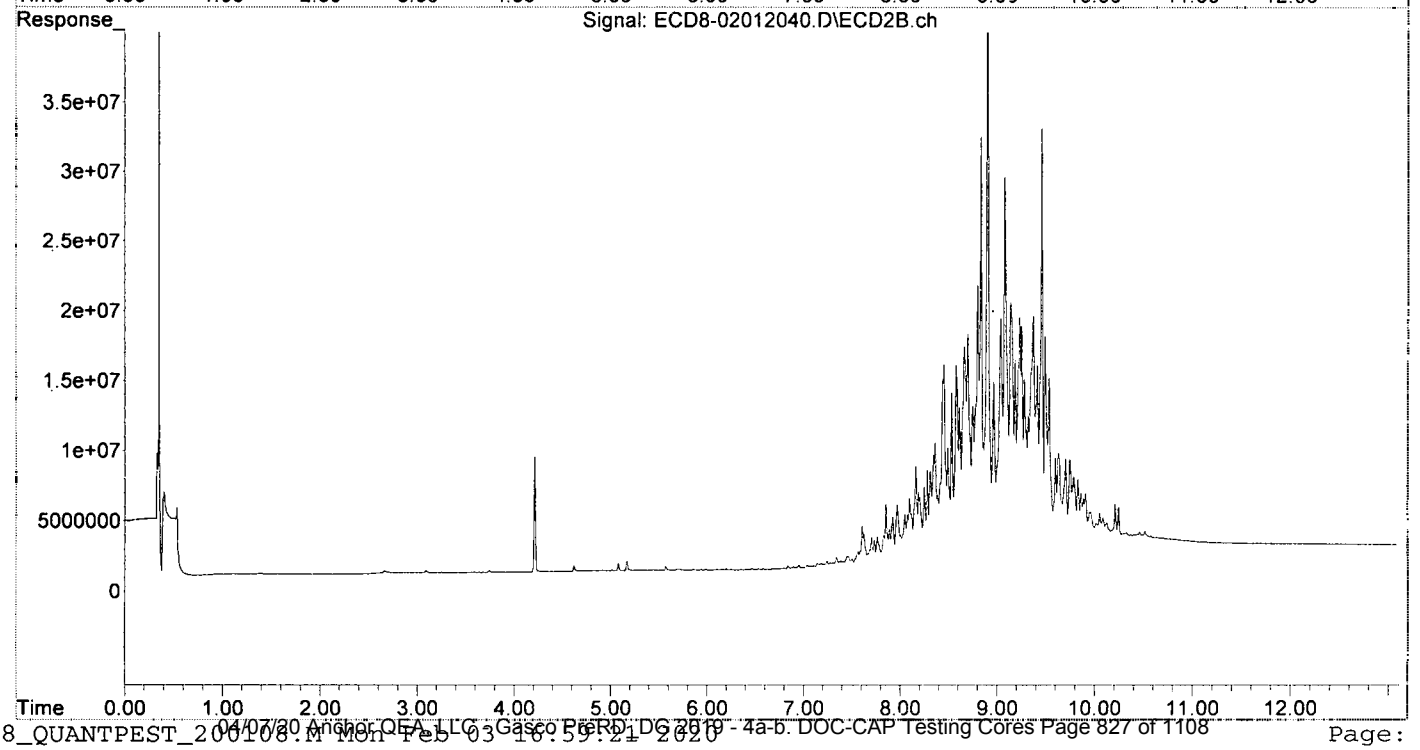
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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

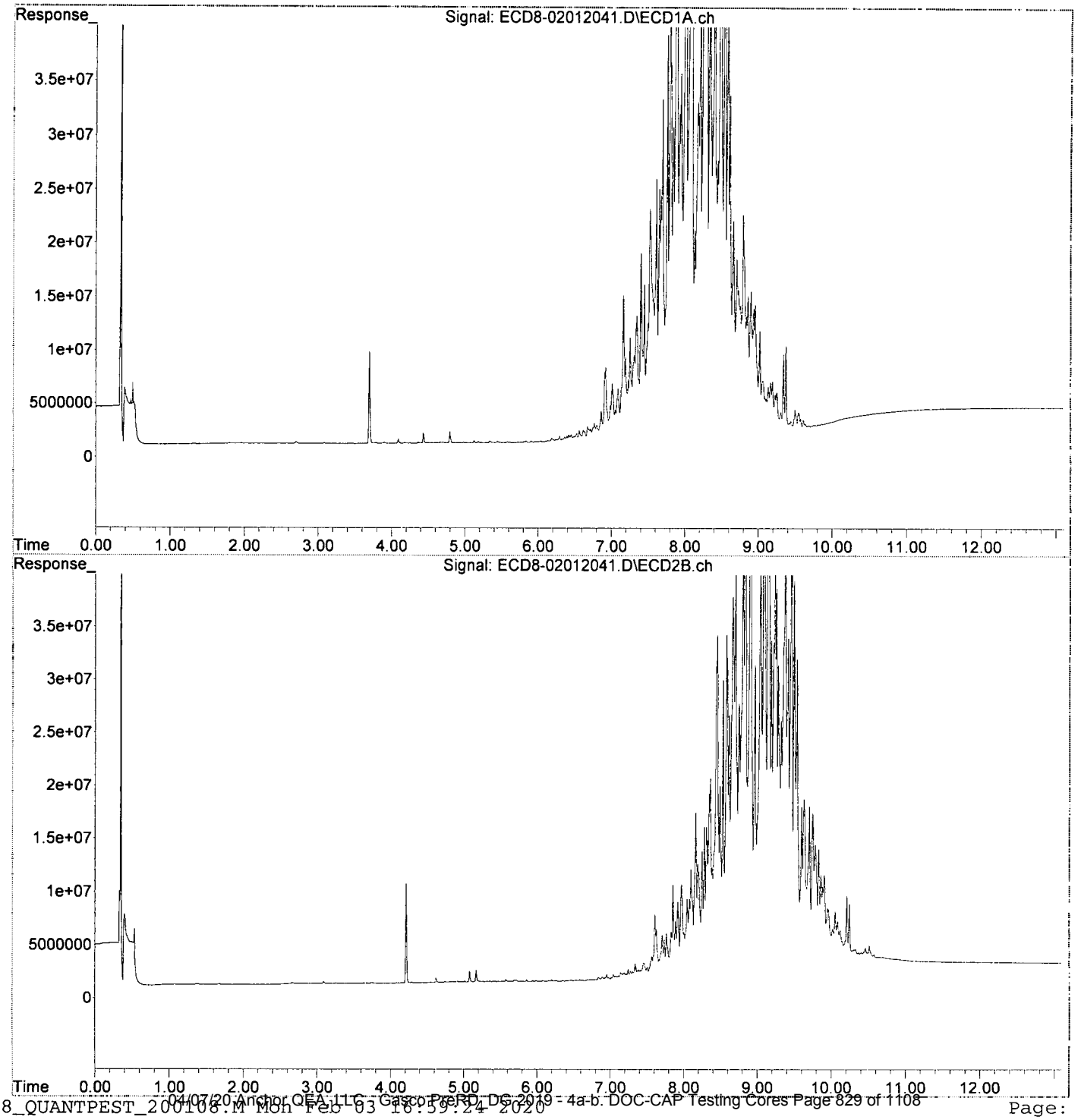
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.302	5.986	16607	100445	0.005	0.029	#
22)	S DCBP (S)	9.499	10.516f	1649629	2332562	0.311	0.647	#
	Target Compounds							
2)	a-BHC	5.836	6.585	166844	115621	0.035	0.103	#
3)	g-BHC	6.106	6.894	61658	294713	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

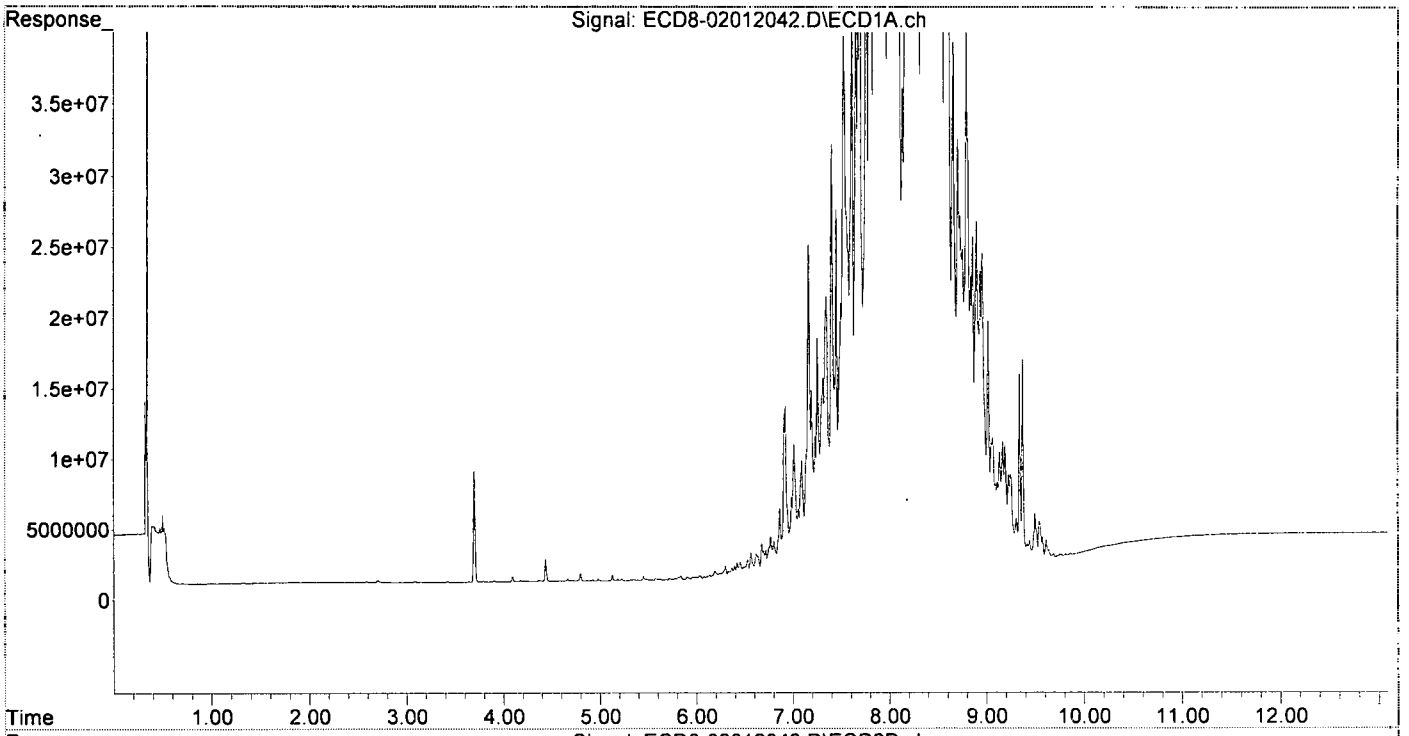
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.279	5.985	23392	70189	0.007	0.020	#
22)	S DCBP (S)	9.497	10.515f	3160340	2729530	0.903	0.844	
	Target Compounds							
2)	a-BHC	5.835	6.585	278100	197970	0.059	0.122	#
3)	g-BHC	6.133	6.893	210680	476559	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.	

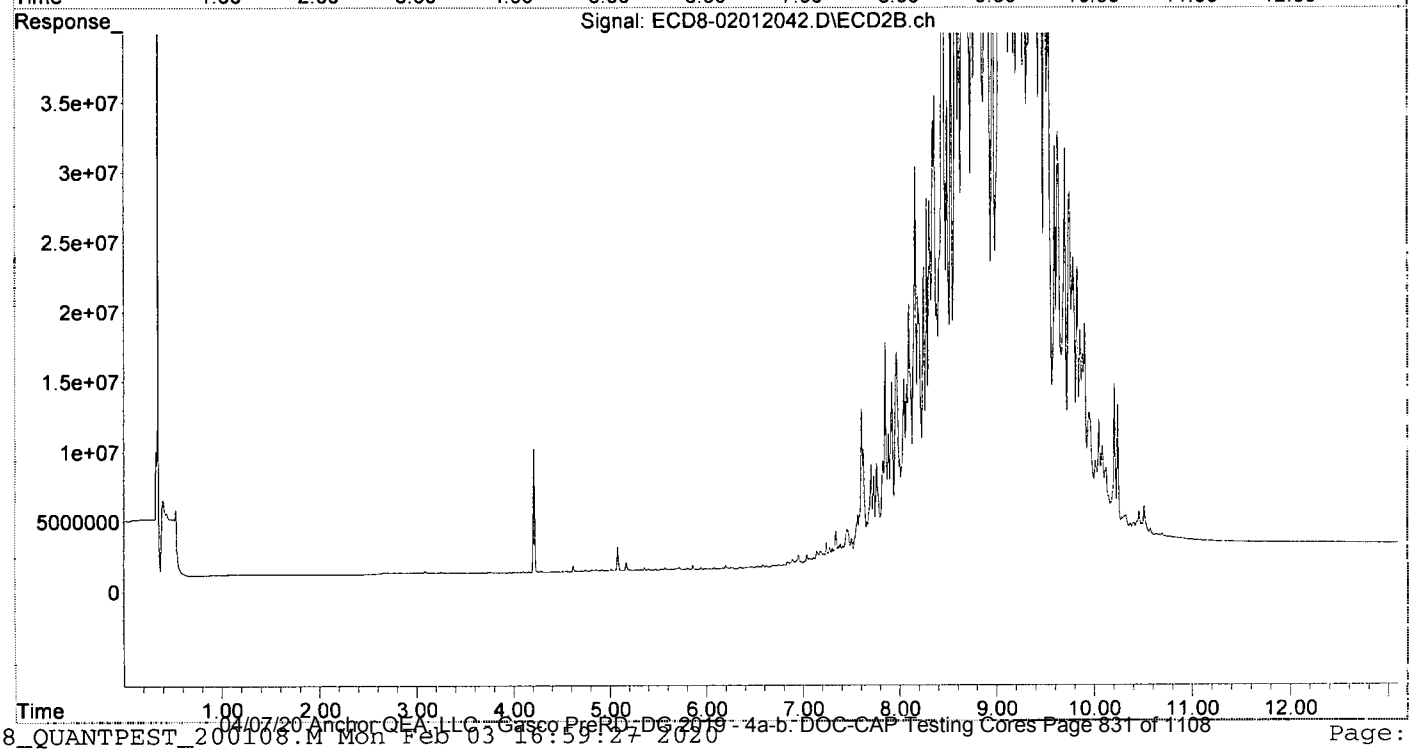
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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

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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

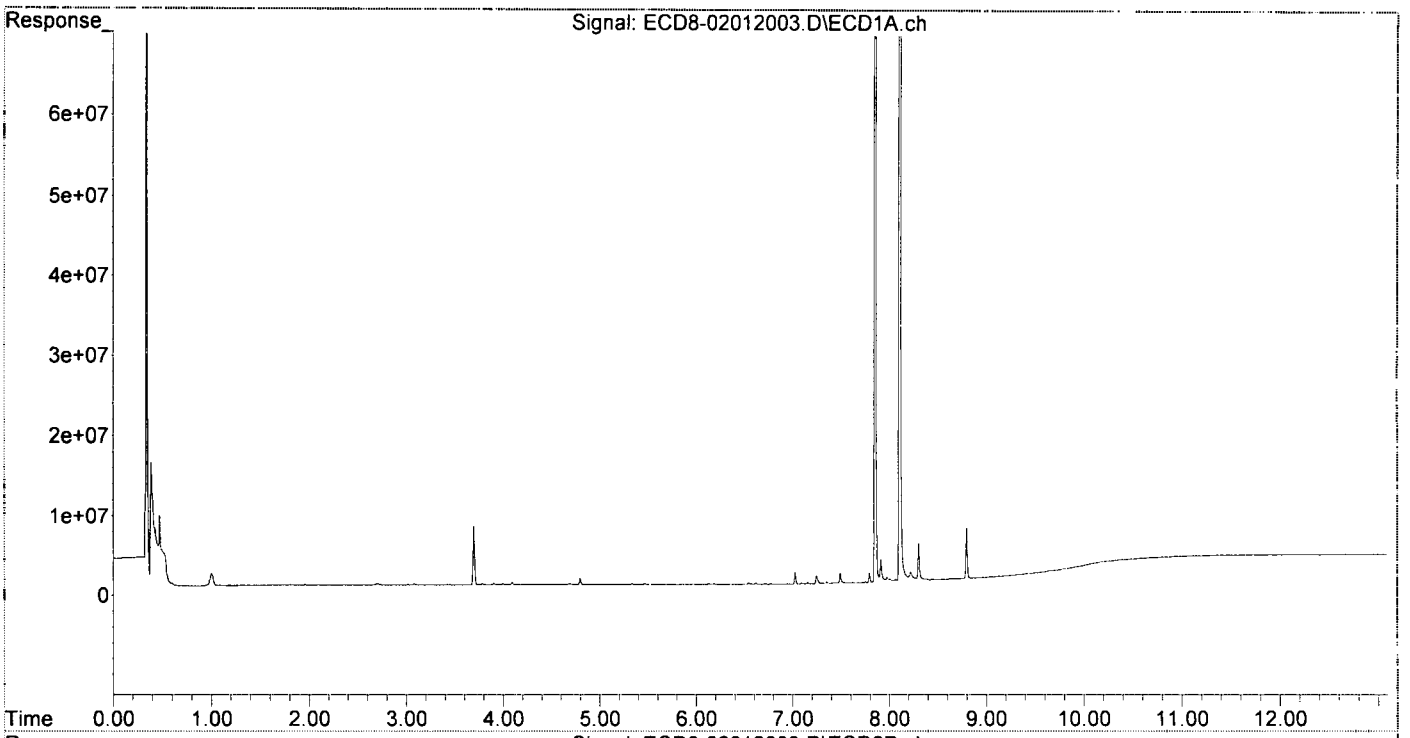
(f)=RT Delta > 1/2 Window (m)=manual int.

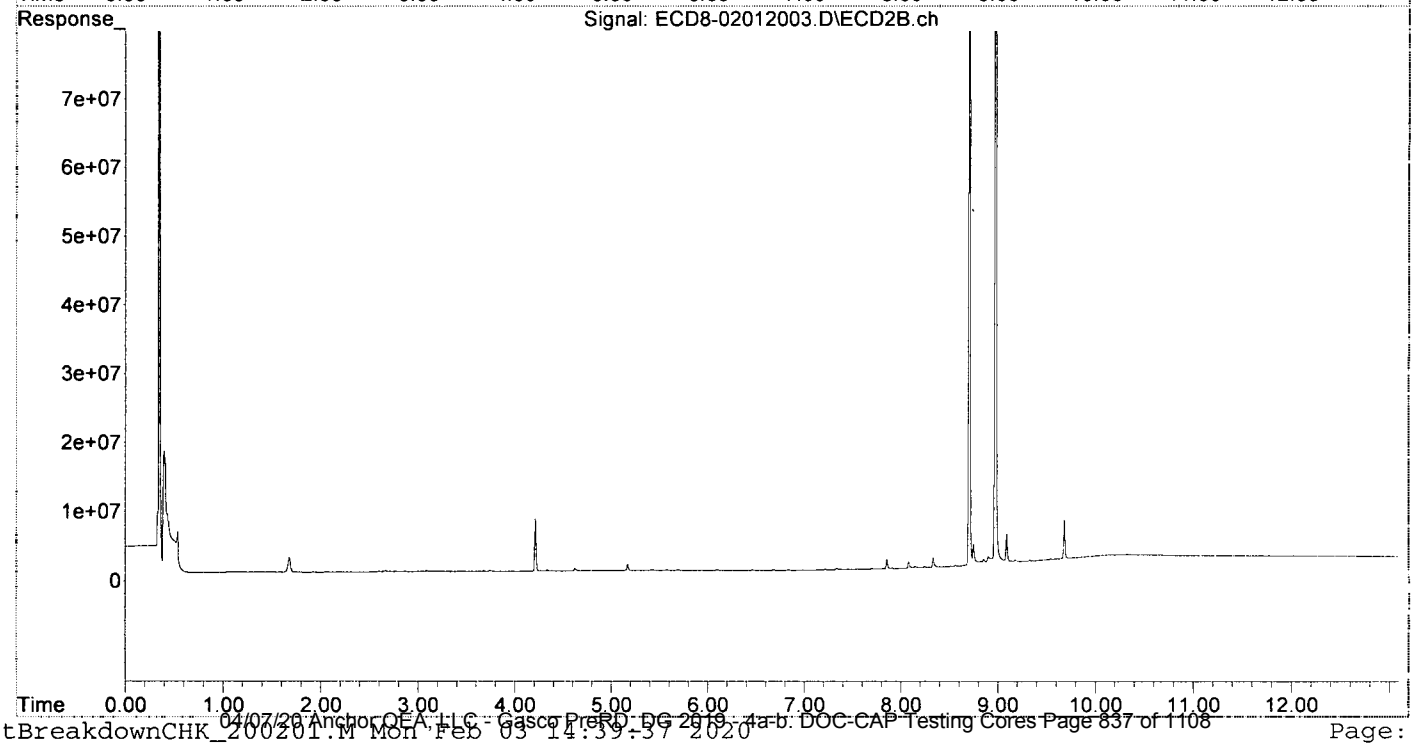
MJB 2/3/20

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

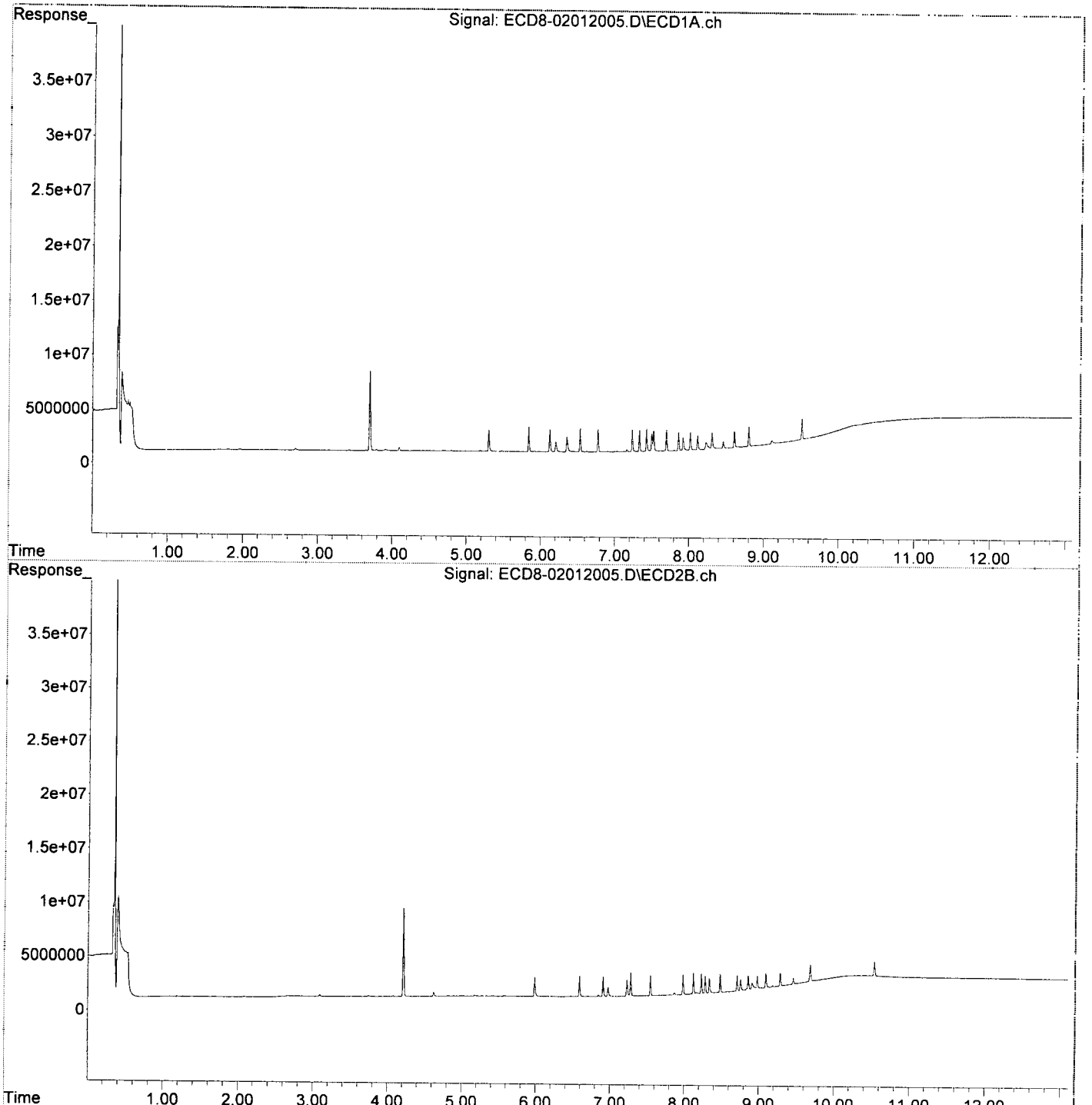
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S TCMX (S)	5.297	5.982	2010387	1807457	0.600	0.498
22)	S DCBP (S)	9.507	10.537	2137981	2121210	0.670	0.752
	Target Compounds						
2)	a-BHC	5.836	6.585	2323532	1906806	0.622	0.645
3)	g-BHC	6.120	6.903	2098226	1857818	0.657	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

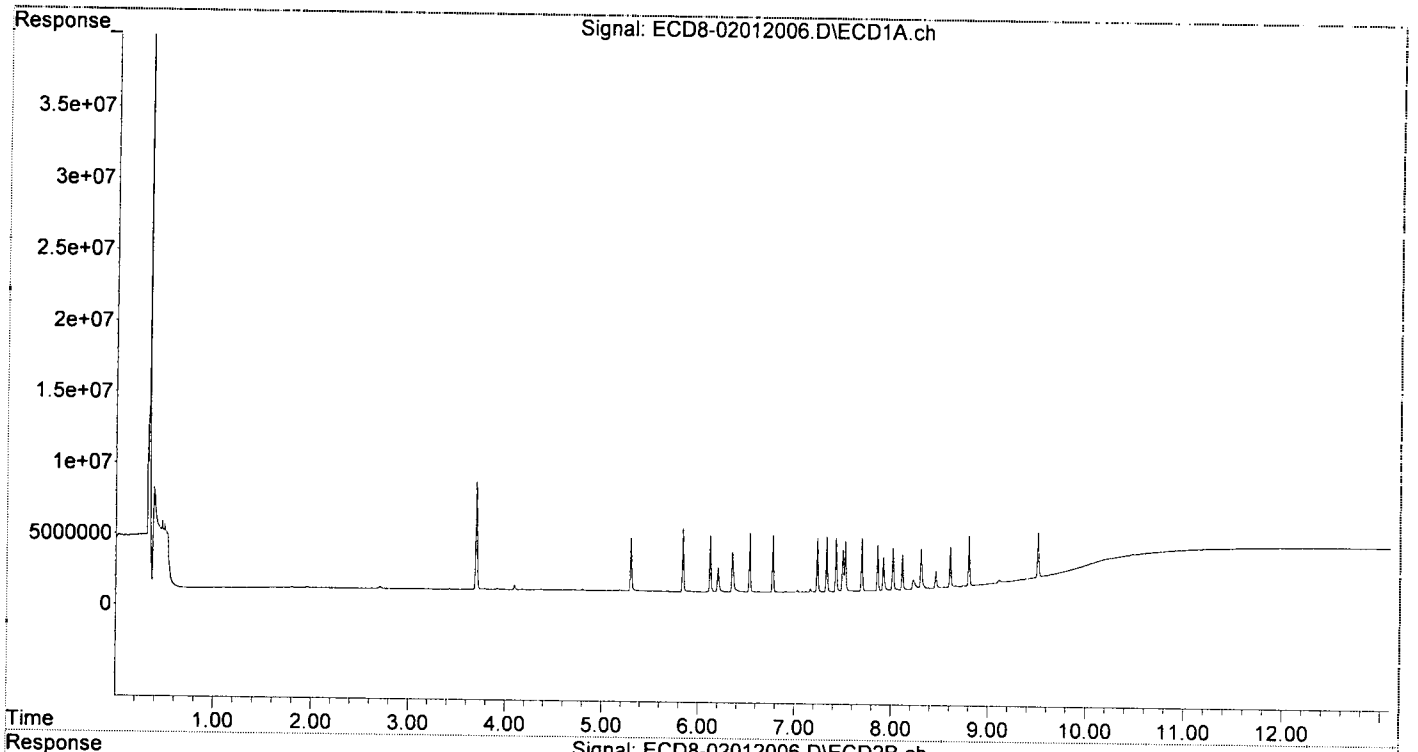
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	5.298	5.982	3713760	3325610	1.108	0.916
22) S	DCBP (S)	9.507	10.537	3342363	2619998	1.179	0.998
	Target Compounds						
2)	a-BHC	5.837	6.585	4491787	3754344	1.203	1.159
3)	g-BHC	6.120	6.902	3995270	3614287	1.251	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

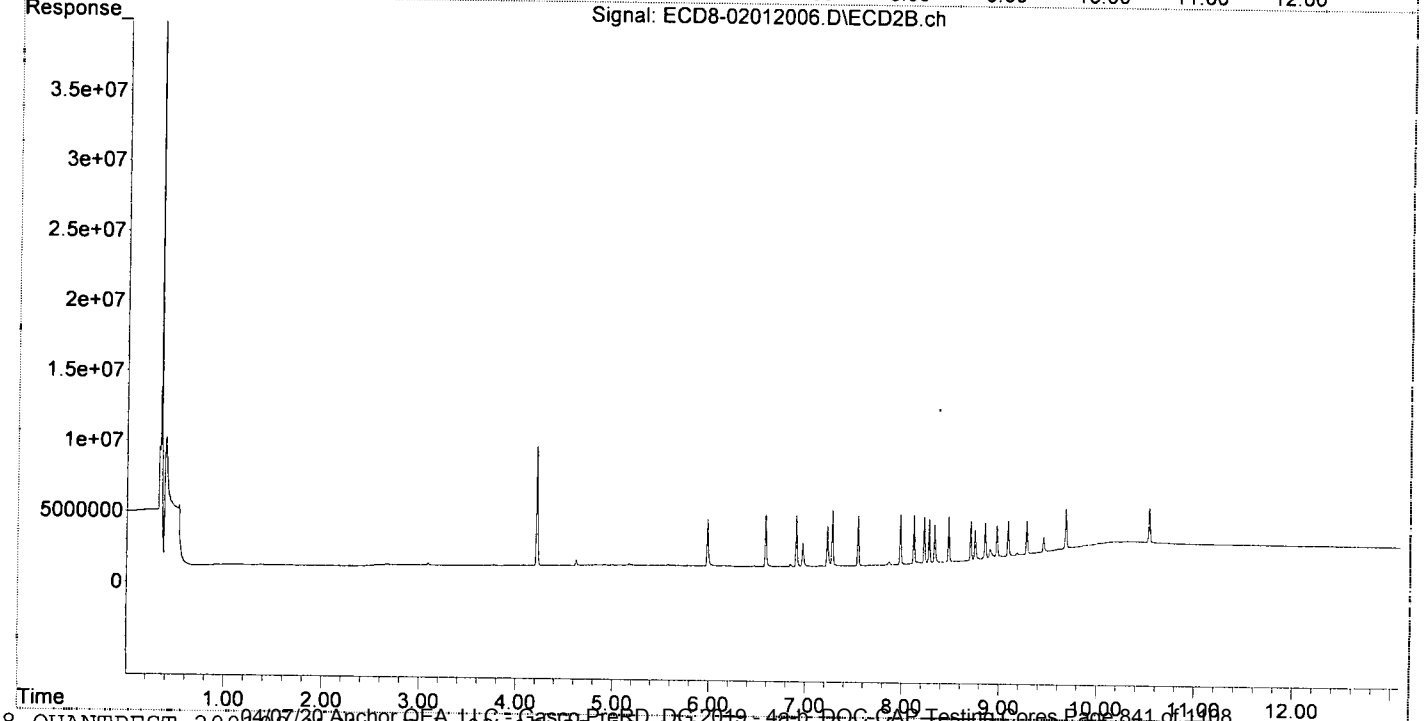
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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

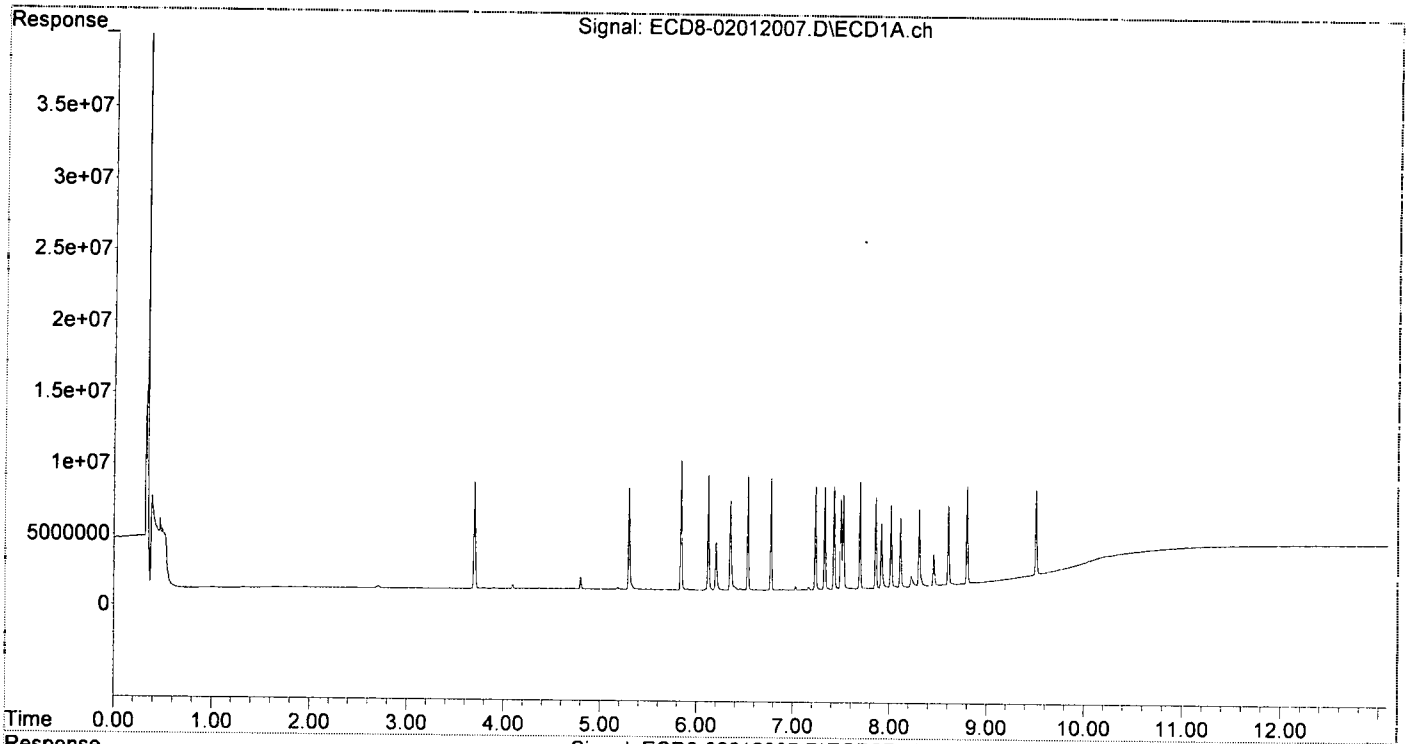
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S TCMX (S)	5.297	5.982	7209311	6464924	2.152	1.780
22)	S DCBP (S)	9.506	10.536	6150705	5371510	2.366	2.349
	Target Compounds						
2)	a-BHC	5.837	6.585	9150524	7591226	2.450	2.224
3)	g-BHC	6.119	6.902	8103069	7144289	2.537	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

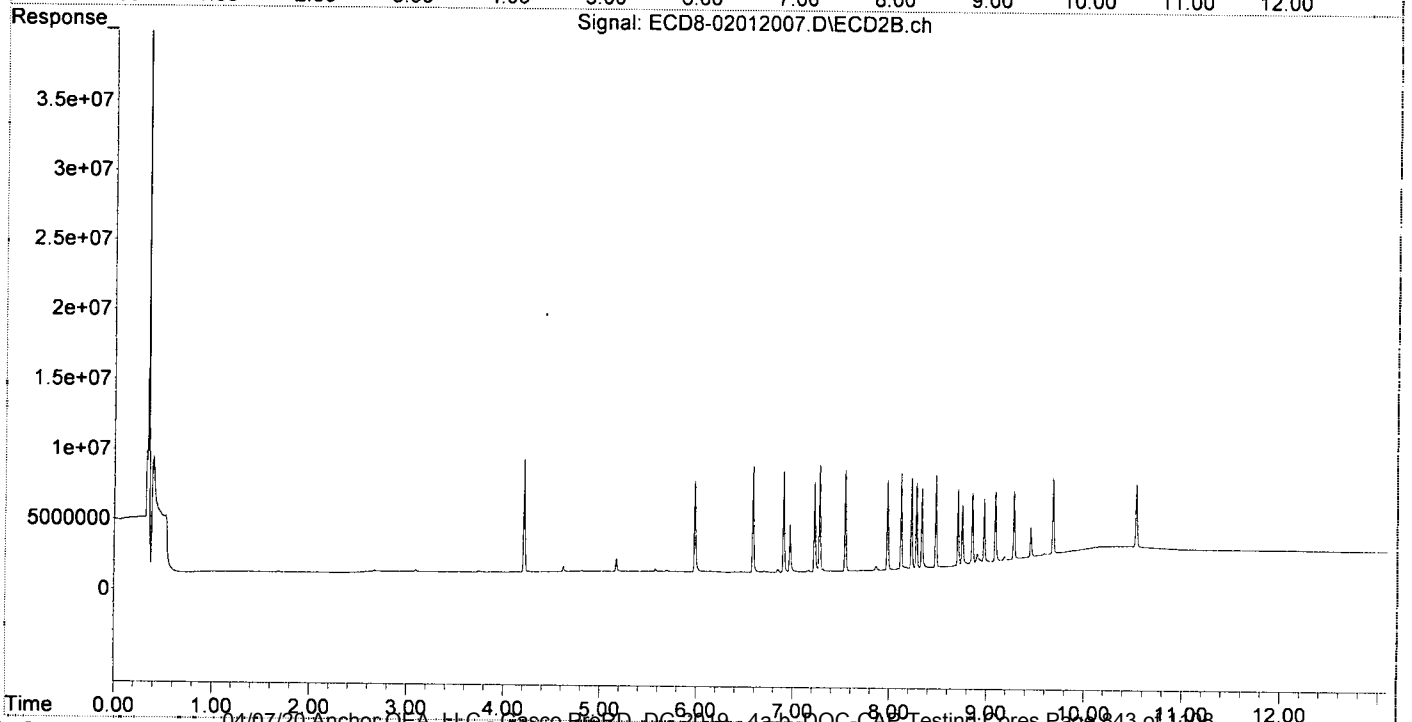
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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

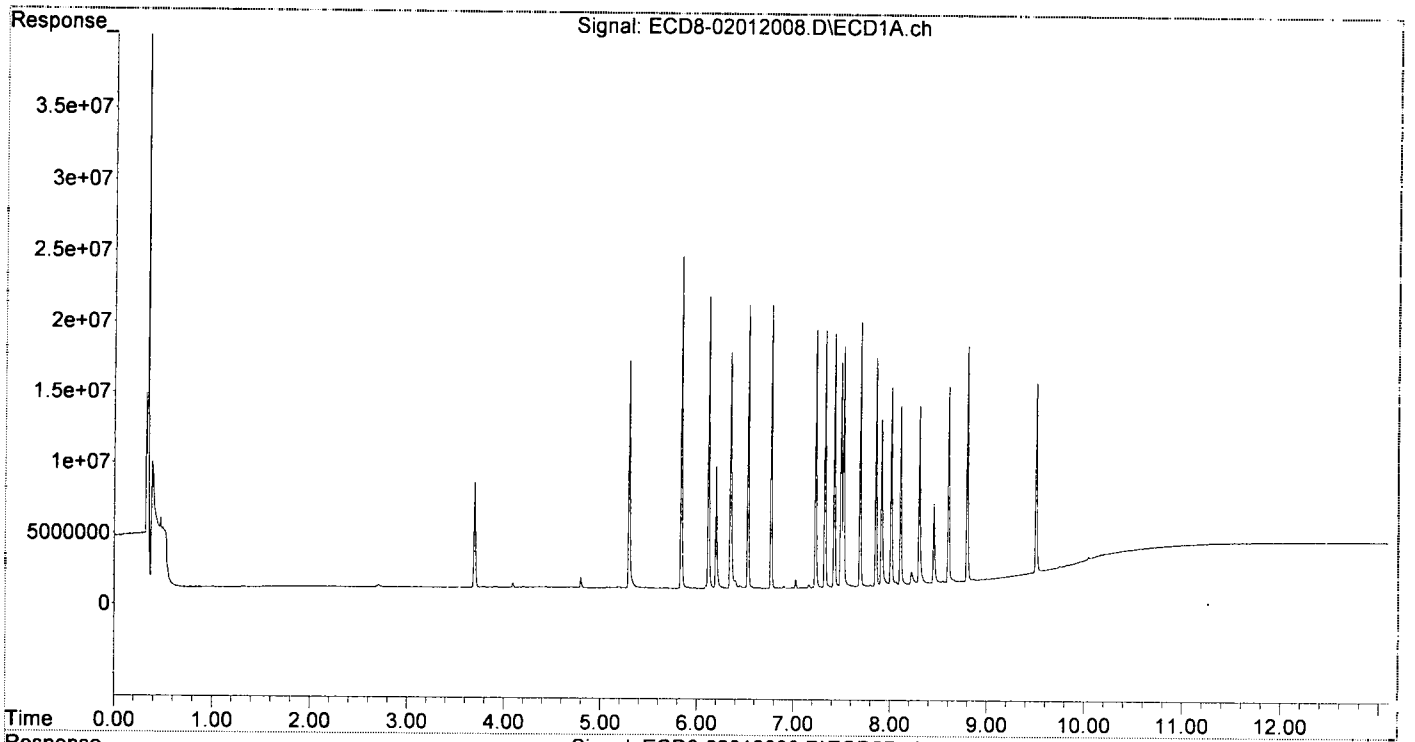
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S TCMX (S)	5.298	5.981	16081203	15031272	4.800	4.139
22)	S DCBP (S)	9.507	10.536	13550213	11242637	5.488	5.219
	Target Compounds						
2)	a-BHC	5.837	6.585	23466079	20250518	6.283	5.703
3)	g-BHC	6.119	6.902	20617843	18903687	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

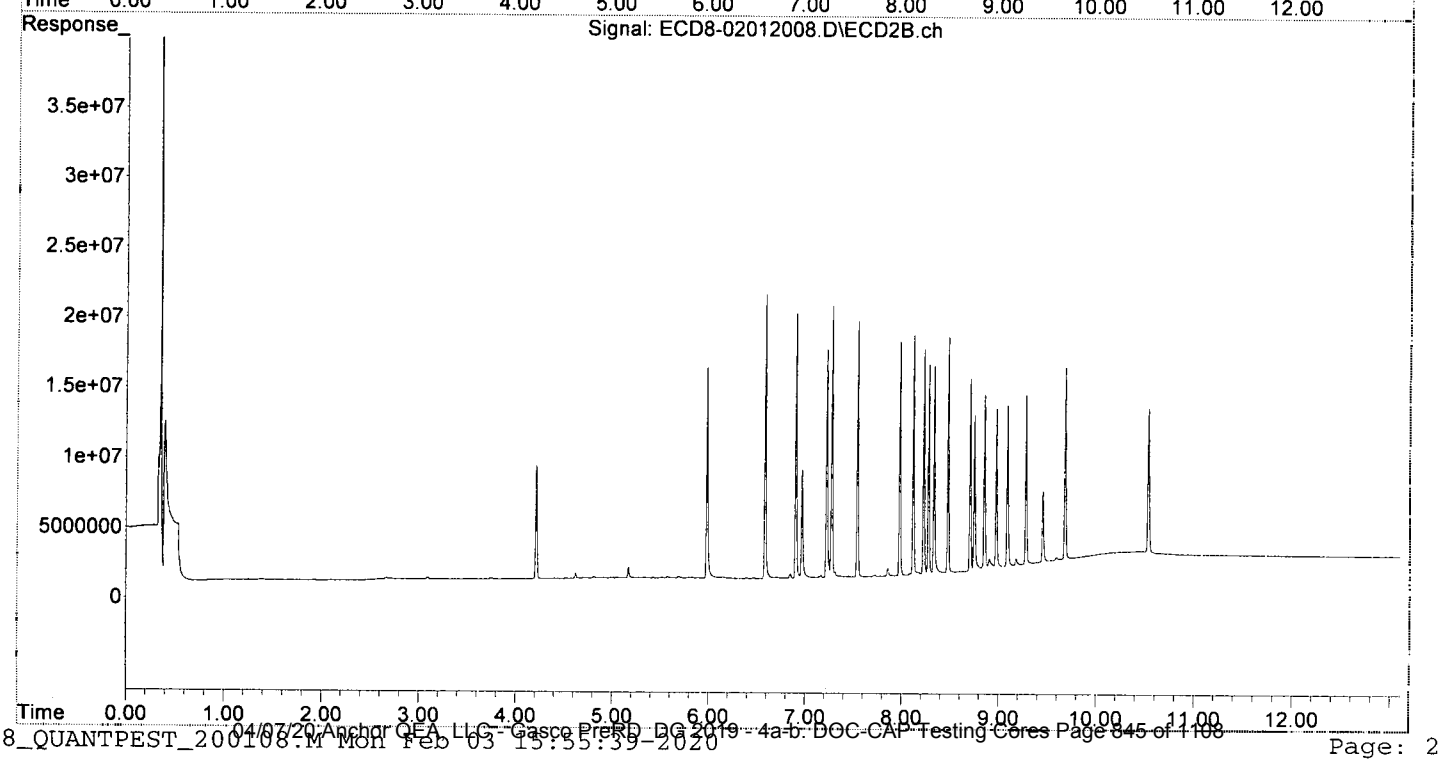
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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

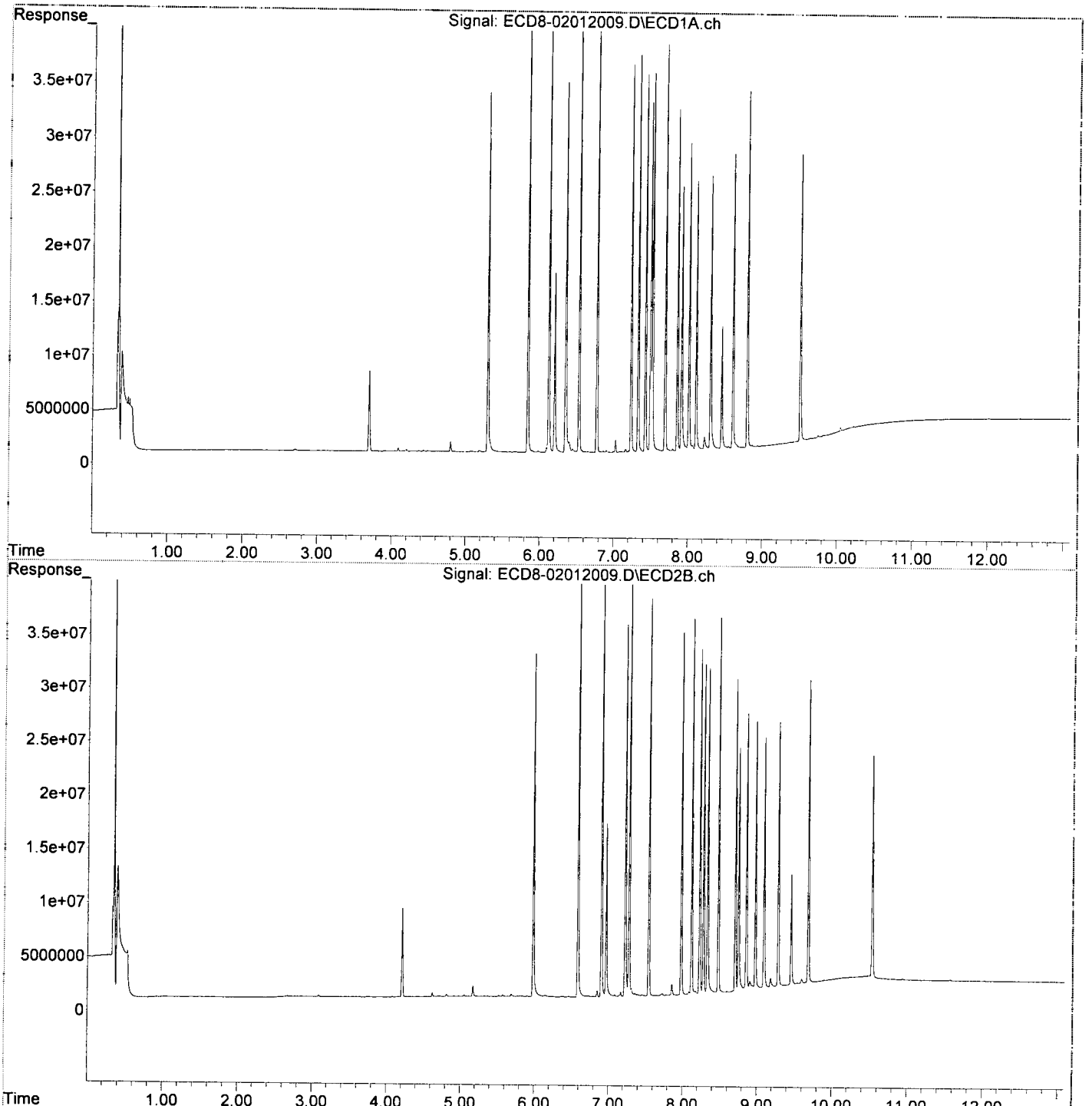
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	5.297	5.981	33031495	31880995	9.859	8.779
22) S	DCBP (S)	9.507	10.537	26605868	21641632	10.977	10.254
	Target Compounds						
2)	a-BHC	5.836	6.585	46556069	43486995	12.465	11.969
3)	g-BHC	6.119	6.902	40429962	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

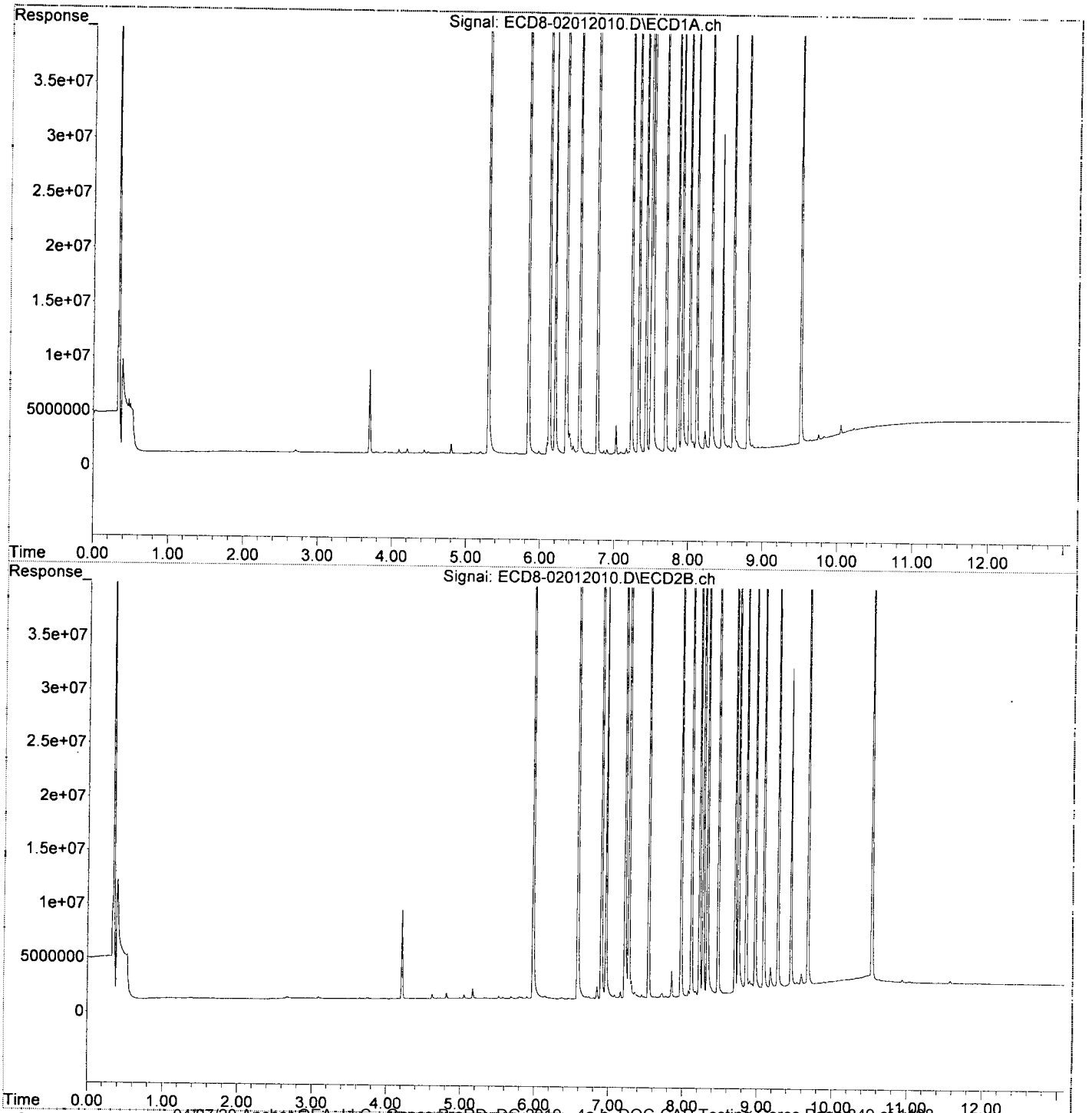
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S TCMX (S)	5.297	5.981	85829808	85149324	25.617	23.448
22)	S DCBP (S)	9.507	10.537	66452642	54017910	27.578	25.565
	Target Compounds						
2)	a-BHC	5.836	6.583	121.6E6	119.2E6	32.565	31.414
3)	g-BHC	6.118	6.901	105.7E6	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

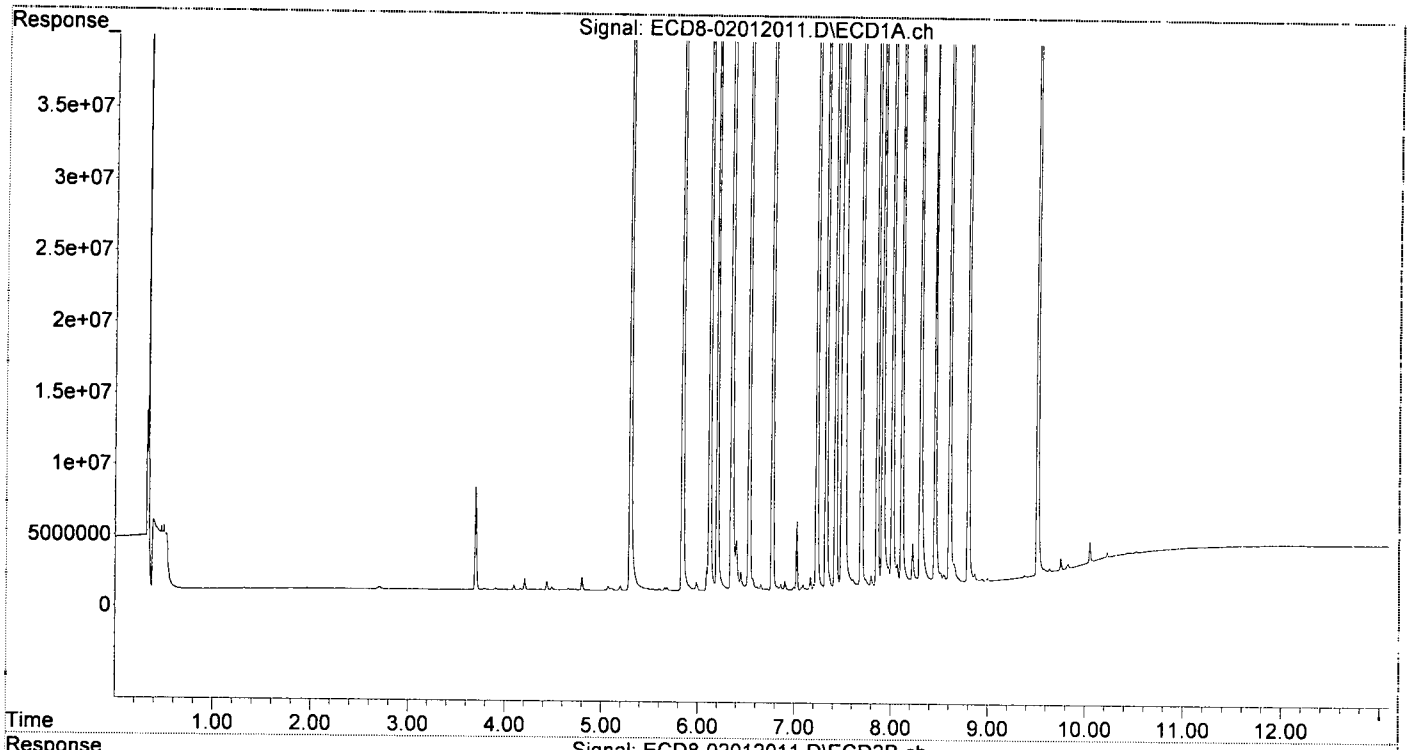
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	5.297	5.981	160.2E6	168.3E6	47.813	46.342
22) S	DCBP (S)	9.507	10.537	123.4E6	103.8E6	50.912	48.124
	Target Compounds						
2)	a-BHC	5.837	6.585	224.9E6	233.3E6	60.209	58.407
3)	g-BHC	6.119	6.902	203.3E6	211.8E6	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

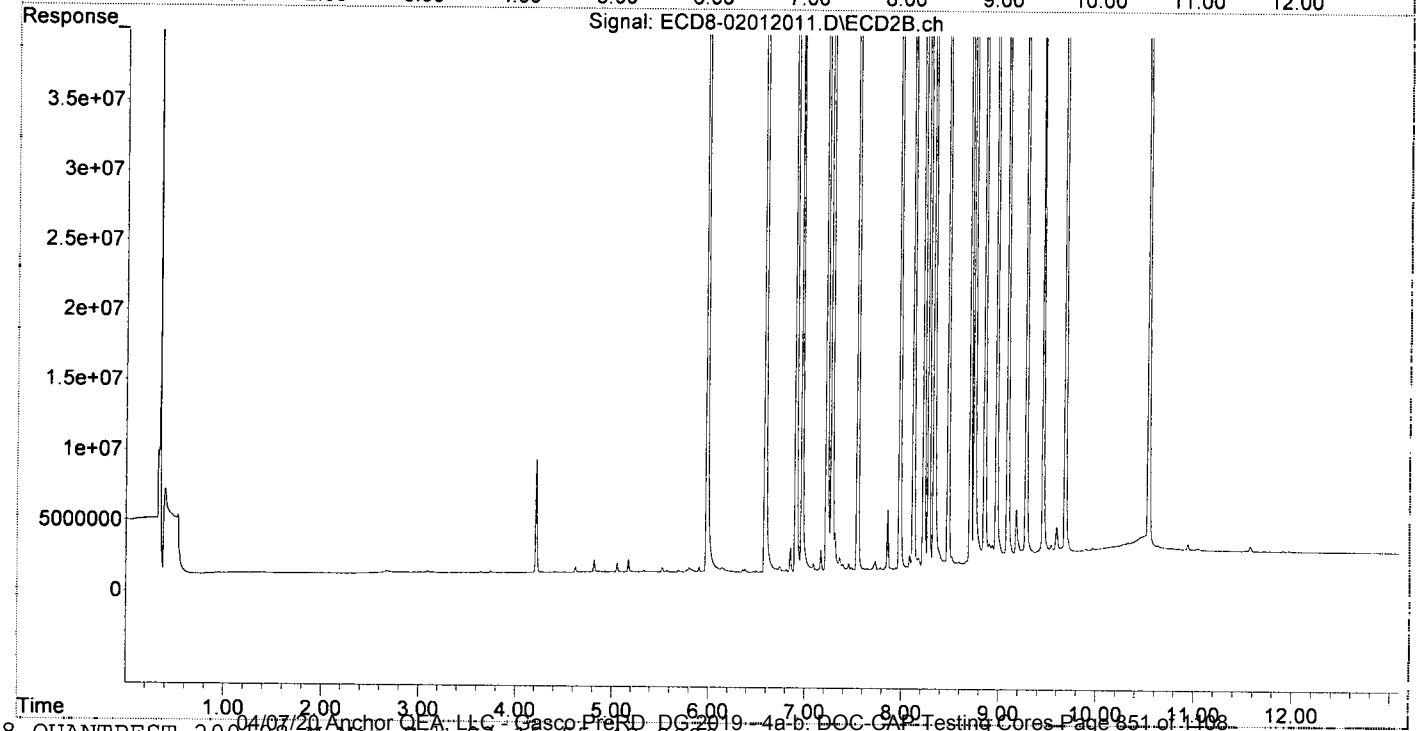
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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

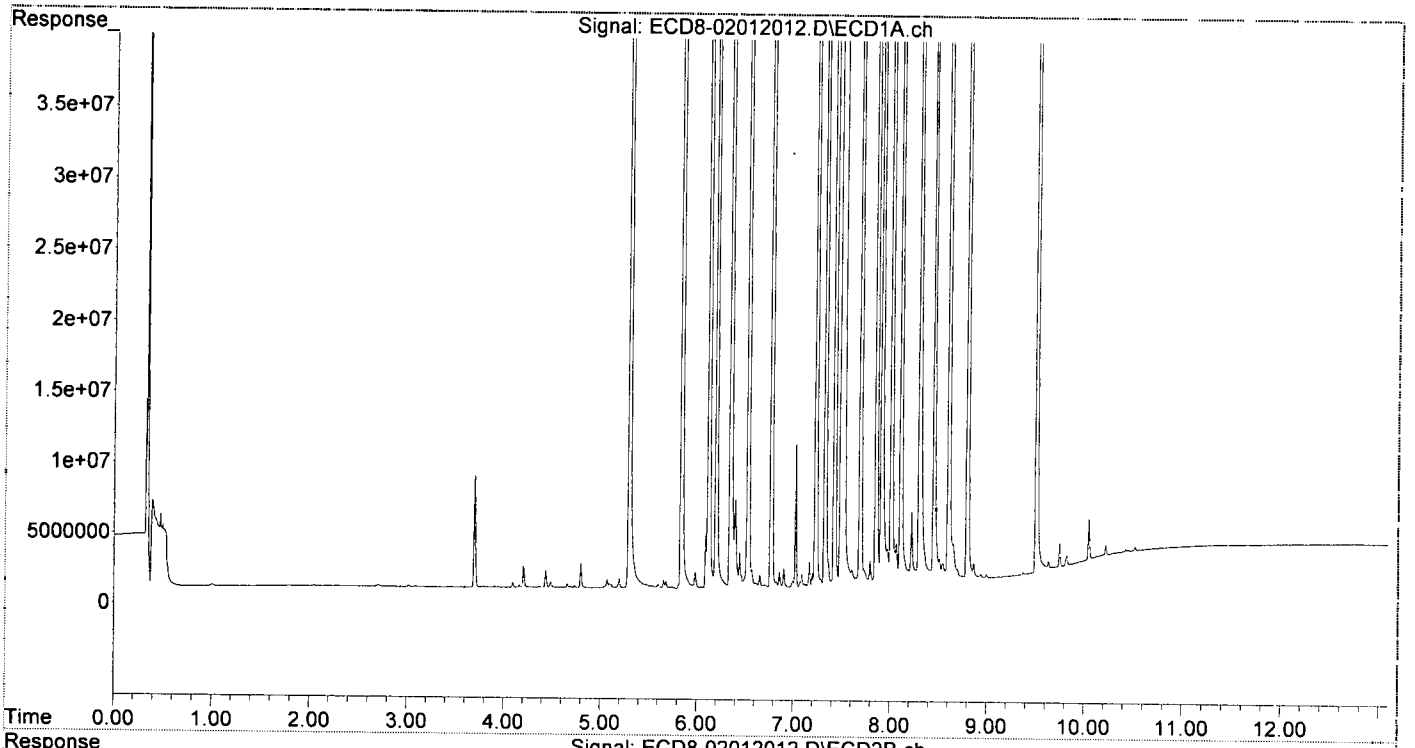
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S TCMX (S)	5.298	5.982	355.4E6	386.4E6	106.080	106.420
22)	S DCBP (S)	9.507	10.537	280.1E6	240.0E6	113.028	104.904
	Target Compounds						
2)	a-BHC	5.837	6.585	509.4E6	553.7E6	136.390	123.895
3)	g-BHC	6.120	6.902	435.9E6	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

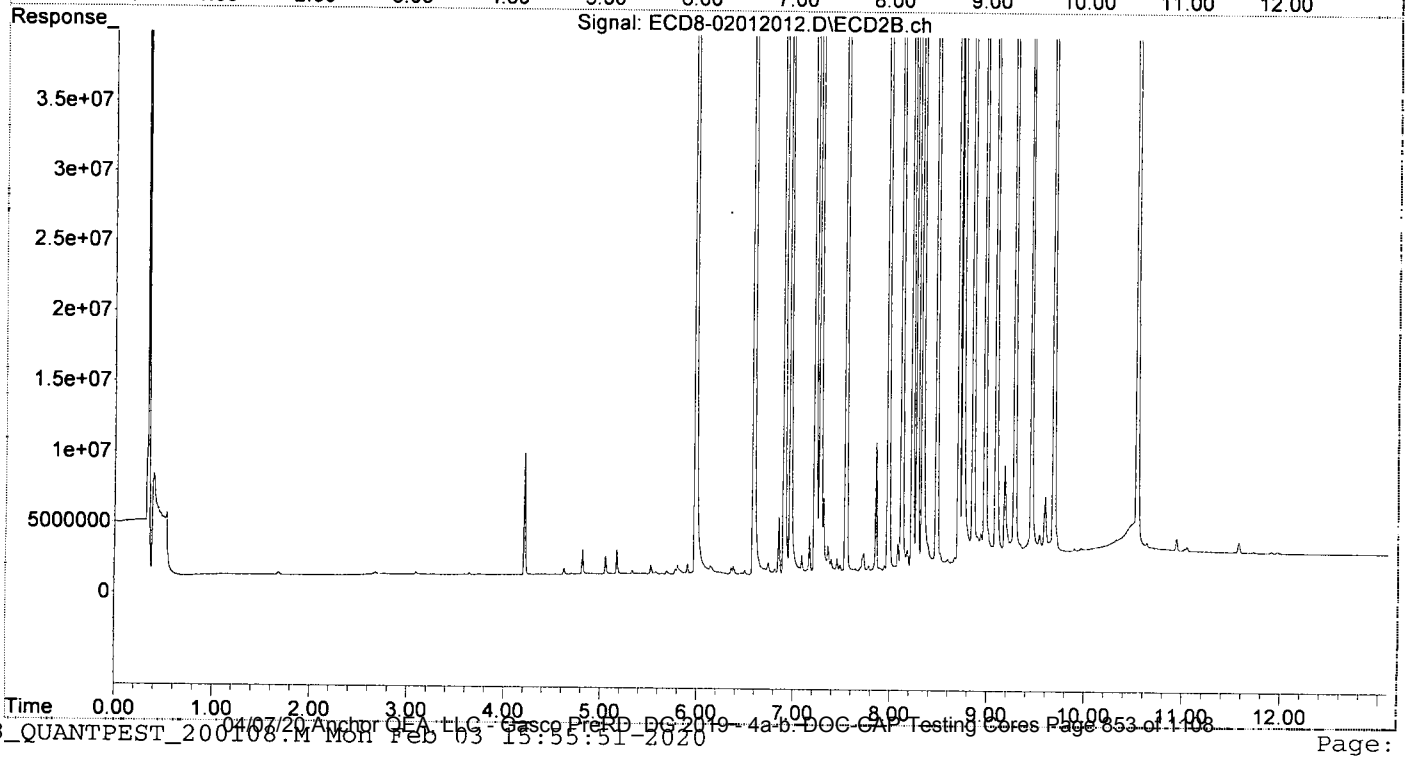
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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

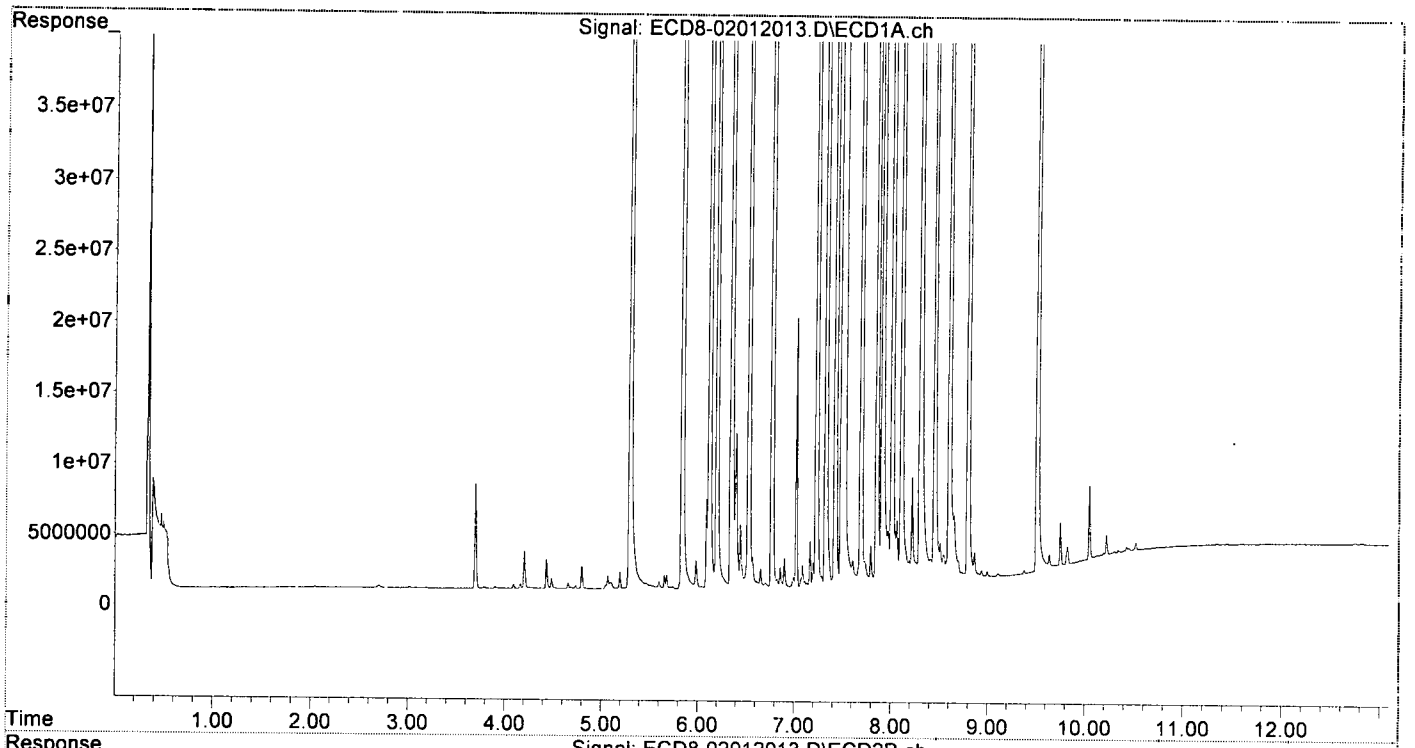
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S TCMX (S)	5.297	5.981	683.0E6	808.5E6	203.858	222.644
22)	S DCBP (S)	9.507	10.537	554.4E6	477.6E6	215.222	191.382
	Target Compounds						
2)	a-BHC	5.837	6.585	1000.4E6	1133.4E6	267.852	219.660
3)	g-BHC	6.119	6.902	881.5E6	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

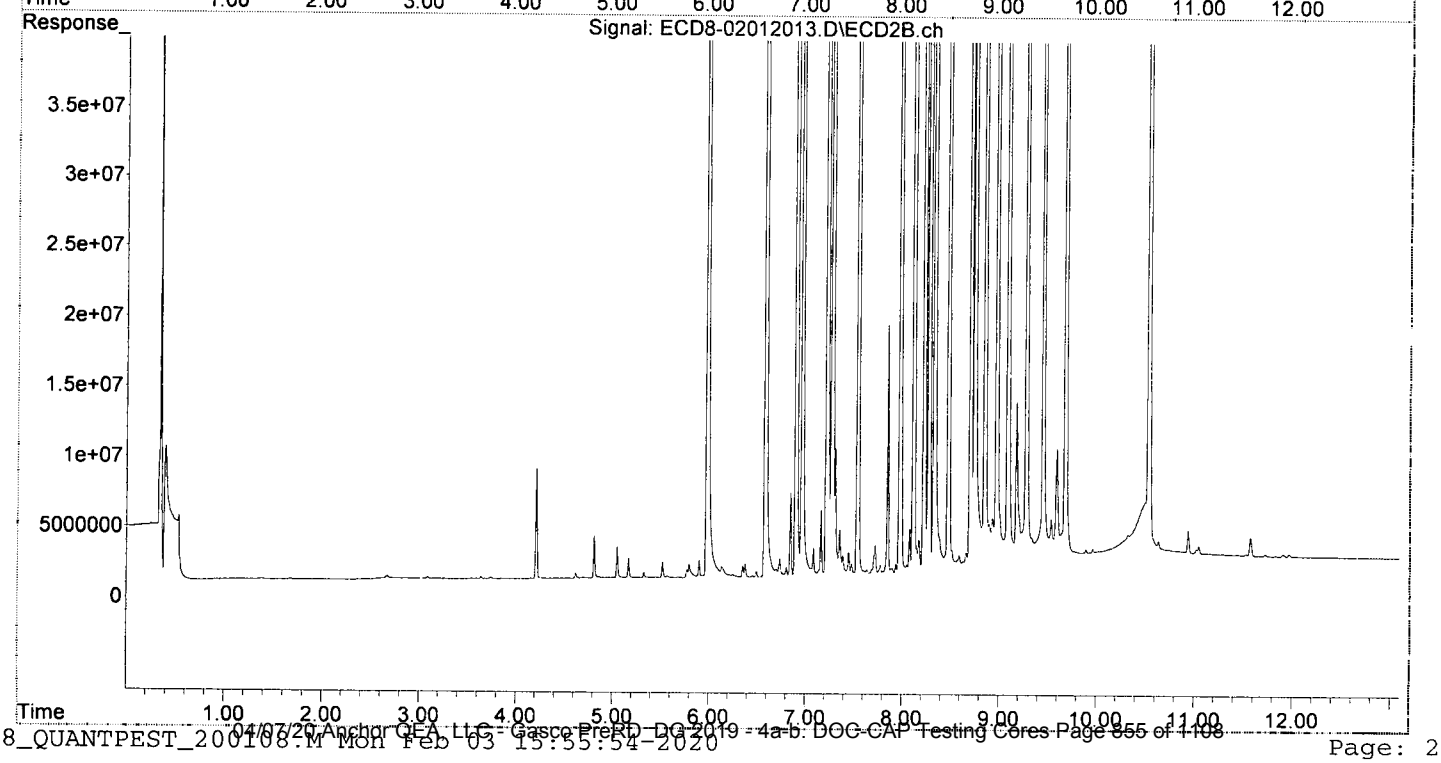
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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 21160

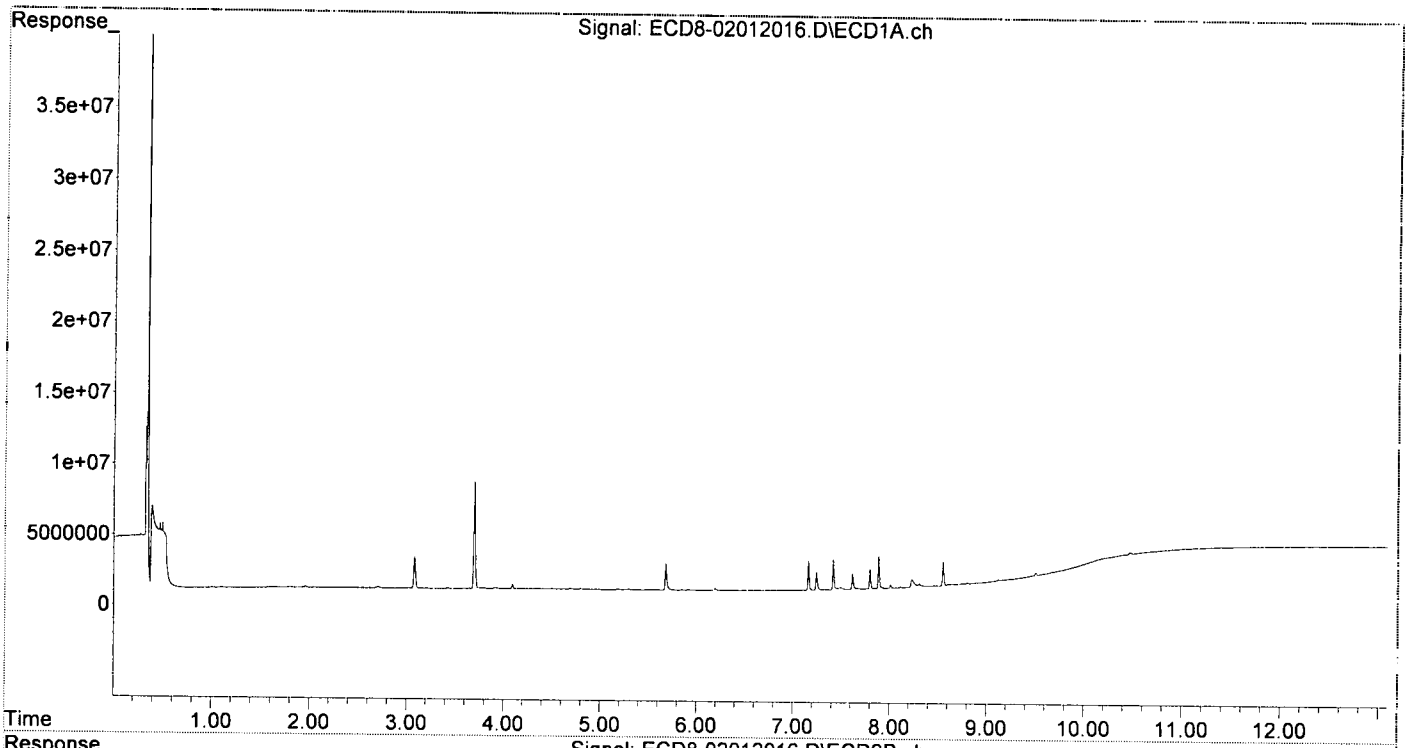
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22)	S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)		a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)		g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)		b-BHC	0.000	0.000	0	0	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

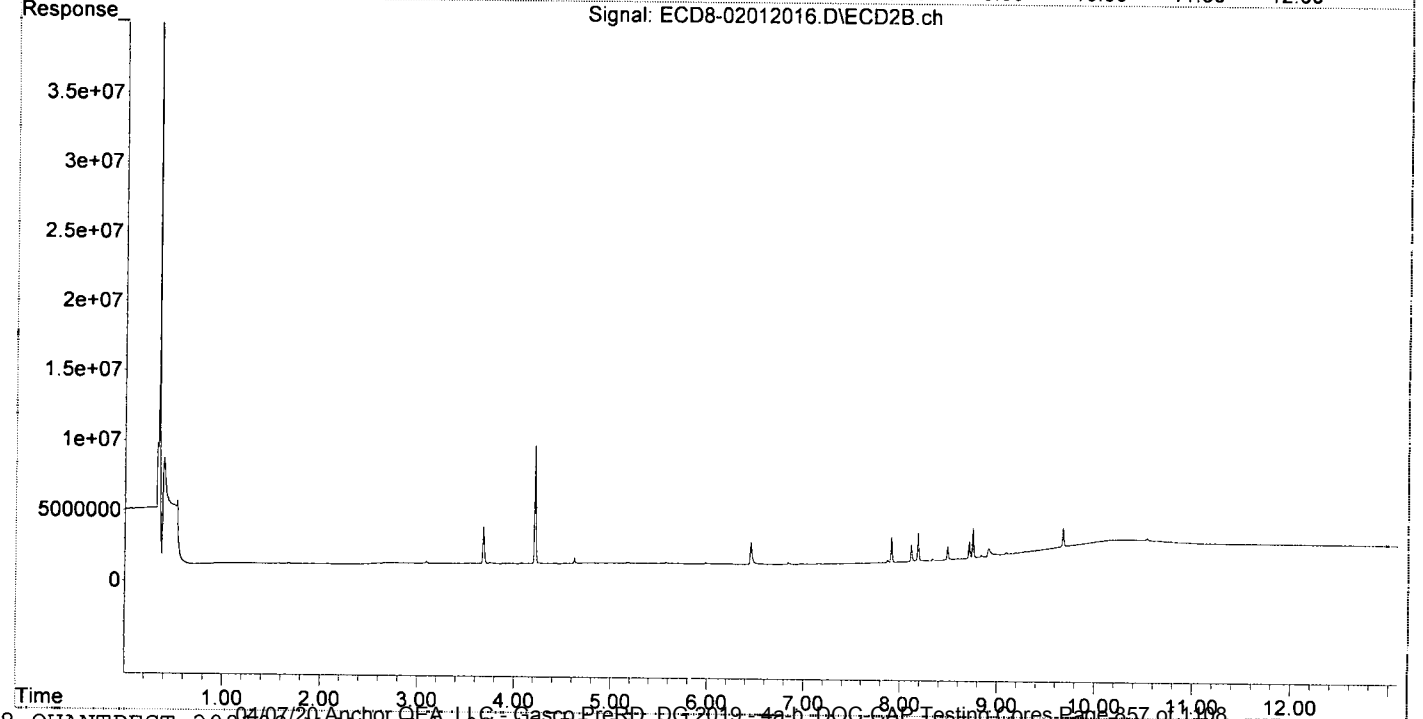
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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

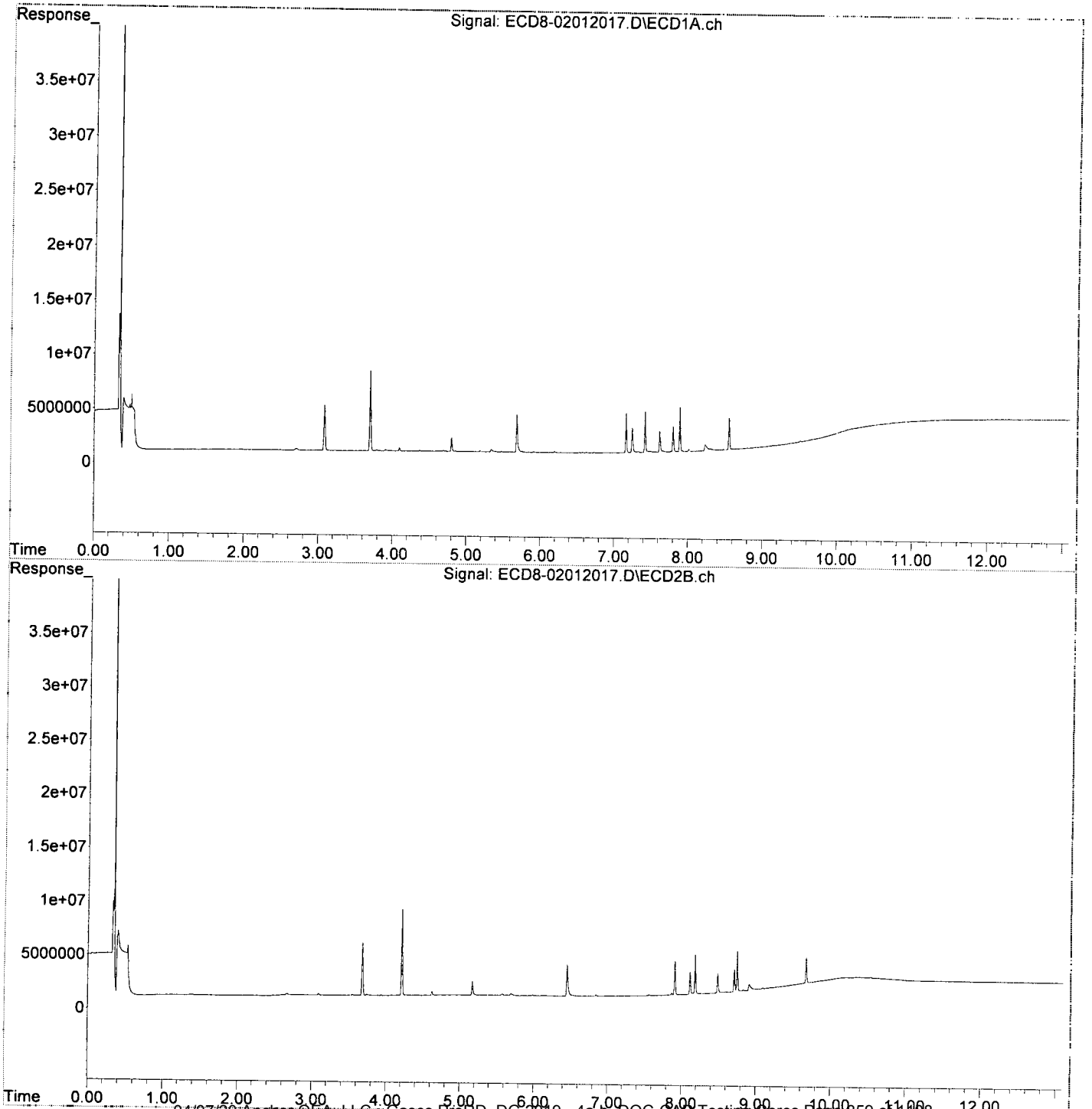
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. 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

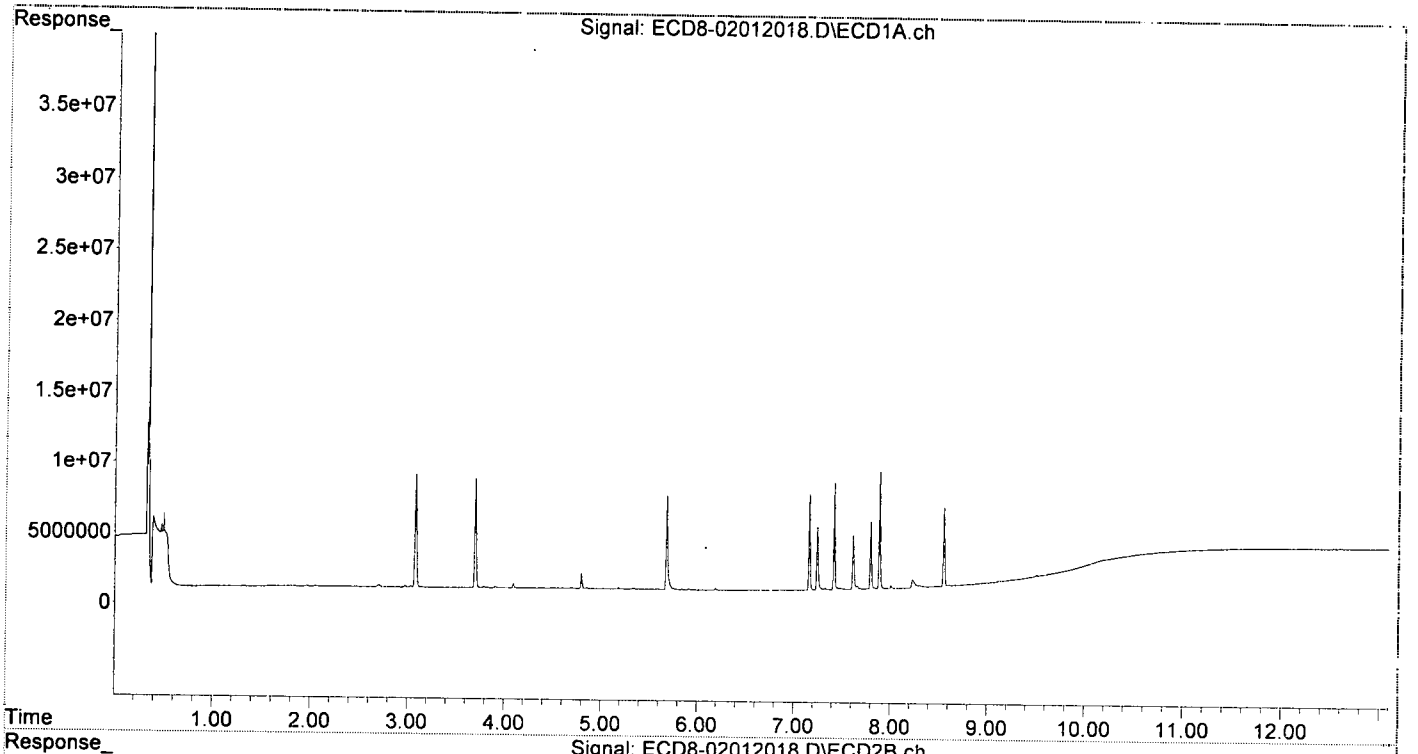
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. 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

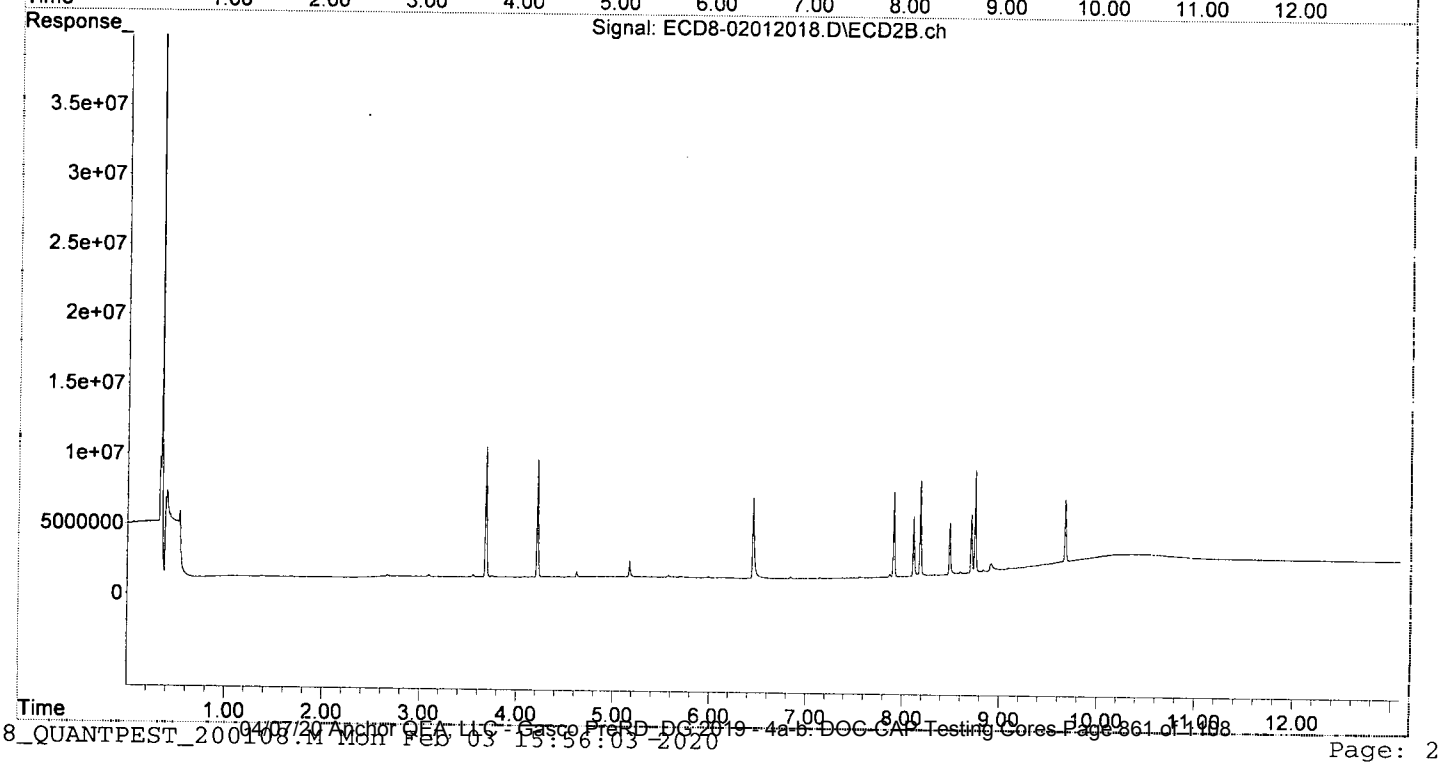
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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

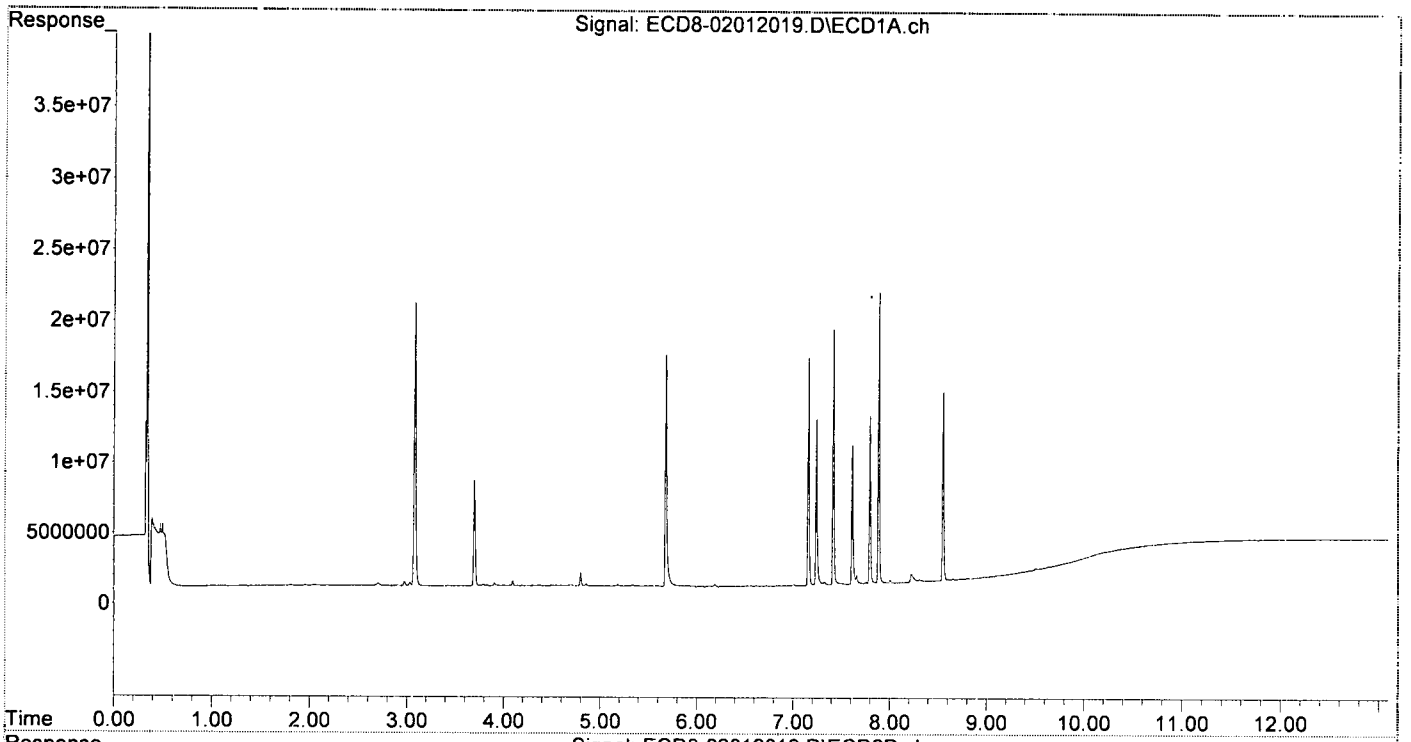
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. 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

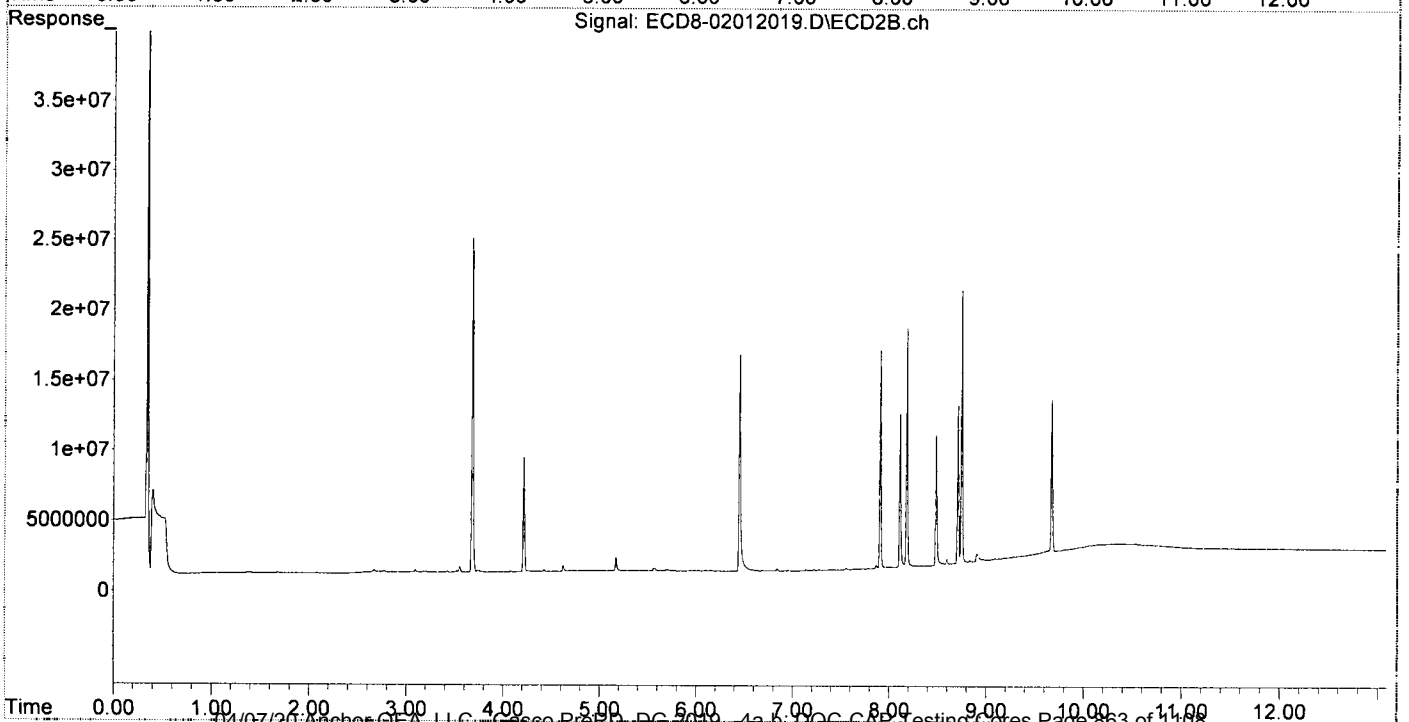
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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.

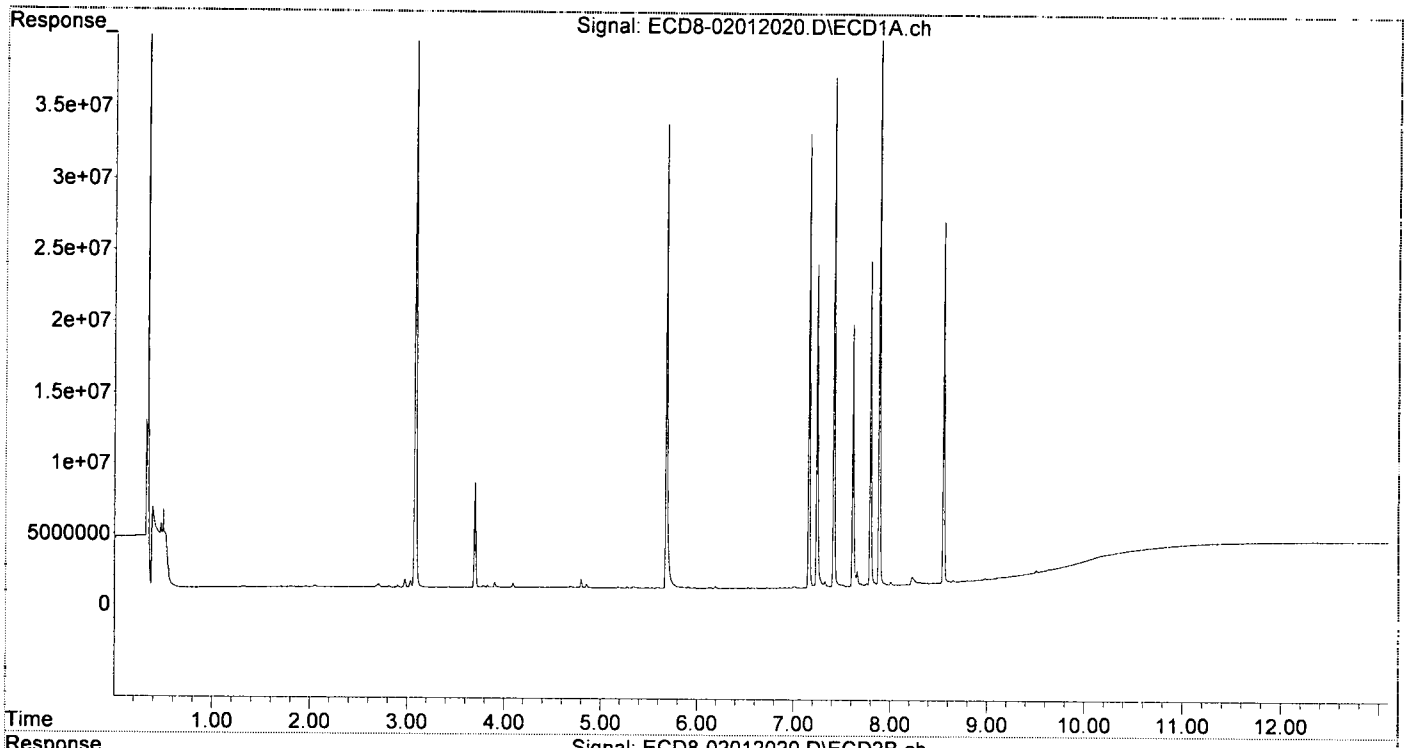
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. 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

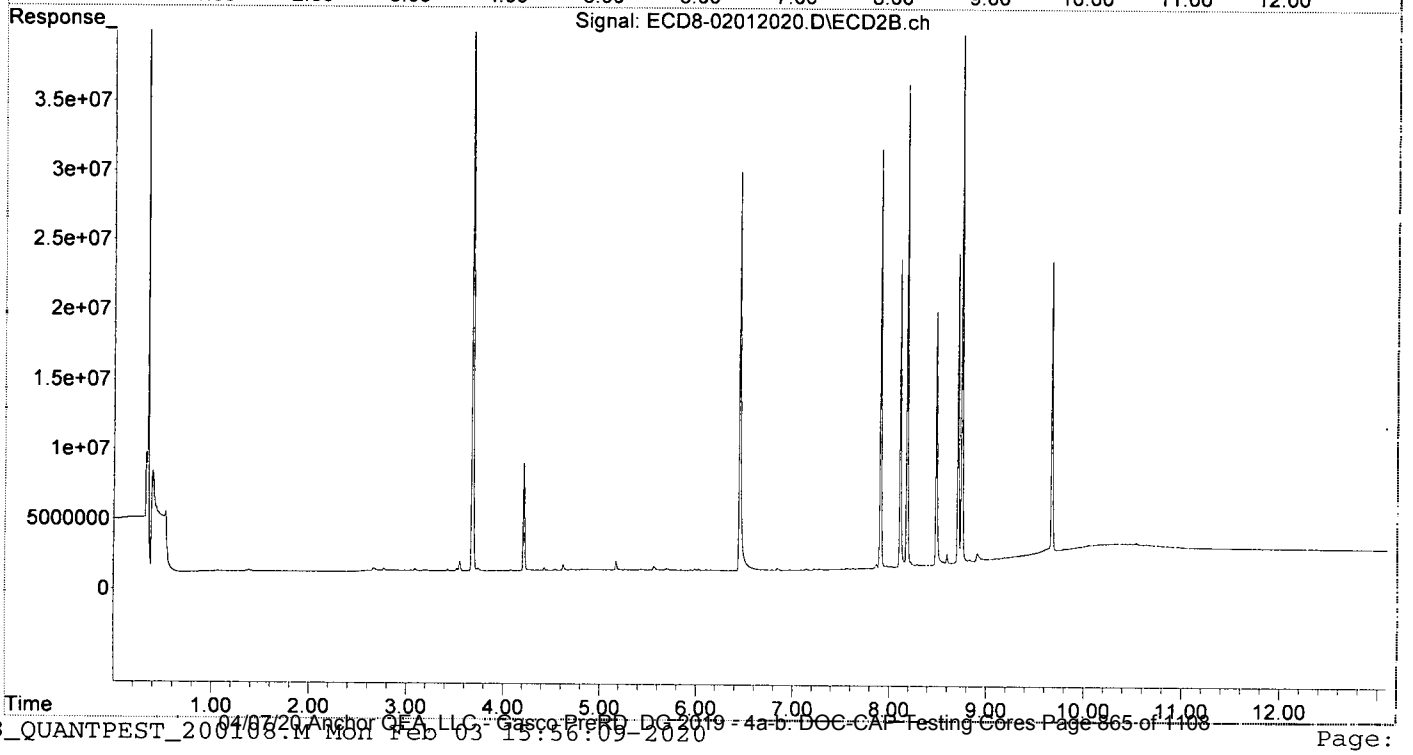
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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

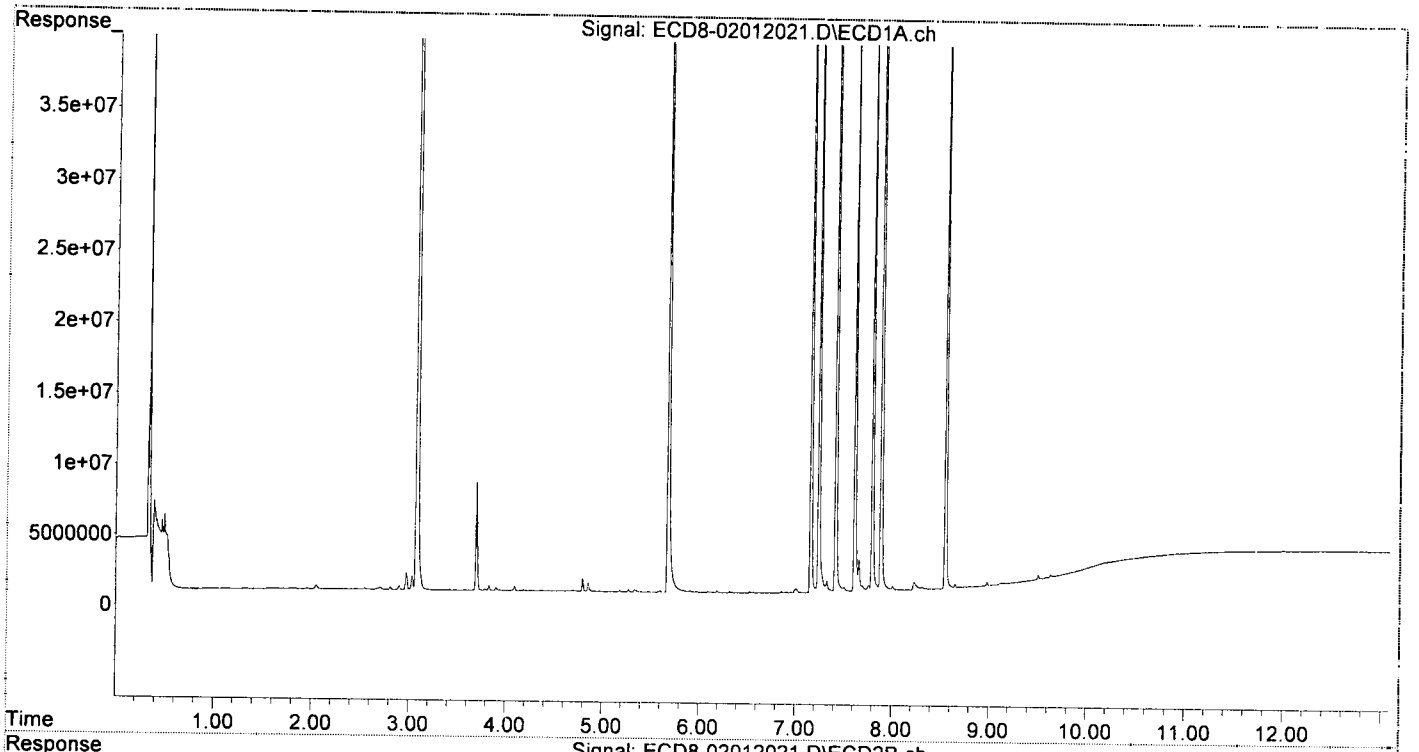
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. 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

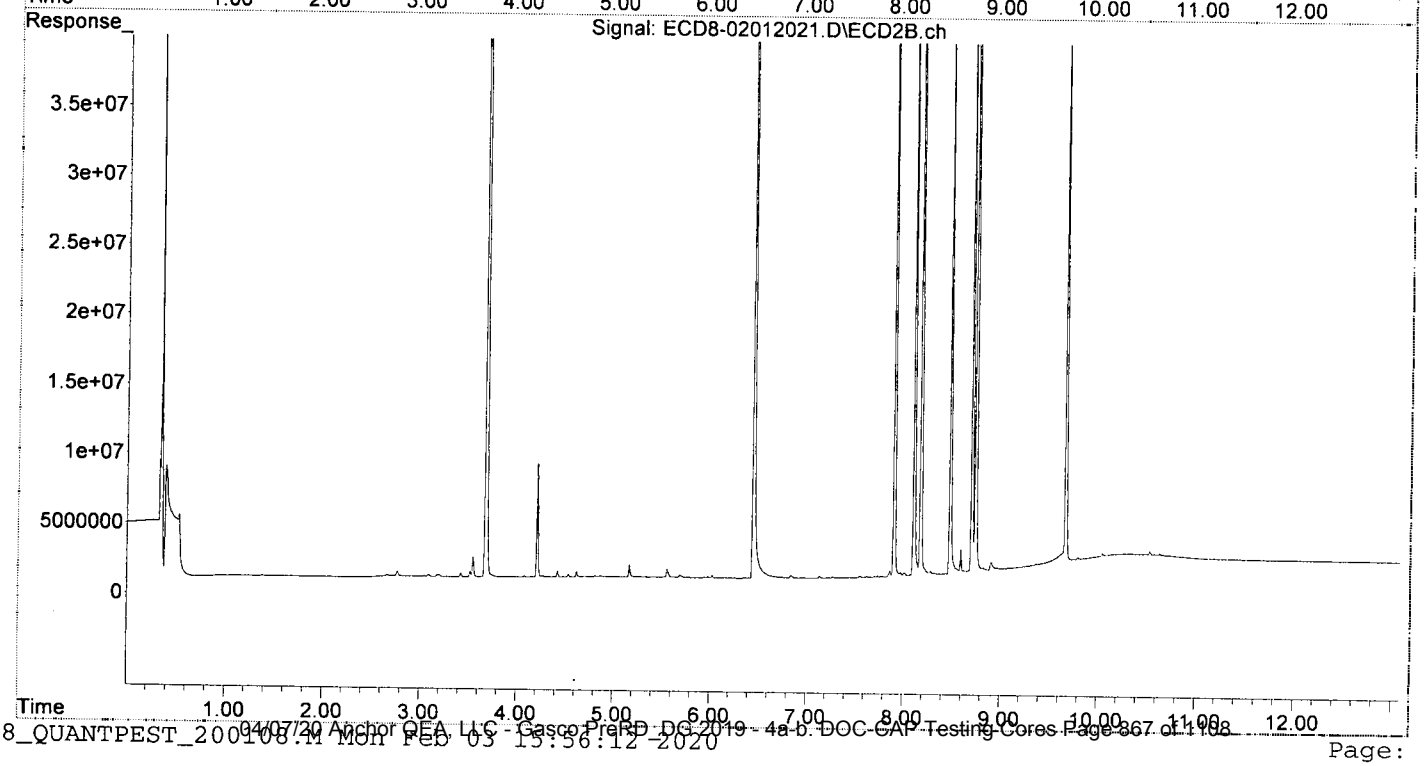
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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

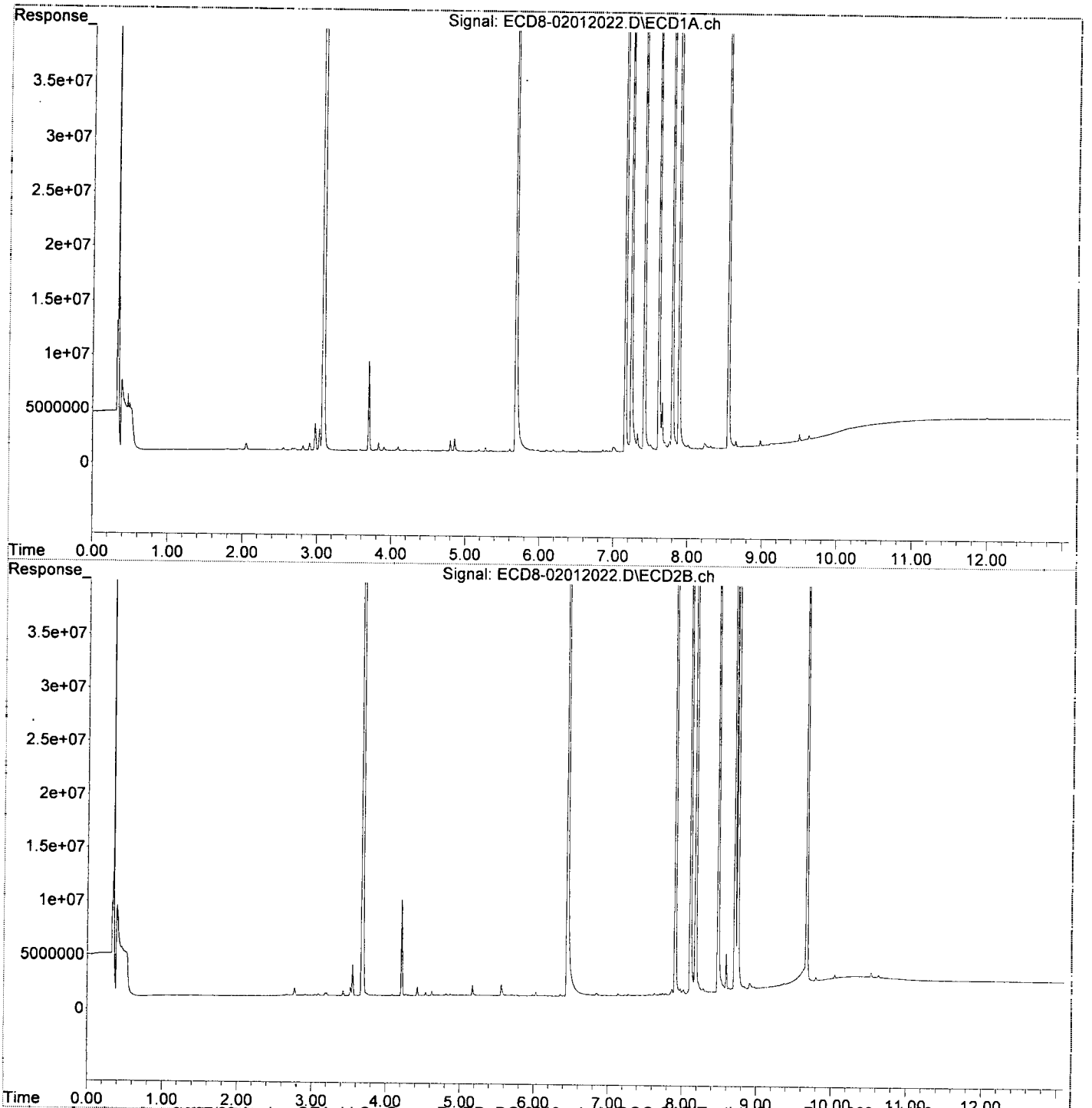
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. 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

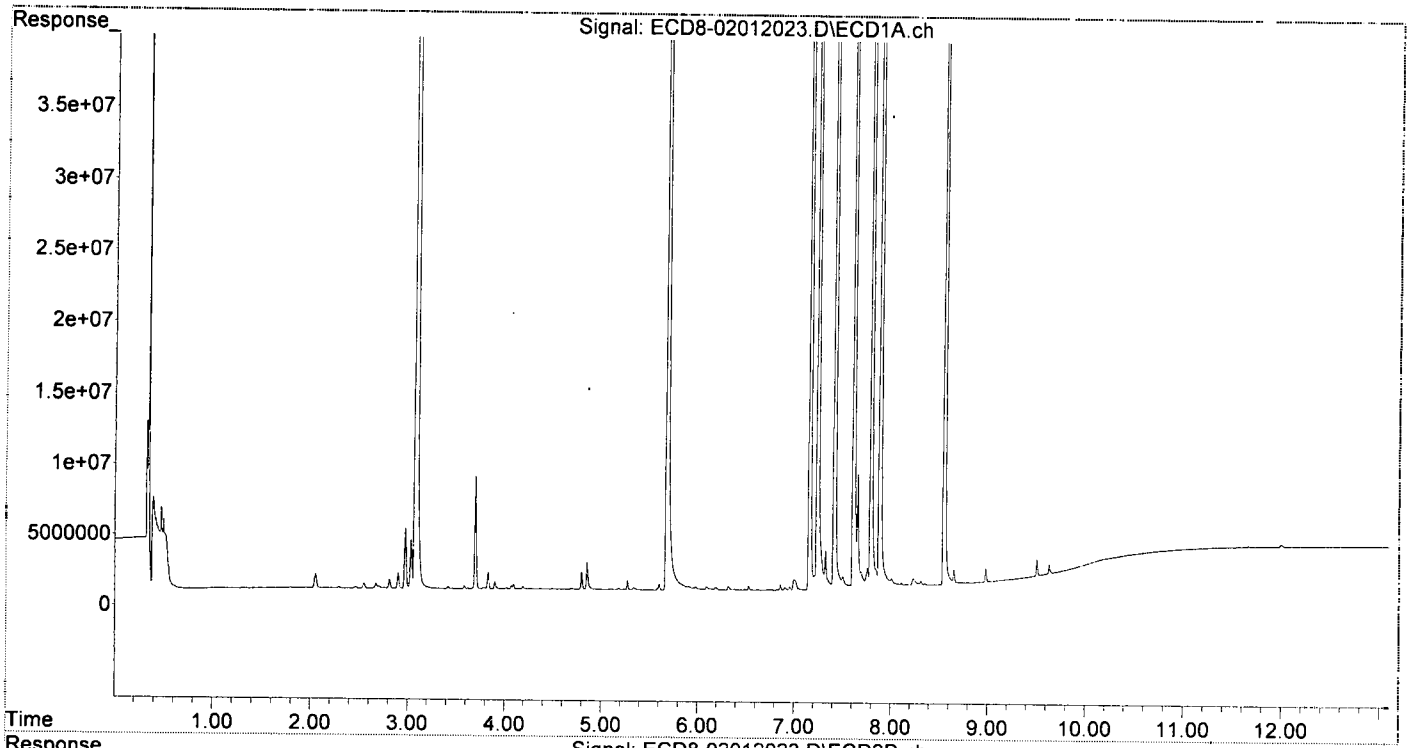
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22)	S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)		a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)		g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)		b-BHC	0.000	0.000	0	0	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

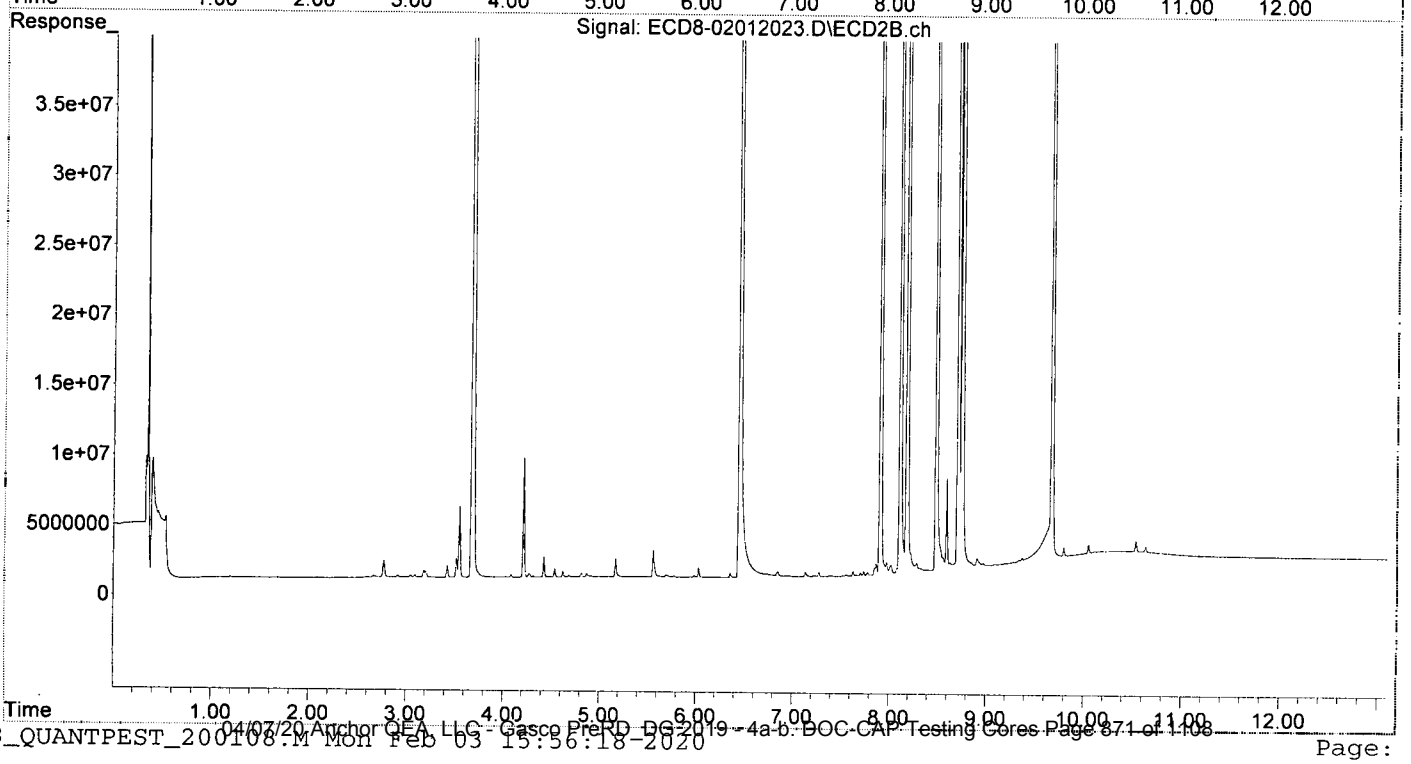
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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

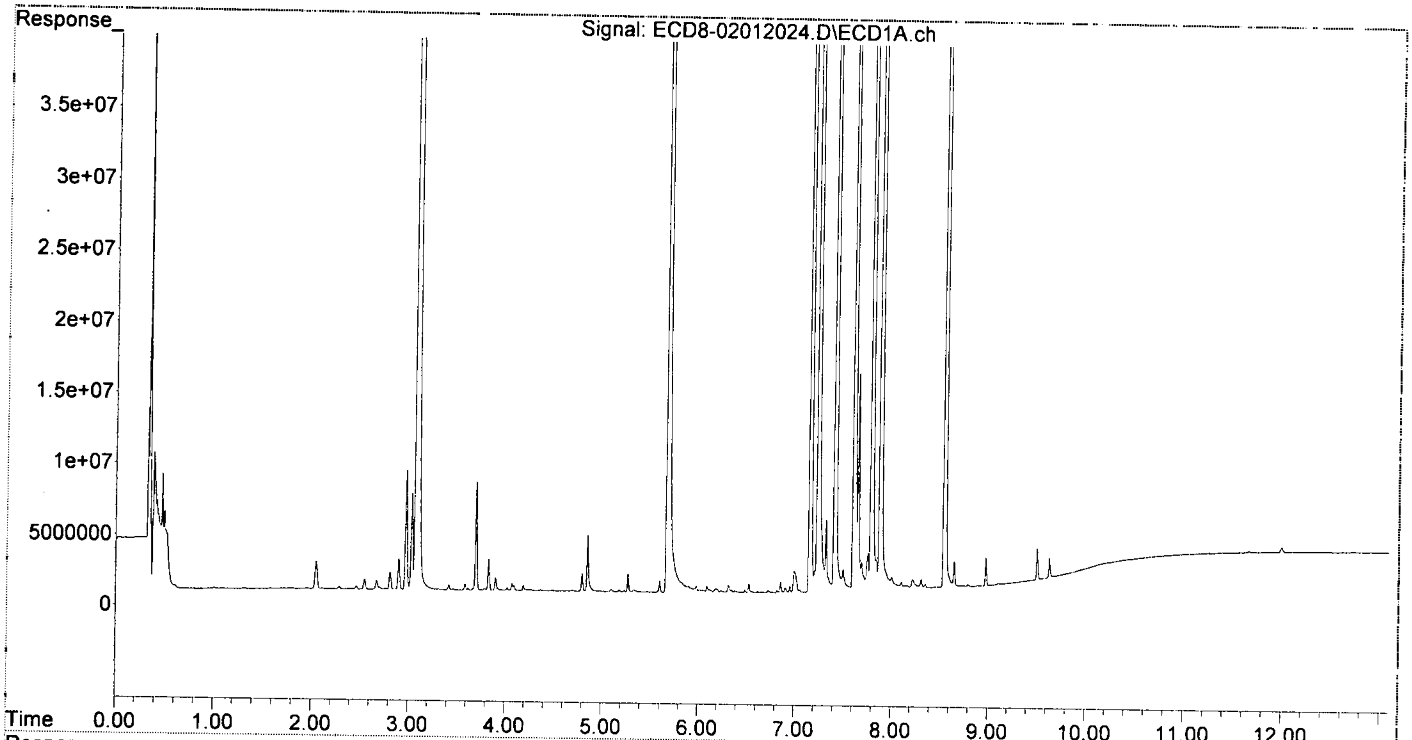
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22)	S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. 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

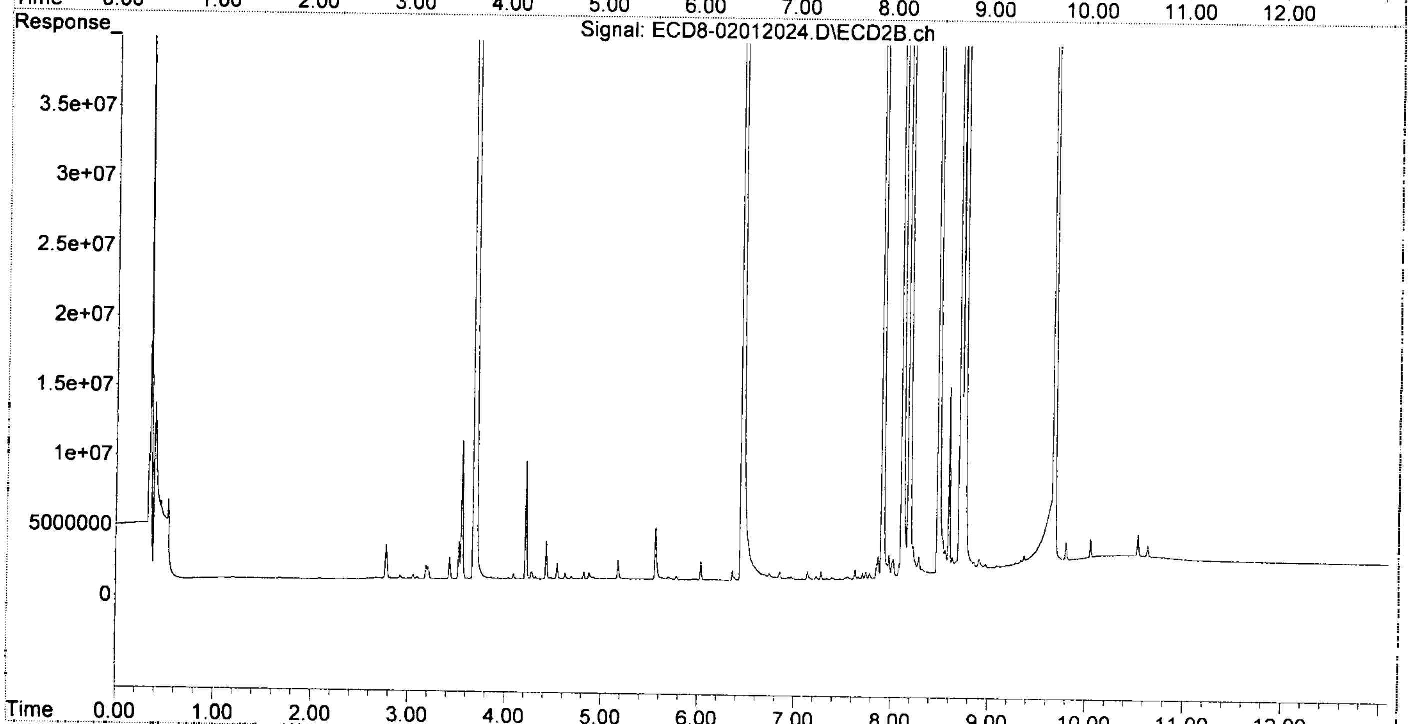
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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

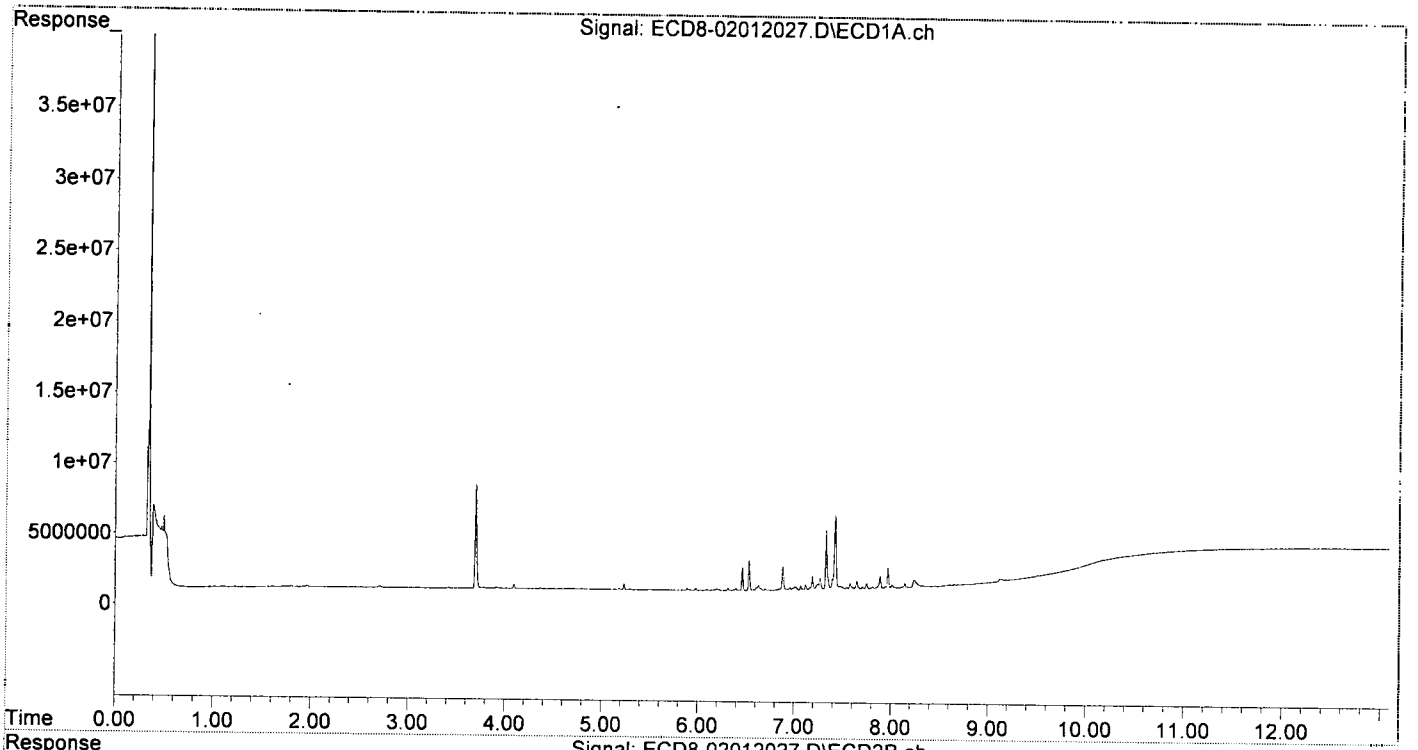
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22)	S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)		a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)		g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)		b-BHC	0.000	0.000	0	0	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

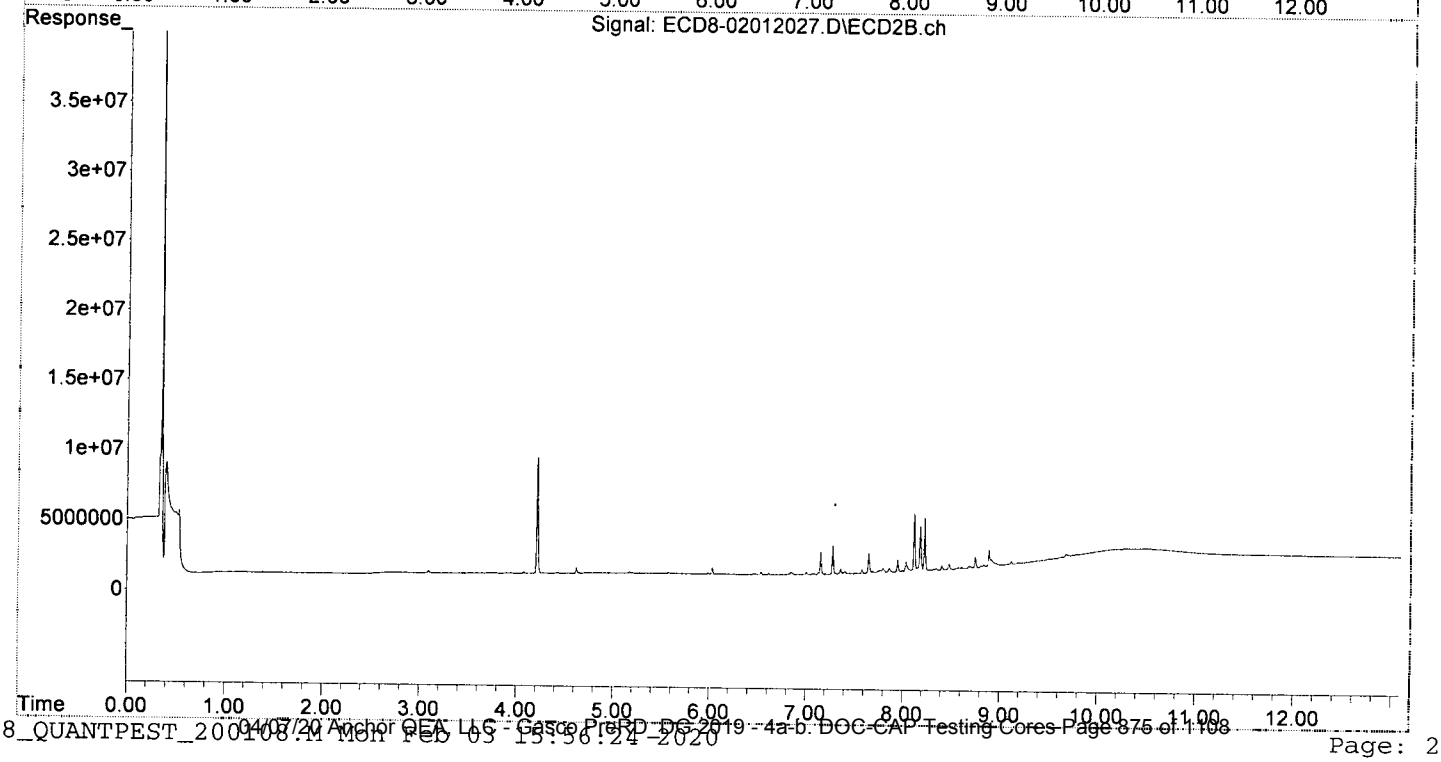
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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

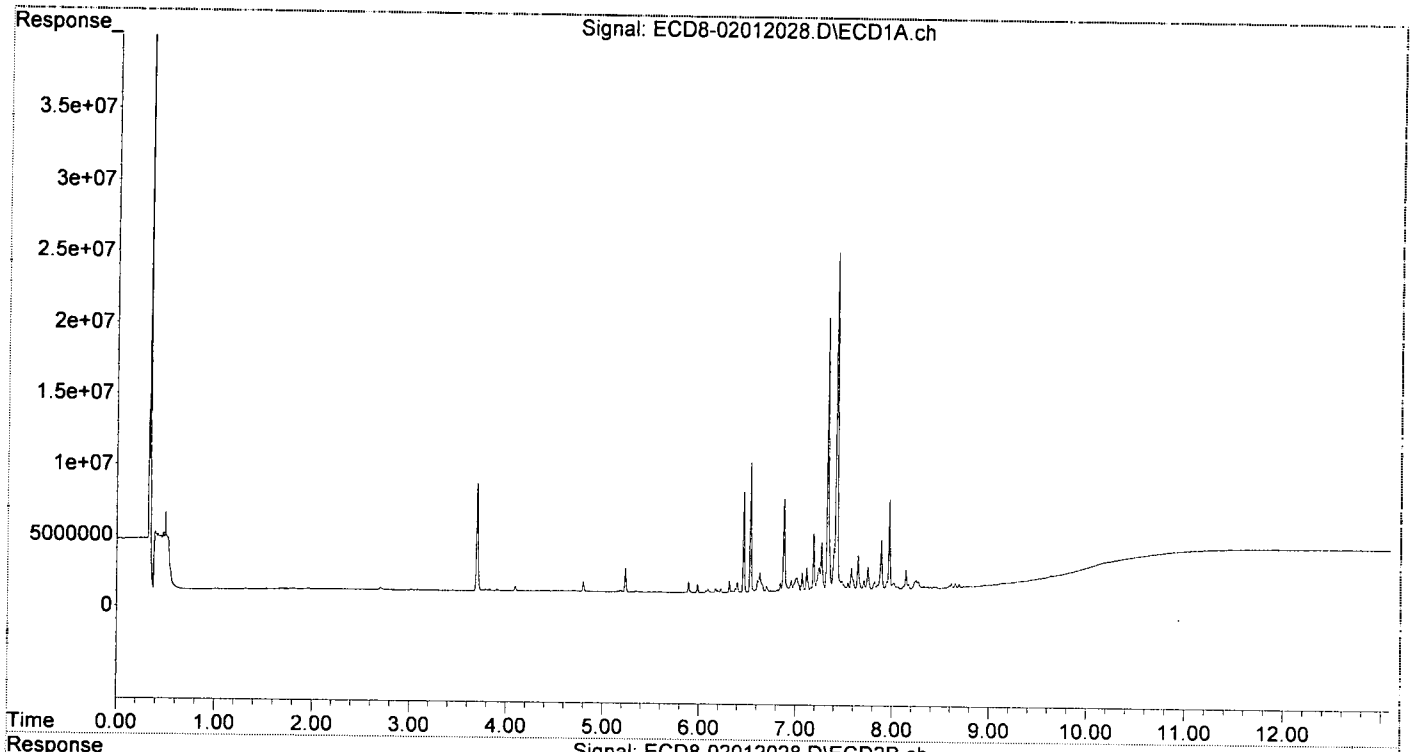
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. 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

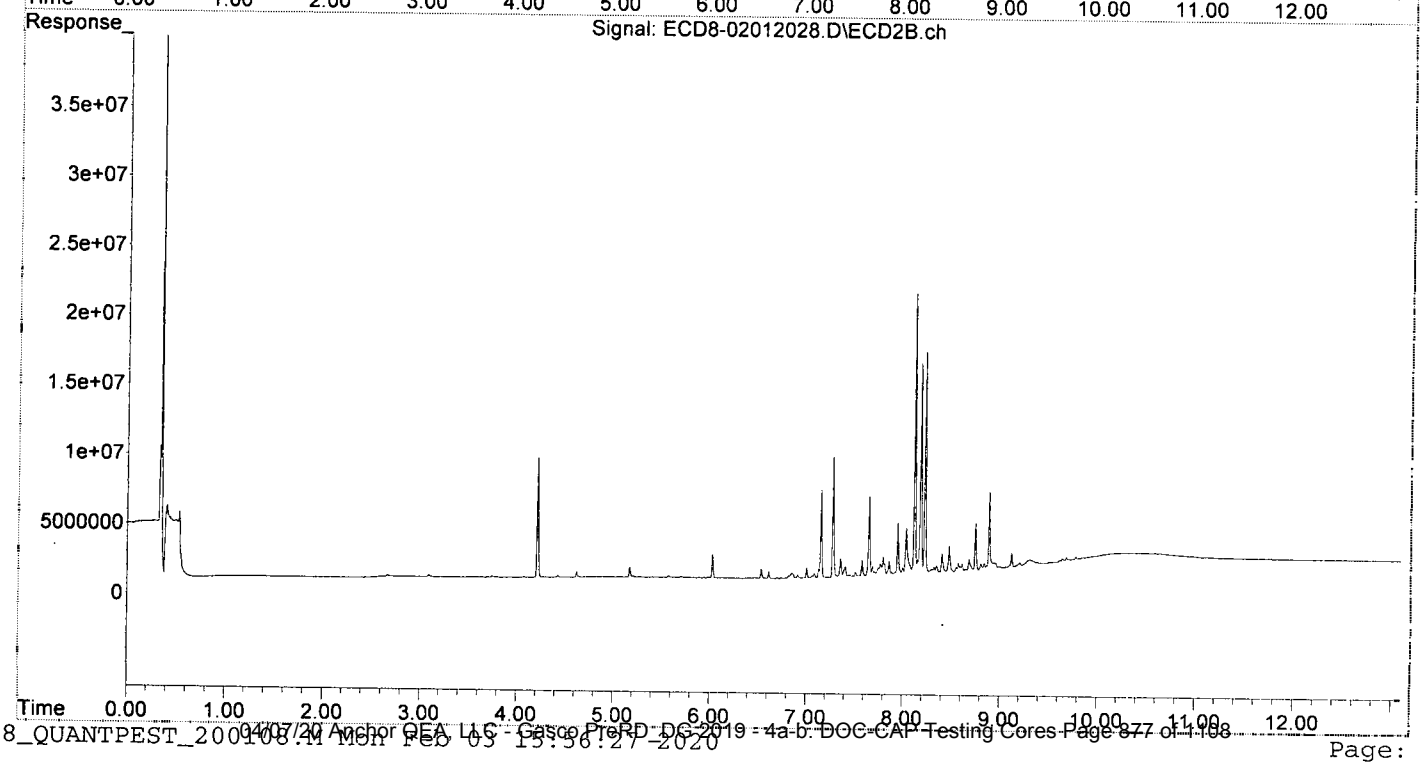
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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

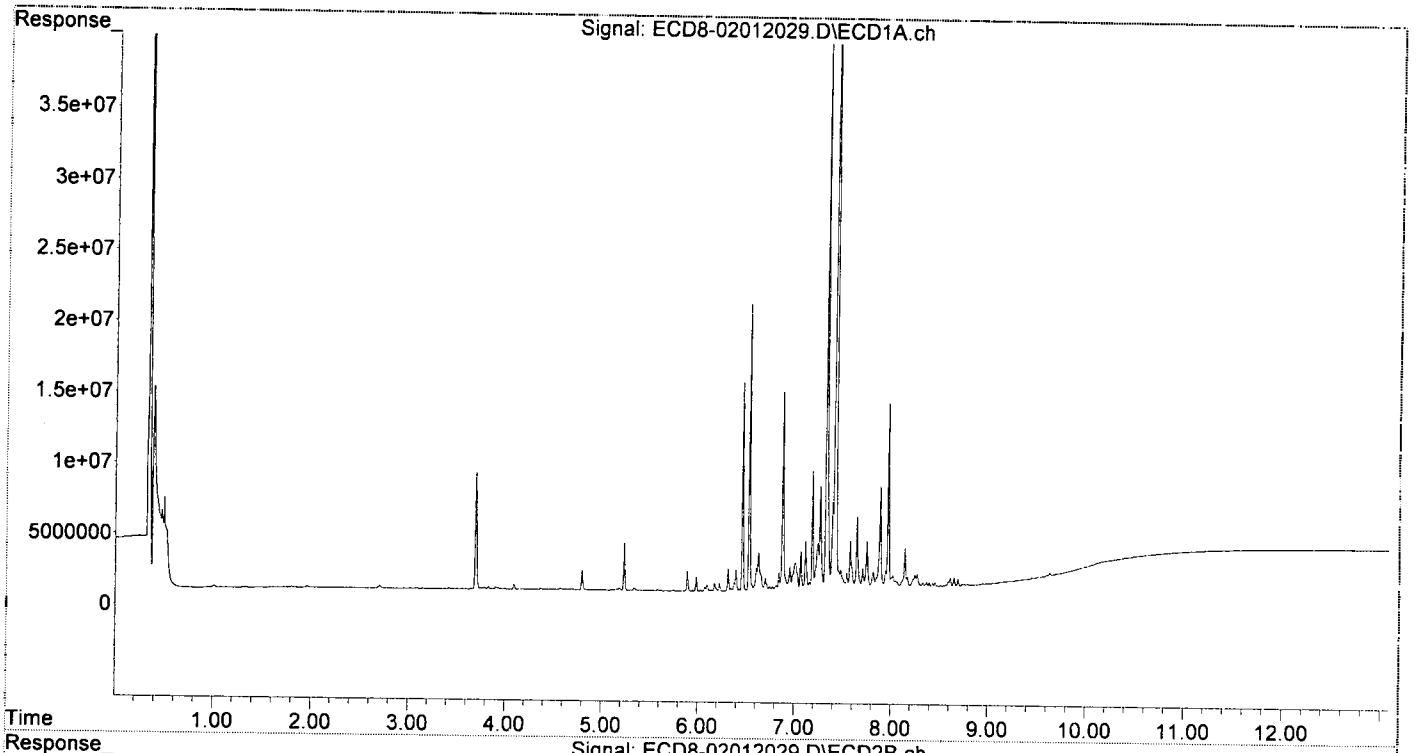
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22)	S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)		a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)		g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)		b-BHC	0.000	0.000	0	0	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

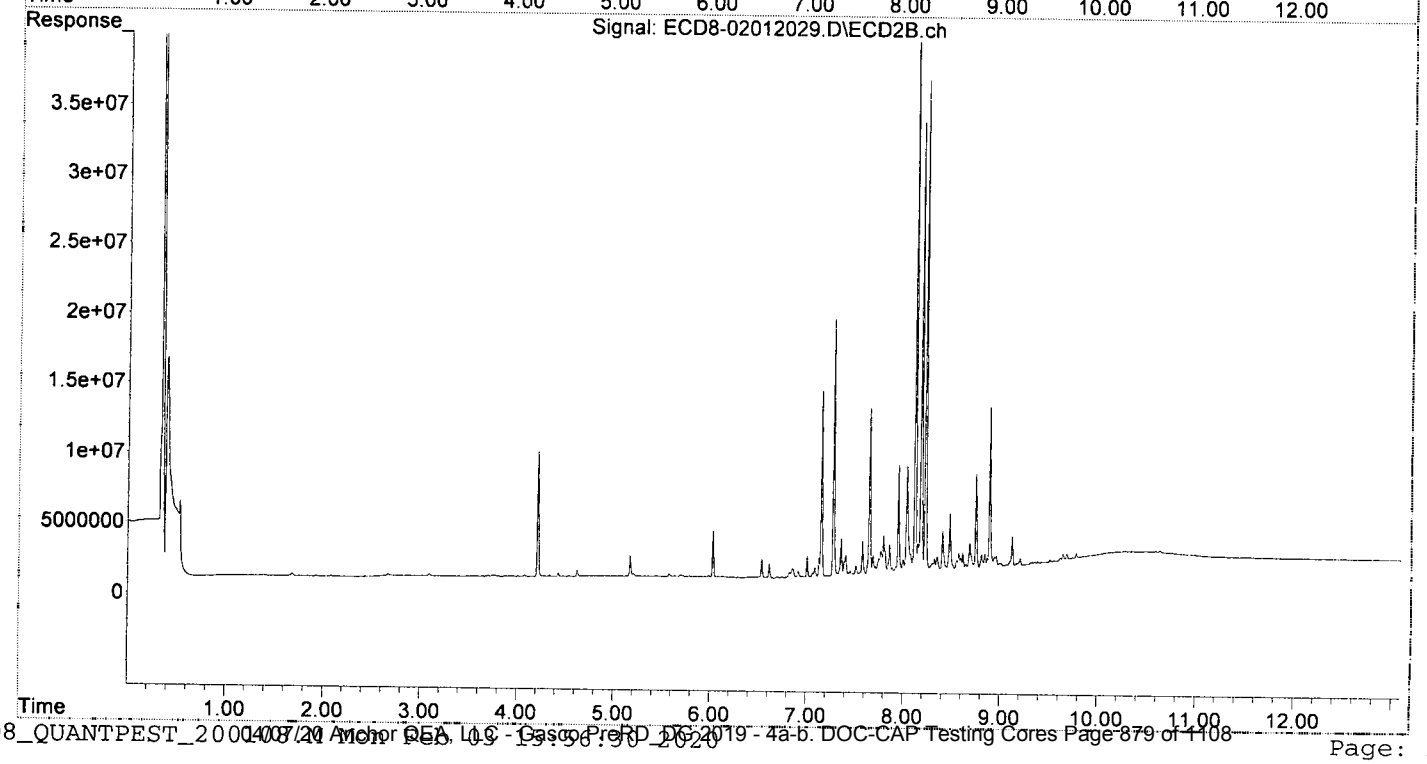
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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

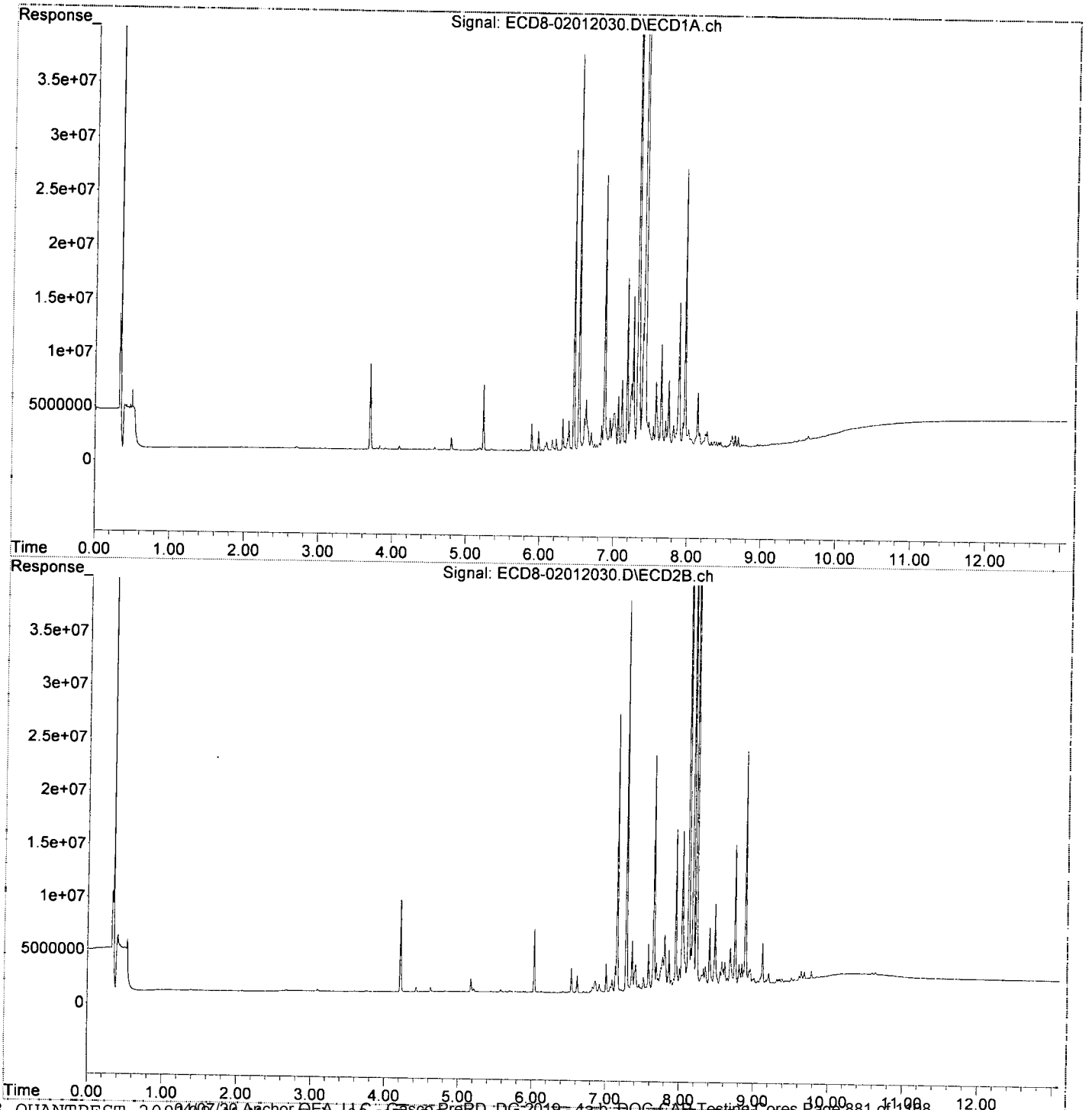
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. 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

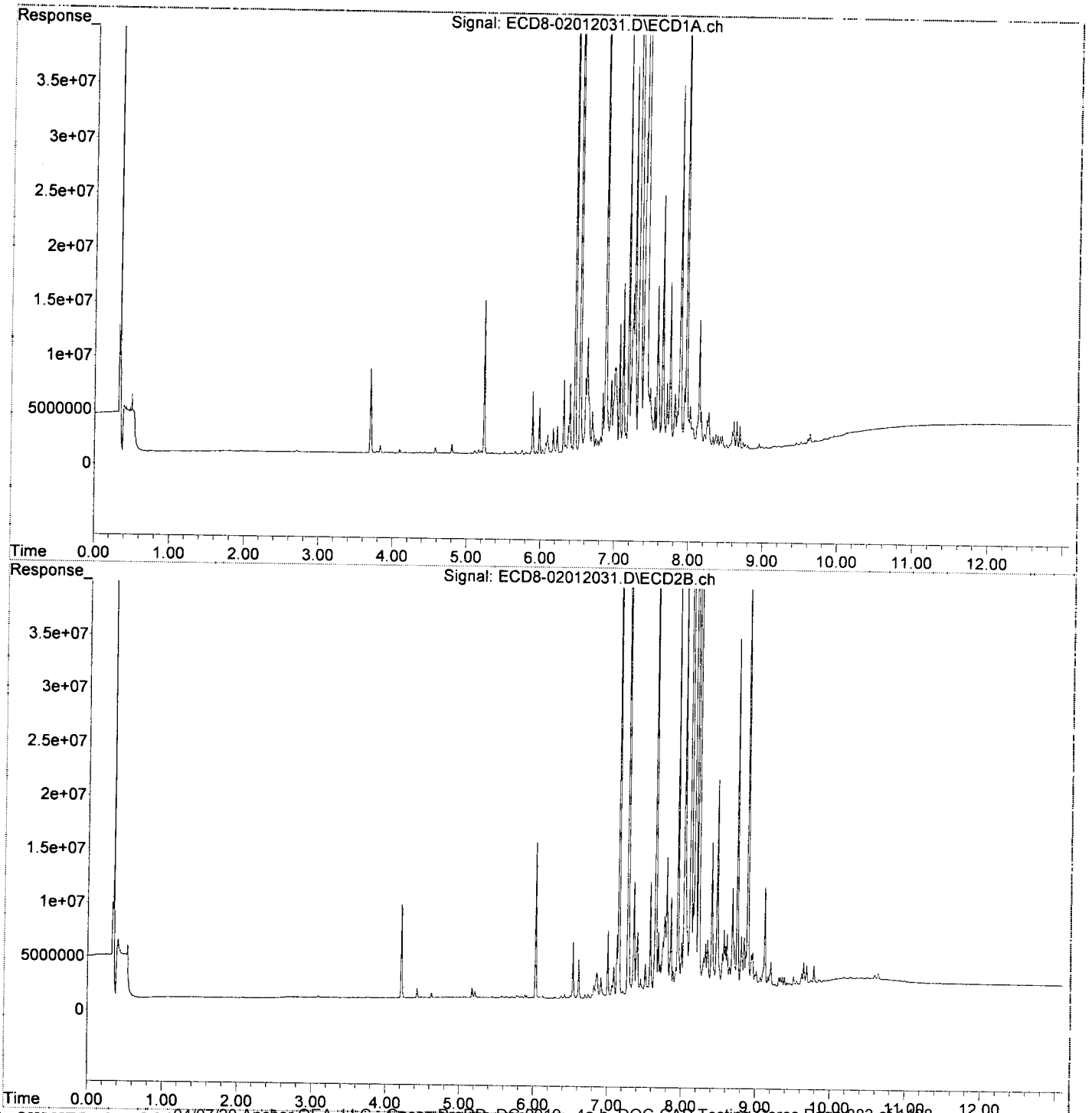
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22)	S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)		a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)		g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)		b-BHC	0.000	0.000	0	0	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

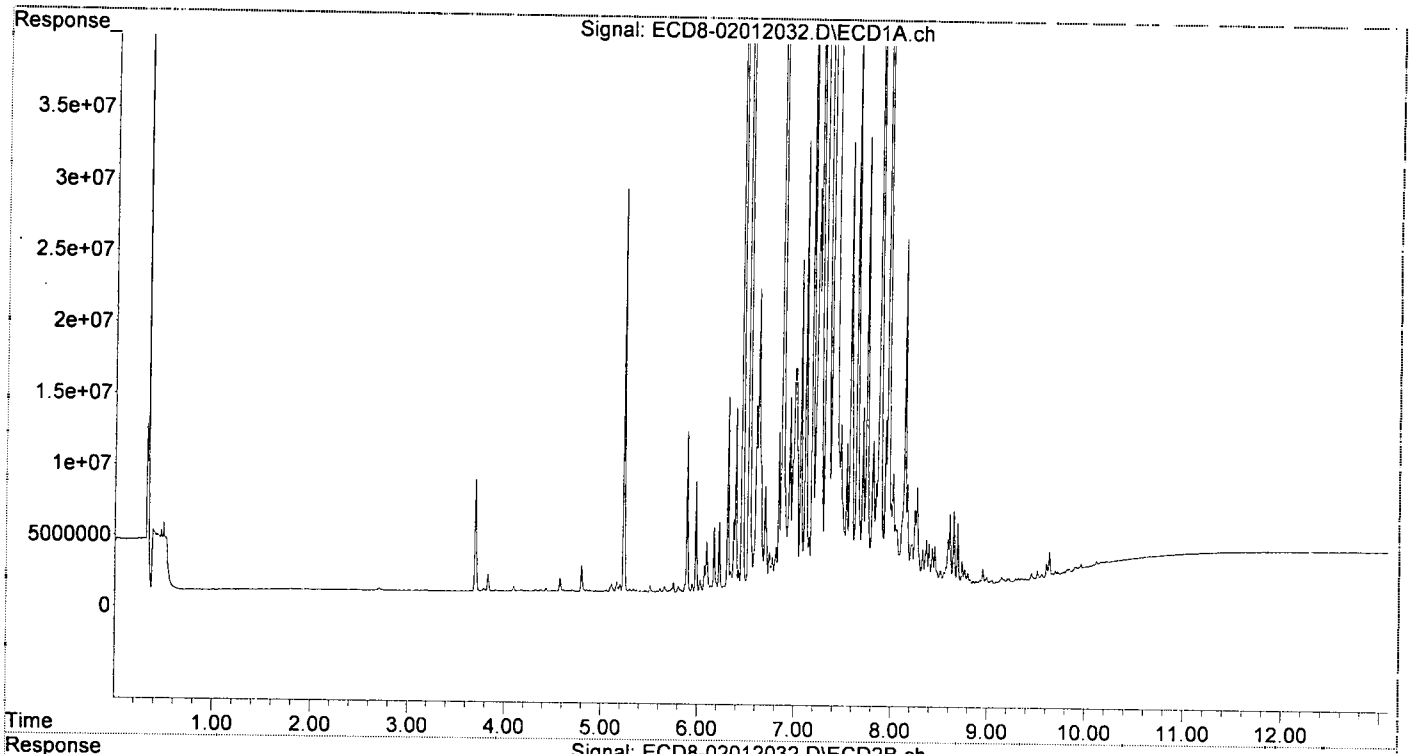
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22)	S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)		a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)		g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)		b-BHC	0.000	0.000	0	0	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

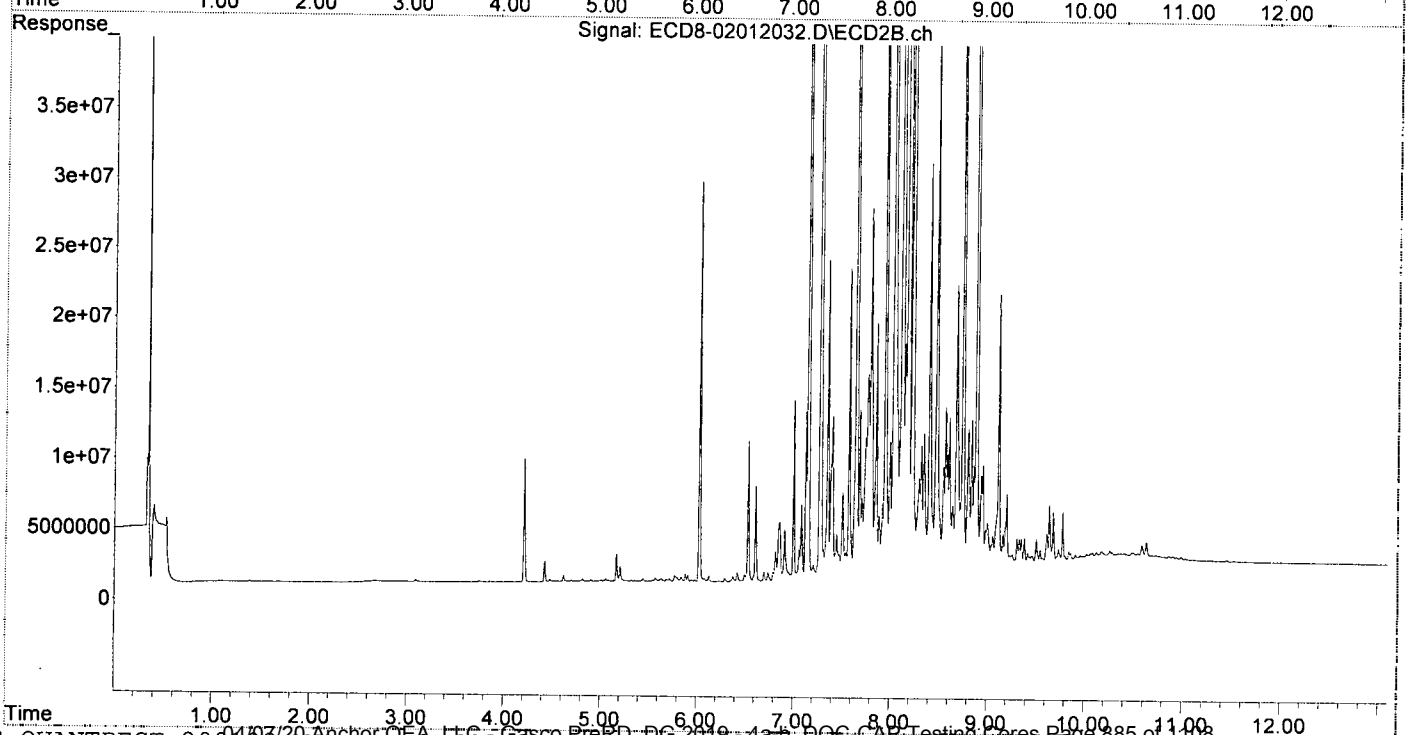
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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

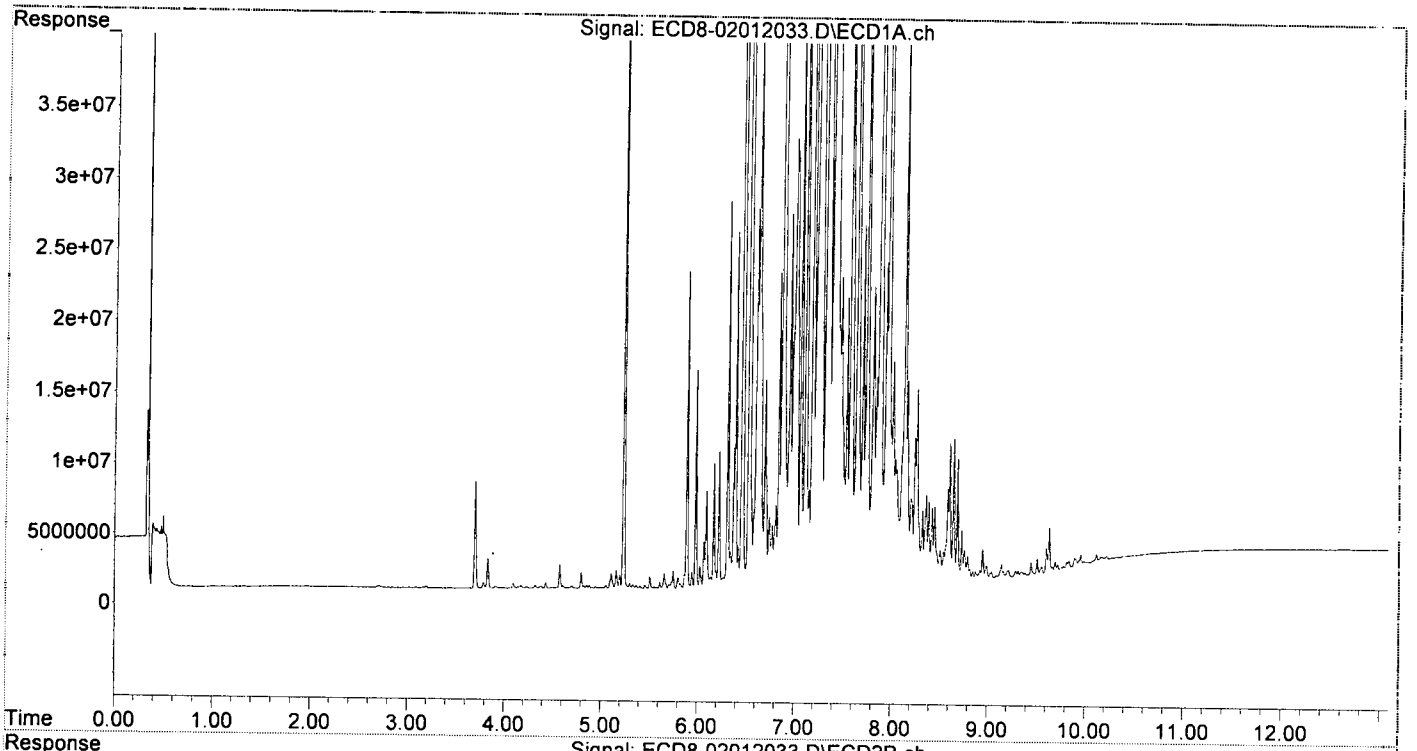
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. 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

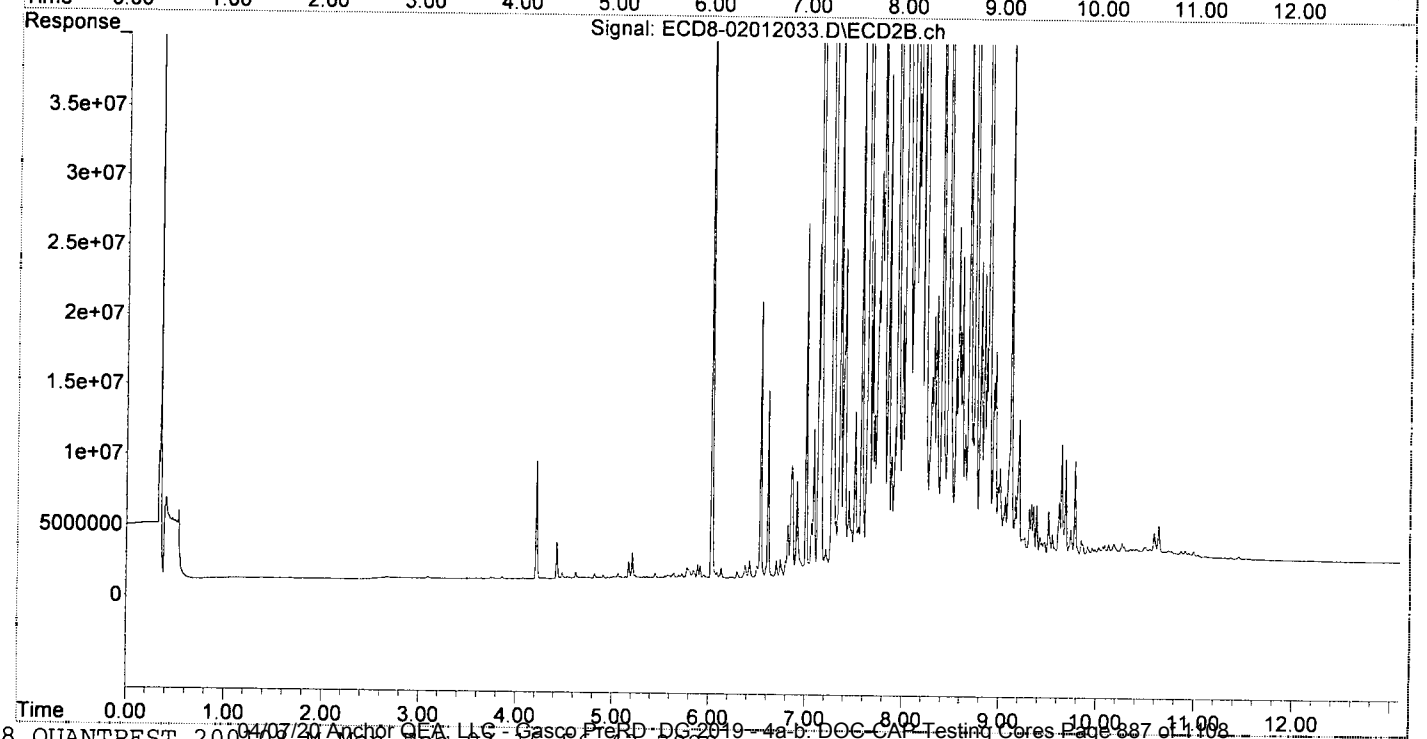
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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

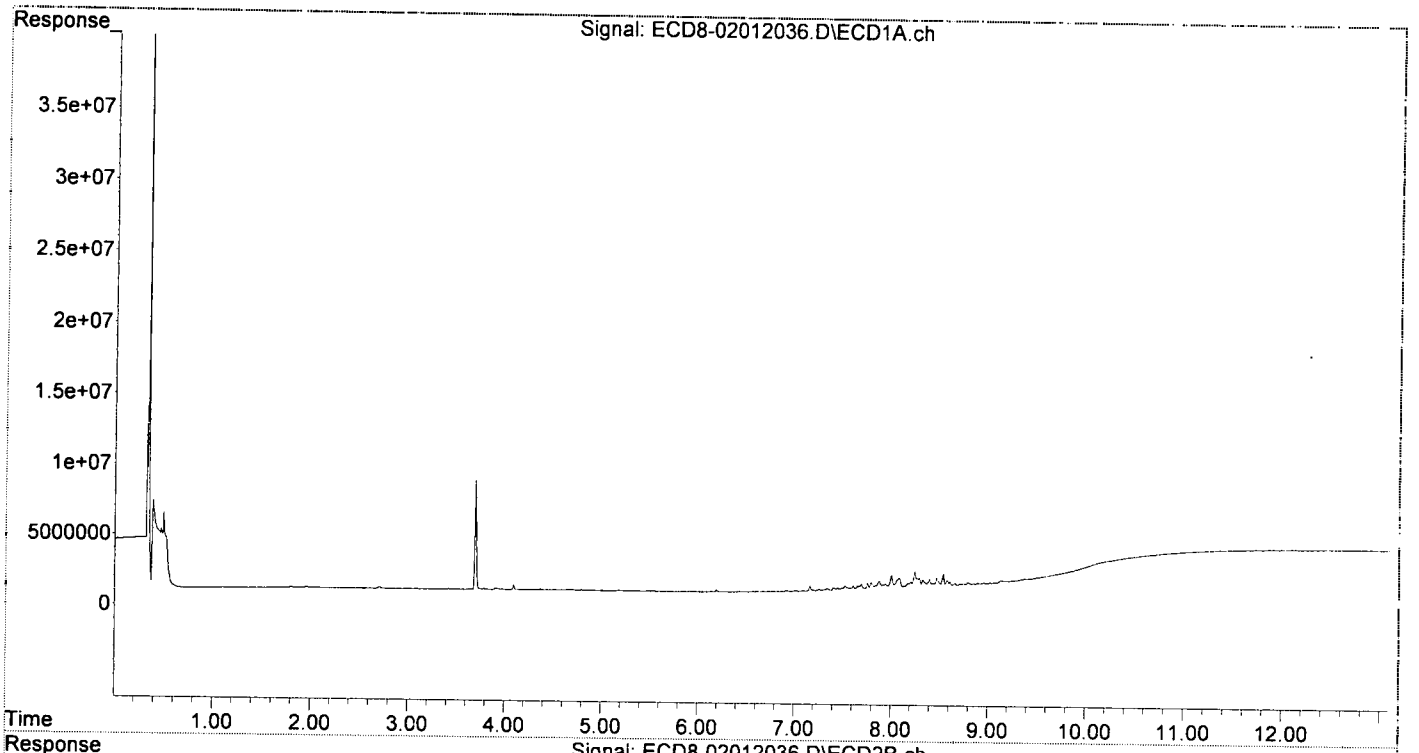
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. 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

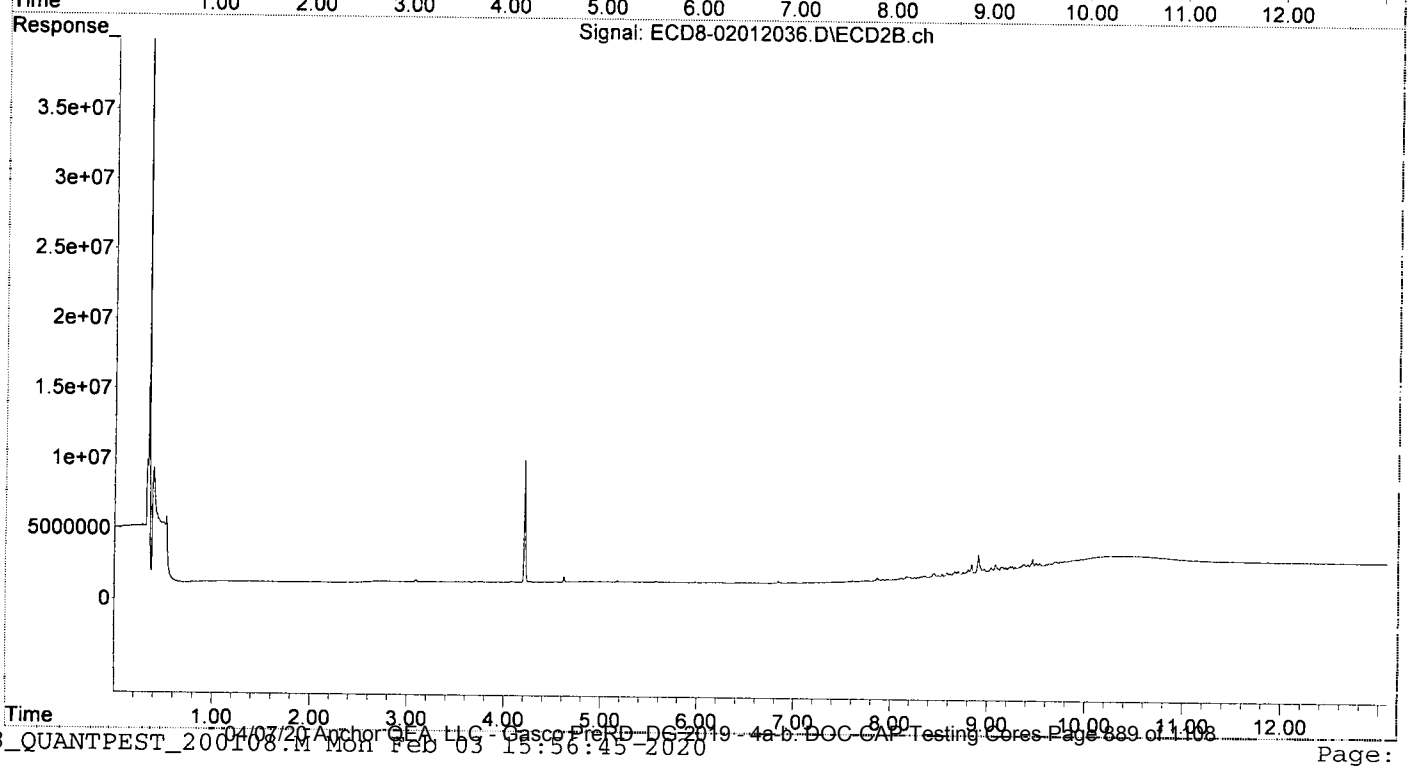
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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

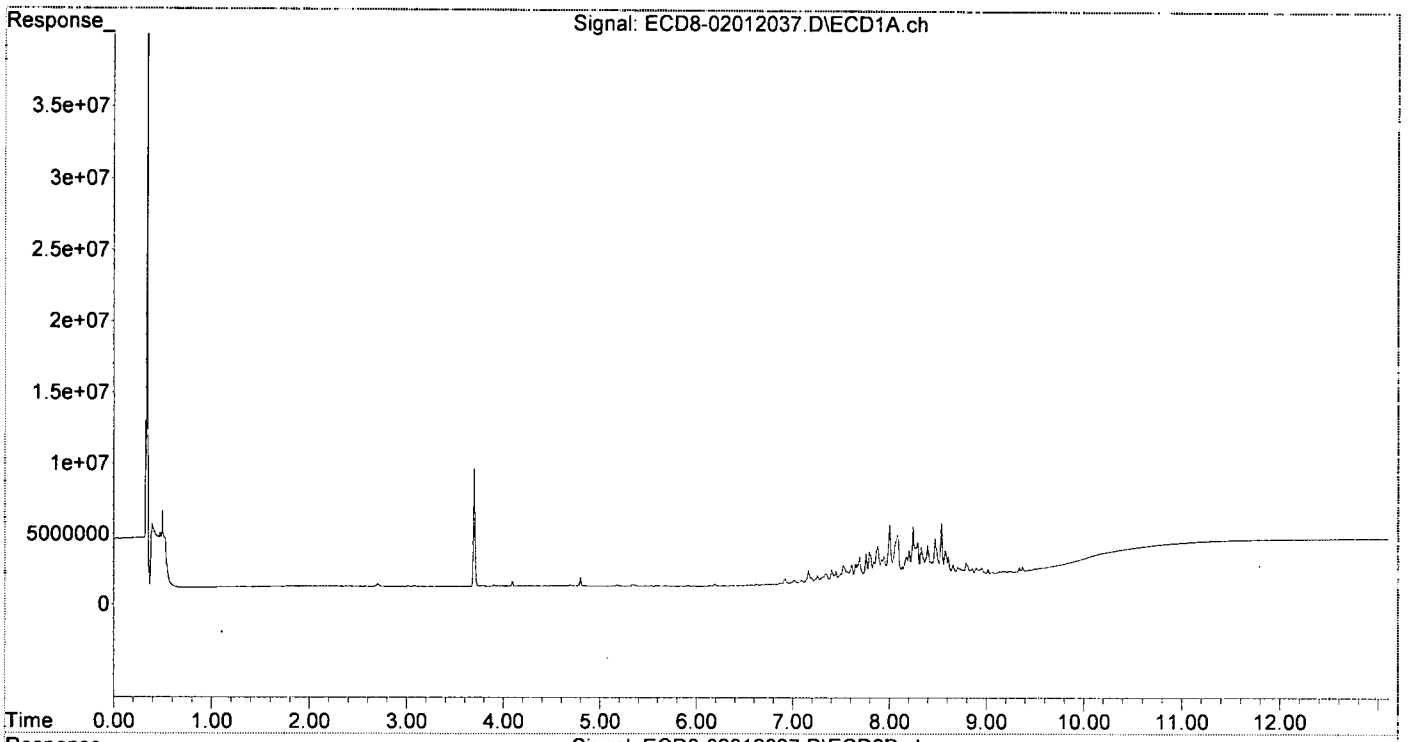
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22)	S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)		a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)		g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)		b-BHC	0.000	0.000	0	0	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

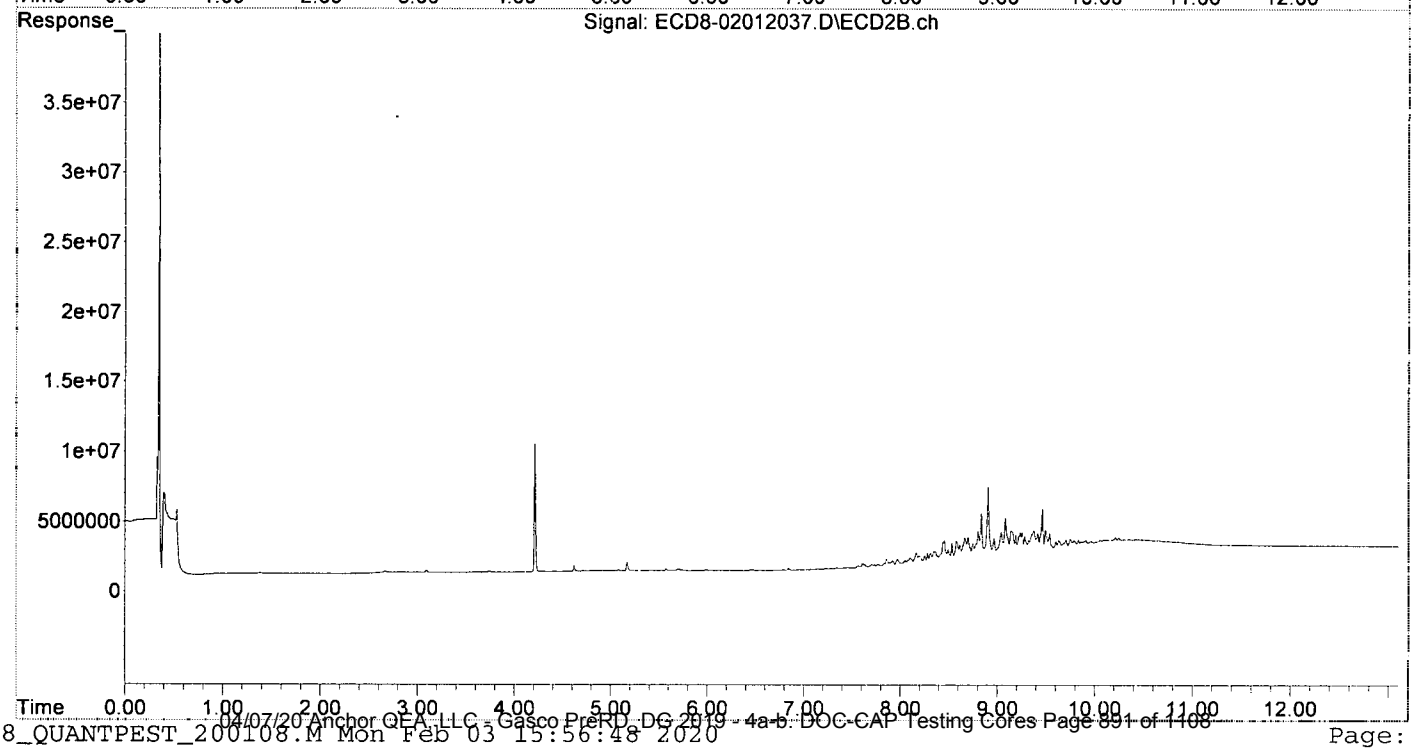
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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

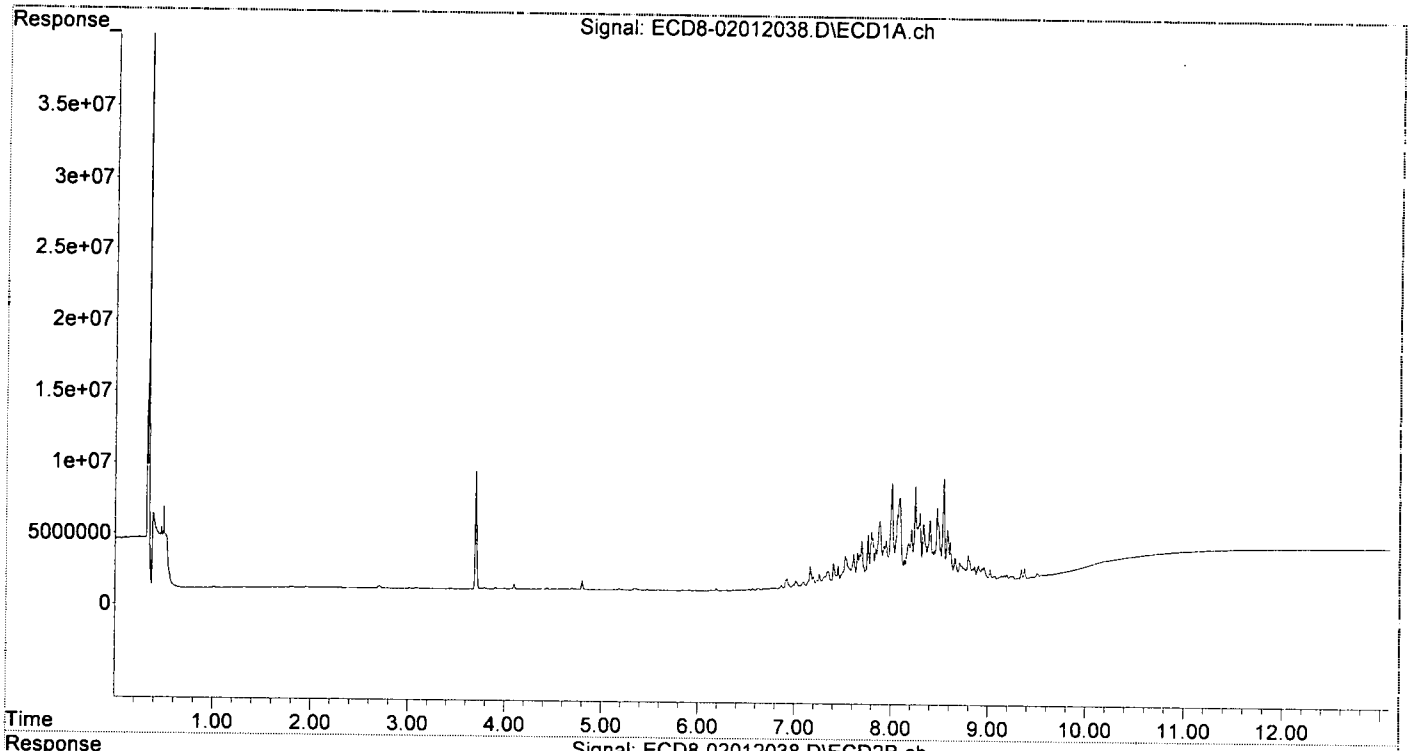
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22)	S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)		a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)		g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)		b-BHC	0.000	0.000	0	0	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

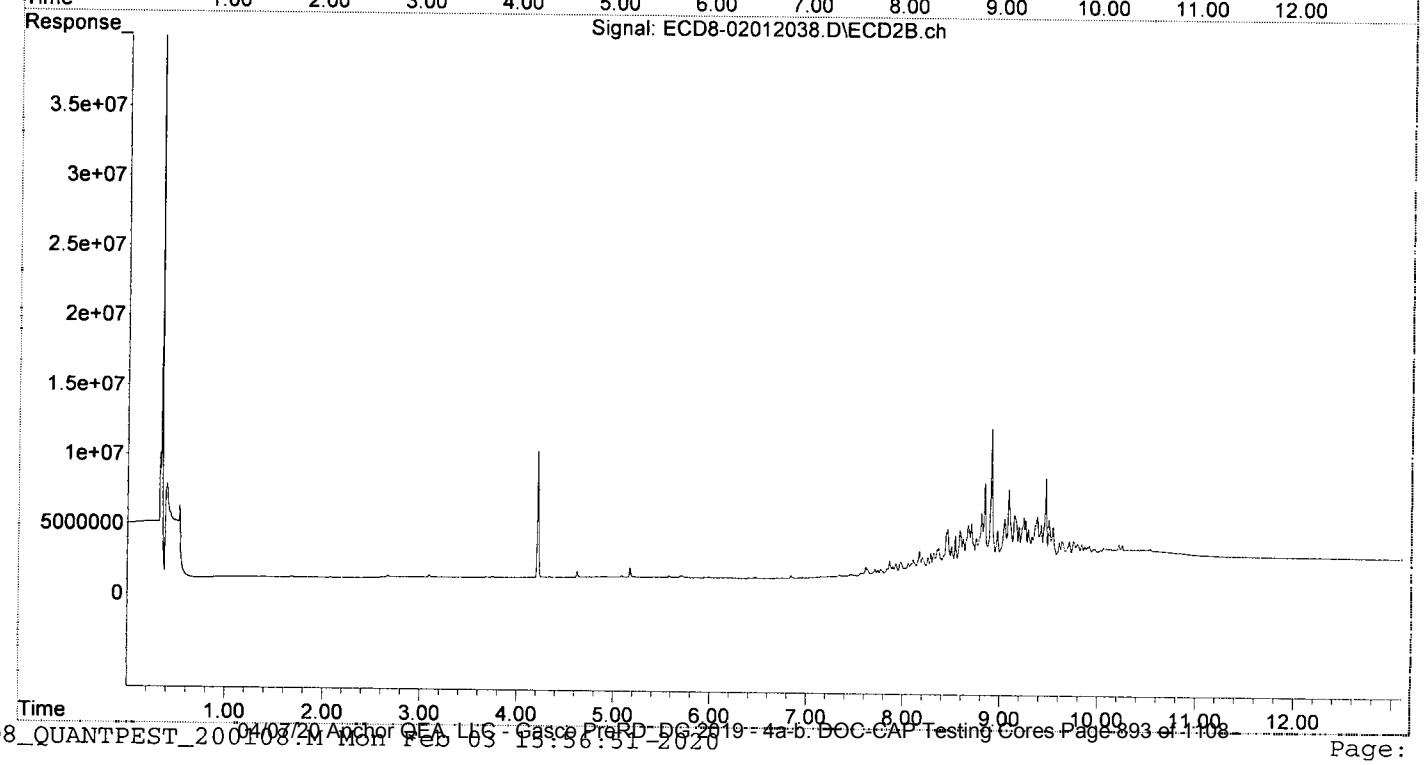
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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

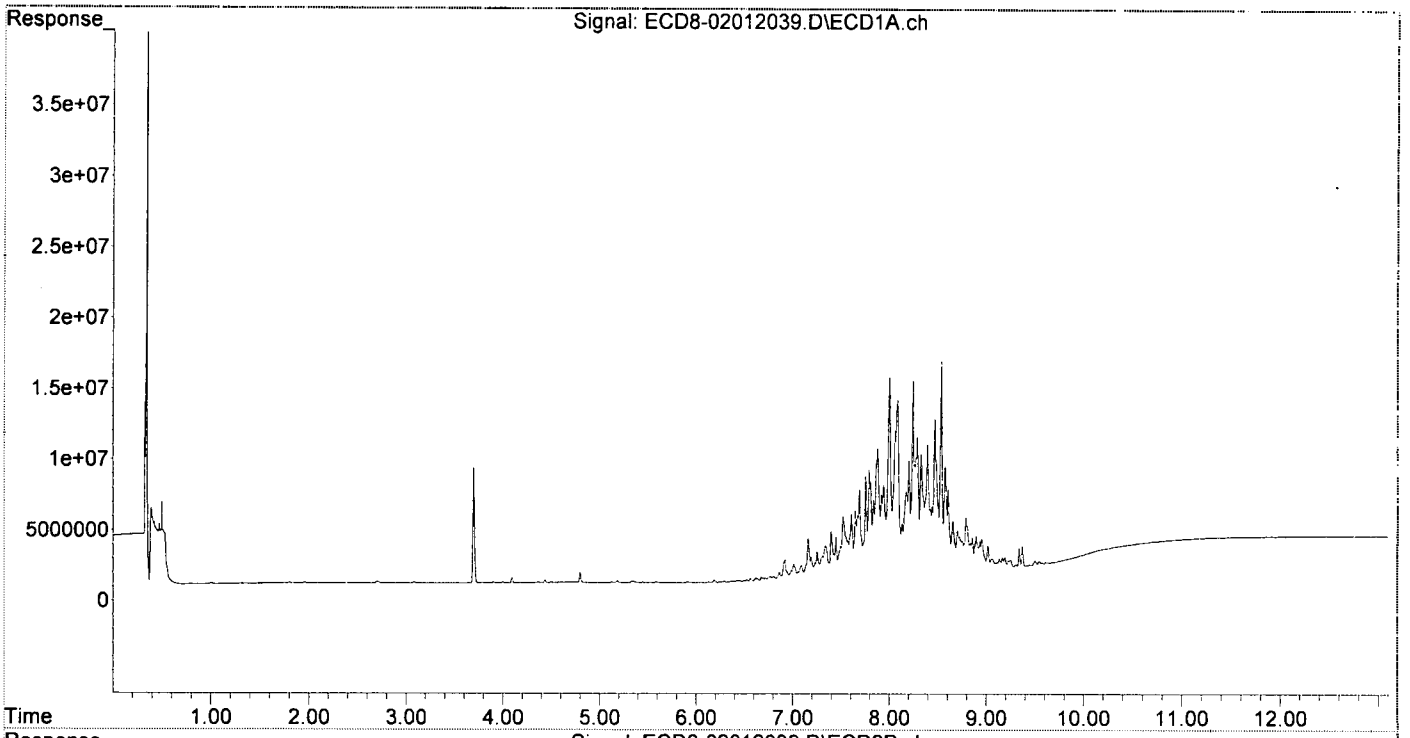
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. 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

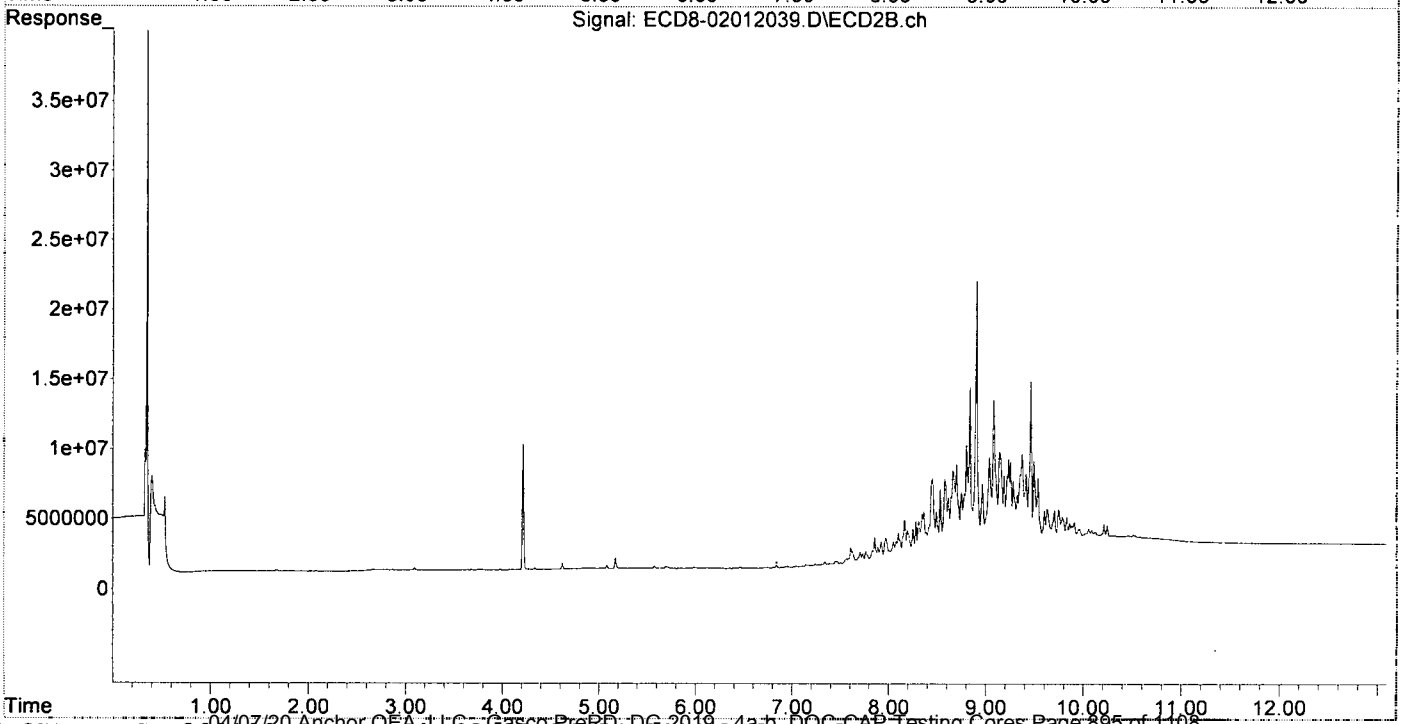
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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

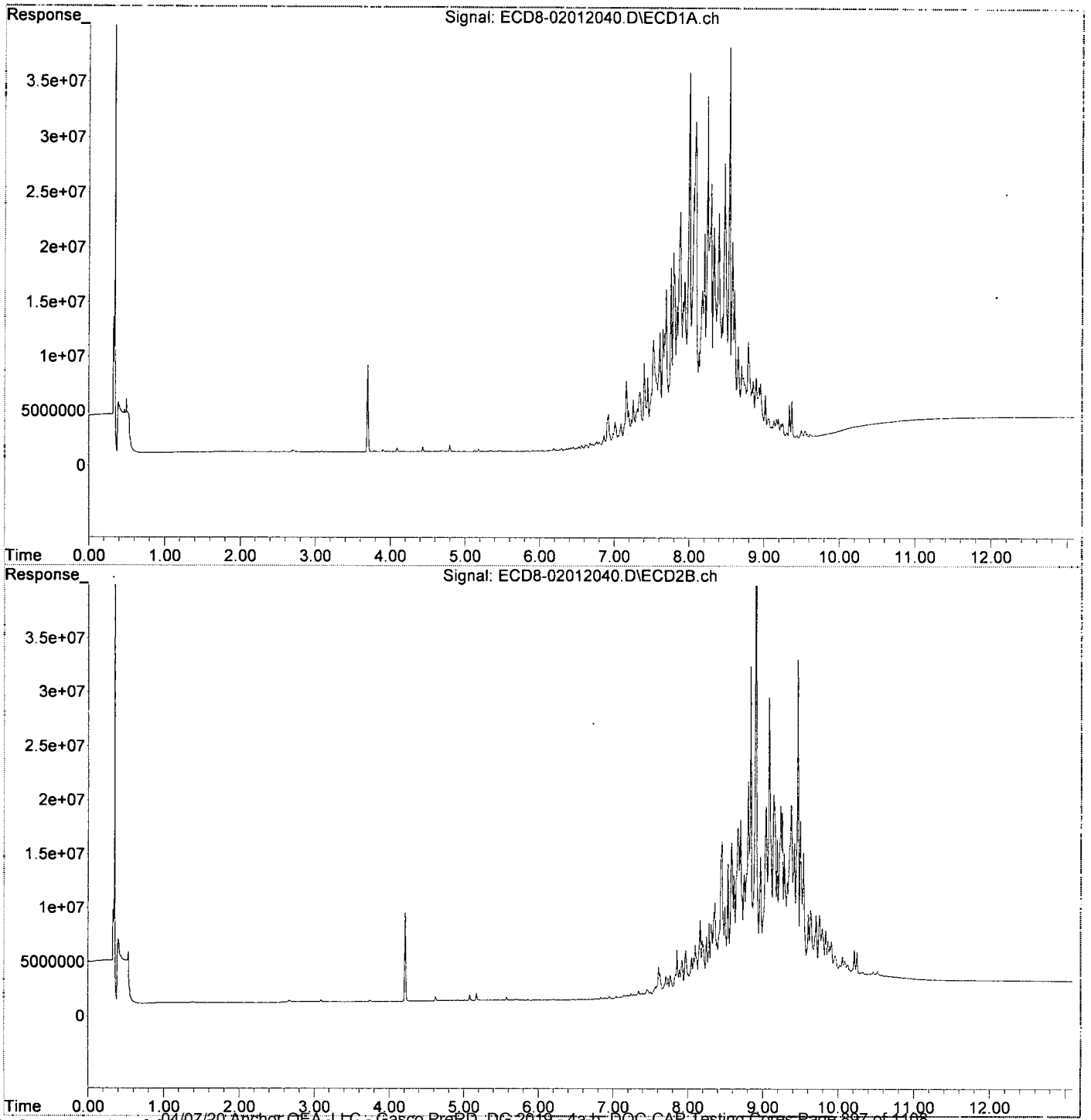
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. 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 2/13/20

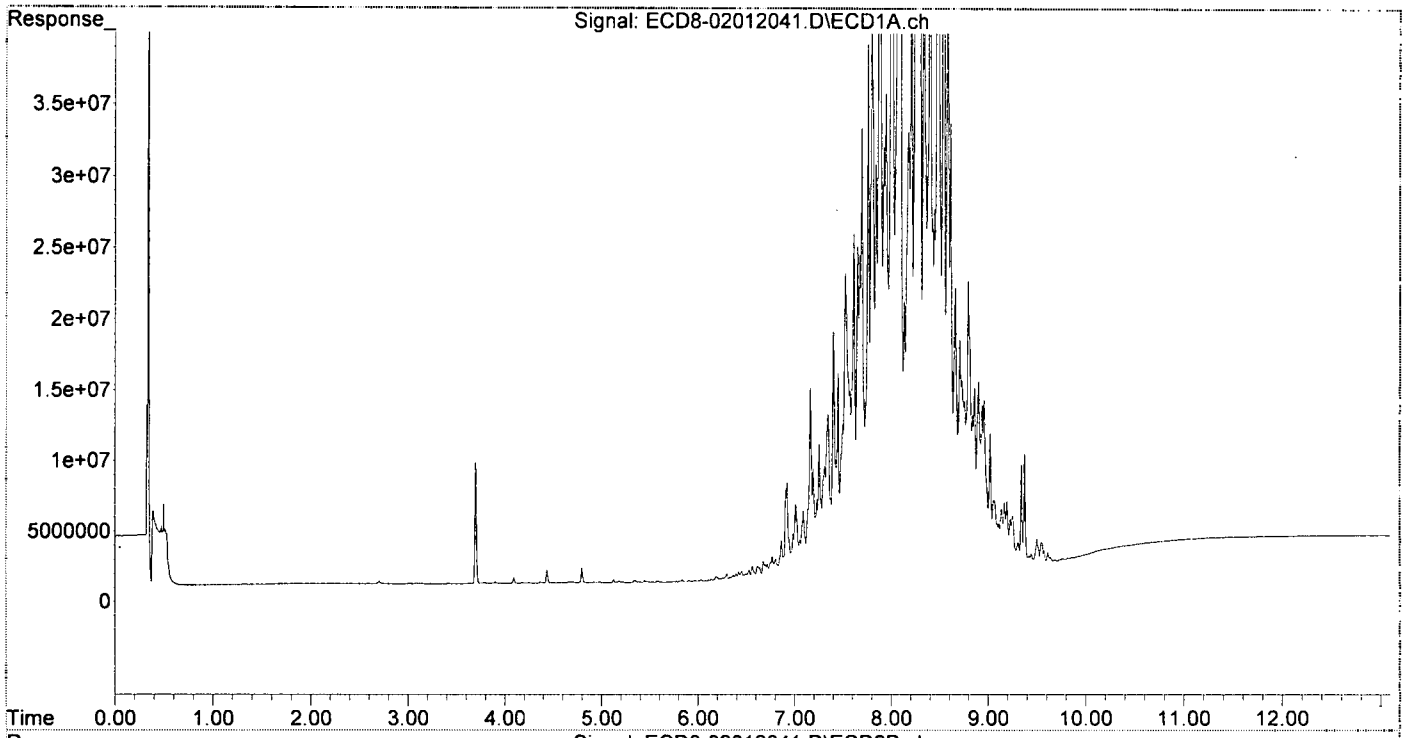
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22)	S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)		a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)		g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)		b-BHC	0.000	0.000	0	0	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

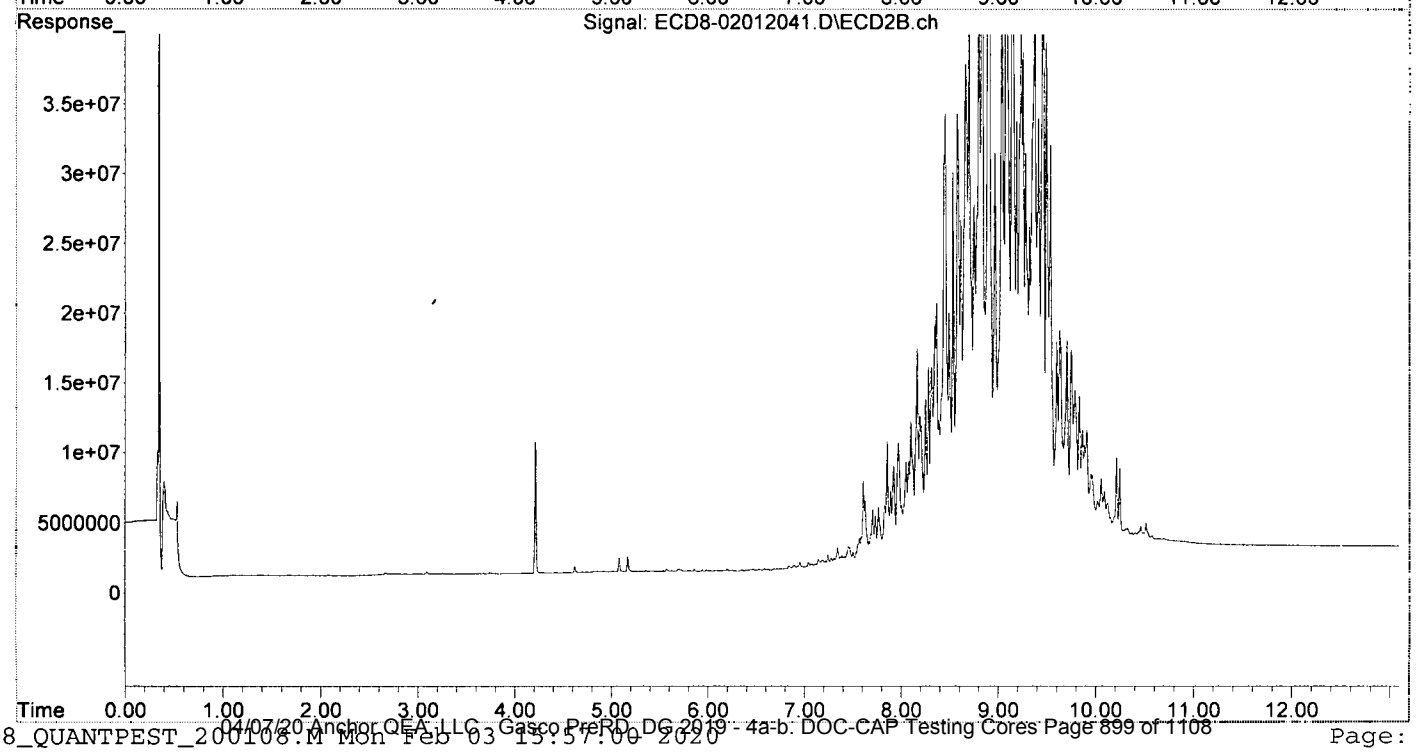
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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

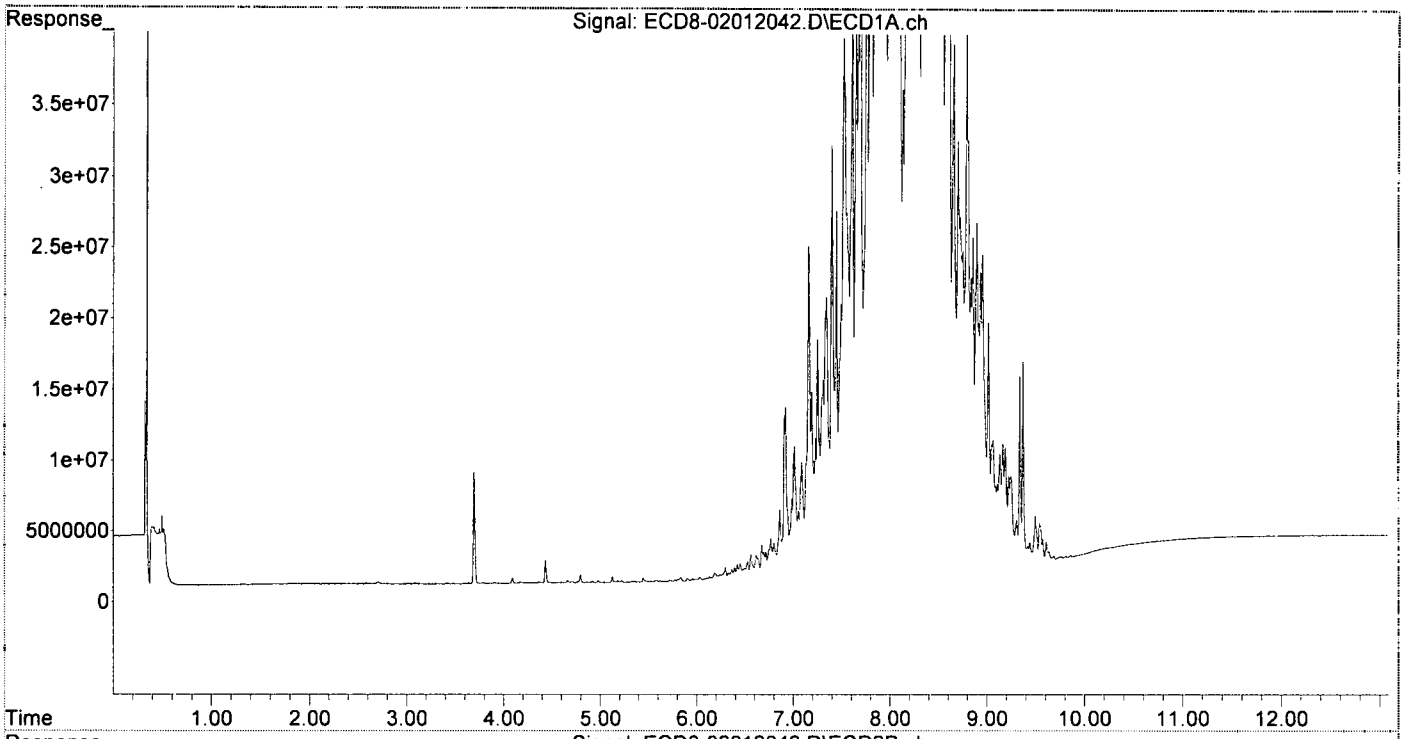
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. 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

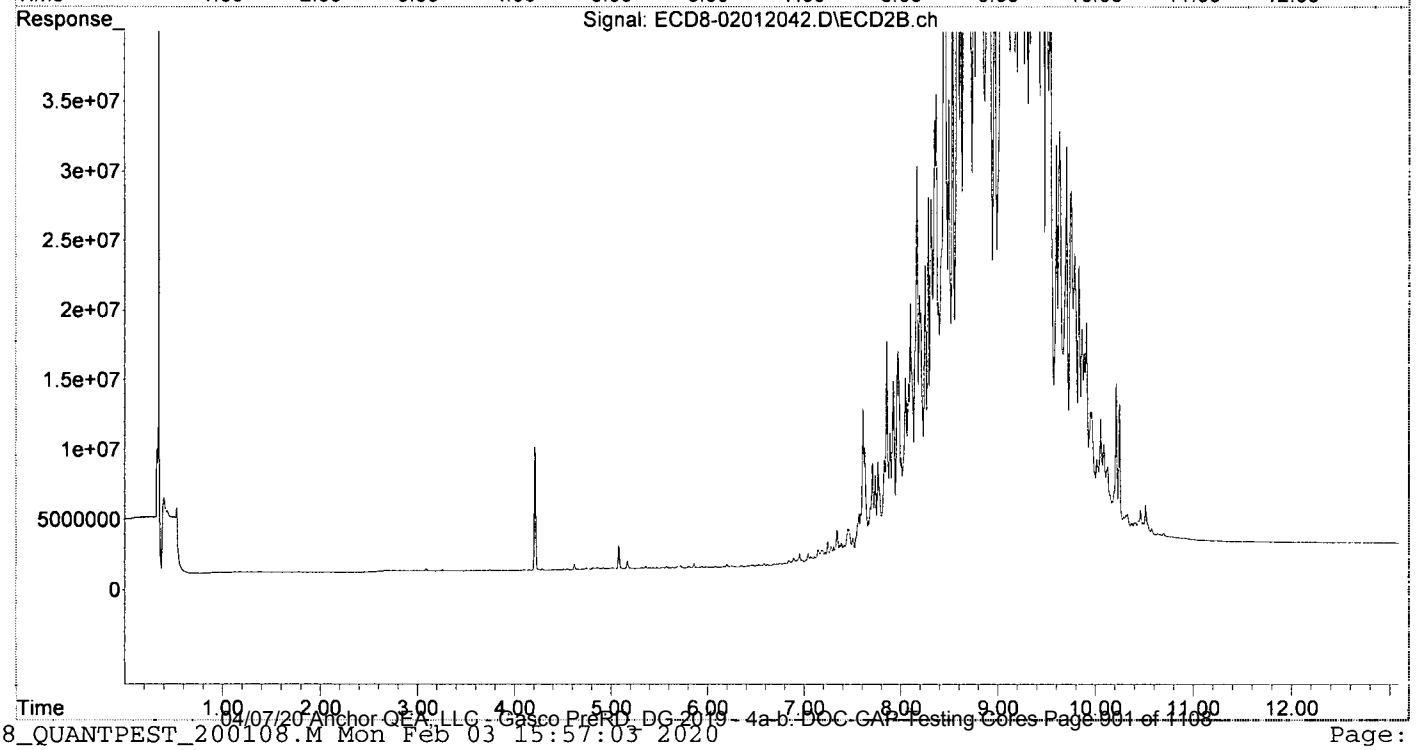
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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 0020782
Sequence 0B26029 (A0B0680-05)

APEX LABORATORIES

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0020782 (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
	0020782-BLK1		QC	02/26/20 07:50	11	5				100					
	0020782-BS1		QC	02/26/20 07:50	10	5	A20B016		100	100					
	A0B0679-01	A	8270D LL PAH Only (Scan)	02/26/20 07:50	10.68	5				100	PDI-014SC-A-04 -05-191003				
	0020782-DUP1		QC	02/26/20 07:50	10.58	5		A0B0679-01		100					
	A0B0679-02	A	8270D LL PAH Only (Scan)	02/26/20 07:50	10.59	5				100	PDI-014SC-A-05 -06-191003				
	A0B0679-03	A	8270D LL PAH Only (Scan)	02/26/20 07:50	10.59	5				100	PDI-014SC-A-06 -07-191003				
	A0B0679-04	A	8270D LL PAH Only (Scan)	02/26/20 07:50	10.31	5				100	PDI-084SC-A-03 -04-191002				
	A0B0679-04RE1	A	8270D LL PAH Only (Scan)	02/26/20 07:50	10.31	5				100	PDI-084SC-A-03 -04-191002	Added 2/27/2020 By ams			
	A0B0679-05	A	8270D LL PAH Only (Scan)	02/26/20 07:50	10.42	5				100	PDI-084SC-A-04 -05-191002				
	A0B0679-06	A	8270D LL PAH Only (Scan)	02/26/20 07:50	10.89	5				100	PDI-084SC-A-05 -06-191002				
	A0B0679-06RE1	A	8270D LL PAH Only (Scan)	02/26/20 07:50	10.89	5				100	PDI-084SC-A-05 -06-191002	Added 2/27/2020 By ams			
	A0B0679-07	A	8270D LL PAH Only (Scan)	02/26/20 07:50	10.66	5				100	PDI-084SC-A-06 -07-191002				
	A0B0679-08	A	8270D LL PAH Only (Scan)	02/26/20 07:50	10.63	5				100	PDI-084SC-A-07 -08-191002				
	A0B0679-08RE1	A	8270D LL PAH Only (Scan)	02/26/20 07:50	10.63	5				100	PDI-084SC-A-07 -08-191002	Added 2/27/2020 By ams			
	A0B0679-09	A	8270D LL PAH Only (Scan)	02/26/20 07:50	10.45	5				100	PDI-084SC-A-08 -09-191002				
	A0B0679-10	A	8270D LL PAH Only (Scan)	02/26/20 07:50	10.35	5				100	PDI-084SC-A-09 -10-191002				
	A0B0679-10RE1	A	8270D LL PAH Only (Scan)	02/26/20 07:50	10.35	5				100	PDI-084SC-A-09 -10-191002	Added 2/28/2020 by hml			
	A0B0679-11	A	8270D LL PAH Only (Scan)	02/26/20 07:50	10.36	5				100	PDI-084SC-A-10 -11-191002				
	A0B0679-12	A	8270D LL PAH Only (Scan)	02/26/20 07:50	10.42	5				100	PDI-084SC-A-11 -12-191002				

Prepared By: Date

Reviewed By: Date 2/28/20

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0020782 (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
	A0B0679-13	A	8270D LL PAH Only (Scan)	02/26/20 07:50	10.71	5				100	PDI-084SC-A-12-13-191002				
	A0B0679-14	A	8270D LL PAH Only (Scan)	02/26/20 07:50	10.33	5				100	PDI-084SC-A-13-14-191002				
	A0B0679-15	A	8270D LL PAH Only (Scan)	02/26/20 07:50	10.17	5				100	PDI-084SC-A-14-15-191002				
	A0B0679-15RE1	A	8270D LL PAH Only (Scan)	02/26/20 07:50	10.17	5				100	PDI-084SC-A-14-15-191002	Added 2/28/2020 by hml			
	A0B0679-15RE2	A	8270D LL PAH Only (Scan)	02/26/20 07:50	10.17	5				100	PDI-084SC-A-14-15-191002	Added 2/28/2020 By hml			
	A0B0680-01	A	8270D LL PAH Only (Scan)	02/26/20 07:50	10.03	5				100	PDI-049SC-A-03-04-191015				
	A0B0680-01RE1	A	8270D LL PAH Only (Scan)	02/26/20 07:50	10.03	5				100	PDI-049SC-A-03-04-191015	Added 2/28/2020 by hml			
	A0B0680-02	A	8270D LL PAH Only (Scan)	02/26/20 07:50	10.69	5				100	PDI-049SC-A-04-05-191015				
	A0B0680-03	A	8270D LL PAH Only (Scan)	02/26/20 07:50	10.92	5				100	PDI-049SC-A-05-06-191015				
	A0B0680-04	A	8270D LL PAH Only (Scan)	02/26/20 07:50	10.24	5				100	PDI-049SC-A-06-07-191015				
	A0B0680-04RE1	A	8270D LL PAH Only (Scan)	02/26/20 07:50	10.24	5				100	PDI-049SC-A-06-07-191015	Added 2/28/2020 by hml			
	A0B0680-05	A	8270D LL PAH Only (Scan)	02/26/20 07:50	10.12	5				100	PDI-049SC-A-07-08-191015				
	0020782-MS1		QC	02/26/20 07:50	10.09	5	A20B016	A0B0680-05	100	100					
	0020782-MSD1		QC	02/26/20 07:50	10.11	5	A20B016	A0B0680-05	100	100					

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)

Prepared By: Date

Reviewed By: 2/28/20 Date

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0020782 (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

Method 3546 digestion time and temperture achieved.
Initial:

Witness: _____

Prepared By: _____ Date _____

Reviewed By: _____ Date _____

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0020782 (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	0020782-BLK1		QC	02/26/20 07:50	~~10~~ 1	5				100					
2	0020782-BS1		QC	02/26/20 07:50	10	5	A20B016		100	100					
3	A0B0679-01	A	8270D LL PAH Only (Scan)	02/26/20 07:50	~~10~~ 10.68	5				100	PDI-014SC-A-04-05-191003	sand			
4	0020782-DUP1		QC	02/26/20 07:50	~~10~~ 10.58	5		A0B0679-01		100					
5	A0B0679-02	A	8270D LL PAH Only (Scan)	02/26/20 07:50	~~10~~ 10.59	5				100	PDI-014SC-A-05-06-191003	clay			
6	A0B0679-03	A	8270D LL PAH Only (Scan)	02/26/20 07:50	~~10~~ 10.59	5				100	PDI-014SC-A-06-07-191003	sand			
7	A0B0679-04	A	8270D LL PAH Only (Scan)	02/26/20 07:50	~~10~~ 10.31	5				100	PDI-084SC-A-03-04-191002	clay			
8	A0B0679-05	A	8270D LL PAH Only (Scan)	02/26/20 07:50	~~10~~ 10.42	5				100	PDI-084SC-A-04-05-191002	clay			
9	A0B0679-06	A	8270D LL PAH Only (Scan)	02/26/20 07:50	~~10~~ 10.39	5				100	PDI-084SC-A-05-06-191002	mud			
10	A0B0679-07	A	8270D LL PAH Only (Scan)	02/26/20 07:50	~~10~~ 10.66	5				100	PDI-084SC-A-06-07-191002	mud, clay			
11	A0B0679-08	A	8270D LL PAH Only (Scan)	02/26/20 07:50	~~10~~ 10.63	5				100	PDI-084SC-A-07-08-191002	mud			
12	A0B0679-09	A	8270D LL PAH Only (Scan)	02/26/20 07:50	~~10~~ 10.45	5				100	PDI-084SC-A-08-09-191002	mud			
13	A0B0679-10	A	8270D LL PAH Only (Scan)	02/26/20 07:50	~~10~~ 10.35	5				100	PDI-084SC-A-09-10-191002	mud			
14	A0B0679-11	A	8270D LL PAH Only (Scan)	02/26/20 07:50	~~10~~ 10.36	5				100	PDI-084SC-A-10-11-191002	mud (S)			
15	A0B0679-12	A	8270D LL PAH Only (Scan)	02/26/20 07:50	~~10~~ 10.42	5				100	PDI-084SC-A-11-12-191002	mud (S)			
16	A0B0679-13	A	8270D LL PAH Only (Scan)	02/26/20 07:50	~~10~~ 10.71	5				100	PDI-084SC-A-12-13-191002	soil			
17	A0B0679-14	A	8270D LL PAH Only (Scan)	02/26/20 07:50	~~10~~ 10.33	5				100	PDI-084SC-A-13-14-191002	soil, org ★			
18	A0B0679-15	A	8270D LL PAH Only (Scan)	02/26/20 07:50	~~10~~ 10.17	5				100	PDI-084SC-A-14-15-191002	mud,			
19	A0B0680-01	A	8270D LL PAH Only (Scan)	02/26/20 07:50	~~10~~ 10.03	5				100	PDI-049SC-A-03-04-191015	mud (S)			

CAM 02/26/20 — Prepared By: / Date

CAS 02/27/2020 — Reviewed By: / Date

AAS 2-26-20

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0020782 (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
20	A0B0680-02	A	8270D LL PAH Only (Scan)	02/26/20 07:50	~~10~~ 10.69	5				100	PDI-049SC-A-04-05-191015	mud, (S)			
21	A0B0680-03	A	8270D LL PAH Only (Scan)	02/26/20 07:50	~~10~~ 10.92	5				100	PDI-049SC-A-05-06-191015	mud, (S)			
22	A0B0680-04	A	8270D LL PAH Only (Scan)	02/26/20 07:50	~~10~~ 10.24	5				100	PDI-049SC-A-06-07-191015	mud			
23	A0B0680-05	A	8270D LL PAH Only (Scan)	02/26/20 07:50	~~10~~ 10.12	5				100	PDI-049SC-A-07-08-191015	sed, sand			
24	0020782-MS1		QC	02/26/20 07:50	~~10~~ 10.09	5	A20B016	A0B0680-05	100	100		sed, sand			
25	0020782-MSD1		QC	02/26/20 07:50	~~10~~ 10.11	5	A20B016	A0B0680-05	100	100		sed, sand			

Standards/Reagents

Reagent(s)

Std ID	Exp. Date	Description
A13L219	11/30/23	Extractions Balance
A18K311	12/31/20	Glass Wool
A191263	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

CAH

Surrogate(s)

Std ID	Exp. Date	Description
A19L265	06/07/20	8270D LL PAH Only Surr. (5ppm)

CAH

Method 3546 digestion time and temperture achieved.

Initial: CAH

Witness: AJD 2-26-20

(S) = Staining on turbovap tube. AJD 2/26/20

* = sample spiked, re-done on same batch.

Prepared By: AJD Date: 2-26-20

Reviewed By: Date

ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence: **0B26029** Instrument: **SV-GCMS14**

Date: **02/26/20 08:06** Calibration: **A9I1001**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0B26029-TUN1	Sediment	QC	QC			A19K048	A20B266
2	0B26029-CCV1	Sediment	QC	QC			A19K048	A19K012
3	0B26029-CCB1	Sediment	QC	QC			A19K048	
4	0020782-BLK1	Sediment	QC	QC		0020782	A19K048	
5	0020782-BS1	Sediment	QC	QC		0020782	A19K048	
6	A0B0679-01	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	02/28/20	0020782	A19K048	
7	0020782-DUP1	Sediment	QC	QC		0020782	A19K048	
8	A0B0680-05	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	02/28/20	0020782	A19K048	
9	0020782-MS1	Sediment	QC	QC		0020782	A19K048	
10	0020782-MSD1	Sediment	QC	QC		0020782	A19K048	
11	A0B0679-04	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	02/28/20	0020782	A19K048	
12	0020795-BLK1	Sediment	QC	QC		0020795	A19K048	
13	0020795-BS1	Sediment	QC	QC		0020795	A19K048	
14	A0B0681-01	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	02/28/20	0020795	A19K048	
15	0020795-DUP1	Sediment	QC	QC		0020795	A19K048	
16	A0B0679-05	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	02/28/20	0020782	A19K048	
17	A0B0679-06	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	02/28/20	0020782	A19K048	
18	A0B0679-07	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	02/28/20	0020782	A19K048	
19	A0B0679-08	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	02/28/20	0020782	A19K048	
20	A0B0681-03	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	02/28/20	0020795	A19K048	
21	A0B0681-04	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	02/28/20	0020795	A19K048	
22	A0B0681-05	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	02/28/20	0020795	A19K048	
23	0020795-MS1	Sediment	QC	QC		0020795	A19K048	
24	0020795-MSD1	Sediment	QC	QC		0020795	A19K048	
25	0B26029-IBL1	Sediment	QC	QC			A19K048	

Data Entered By: AMS 2/27/20 Comments:

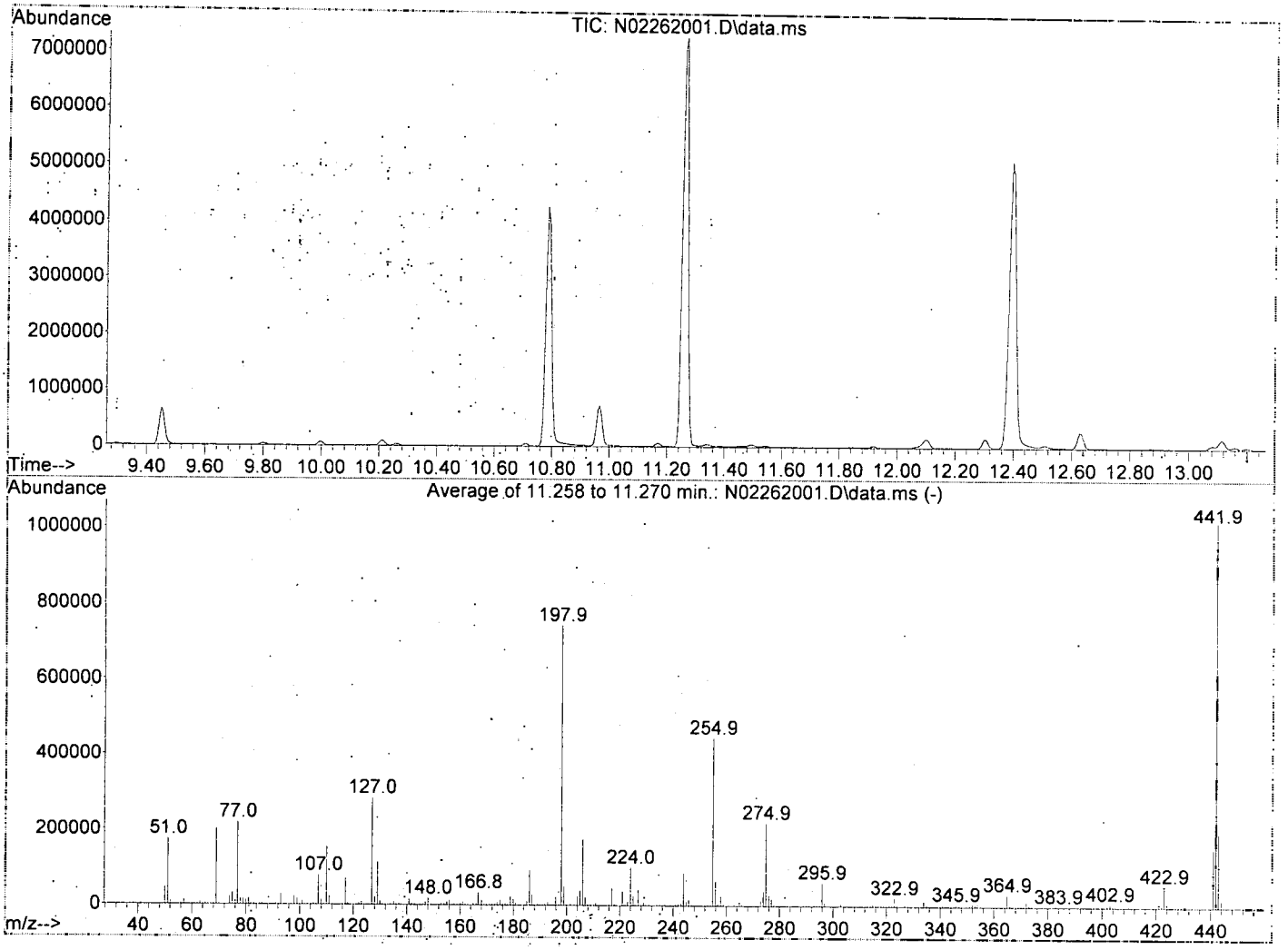
Data Reviewed By: [illegible] 2/27/20

Data Path : U:\data\2020-02\0B26029\
Data File : N02262001.D
Acq On : 26 Feb 2020 09:47 am
Operator : JK/ AMS/ DTH
Sample : 0B26029-TUN1
Misc : 1x, A20B266 DFTPP
ALS Vial : 1 Sample Multiplier: 1

AMS 2/26/20

Integration File: rteint.p

Method : U:\methods\DFTPP.M
Title : 8270 DFTPP Tune Method
Last Update : Tue Feb 04 07:34:06 2020



AutoFind: Scans 1195, 1196, 1197; Background Corrected with Scan 1189

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	1.6	3154	PASS
69	69	100	100	100.0	200937	PASS
70	69	0.00	2	0.5	1004	PASS
197	198	0.00	2	0.5	3763	PASS
198	198	100	100	100.0	742339	PASS
199	198	5	9	6.7	49645	PASS
365	198	1	100	4.2	31312	PASS
441	443	0.01	150	78.2	153664	PASS
442	198	0.10	200	137.2	1018432	PASS
443	442	15	24	19.3	196437	PASS

No Name Entered Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-02\0B26029\
Data File : N02262001.D
Acq On : 26 Feb 2020 09:47 am
Operator : JK/ AMS/ DTH
Sample : 0B26029-TUN1
Misc : 1x, A20B266 DFTPP
ALS Vial : 1 Sample Multiplier: 1
DataAcq Meth:DFTPP.M

Quant Time: Feb 26 15:07:36 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

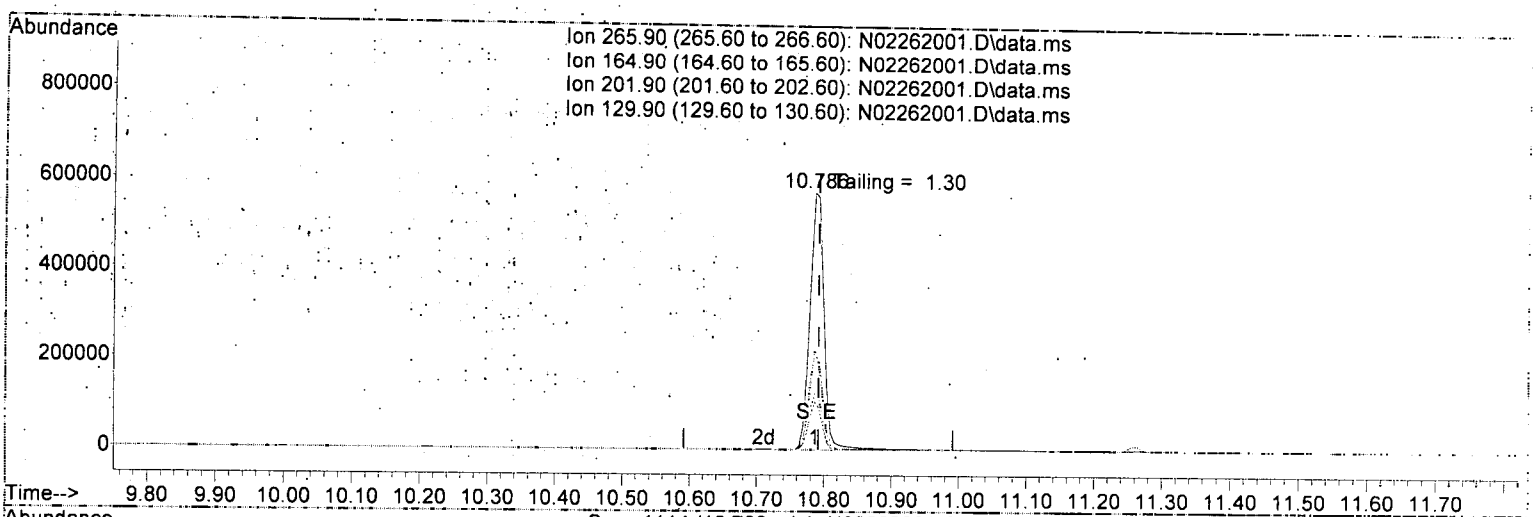
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.490	150	143865	2.00	ug/mL	0.00
2) Naphthalene-d8	7.691	136	389938	2.00	ug/mL	0.00
3) Acenaphthene-d10	9.451	162	202942	2.00	ug/mL	0.00
5) Phenanthrene-d10	10.967	188	389230	2.00	ug/mL	0.00
11) Chrysene-d12	14.569	240	316064	2.00	ug/mL	0.00
12) Perylene-d12	16.667	264	296936	2.00	ug/mL	-0.01
13) Dibenz(a,h)anthracene-...	17.850	292	259976	2.00	ug/mL	#-0.01
Target Compounds						Qvalue
4) Pentachlorophenol	10.786	266	816432	42.60	ug/mL	85
6) DFTPP	11.264	442	1530317	48.70	ug/mL	75
7) Benzidine	12.395	184	3714634	26.83	ug/mL	98
8) 4,4-DDE	12.628	TIC	416011	No Calib		
9) 4,4-DDD	13.111	TIC	255404	No Calib		
10) 4,4-DDT	13.636	TIC	12667767	31.74	ug/mL	95

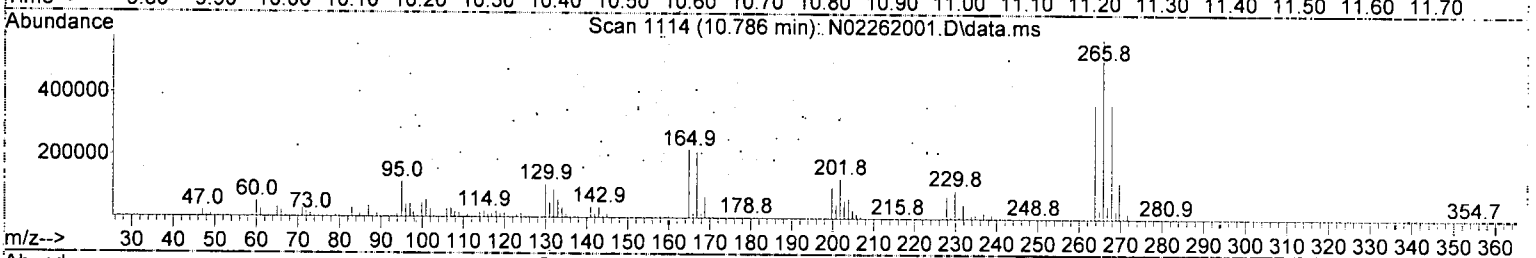
(#) = qualifier out of range (m) = manual integration (+) = signals summed

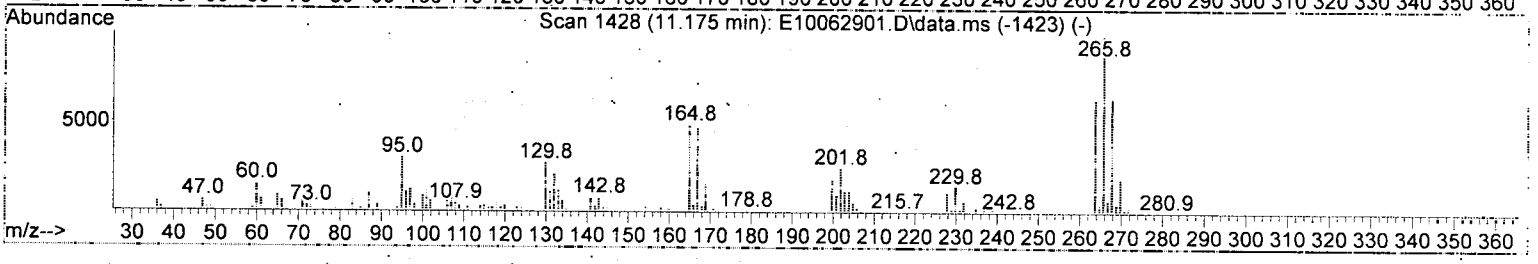
Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B26029\
Data File : N02262001.D
Acq On : 26 Feb 2020 09:47 am
Operator : JK/ AMS/ DTH
Sample : 0B26029-TUN1
Misc : 1x, A20B266 DFTPP
ALS Vial : 1 Sample Multiplier: 1
DataAcq Meth:DFTPP.M

Quant Time: Feb 26 15:07:36 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: N02262001.D\data.ms

(4) Pentachlorophenol

10.786min (-0.006) 42.60 ug/mL

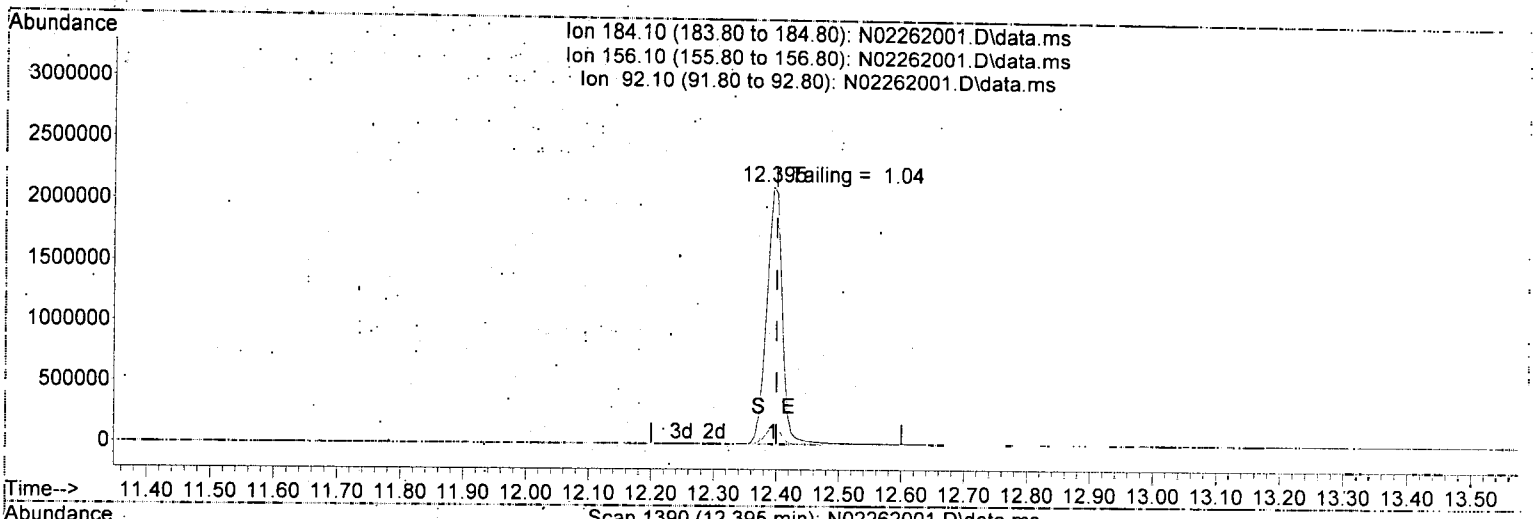
response 816432

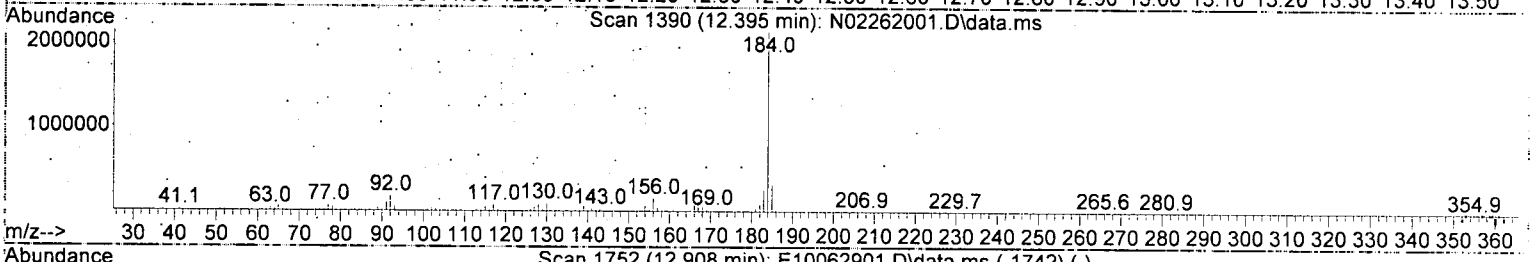
Ion	Exp%	Act%
265.90	100.00	100.00
164.90	50.60	37.73
201.90	25.80	22.03
129.90	27.30	18.48

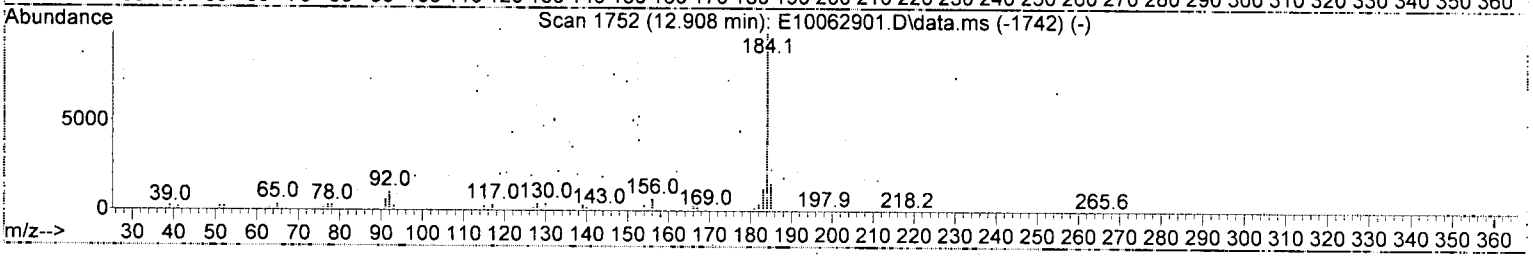
Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B26029\
Data File : N02262001.D
Acq On : 26 Feb 2020 09:47 am
Operator : JK/ AMS/ DTH
Sample : 0B26029-TUN1
Misc : 1x, A20B266 DFTPP
ALS Vial : 1 Sample Multiplier: 1
DataAcq Meth:DFTPP.M

Quant Time: Feb 26 15:07:36 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: N02262001.D\data.ms

(7) Benzidine

12.395min (-0.006) 26.83 ug/mL

response 3714634

Ion	Exp%	Act%
184.10	100.00	100.00
156.10	8.50	7.05
92.10	8.20	8.14
0.00	0.00	0.00

DDT Breakdown Check (Validated 5/1/2013)

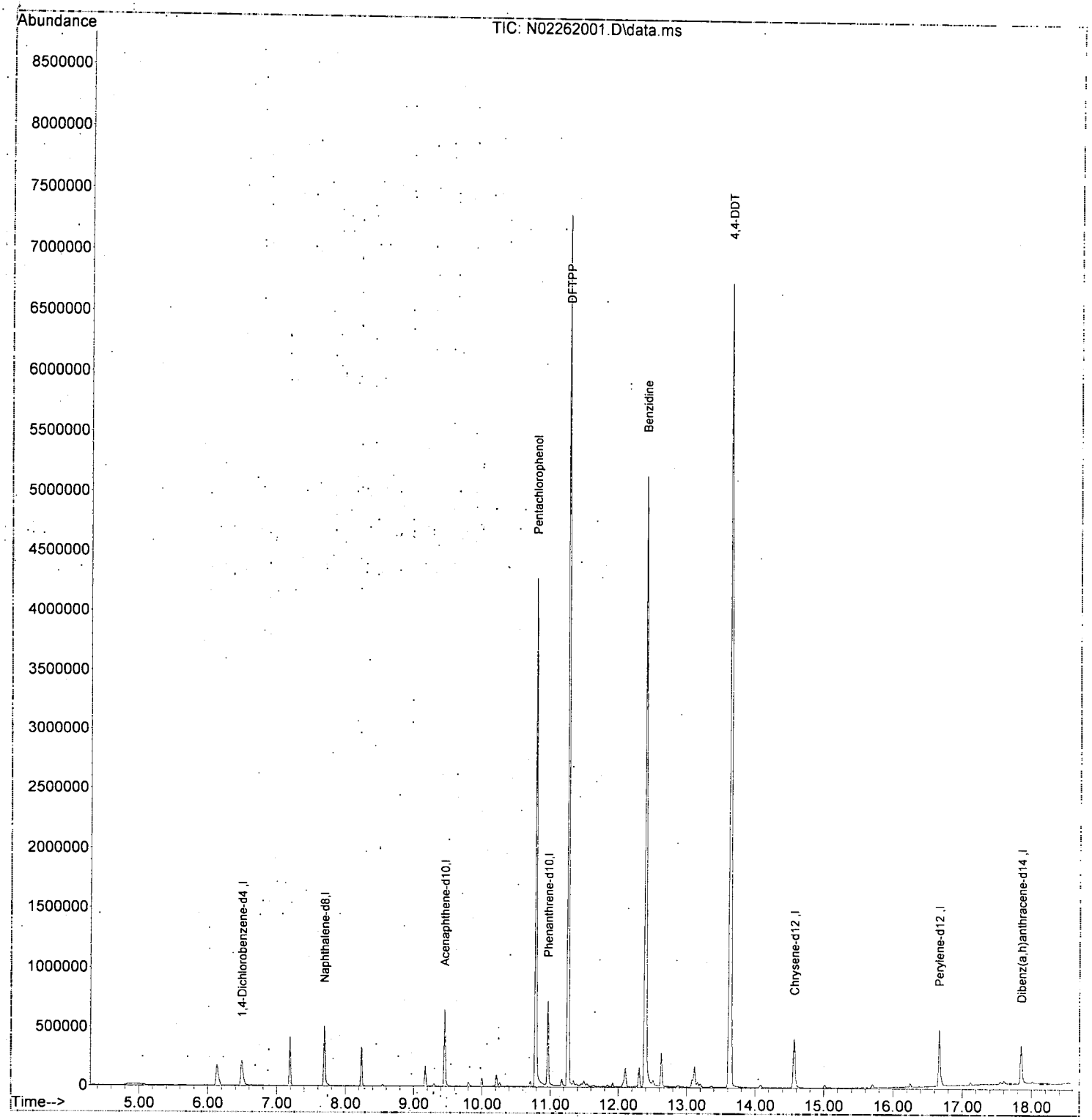
From:
0B26029-TUN1
SV-GCMS

First Column Area Counts		Percent Breakdown	
DDE	416011		
DDD	255404		
DDT	12667767	5.03	PASS

Breakdown must be less than 20% to accept sample data.

Data Path : U:\data\2020-02\0B26029\
Data File : N02262001.D
Acq On : 26 Feb 2020 09:47 am
Operator : JK/ AMS/ DTH
Sample : 0B26029-TUN1
Misc : 1x, A20B266 DFTPP
ALS Vial : 1 Sample Multiplier: 1
DataAcq Meth:DFTPP.M

Quant Time: Feb 26 15:07:36 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\0B26029\
Data File : N02262002.D
Acq On : 26 Feb 2020 10:15 am
Operator : JK/ AMS/ DTH
Sample : 0B26029-CCV1
Misc : 1x, A19K012@50
ALS Vial : 2 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

AMS 2/26/20

Quant Time: Feb 26 15:08:55 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

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	129	0.00
2	S	Nitrobenzene-d5 (Surr)	50.000	44.004	12.0	117	0.00
3	T	Decalin	50.000	19.205	61.6#	49	0.00
4	T	Naphthalene	50.000	48.339	3.3	127	0.00
5	T	2-Methylnaphthalene	50.000	41.955	16.1	108	0.00
6	T	1-Methylnaphthalene	50.000	40.762	18.5	102	0.00
7	T	1,1'-Biphenyl	50.000	40.107	19.8	104	0.00
8	T	2,6-Dimethylnaphthalene	50.000	39.394	21.2#	99	0.00
9	I	Acenaphthene-d10 (ISTD)	100.000	100.000	0.0	101	0.00
10	S	2-Fluorobiphenyl (Surr)	50.000	51.522	-3.0	105	0.00
11	S	Acenaphthylene d-8 (Surr)	50.000	0.790	98.4#	5	0.00
12	T	Acenaphthylene	50.000	47.237	5.5	96	0.00
13	T	Acenaphthene	50.000	47.875	4.3	99	0.00
14	T	Dibenzofuran	50.000	50.108	-0.2	102	0.00
15	T	1,6,7-Trimethylnaphthalene	50.000	47.662	4.7	99	0.00
16	T	Fluorene	50.000	48.588	2.8	99	0.00
17	I	Phenanthrene-d10 (ISTD)	100.000	100.000	0.0	102	0.00
18	T	Dibenzothiopene	50.000	48.866	2.3	101	0.00
19	T	Phenanthrene	50.000	47.598	4.8	99	0.00
20	T	Anthracene	50.000	47.209	5.6	97	0.00
21	T	Carbazole	50.000	45.490	9.0	94	0.00
22	T	1-Methylphenanthrene	50.000	49.249	1.5	101	0.00
23	T	Fluoranthene	50.000	49.003	2.0	101	0.00
24	I	Chrysene-d12 (ISTD)	100.000	100.000	0.0	111	-0.02
25	T	Pyrene	50.000	45.539	8.9	101	0.00
26	S	Terphenyl-d14 (Surr)	50.000	46.132	7.7	103	-0.01
27	T	Benz(a)anthracene	50.000	44.056	11.9	104	-0.02
28	T	Chrysene	50.000	46.182	7.6	104	-0.02
29	I	Perylene-d12 (ISTD)	100.000	100.000	0.0	123	-0.01
30	T	Benzo(b)fluoranthene	50.000	46.206	7.6	113	-0.01
31	T	Benzo(k)fluoranthene	50.000	45.608	8.8	114	-0.01
32	T	Benzo(b+k)fluoranthene	100.000	93.827	6.2	116	-0.01
33	S	Benzo(a)pyrene d-12 (Surr)	50.000	0.000	100.0#	0	-17.96#
34	T	Benzo(e)pyrene	50.000	45.956	8.1	115	-0.02
35	T	Benzo(a)pyrene	50.000	46.515	7.0	112	-0.01
36	T	Perylene	50.000	48.782	2.4	120	-0.01
37	I	Dibenz(a,h)Anthrcene-d14(IS	100.000	100.000	0.0	149	-0.02
38	T	Indeno(1,2,3-cd)Pyrene	50.000	43.829	12.3	132	-0.02
39	T	Dibenz(a,h)anthracene	50.000	47.444	5.1	144	-0.02
40	T	Benzo(g,h,i)perylene	50.000	44.793	10.4	132	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

J

No Name Entered Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-02\0B26029\
Data File : N02262002.D
Acq On : 26 Feb 2020 10:15 am
Operator : JK/ AMS/ DTH
Sample : 0B26029-CCV1
Misc : 1x, A19K012@50
ALS Vial : 2 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

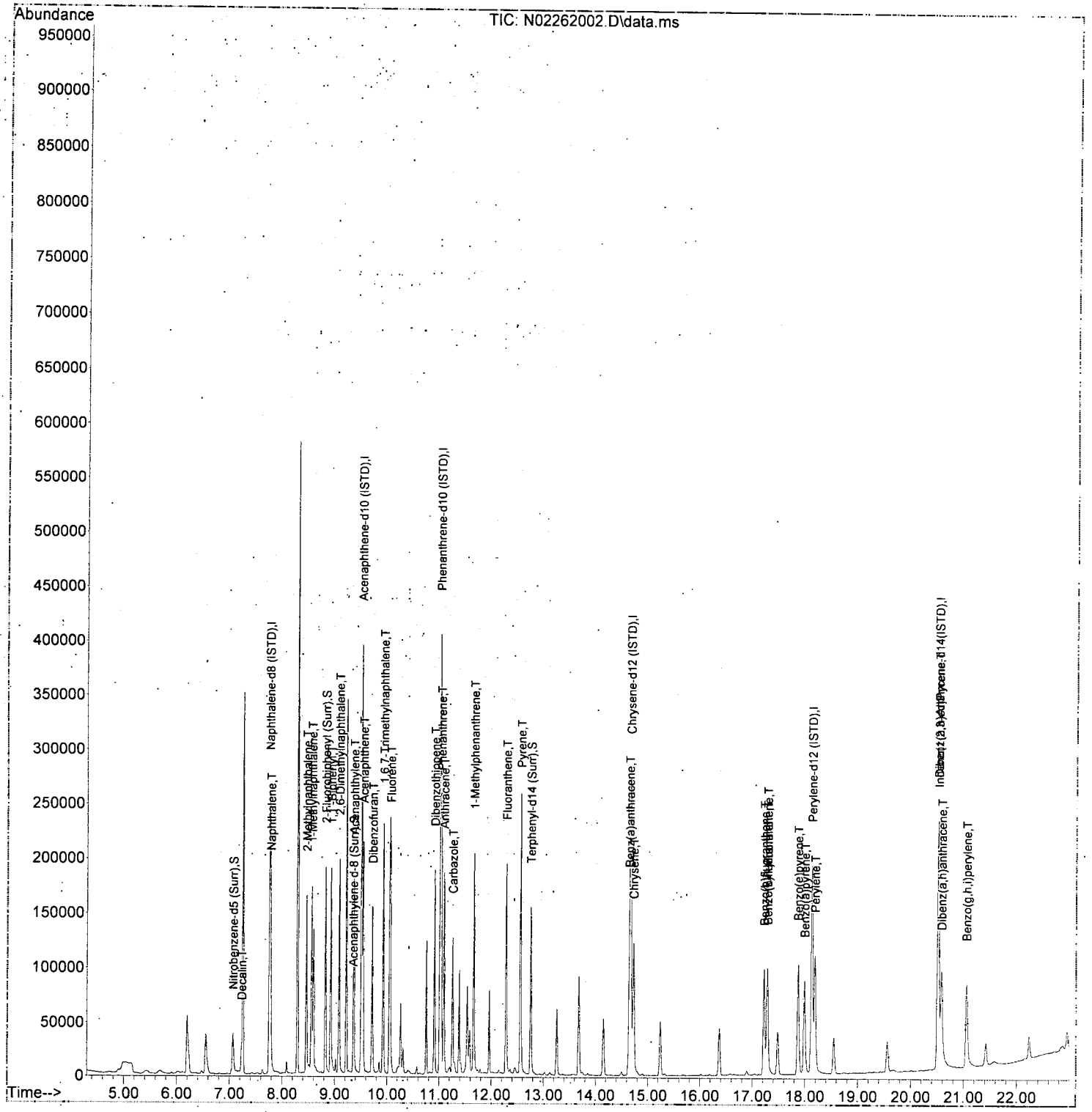
Quant Time: Feb 26 15:08:55 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.755	136	191979	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.509	162	119599	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.013	188	223968	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.668	240	189183	100.00	ng/ml	-0.02
29) Perylene-d12 (ISTD)	18.130	264	175118	100.00	ng/ml	-0.01
37) Dibenz(a,h)Anthrcene-d...	20.514	292	139402	100.00	ng/ml	-0.02
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.067	82	28072	44.00	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.822	172	91927	51.52	ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	9.352	160	5375	0.79	ng/ml	0.00
26) Terphenyl-d14 (Surr)	12.756	244	91788	46.13	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	2745	19.20	ng/ml	86
4) Naphthalene	7.778	128	102353	48.34	ng/ml	99
5) 2-Methylnaphthalene	8.460	142	75279	41.96	ng/ml	96
6) 1-Methylnaphthalene	8.559	142	73125	40.76	ng/ml	98
7) 1,1'-Biphenyl	8.927	154	96787	40.11	ng/ml	97
8) 2,6-Dimethylnaphthalene	9.084	156	69427	39.39	ng/ml	99
12) Acenaphthylene	9.364	152	122650	47.24	ng/ml	98
13) Acenaphthene	9.544	153	81419	47.88	ng/ml	99
14) Dibenzofuran	9.719	168	106737	50.11	ng/ml	96
15) 1,6,7-Trimethylnaphtha...	9.929	170	67978	47.66	ng/ml	98
16) Fluorene	10.063	166	84556	48.59	ng/ml	99
18) Dibenzothiopene	10.908	184	114464	48.87	ng/ml	96
19) Phenanthrene	11.037	178	124746	47.60	ng/ml	100
20) Anthracene	11.089	178	115084	47.21	ng/ml	99
21) Carbazole	11.258	167	89731	45.49	ng/ml	99
22) 1-Methylphenanthrene	11.666	192	89663	49.25	ng/ml	98
23) Fluoranthene	12.284	202	129394	49.00	ng/ml	96
25) Pyrene	12.564	202	134598	45.54	ng/ml	99
27) Benz(a)anthracene	14.644	228	96768	44.06	ng/ml	100
28) Chrysene	14.726	228	95993	46.18	ng/ml	99
30) Benzo(b)fluoranthene	17.221	252	93366	46.21	ng/ml	93
31) Benzo(k)fluoranthene	17.285	252	90737	45.61	ng/ml	93
32) Benzo(b+k)fluoranthene	17.285	252	193927	93.83	ng/ml	93
34) Benzo(e)pyrene	17.868	252	93899	45.96	ng/ml	96
35) Benzo(a)pyrene	17.990	252	80449	46.51	ng/ml	97
36) Perylene	18.188	252	103916	48.78	ng/ml	99
38) Indeno(1,2,3-cd)Pyrene	20.520	276	75353	43.83	ng/ml	80
39) Dibenz(a,h)anthracene	20.584	278	76644	47.44	ng/ml	83
40) Benzo(g,h,i)perylene	21.056	276	81694	44.79	ng/ml	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : U:\data\2020-02\0B26029\
Data File : N02262002.D
Acq On : 26 Feb 2020 10:15 am
Operator : JK/ AMS/ DTH
Sample : 0B26029-CCV1
Misc : 1x, A19K012@50
ALS Vial : 2 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 26 15:08:55 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\0B26029\
Data File : N02262003.D
Acq On : 26 Feb 2020 10:47 am
Operator : JK/ AMS/ DTH
Sample : 0B26029-CCB1
Misc : 1x, DCM + ISTD
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 26 15:09:20 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 2/26/20

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Naphthalene-d8 (ISTD)	7.749	136	194915	100.00 ng/ml	-0.01
9) Acenaphthene-d10 (ISTD)	9.503	162	122421	100.00 ng/ml	-0.01
17) Phenanthrene-d10 (ISTD)	11.007	188	210431	100.00 ng/ml	-0.01
24) Chrysene-d12 (ISTD)	14.662	240	143289	100.00 ng/ml	-0.02
29) Perylene-d12 (ISTD)	18.118	264	124720	100.00 ng/ml	-0.02
37) Dibenz(a,h)Anthrcene-d...	20.508	292	94957	100.00 ng/ml	-0.02
System Monitoring Compounds					
2) Nitrobenzene-d5 (Surr)	7.137	82	54	0.08 ng/ml	0.07
10) 2-Fluorobiphenyl (Surr)	0.000	172	0	0.00 ng/ml	
11) Acenaphthylene d-8 (Surr)	9.346	160	6961	1.39 ng/ml	-0.01
26) Terphenyl-d14 (Surr)	12.762	244	70	0.05 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	7.778	128	161	N.D.	
5) 2-Methylnaphthalene	0.000		0	N.D.	
6) 1-Methylnaphthalene	0.000		0	N.D.	
7) 1,1'-Biphenyl	8.932	154	52	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	11.036	178	221	N.D.	
20) Anthracene	11.036	178	221	N.D.	
21) Carbazole	11.532	167	354	N.D.	
22) 1-Methylphenanthrene	0.000		0	N.D.	
23) Fluoranthene	12.295	202	81	N.D.	
25) Pyrene	12.569	202	71	N.D.	
27) Benz(a)anthracene	14.662	228	413	N.D.	
28) Chrysene	14.714	228	110	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	18.112	252	321	N.D.	
35) Benzo(a)pyrene	0.000		0	N.D.	
36) Perylene	18.171	252	52	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.	

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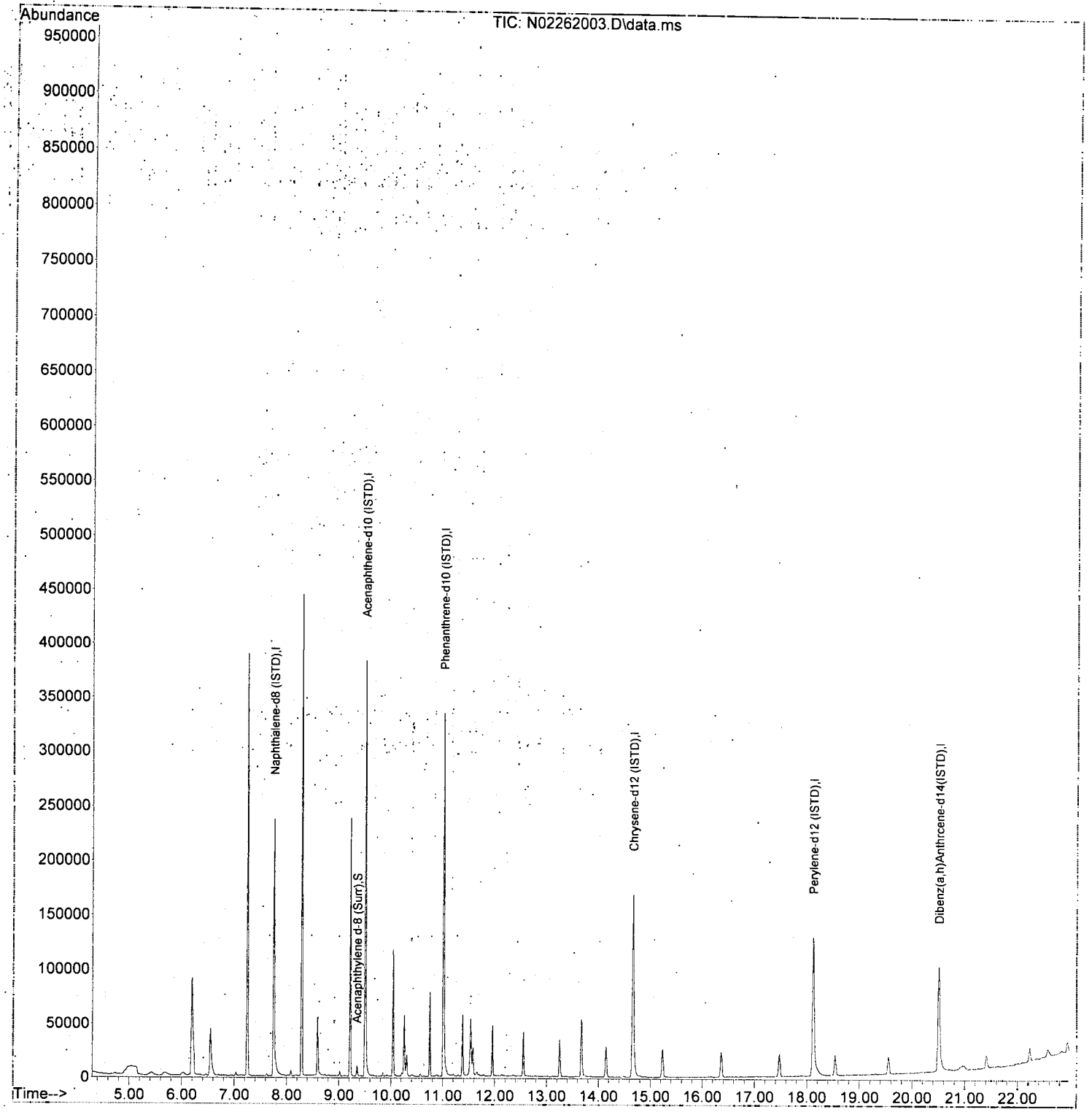
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : U:\data\2020-02\0B26029\
Data File : N02262003.D
Acq On : 26 Feb 2020 10:47 am
Operator : JK/ AMS/ DTH
Sample : 0B26029-CCB1
Misc : 1x, DCM + ISTD
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 26 15:09:20 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\0B26029\
Data File : N02262004.D
Acq On : 26 Feb 2020 11:19 am
Operator : JK/ AMS/ DTH
Sample : 0020782-BLK1
Misc : 1x, 8270D LL PAH ONLY
ALS Vial : 4 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 26 15:09:29 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

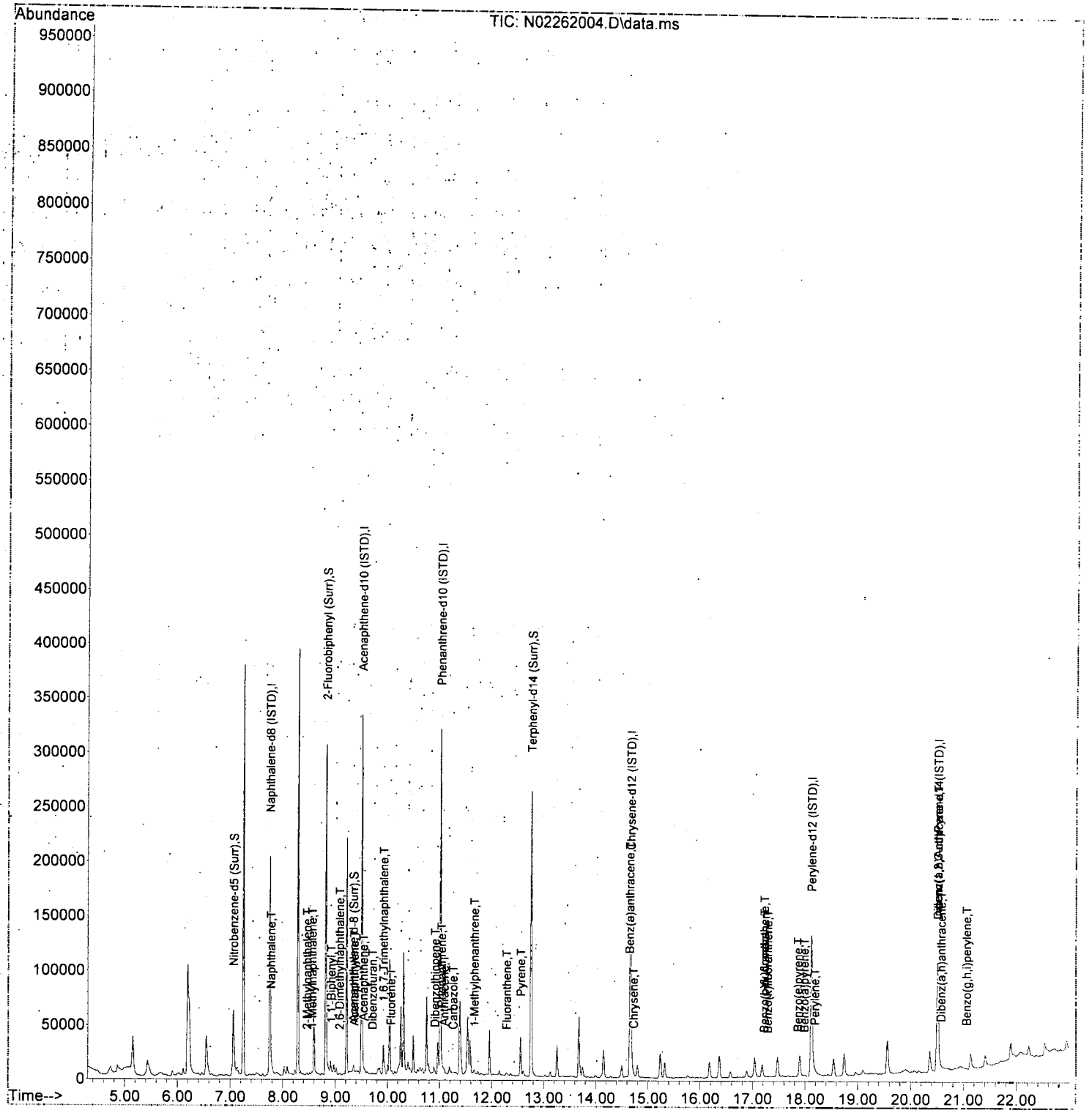
AMS 2/26/20

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.749	136	160733	100.00	ng/ml	-0.01
9) Acenaphthene-d10 (ISTD)	9.504	162	102790	100.00	ng/ml	-0.01
17) Phenanthrene-d10 (ISTD)	11.013	188	185236	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.662	240	137274	100.00	ng/ml	-0.02
29) Perylene-d12 (ISTD)	18.118	264	121160	100.00	ng/ml	-0.02
37) Dibenz(a,h)Anthrcene-d...	20.508	292	94462	100.00	ng/ml	-0.02
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.061	82	45704	85.57	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.822	172	158263	103.21	ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	9.346	160	5088	1.02	ng/ml	-0.01
26) Terphenyl-d14 (Surr)	12.756	244	158994	110.13	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	2750	1.55	ng/ml	98
5) 2-Methylnaphthalene	8.460	142	1004	0.67	ng/ml	92
6) 1-Methylnaphthalene	8.559	142	825	0.55	ng/ml	95
7) 1,1'-Biphenyl	8.921	154	981	0.49	ng/ml	91
8) 2,6-Dimethylnaphthalene	9.084	156	596	0.40	ng/ml	97
12) Acenaphthylene	9.364	152	1024	0.46	ng/ml	95
13) Acenaphthene	9.539	153	1087	0.74	ng/ml	90
14) Dibenzofuran	9.713	168	834	0.46	ng/ml	78
15) 1,6,7-Trimethylnaphtha...	9.923	170	544	0.44	ng/ml#	1
16) Fluorene	10.063	166	794	0.53	ng/ml	97
18) Dibenzothiopene	10.908	184	951	0.49	ng/ml	98
19) Phenanthrene	11.036	178	2317	1.07	ng/ml	96
20) Anthracene	11.089	178	1101	0.55	ng/ml	91
21) Carbazole	11.258	167	1018	0.62	ng/ml	92
22) 1-Methylphenanthrene	11.666	192	947	0.63	ng/ml	97
23) Fluoranthene	12.284	202	1890	0.87	ng/ml	97
25) Pyrene	12.558	202	2029	0.95	ng/ml	100
27) Benz(a)anthracene	14.644	228	1204	0.76	ng/ml	79
28) Chrysene	14.720	228	1103	0.73	ng/ml	96
30) Benzo(b)fluoranthene	17.221	252	824	0.59	ng/ml	78
31) Benzo(k)fluoranthene	17.285	252	655	0.48	ng/ml	92
32) Benzo(b+k)fluoranthene	17.221	252	1643	1.15	ng/ml	77
34) Benzo(e)pyrene	17.862	252	807	0.57	ng/ml	91
35) Benzo(a)pyrene	17.984	252	769	0.64	ng/ml	80
36) Perylene	18.182	252	694	0.47	ng/ml	83
38) Indeno(1,2,3-cd)Pyrene	20.508	276	695	0.60	ng/ml#	43
39) Dibenz(a,h)anthracene	20.572	278	535	0.49	ng/ml	64
40) Benzo(g,h,i)perylene	21.056	276	750	0.61	ng/ml	66

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : U:\data\2020-02\0B26029\
Data File : N02262004.D
Acq On : 26 Feb 2020 11:19 am
Operator : JK/ AMS/ DTH
Sample : 0020782-BLK1
Misc : 1x, 8270D LL PAH ONLY
ALS Vial : 4 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 26 15:09:29 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\0B26029\
Data File : N02262005.D
Acq On : 26 Feb 2020 11:52 am
Operator : JK/ AMS/ DTH
Sample : 0020782-BS1
Misc : 1x, 8270D LL PAH ONLY
ALS Vial : 5 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

AMS 2/26/20

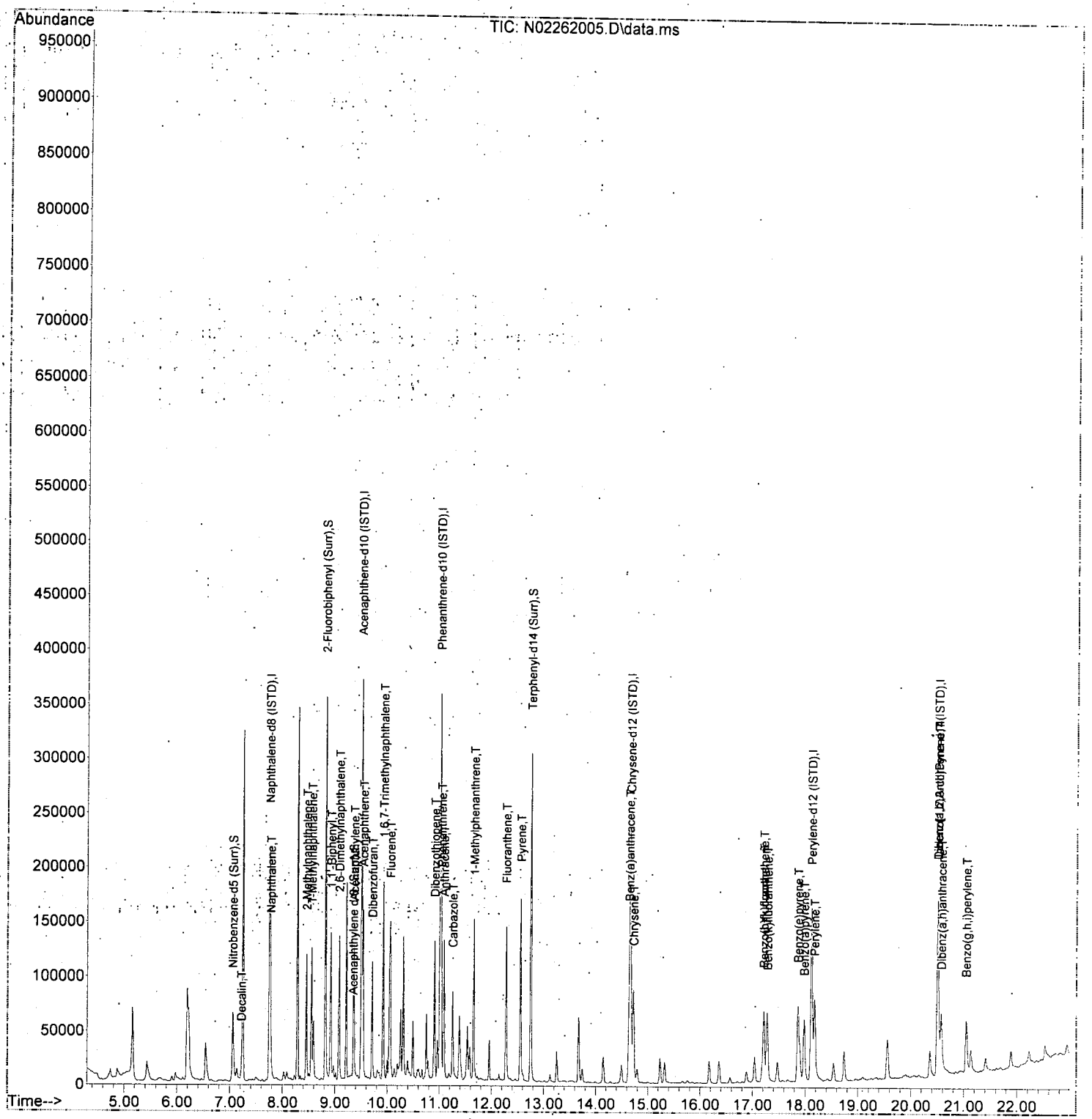
Quant Time: Feb 26 15:09:34 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.749	136	157410	100.00	ng/ml	-0.01
9) Acenaphthene-d10 (ISTD)	9.504	162	109554	100.00	ng/ml	-0.01
17) Phenanthrene-d10 (ISTD)	11.007	188	197719	100.00	ng/ml	-0.01
24) Chrysene-d12 (ISTD)	14.662	240	160163	100.00	ng/ml	-0.02
29) Perylene-d12 (ISTD)	18.118	264	145030	100.00	ng/ml	-0.02
37) Dibenz(a,h)Anthrcene-d...	20.502	292	110684	100.00	ng/ml	-0.03
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.056	82	46048	88.04	ng/ml	-0.01
10) 2-Fluorobiphenyl (Surr)	8.816	172	170993	104.62	ng/ml	-0.01
11) Acenaphthylene d-8 (Surr)	9.346	160	4320	0.51	ng/ml	-0.01
26) Terphenyl-d14 (Surr)	12.750	244	175715	104.31	ng/ml	-0.02
33) Benzo(a)pyrene d-12 (S...	17.938	264	126	0.11	ng/ml	-0.03
Target Compounds						Qvalue
3) Decalin	7.219	138	1841	15.71	ng/ml	97
4) Naphthalene	7.772	128	66411	38.25	ng/ml	99
5) 2-Methylnaphthalene	8.454	142	52361	35.59	ng/ml	98
6) 1-Methylnaphthalene	8.553	142	51452	34.98	ng/ml	97
7) 1,1'-Biphenyl	8.921	154	67152	33.94	ng/ml	96
8) 2,6-Dimethylnaphthalene	9.078	156	48096	33.28	ng/ml	99
12) Acenaphthylene	9.364	152	85267	35.85	ng/ml	99
13) Acenaphthene	9.539	153	59097	37.94	ng/ml	98
14) Dibenzofuran	9.713	168	71868	36.83	ng/ml	95
15) 1,6,7-Trimethylnaphtha...	9.923	170	48420	37.06	ng/ml	98
16) Fluorene	10.057	166	58029	36.40	ng/ml	100
18) Dibenzothiopene	10.902	184	77223	37.34	ng/ml	96
19) Phenanthrene	11.037	178	86723	37.48	ng/ml	99
20) Anthracene	11.083	178	79298	36.85	ng/ml	99
21) Carbazole	11.252	167	57811	33.20	ng/ml	99
22) 1-Methylphenanthrene	11.660	192	63405	39.45	ng/ml	97
23) Fluoranthene	12.278	202	93413	40.07	ng/ml	96
25) Pyrene	12.558	202	94718	37.85	ng/ml	100
27) Benz(a)anthracene	14.639	228	64786	34.84	ng/ml	98
28) Chrysene	14.720	228	66730	37.92	ng/ml	99
30) Benzo(b)fluoranthene	17.209	252	61932	37.01	ng/ml	93
31) Benzo(k)fluoranthene	17.279	252	60188	36.53	ng/ml	93
32) Benzo(b+k)fluoranthene	17.209	252	129769	75.81	ng/ml	92
34) Benzo(e)pyrene	17.862	252	63371	37.45	ng/ml	98
35) Benzo(a)pyrene	17.978	252	52102	36.37	ng/ml	97
36) Perylene	18.177	252	67645	38.34	ng/ml	99
38) Indeno(1,2,3-cd)Pyrene	20.508	276	47378	34.71	ng/ml	82
39) Dibenz(a,h)anthracene	20.572	278	45514	35.48	ng/ml	82
40) Benzo(g,h,i)perylene	21.044	276	52044	35.94	ng/ml	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : U:\data\2020-02\0B26029\
Data File : N02262005.D
Acq On : 26 Feb 2020 11:52 am
Operator : JK/ AMS/ DTH
Sample : 0020782-BS1
Misc : 1x, 8270D LL PAH ONLY
ALS Vial : 5 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 26 15:09:34 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\0B26029\
Data File : N02262008.D
Acq On : 26 Feb 2020 01:28 pm
Operator : JK/ AMS/ DTH
Sample : A0B0680-05@20
Misc : 20x, 8270D LL PAH ONLY
ALS Vial : 8 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

AMS 2/26/20

Quant Time: Feb 26 15:09:47 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

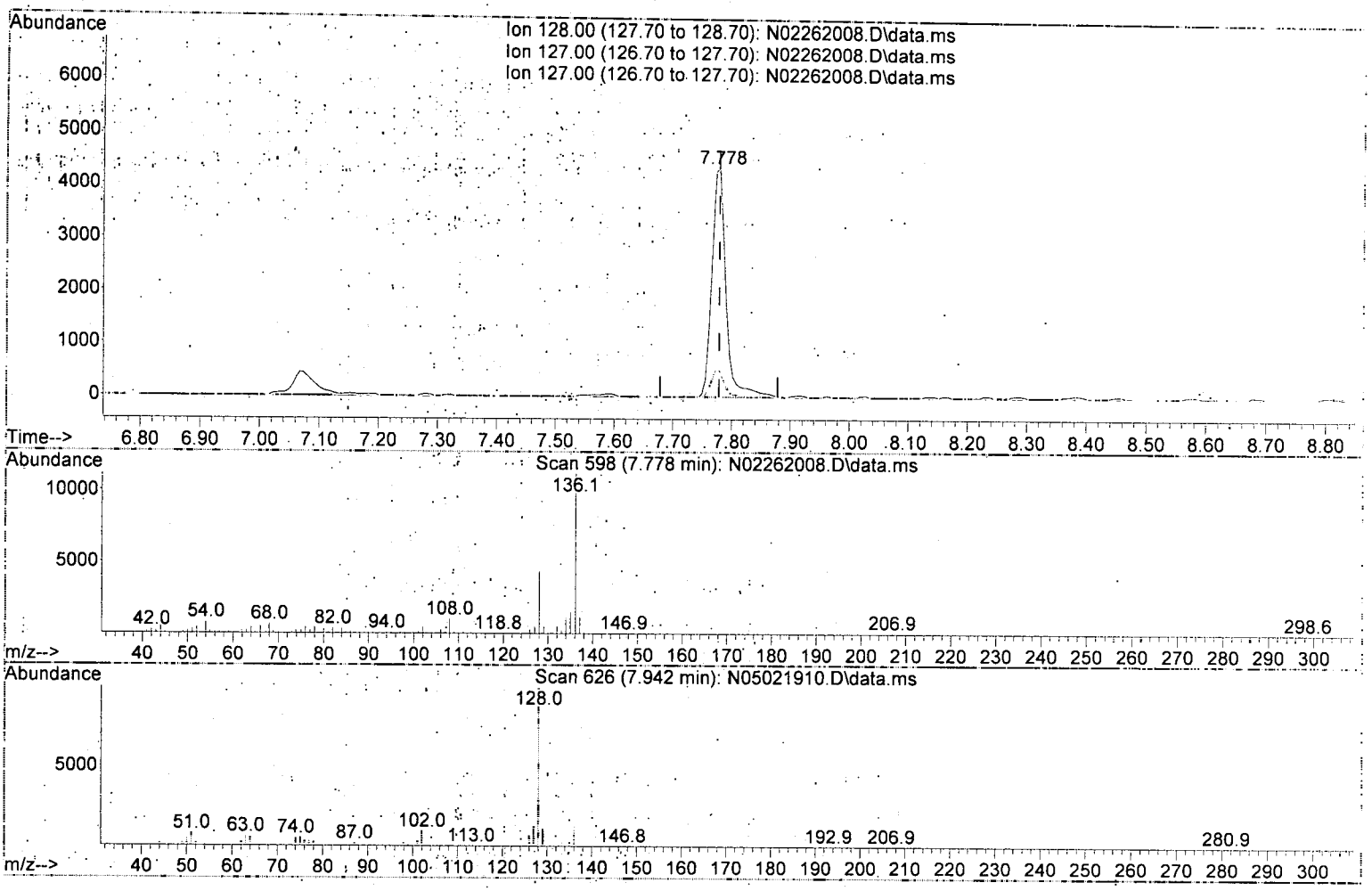
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Naphthalene-d8 (ISTD)	7.755	136	170144	100.00 ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.509	162	113573	100.00 ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.013	188	204753	100.00 ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.662	240	167529	100.00 ng/ml	-0.02
29) Perylene-d12 (ISTD)	18.124	264	161658	100.00 ng/ml	-0.02
37) Dibenz(a,h)Anthrcene-d...	20.508	292	130270	100.00 ng/ml	-0.02
System Monitoring Compounds					
2) Nitrobenzene-d5 (Surr)	7.067	82	2461	4.35 ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.822	172	7392	4.36 ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	9.352	160	4365	0.46 ng/ml	0.00
26) Terphenyl-d14 (Surr)	12.756	244	7591	4.31 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	7186	3.83 ng/ml	97
5) 2-Methylnaphthalene	8.460	142	1581	0.99 ng/ml	93
6) 1-Methylnaphthalene	8.559	142	1719	1.08 ng/ml	99
7) 1,1'-Biphenyl	8.927	154	579	N.D.	
8) 2,6-Dimethylnaphthalene	9.090	156	1337	0.86 ng/ml	92
12) Acenaphthylene	9.364	152	2178	0.88 ng/ml	95
13) Acenaphthene	9.539	153	12622	7.82 ng/ml	99
14) Dibenzofuran	9.719	168	757	N.D.	
15) 1,6,7-Trimethylnaphtha...	9.923	170	768	0.57 ng/ml#	61
16) Fluorene	10.063	166	7577	4.58 ng/ml	97
18) Dibenzothiopene	10.908	184	11863	5.54 ng/ml	97
19) Phenanthrene	11.037	178	109349	45.64 ng/ml	99
20) Anthracene	11.089	178	6608	2.97 ng/ml	98
21) Carbazole	11.258	167	1129	0.63 ng/ml	92
22) 1-Methylphenanthrene	11.660	192	2829	1.70 ng/ml	93
23) Fluoranthene	12.284	202	67702	28.05 ng/ml	96
25) Pyrene	12.558	202	82685	31.59 ng/ml	99
27) Benz(a)anthracene	14.644	228	12090	6.22 ng/ml	72
28) Chrysene	14.720	228	16001	8.69 ng/ml	97
30) Benzo(b)fluoranthene	17.221	252	15369	8.24 ng/ml	94
31) Benzo(k)fluoranthene	~~17.221~~	~~252~~	~~18343~~	~~9.99 ng/ml~~	~~92~~ MI-5
32) Benzo(b+k)fluoranthene	17.221	252	21276	11.15 ng/ml	92
34) Benzo(e)pyrene	17.868	252	10200	5.41 ng/ml	98
35) Benzo(a)pyrene	17.984	252	14553	9.11 ng/ml	98
36) Perylene	18.182	252	5886	2.99 ng/ml	97
38) Indeno(1,2,3-cd)Pyrene	20.514	276	11156	6.94 ng/ml	85
39) Dibenz(a,h)anthracene	20.572	278	1084	0.72 ng/ml	85
40) Benzo(g,h,i)perylene	21.050	276	13604	7.98 ng/ml	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B26029\
Data File : N02262008.D
Acq On : 26 Feb 2020 01:28 pm
Operator : JK/ AMS/ DTH
Sample : A0B0680-05@20
Misc : 20x, 8270D LL PAH ONLY
ALS Vial : 8 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 26 15:09:47 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: N02262008.D\data.ms

(4) Naphthalene (T)

7.778min (-0.000) 3.83 ng/ml

response 7186

Ion	Exp%	Act%
128.00	100.00	100.00
127.00	12.60	11.61
127.00	12.60	11.61
0.00	0.00	0.00

J

Quantitation Report (Qedit)

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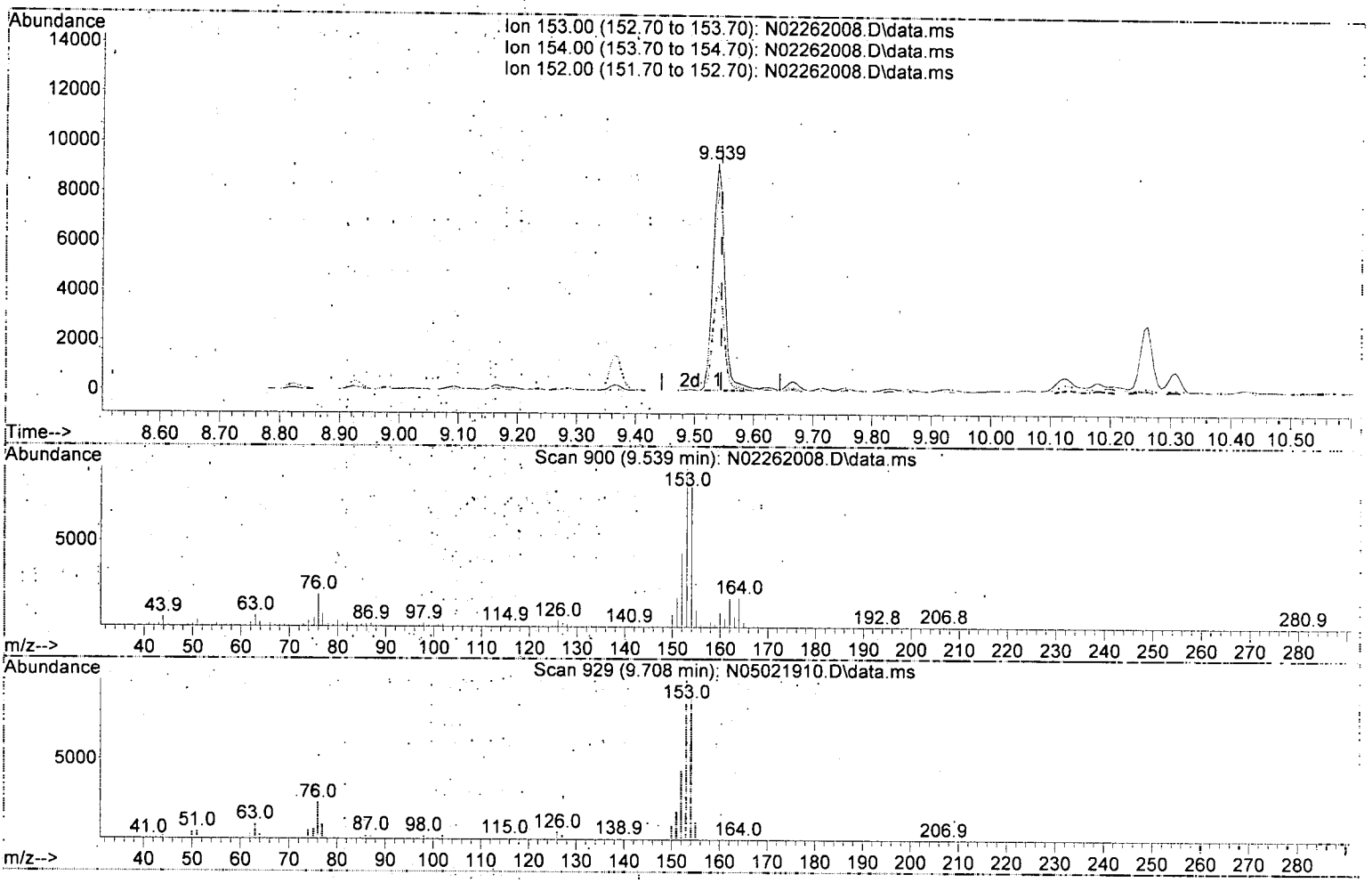

TIC: N02262008.D\data.ms

(13) Acenaphthene (T)

9.539min (-0.006) 7.82 ng/ml

response 12622

Ion	Exp%	Act%
153.00	100.00	100.00
154.00	90.70	89.78
152.00	46.80	46.76
0.00	0.00	0.00

Quantitation Report (Qedit)

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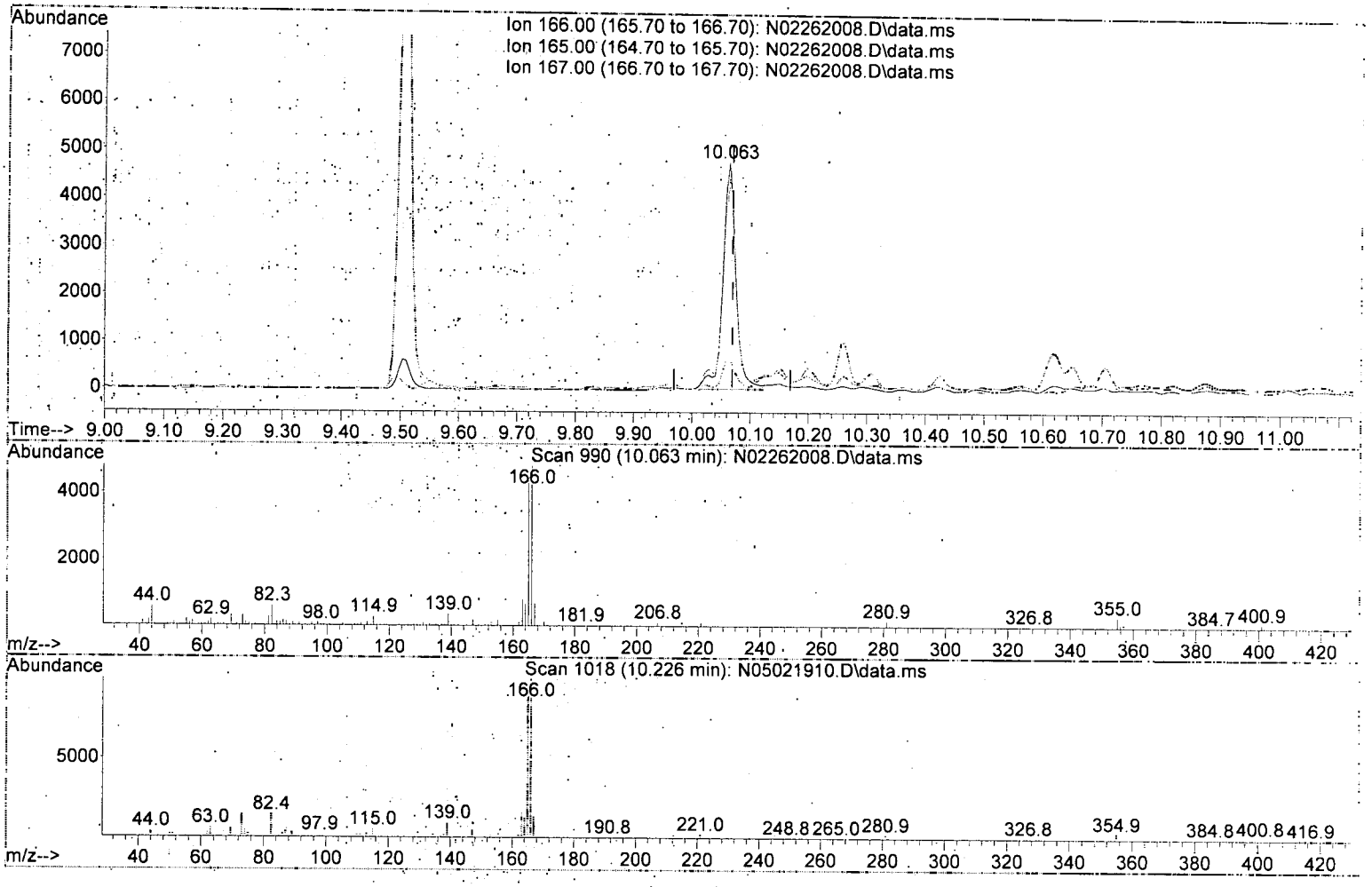

TIC: N02262008.D\data.ms

(16) Fluorene (T)

10.063min (-0.006) 4.58 ng/ml

response 7577

Ion	Exp%	Act%
166.00	100.00	100.00
165.00	95.70	92.79
167.00	13.60	14.10
0.00	0.00	0.00

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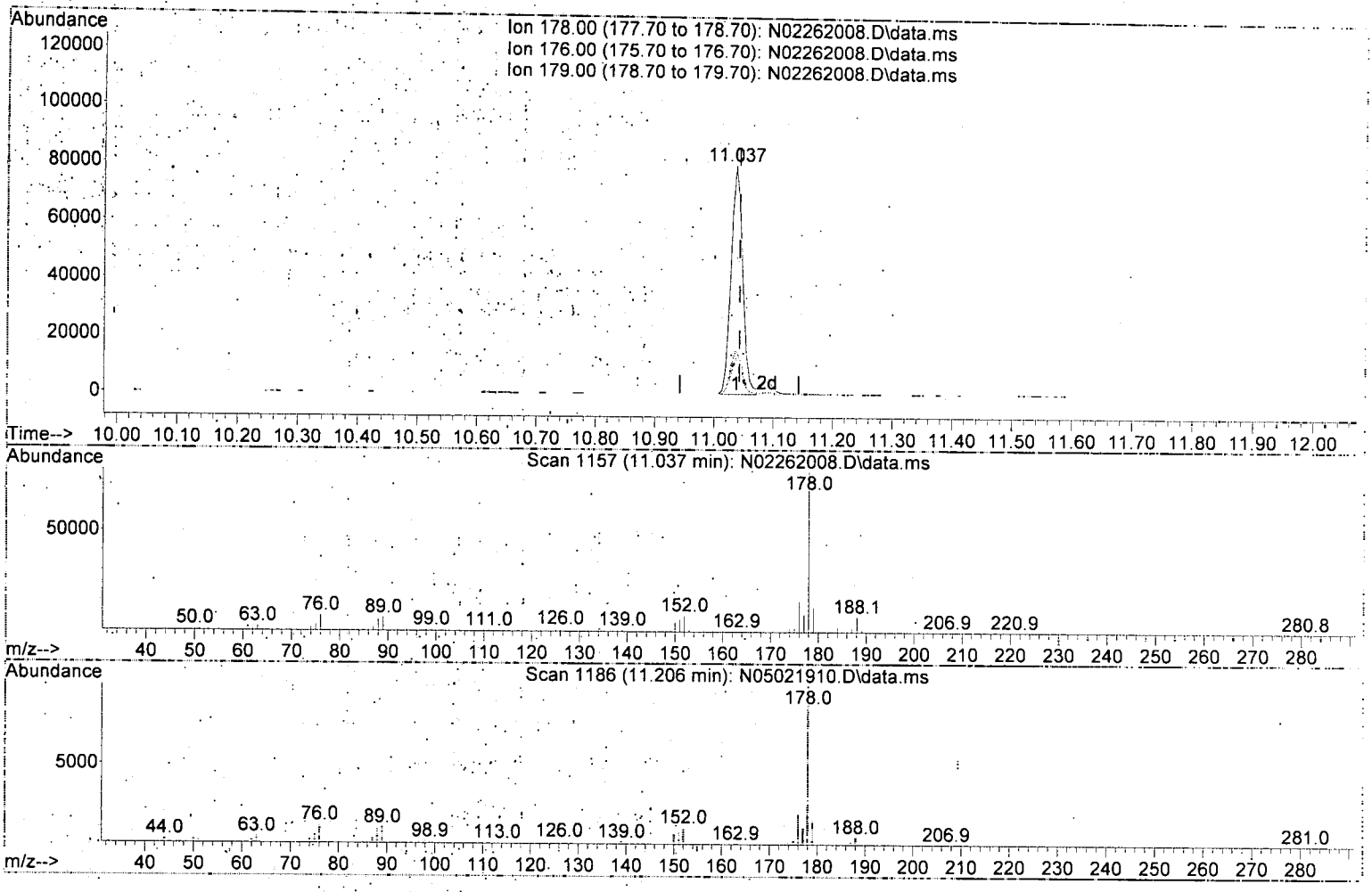

TIC: N02262008.D\data.ms

(19) Phenanthrene (T)

11.037min (-0.006) 45.64 ng/ml

response 109349

Ion	Exp%	Act%
178.00	100.00	100.00
176.00	19.00	19.17
179.00	15.10	15.40
0.00	0.00	0.00

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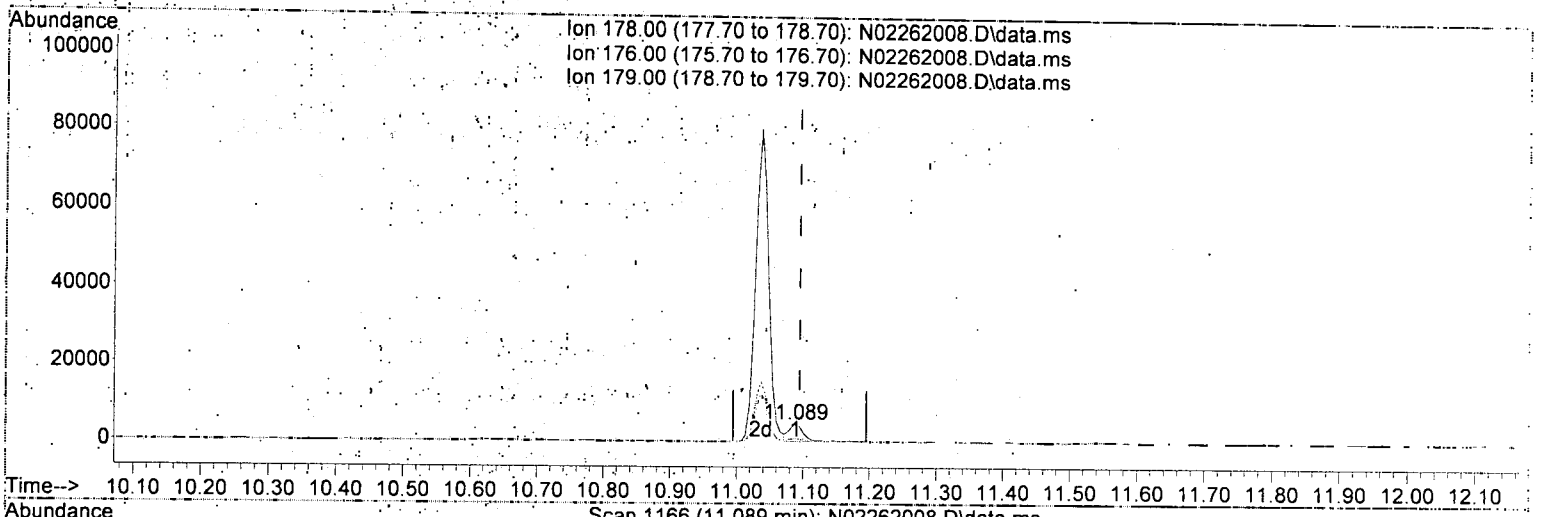

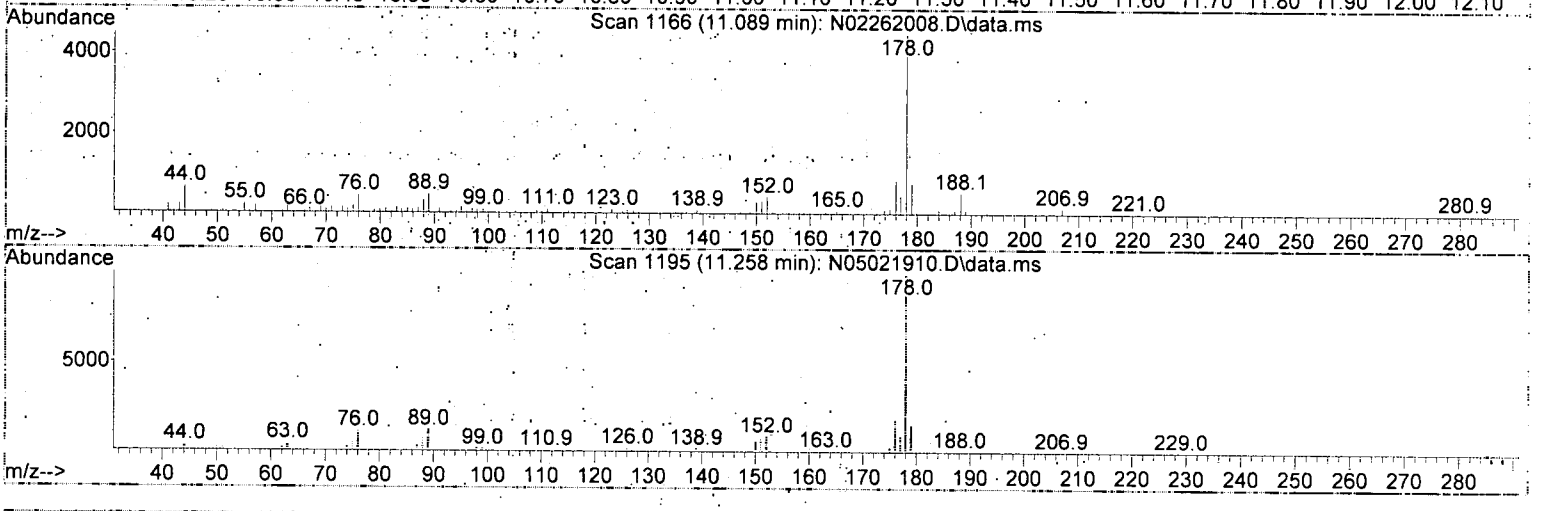

TIC: N02262008.D\data.ms

(20) Anthracene (T)

11.089min (-0.006) 2.97 ng/ml

response 6608

Ion	Exp%	Act%
178.00	100.00	100.00
176.00	18.90	18.83
179.00	15.30	16.96
0.00	0.00	0.00

Quantitation Report (Qedit)

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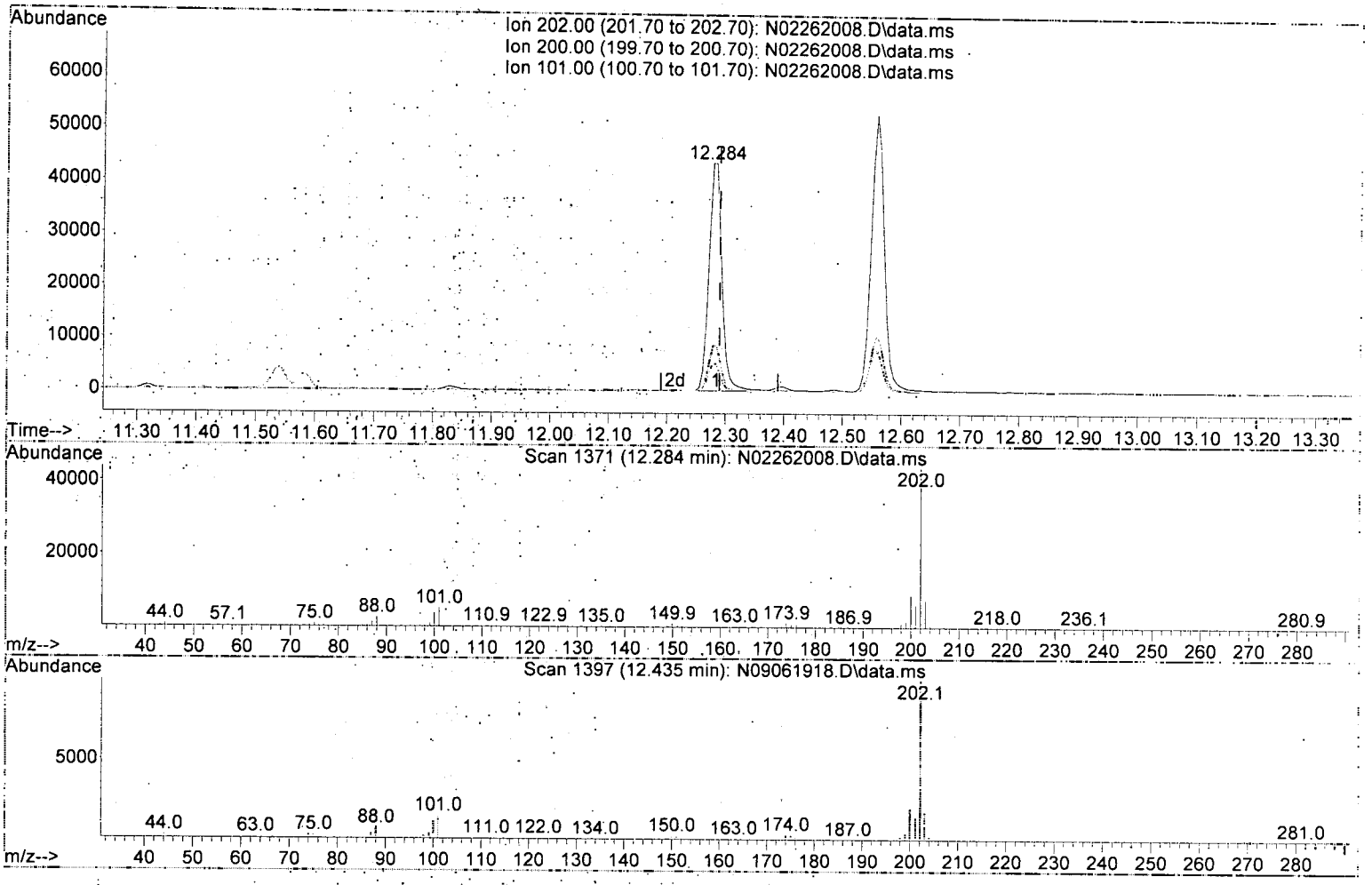

TIC: N02262008.D\data.ms

(23) Fluoranthene (T)

12.284min (-0.006) 28.05 ng/ml

response 67702

Ion	Exp%	Act%
202.00	100.00	100.00
200.00	19.70	20.16
101.00	15.30	11.85
0.00	0.00	0.00

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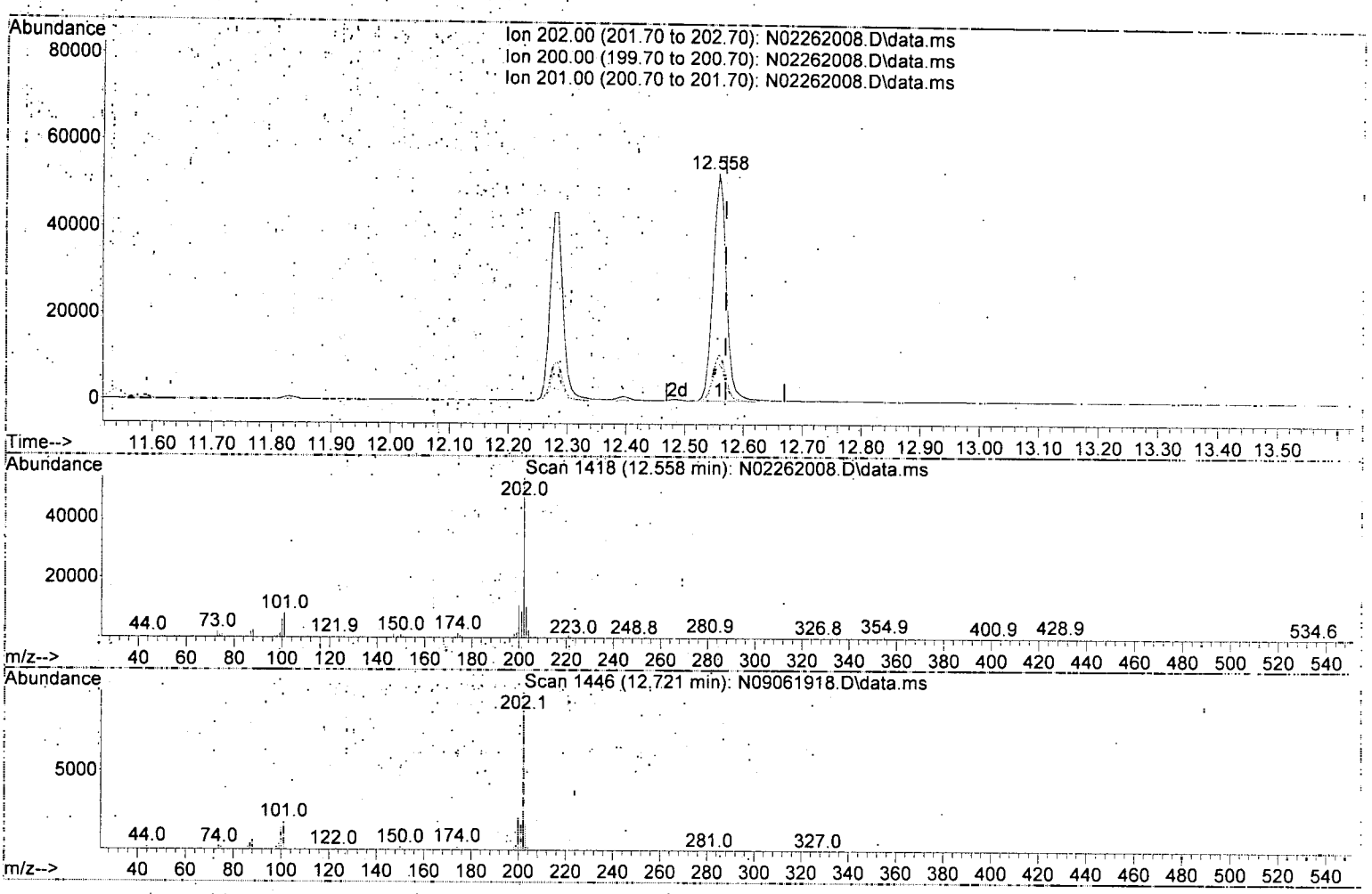

TIC: N02262008.D\data.ms

(25) Pyrene (T)

12.558min (-0.012) 31.59 ng/ml

response 82685

Ion	Exp%	Act%
202.00	100.00	100.00
200.00	20.70	20.28
201.00	16.80	16.51
0.00	0.00	0.00

Quantitation Report (Qedit)

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Misc : 20x, 8270D LL PAH ONLY
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Quant Title : EPA 8270D: Semivolatile Organics
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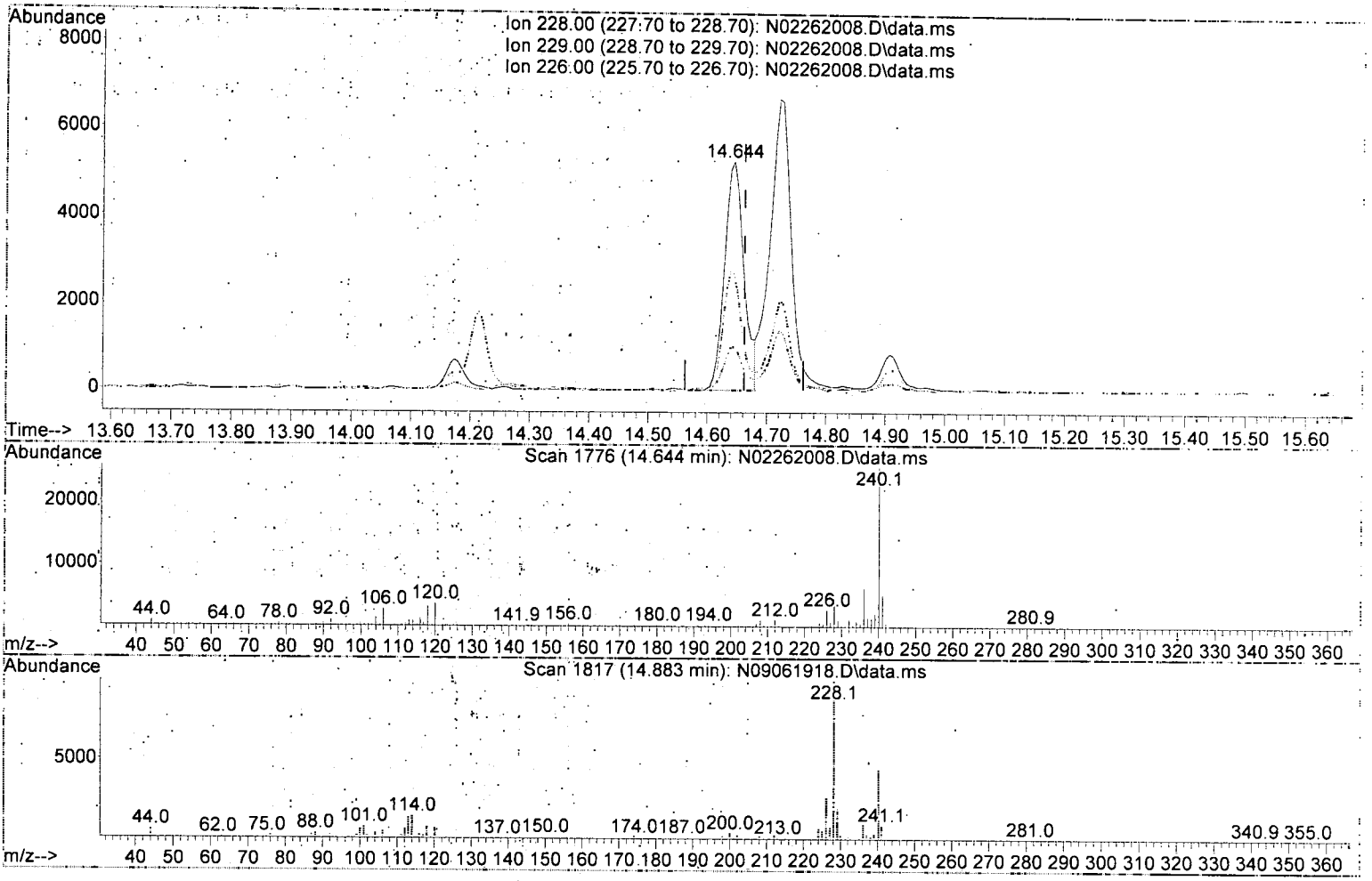

TIC: N02262008.D\data.ms

(27) Benz(a)anthracene (T)

14.644min (-0.018) 6.22 ng/ml

response 12090

Ion	Exp%	Act%
228.00	100.00	100.00
229.00	19.40	19.13
226.00	26.20	51.12
0.00	0.00	0.00

Quantitation Report (Qedit)

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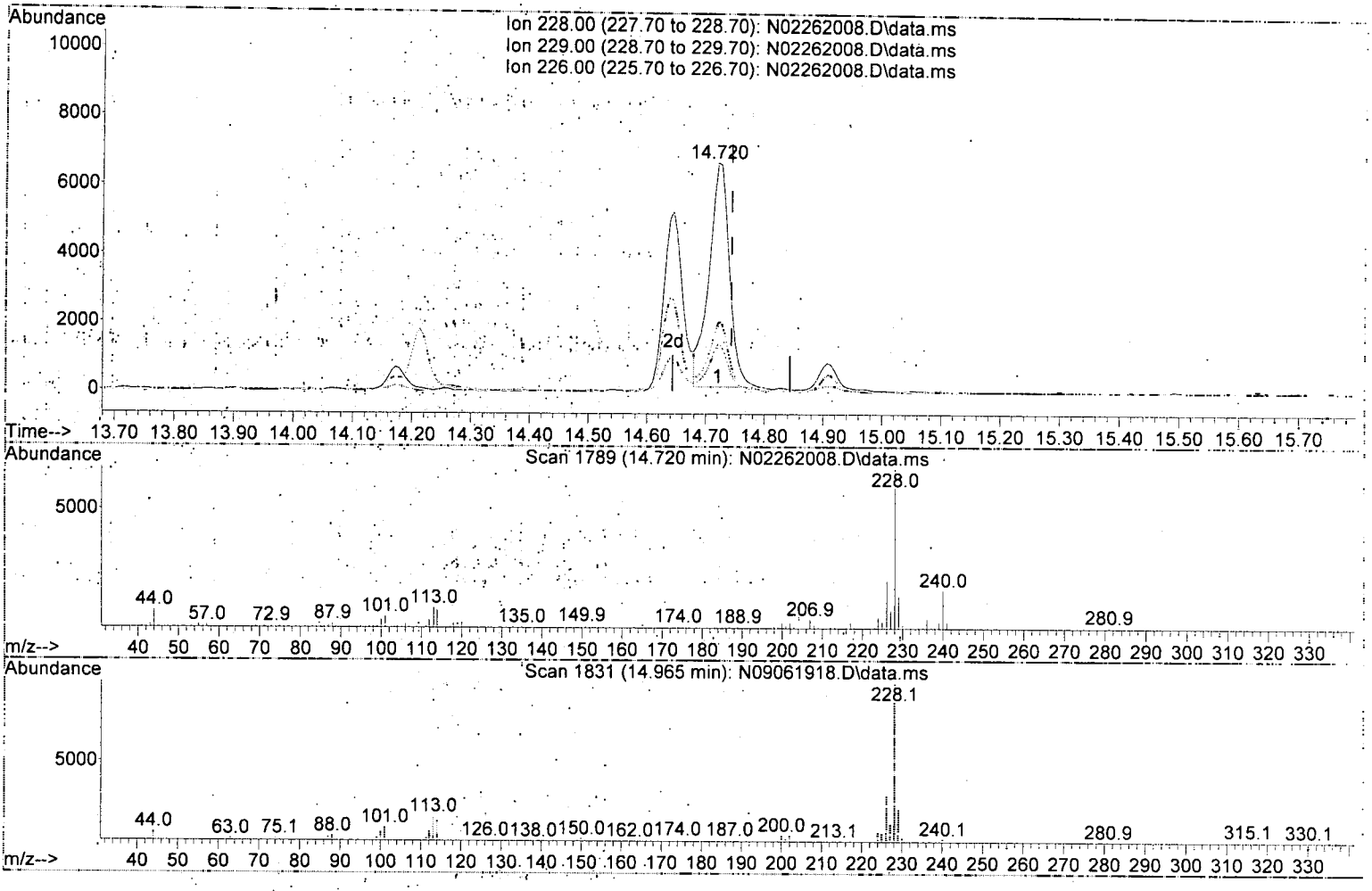
InstName : SV-GCMS14



TIC: N02262008.D\data.ms

(28) Chrysene (T)

14.720min (-0.023) 8.69 ng/ml

response 16001

Ion	Exp%	Act%
228.00	100.00	100.00
229.00	19.60	20.69
226.00	28.60	30.07
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B26029\
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Misc : 20x, 8270D LL PAH ONLY
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Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
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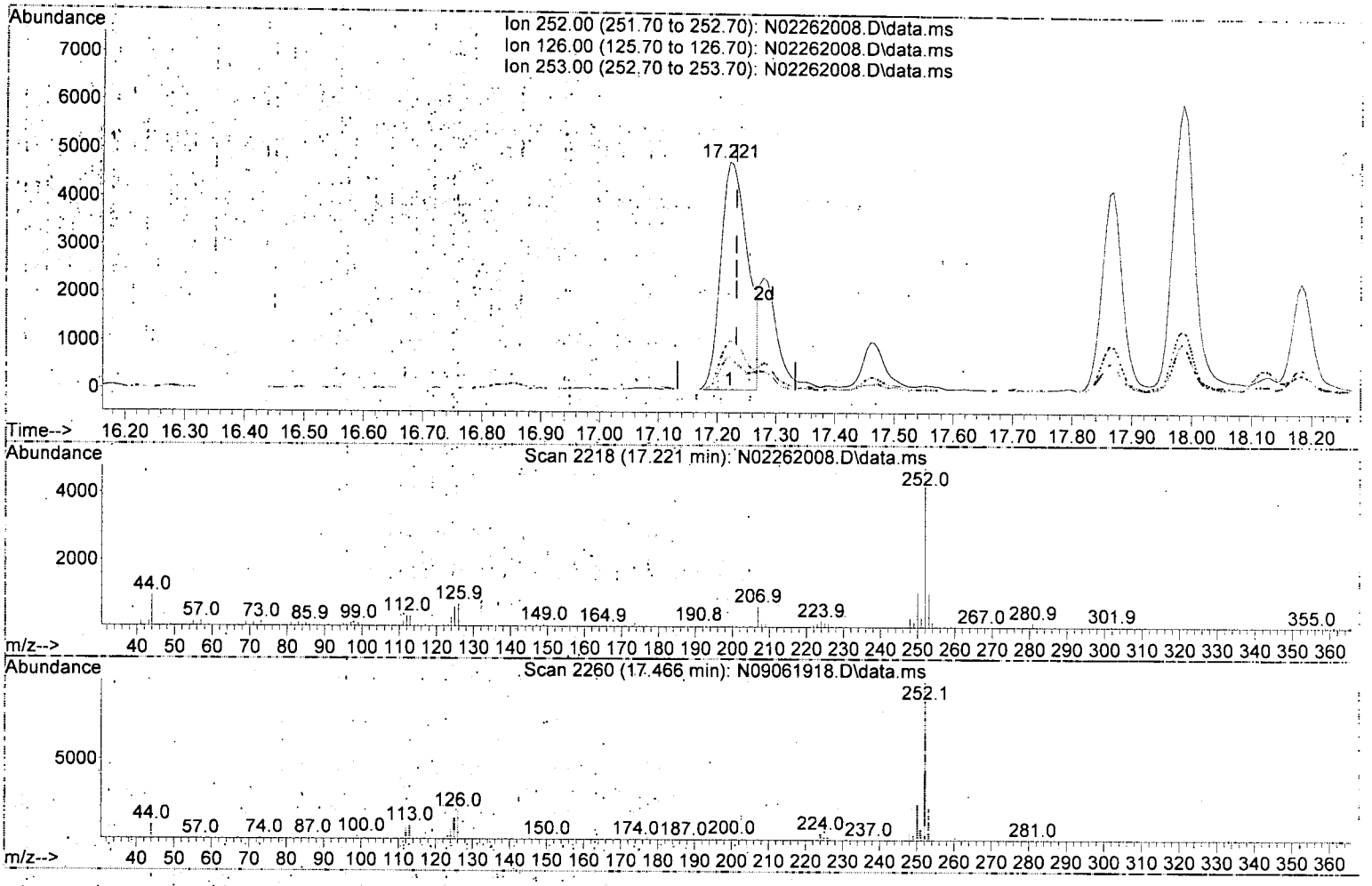

TIC: N02262008.D\data.ms

(30) Benzo(b)fluoranthene (T)

17.221min (-0.012) 8.24 ng/ml

response 15369

Ion	Exp%	Act%
252.00	100.00	100.00
126.00	20.00	14.60
253.00	21.10	21.65
0.00	0.00	0.00

Quantitation Report (Qedit)

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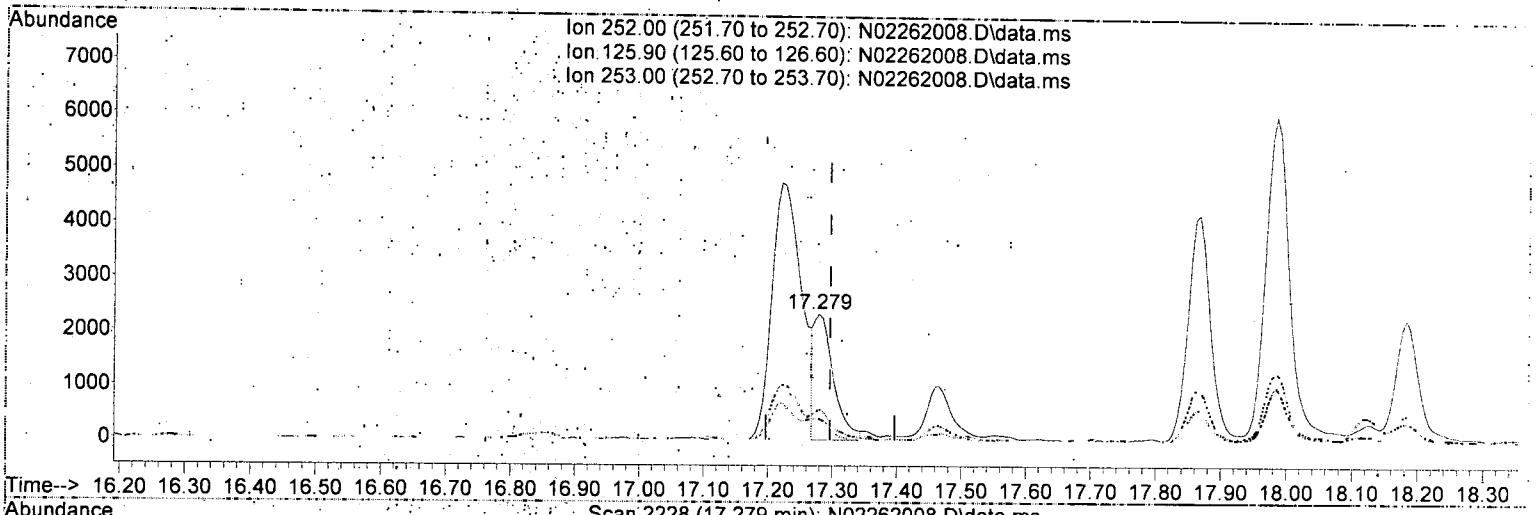

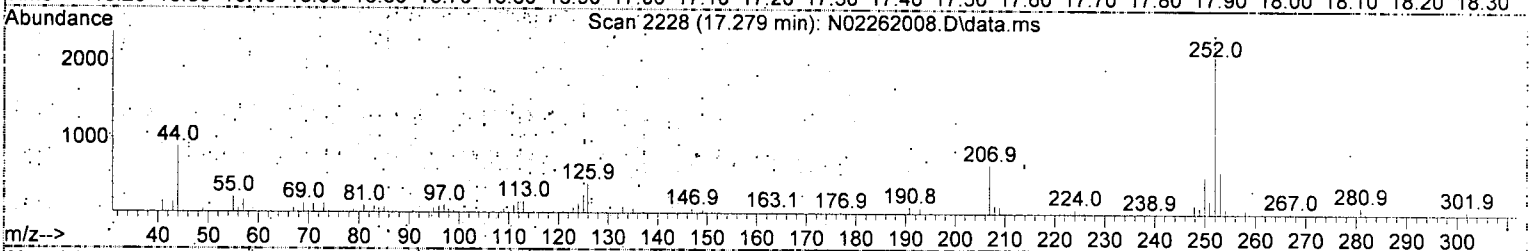

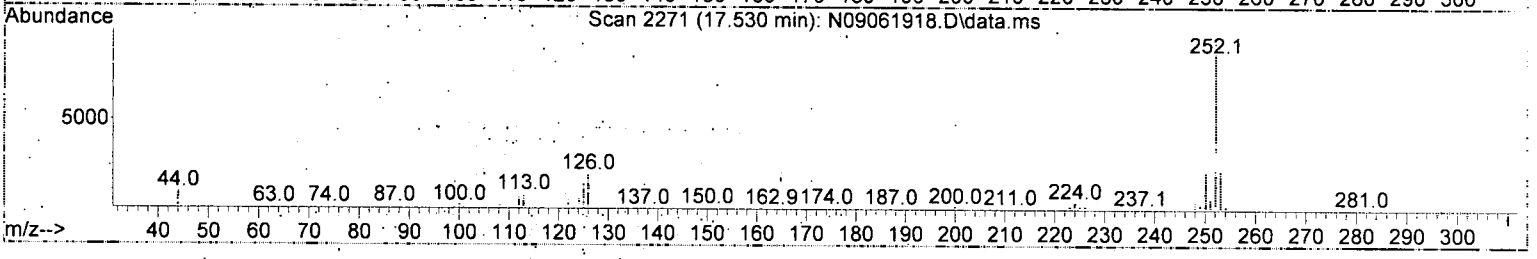

TIC: N02262008.D\data.ms

(31) Benzo(k)fluoranthene (T)

17.279min (-0.018) 2.68 ng/ml m

response 4921

Ion	Exp%	Act%
252.00	100.00	100.00
125.90	22.10	16.89
253.00	21.50	24.55
0.00	0.00	0.00

AMS 2/26/20

Quantitation Report (Qedit)

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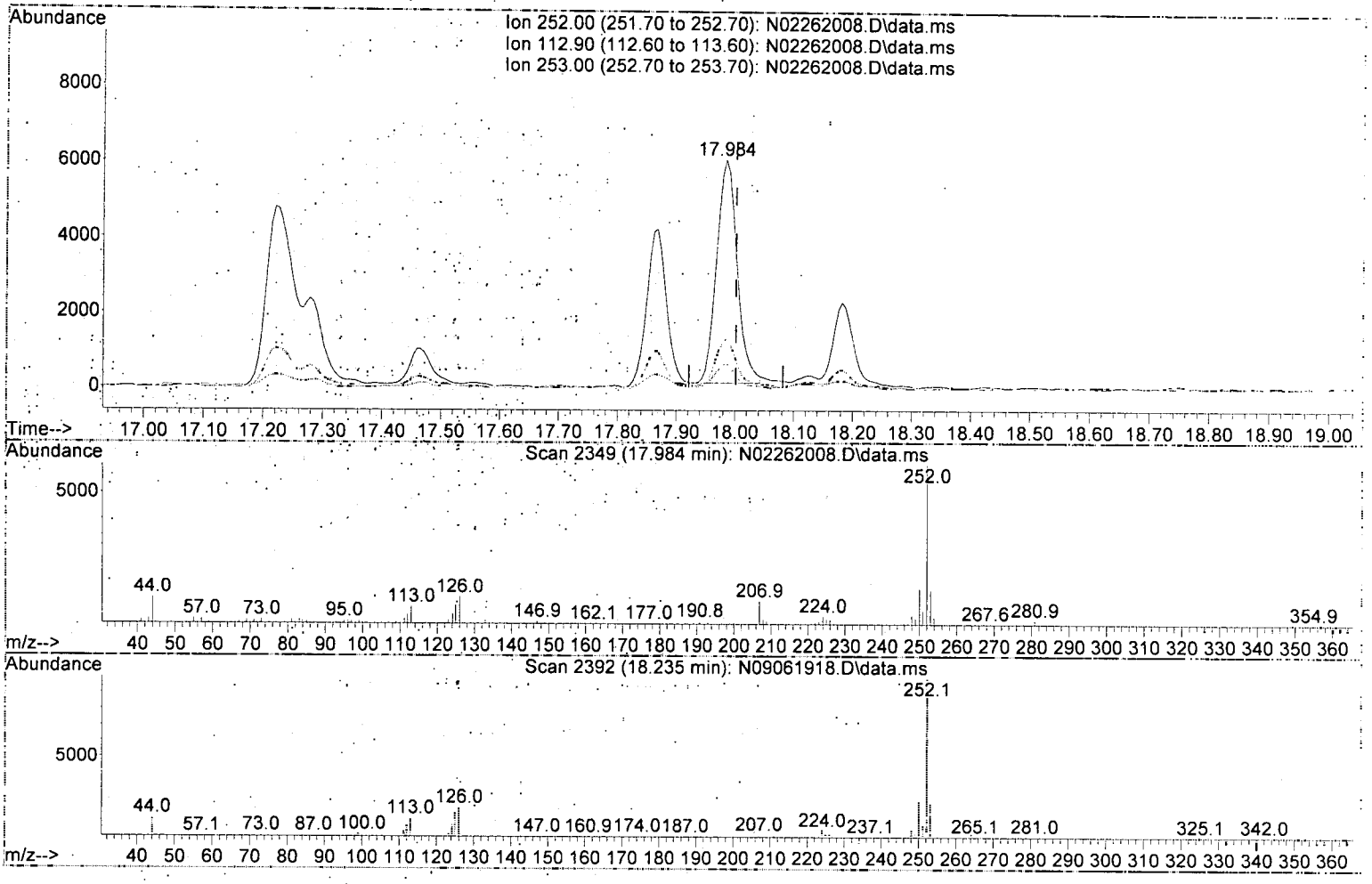

TIC: N02262008.D\data.ms

(35) Benzo(a)pyrene (T)

17.984min (-0.018) 9.11 ng/ml

response 14553

Ion	Exp%	Act%
252.00	100.00	100.00
112.90	12.70	10.84
253.00	21.90	21.57
0.00	0.00	0.00

Quantitation Report (Qedit)

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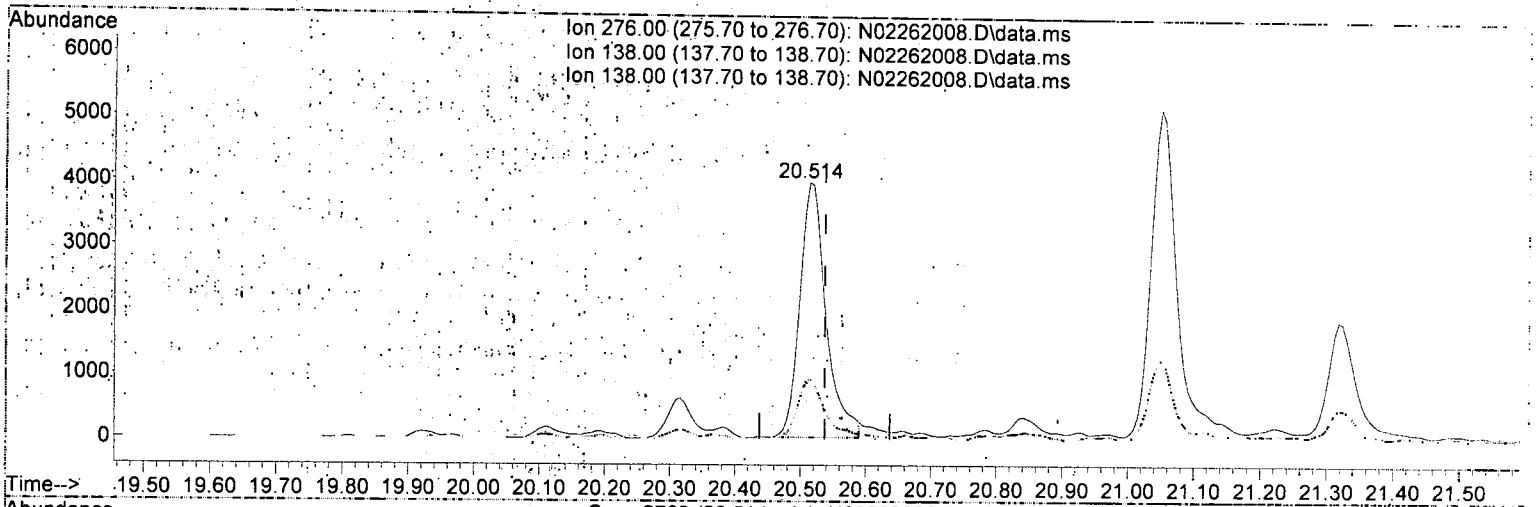
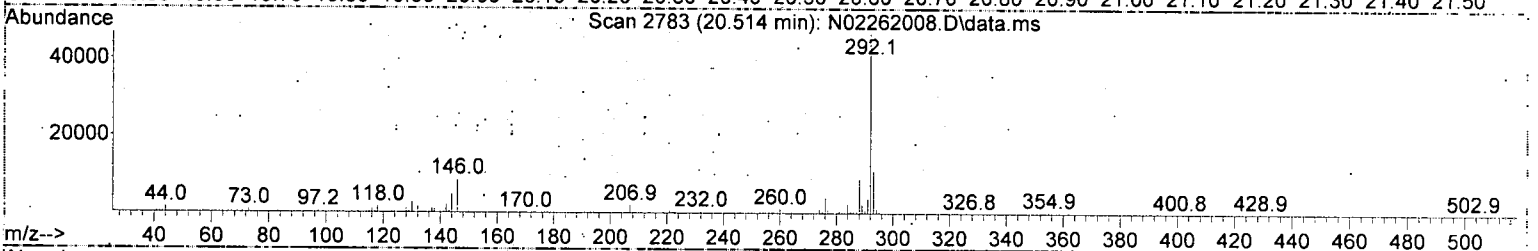
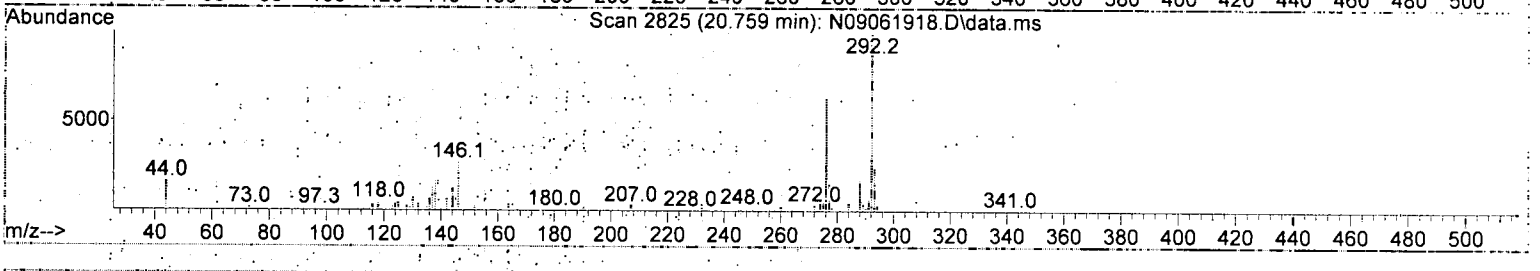






TIC: N02262008.D\data.ms

(38) Indeno(1,2,3-cd)Pyrene (T)

20.514min (-0.023) 6.94 ng/ml

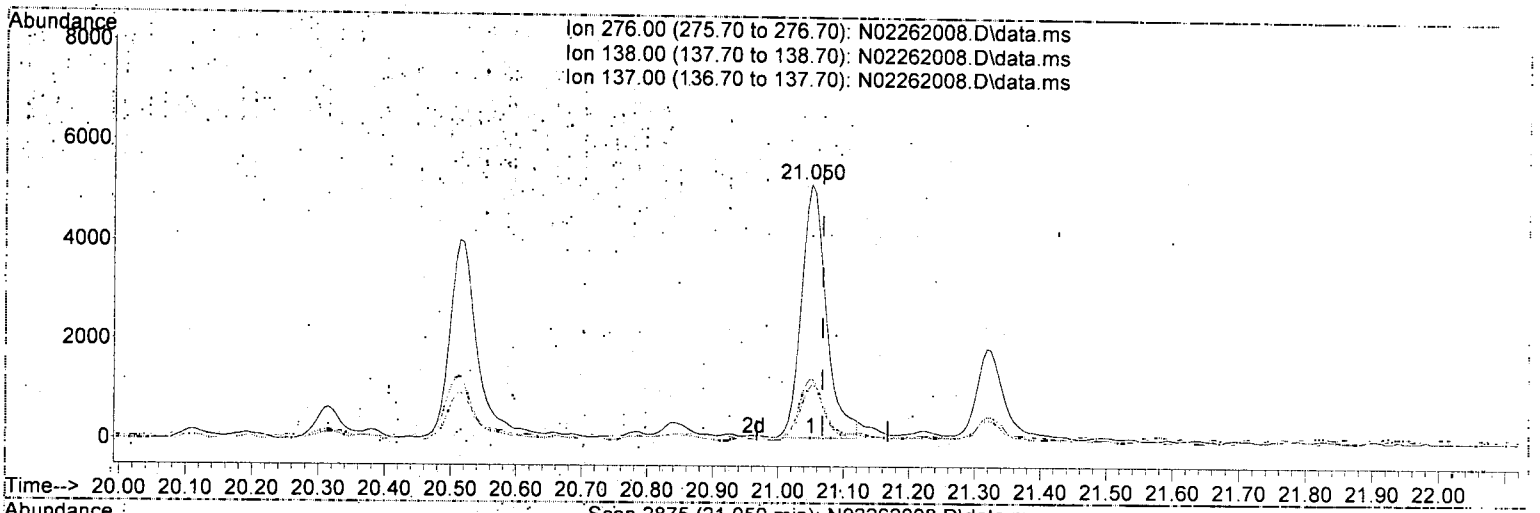
response 11156

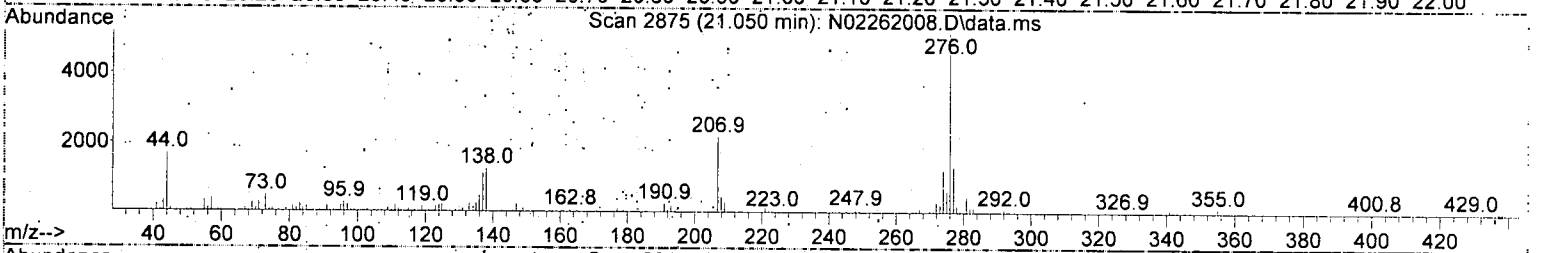
Ion	Exp%	Act%
276.00	100.00	100.00
138.00	31.60	23.53
138.00	31.60	23.53
0.00	0.00	0.00

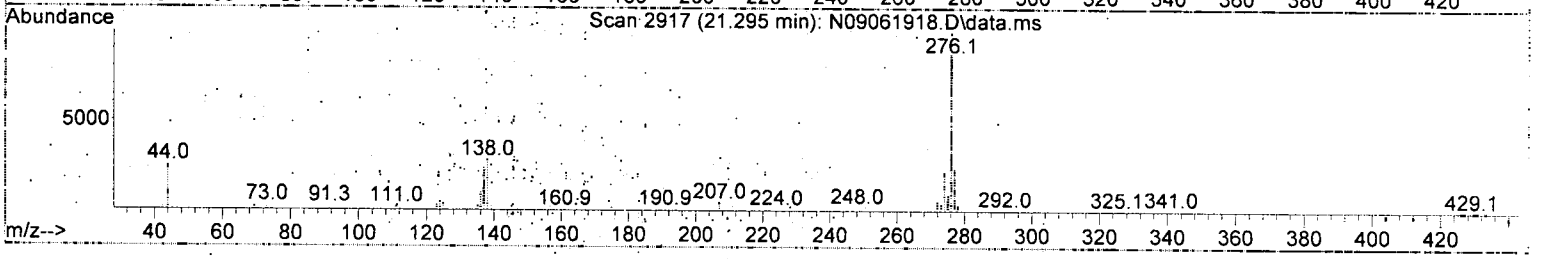
Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B26029\
Data File : N02262008.D
Acq On : 26 Feb 2020 01:28 pm
Operator : JK/ AMS/ DTH
Sample : A0B0680-05@20
Misc : 20x, 8270D LL PAH ONLY
ALS Vial : 8 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 26 15:09:47 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: N02262008.D\data.ms

(40) Benzo(g,h,i)perylene (T)

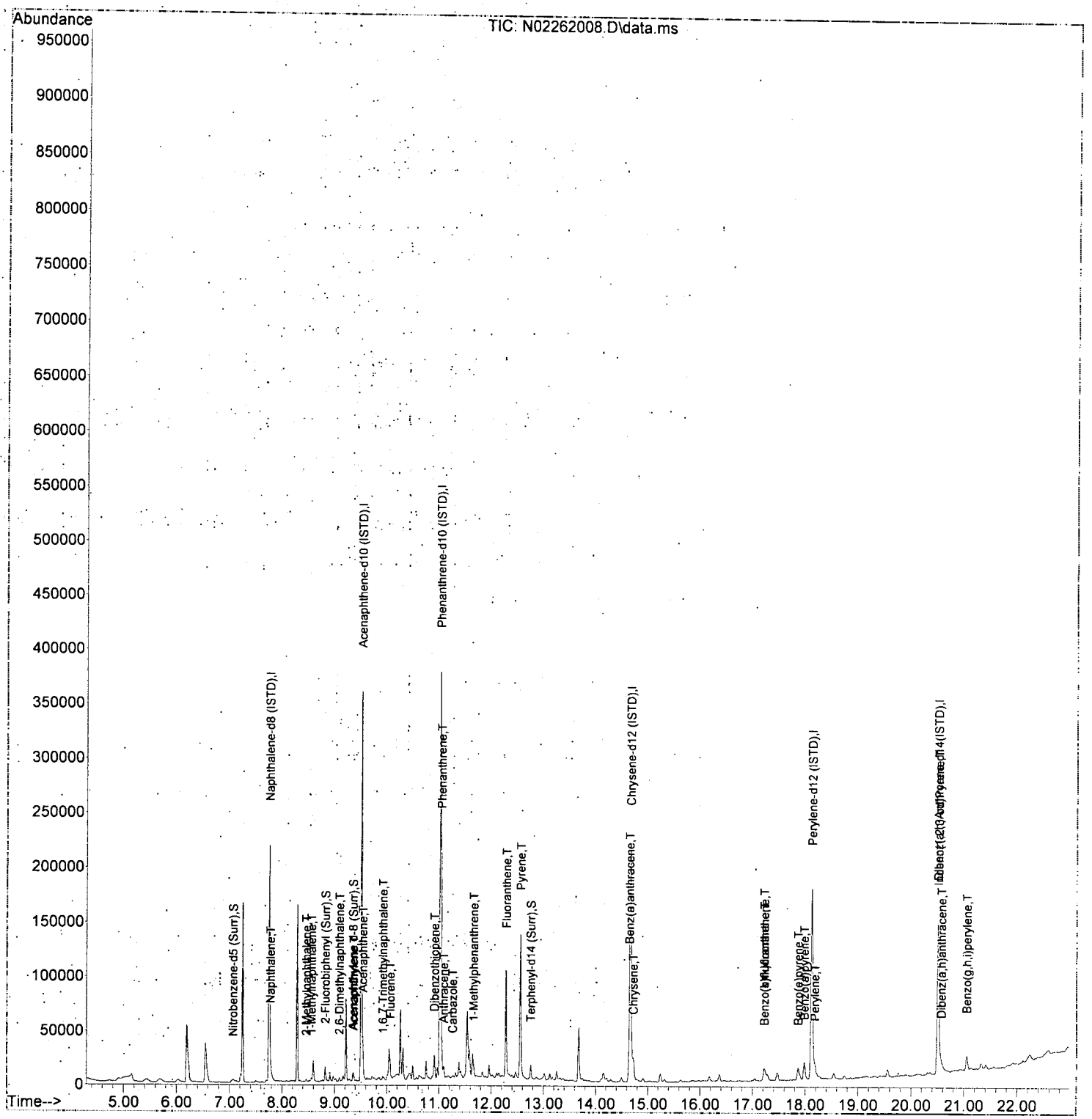
21.050min (-0.018) 7.98 ng/ml

response 13604

Ion	Exp%	Act%
276.00	100.00	100.00
138.00	21.00	24.46
137.00	18.60	21.76
0.00	0.00	0.00

Data Path : U:\data\2020-02\0B26029\
Data File : N02262008.D
Acq On : 26 Feb 2020 01:28 pm
Operator : JK/ AMS/ DTH
Sample : A0B0680-05@20
Misc : 20x, 8270D LL PAH ONLY
ALS Vial : 8 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 26 15:09:47 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\0B26029\
Data File : N02262009.D
Acq On : 26 Feb 2020 02:00 pm
Operator : JK/ AMS/ DTH
Sample : 0020782-MS1@20
Misc : 20x, 8270D LL PAH ONLY
ALS Vial : 9 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

AMS 2/26/20

Quant Time: Feb 26 15:09:52 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

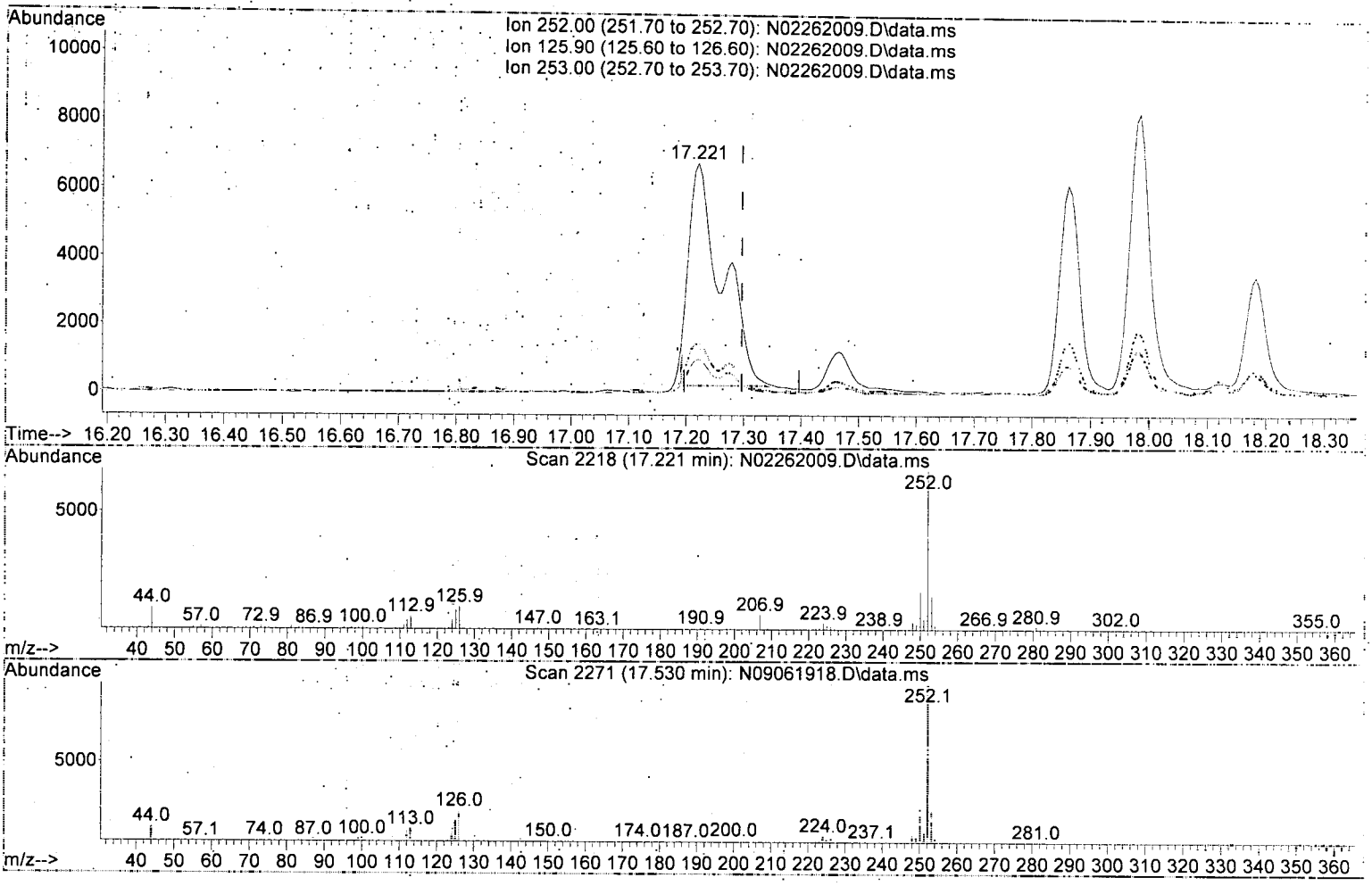
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.755	136	163467	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.503	162	101900	100.00	ng/ml	-0.01
17) Phenanthrene-d10 (ISTD)	11.013	188	173614	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.662	240	132368	100.00	ng/ml	-0.02
29) Perylene-d12 (ISTD)	18.124	264	127413	100.00	ng/ml	-0.02
37) Dibenz(a,h)Anthrcene-d...	20.508	292	102189	100.00	ng/ml	-0.02
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.085	82	2010	3.70	ng/ml	0.02
10) 2-Fluorobiphenyl (Surr)	8.821	172	6548	4.31	ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	9.352	160	8780	2.85	ng/ml	0.00
26) Terphenyl-d14 (Surr)	12.756	244	5775	4.15	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	95	0.78	ng/ml#	75
4) Naphthalene	7.778	128	9502	5.27	ng/ml	98
5) 2-Methylnaphthalene	8.460	142	2980	1.95	ng/ml	97
6) 1-Methylnaphthalene	8.559	142	3130	2.05	ng/ml	97
7) 1,1'-Biphenyl	8.926	154	3072	1.50	ng/ml	97
8) 2,6-Dimethylnaphthalene	9.084	156	2955	1.97	ng/ml	99
12) Acenaphthylene	9.364	152	6512	2.94	ng/ml	97
13) Acenaphthene	9.538	153	12363	8.53	ng/ml	99
14) Dibenzofuran	9.713	168	3203	1.76	ng/ml	91
15) 1,6,7-Trimethylnaphtha...	9.923	170	2588	2.13	ng/ml	94
16) Fluorene	10.063	166	8517	5.74	ng/ml	99
18) Dibenzothiopene	10.908	184	13908	7.66	ng/ml	98
19) Phenanthrene	11.036	178	109527	53.91	ng/ml	99
20) Anthracene	11.089	178	8551	4.53	ng/ml	98
21) Carbazole	11.258	167	2325	1.52	ng/ml	96
22) 1-Methylphenanthrene	11.660	192	8203	5.81	ng/ml	98
23) Fluoranthene	12.278	202	78014	38.11	ng/ml	97
25) Pyrene	12.558	202	96702	46.76	ng/ml	99
27) Benz(a)anthracene	14.644	228	16349	10.64	ng/ml	69
28) Chrysene	14.720	228	21854	15.03	ng/ml	99
30) Benzo(b)fluoranthene	17.221	252	19347	13.16	ng/ml	94
31) Benzo(k)fluoranthene	17.221	252	26408	18.24	ng/ml	92 MI
32) Benzo(b+k)fluoranthene	17.221	252	30532	20.30	ng/ml	92
34) Benzo(e)pyrene	17.862	252	15310	10.30	ng/ml	98
35) Benzo(a)pyrene	17.984	252	19654	15.62	ng/ml	98
36) Perylene	18.182	252	9099	5.87	ng/ml	98
38) Indeno(1,2,3-cd)Pyrene	20.514	276	16657	13.22	ng/ml	80
39) Dibenz(a,h)anthracene	20.572	278	3227	2.73	ng/ml	87
40) Benzo(g,h,i)perylene	21.050	276	20058	15.00	ng/ml	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B26029\
Data File : N02262009.D
Acq On : 26 Feb 2020 02:00 pm
Operator : JK/ AMS/ DTH
Sample : 0020782-MS1@20
Misc : 20x, 8270D LL PAH ONLY
ALS Vial : 9 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 26 15:33:51 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: N02262009.D\data.ms

(31) Benzo(k)fluoranthene (T)

17.221min (-0.076) 18.24 ng/ml

response 26408

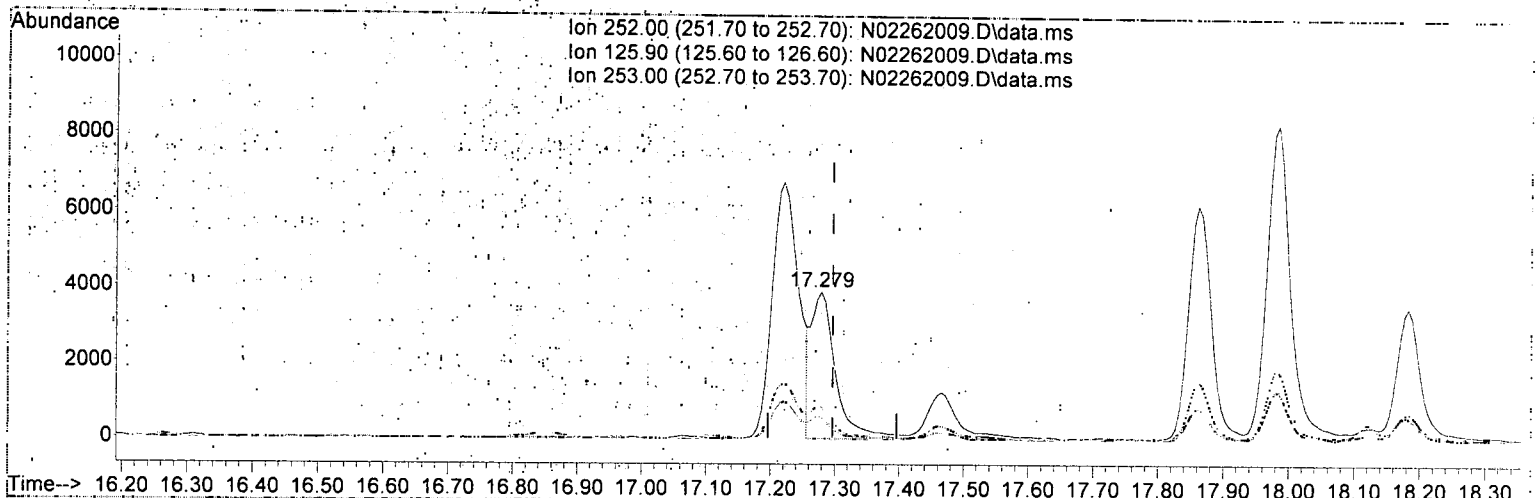
Ion	Exp%	Act%
252.00	100.00	100.00
125.90	22.10	14.53
253.00	21.50	21.44
0.00	0.00	0.00

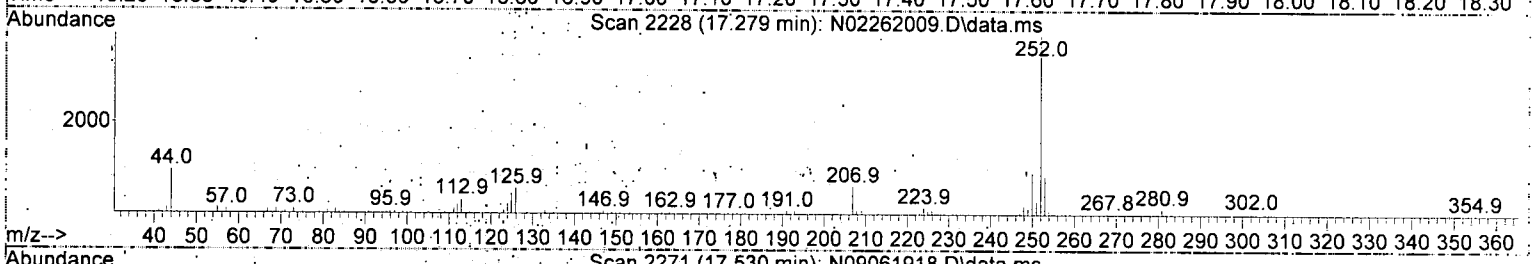
AMS 2/26/20 ✓

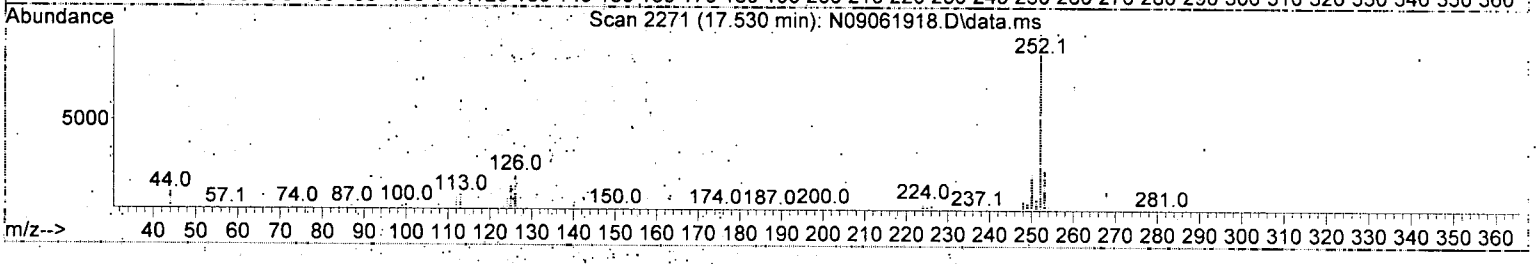
Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B26029\
Data File : N02262009.D
Acq On : 26 Feb 2020 02:00 pm
Operator : JK/ AMS/ DTH
Sample : 0020782-MS1@20
Misc : 20x, 8270D LL PAH ONLY
ALS Vial : 9 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 26 15:09:52 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: N02262009.D\data.ms

(31) Benzo(k)fluoranthene (T)

17.279min (-0.018) 6.86 ng/ml m

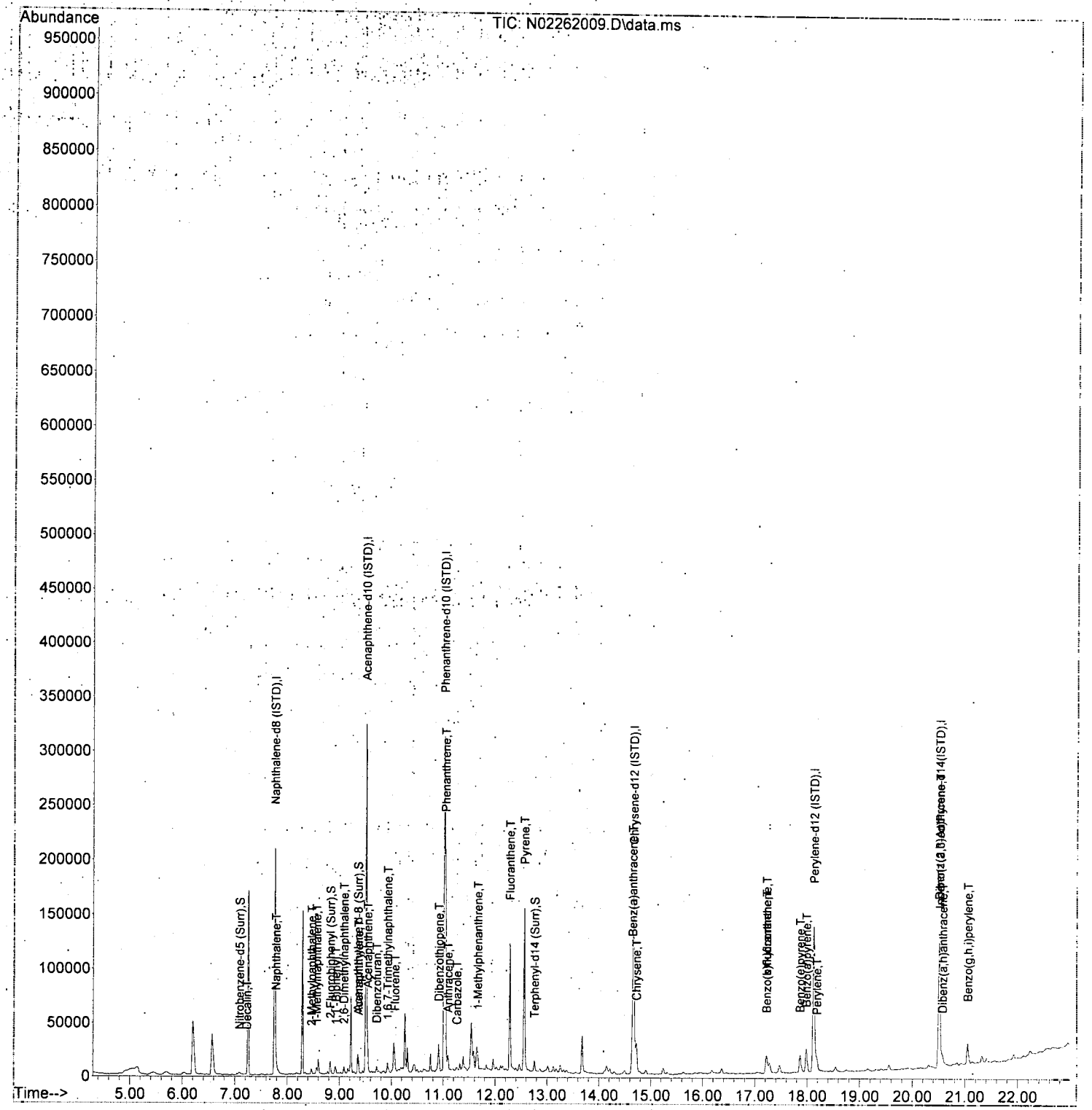
response 9935

Ion	Exp%	Act%
252.00	100.00	100.00
125.90	22.10	14.54
253.00	21.50	21.81
0.00	0.00	0.00

AMS 2/26/20

Data Path : U:\data\2020-02\0B26029\
Data File : N02262009.D
Acq On : 26 Feb 2020 02:00 pm
Operator : JK/ AMS/ DTH
Sample : 0020782-MS1@20
Misc : 20x, 8270D LL PAH ONLY
ALS Vial : 9 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 26 15:09:52 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\0B26029\
Data File : N02262010.D
Acq On : 26 Feb 2020 02:32 pm
Operator : JK/ AMS/ DTH
Sample : 0020782-MSD1@20
Misc : 20x, 8270D LL PAH ONLY
ALS Vial : 10 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 26 15:09:57 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 2/26/20

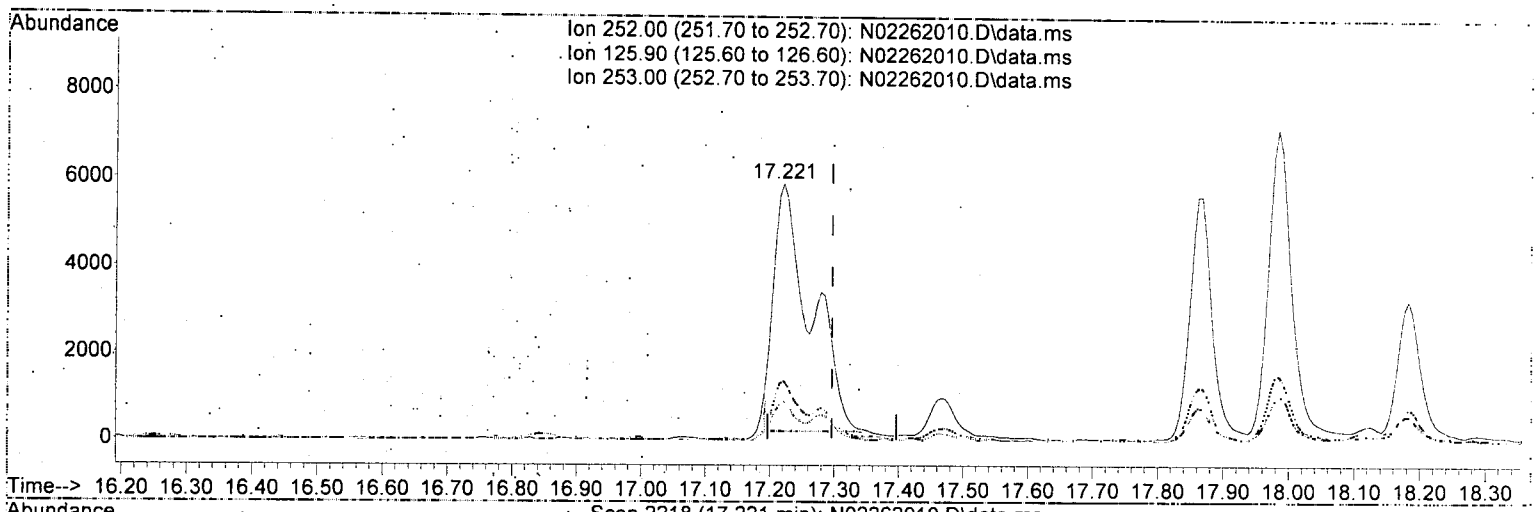
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.755	136	167947	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.504	162	107540	100.00	ng/ml	-0.01
17) Phenanthrene-d10 (ISTD)	11.013	188	185245	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.662	240	139664	100.00	ng/ml	-0.02
29) Perylene-d12 (ISTD)	18.124	264	130529	100.00	ng/ml	-0.02
37) Dibenz(a,h)Anthrcene-d...	20.508	292	100956	100.00	ng/ml	-0.02
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.073	82	2206	3.95	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.822	172	7020	4.38	ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	9.352	160	5941	1.31	ng/ml	0.00
26) Terphenyl-d14 (Surr)	12.756	244	6462	4.40	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	136	1.09	ng/ml#	75
4) Naphthalene	7.773	128	18552	10.02	ng/ml	100
5) 2-Methylnaphthalene	8.460	142	4598	2.93	ng/ml	98
6) 1-Methylnaphthalene	8.559	142	4938	3.15	ng/ml	92
7) 1,1'-Biphenyl	8.927	154	3216	1.52	ng/ml	97
8) 2,6-Dimethylnaphthalene	9.090	156	3447	2.24	ng/ml	93
12) Acenaphthylene	9.364	152	6740	2.89	ng/ml	96
13) Acenaphthene	9.539	153	19079	12.48	ng/ml	98
14) Dibenzofuran	9.719	168	4001	2.09	ng/ml	91
15) 1,6,7-Trimethylnaphtha...	9.923	170	2881	2.25	ng/ml	98
16) Fluorene	10.063	166	11322	7.24	ng/ml	98
18) Dibenzothiopene	10.908	184	16788	8.67	ng/ml	97
19) Phenanthrene	11.037	178	127916	59.01	ng/ml	100
20) Anthracene	11.089	178	10177	5.05	ng/ml	98
21) Carbazole	11.258	167	2892	1.77	ng/ml	97
22) 1-Methylphenanthrene	11.660	192	8941	5.94	ng/ml	92
23) Fluoranthene	12.278	202	80754	36.98	ng/ml	98
25) Pyrene	12.558	202	99243	45.48	ng/ml	99
27) Benz(a)anthracene	14.644	228	15067	9.29	ng/ml	77
28) Chrysene	14.720	228	19297	12.58	ng/ml	97
30) Benzo(b)fluoranthene	17.221	252	17367	11.53	ng/ml	92
31) Benzo(k)fluoranthene	~~17.221~~	~~252~~	~~22889~~	~~15.43~~	~~ng/ml~~	~~91~~ MI
32) Benzo(b+k)fluoranthene	17.221	252	26372	17.12	ng/ml	91
34) Benzo(e)pyrene	17.868	252	13580	8.92	ng/ml	95
35) Benzo(a)pyrene	17.984	252	16679	12.94	ng/ml	96
36) Perylene	18.182	252	8226	5.18	ng/ml	98
38) Indeno(1,2,3-cd)Pyrene	20.514	276	14212	11.41	ng/ml	84
39) Dibenz(a,h)anthracene	20.578	278	2635	2.25	ng/ml	90
40) Benzo(g,h,i)perylene	21.050	276	16250	12.30	ng/ml	99

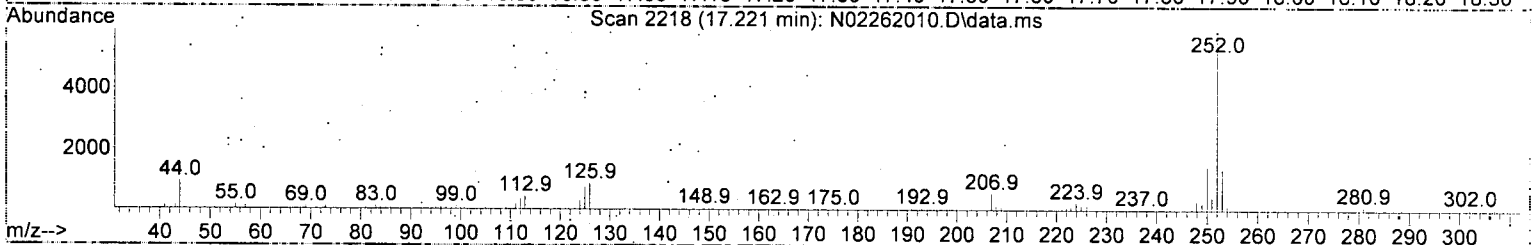
(#) = qualifier out of range (m) = manual integration (+) = signals summed

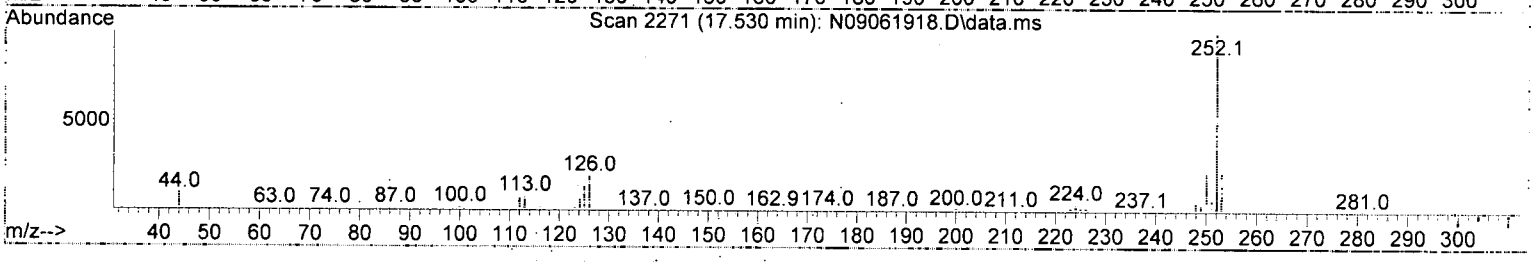
Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B26029\
Data File : N02262010.D
Acq On : 26 Feb 2020 02:32 pm
Operator : JK/ AMS/ DTH
Sample : 0020782-MSD1@20
Misc : 20x, 8270D LL PAH ONLY
ALS Vial : 10 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 26 15:34:54 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: N02262010.D\data.ms

(31) Benzo(k)fluoranthene (T)

17.221min (-0.076) 15.43 ng/ml

response 22889

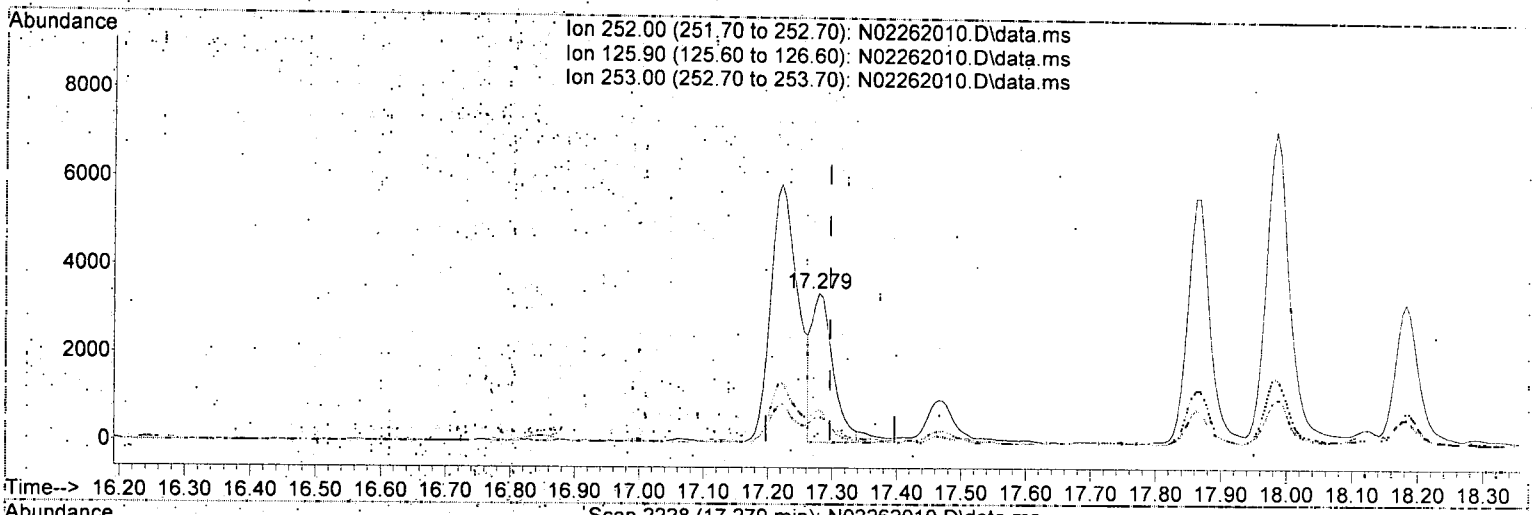
Ion	Exp%	Act%
252.00	100.00	100.00
125.90	22.10	14.94
253.00	21.50	23.14
0.00	0.00	0.00

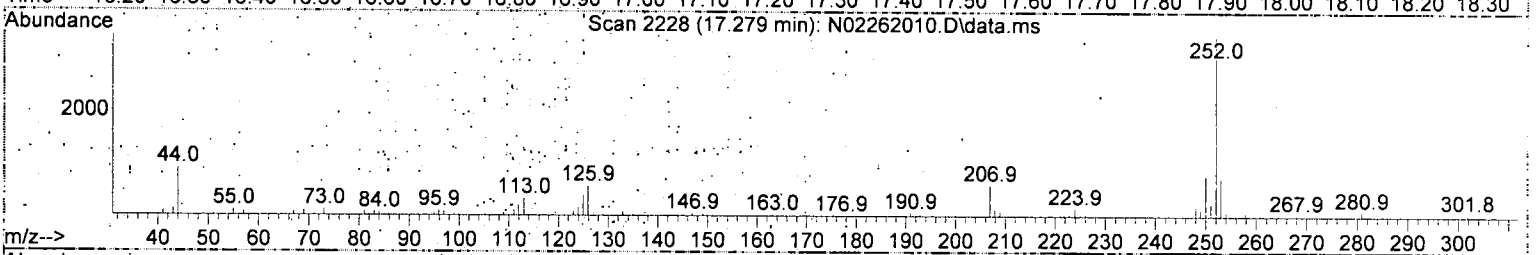
AMS 2/26/20

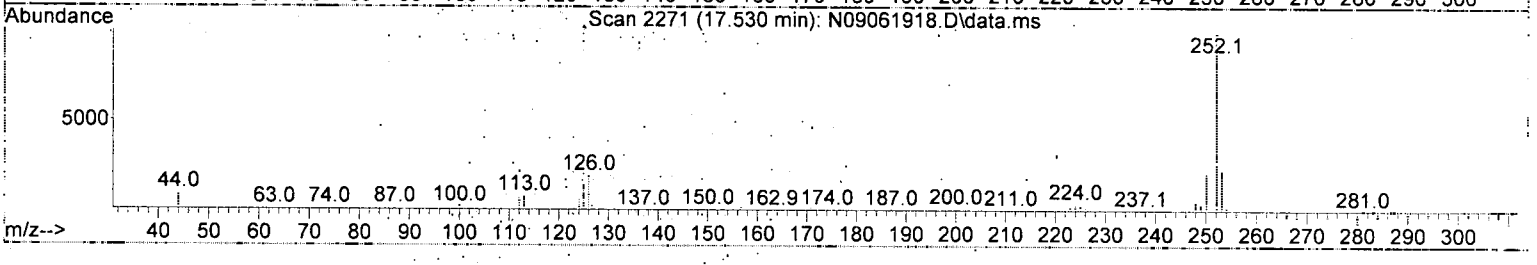
Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B26029\
Data File : N02262010.D
Acq On : 26 Feb 2020 02:32 pm
Operator : JK/ AMS/ DTH
Sample : 0020782-MSD1@20
Misc : 20x, 8270D LL PAH ONLY
ALS Vial : 10 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 26 15:09:57 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: N02262010.D\data.ms

(31) Benzo(k)fluoranthene (T)

17.279min (-0.017) 5.28 ng/ml m

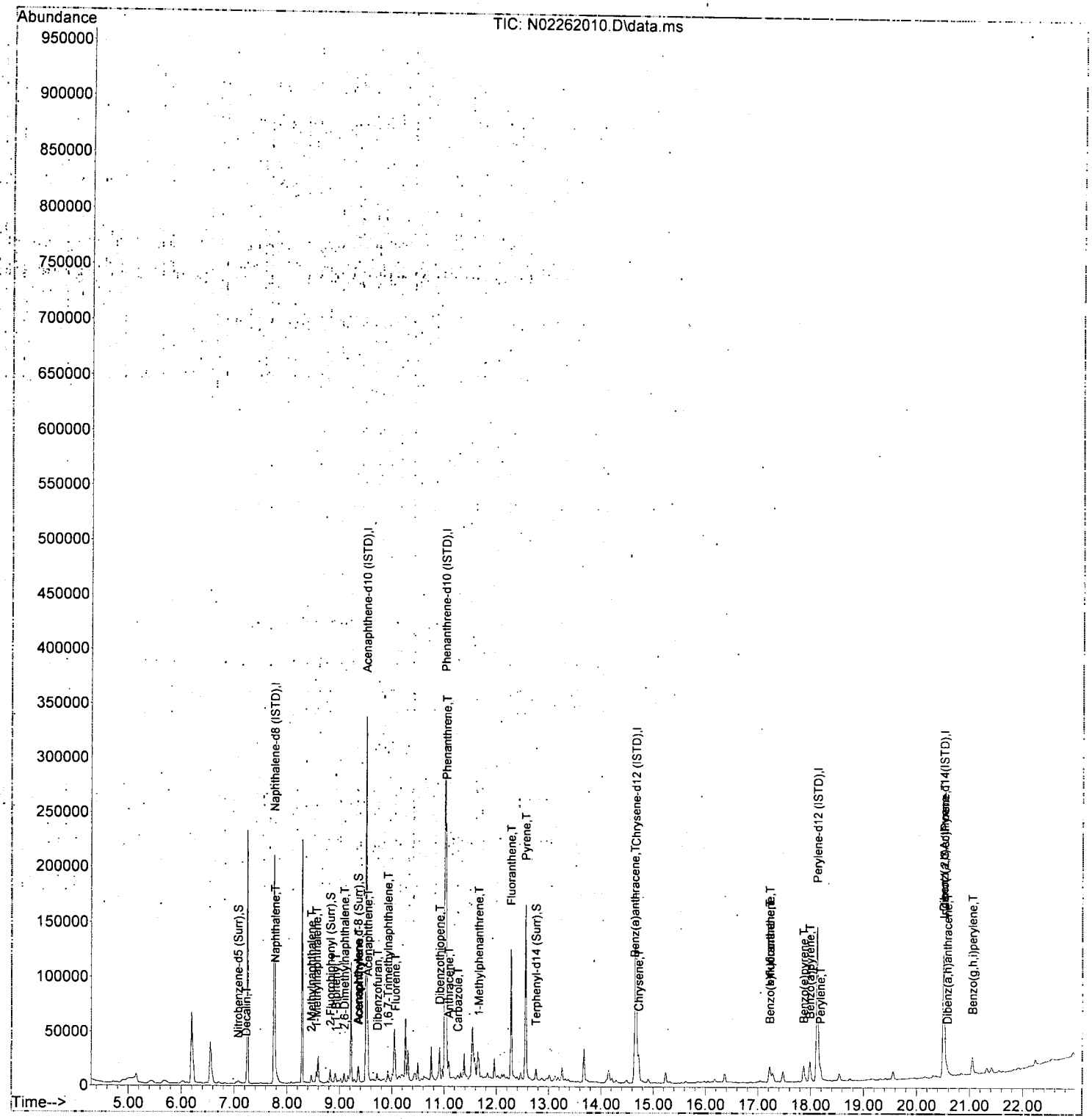
response 7832

Ion	Exp%	Act%
252.00	100.00	100.00
125.90	22.10	17.03
253.00	21.50	21.51
0.00	0.00	0.00

AMS 2/26/20 ✓

Data Path : U:\data\2020-02\0B26029\
Data File : N02262010.D
Acq On : 26 Feb 2020 02:32 pm
Operator : JK/ AMS/ DTH
Sample : 0020782-MSD1@20
Misc : 20x, 8270D LL PAH ONLY
ALS Vial : 10 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 26 15:09:57 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\0B26029\
Data File : N02262012.D
Acq On : 26 Feb 2020 03:37 pm
Operator : JK/ AMS/ DTH
Sample : 0020795-BLK1
Misc : 1x, 8270D LL PAH ONLY
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 26 16:34:44 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 2/26/20 B B02

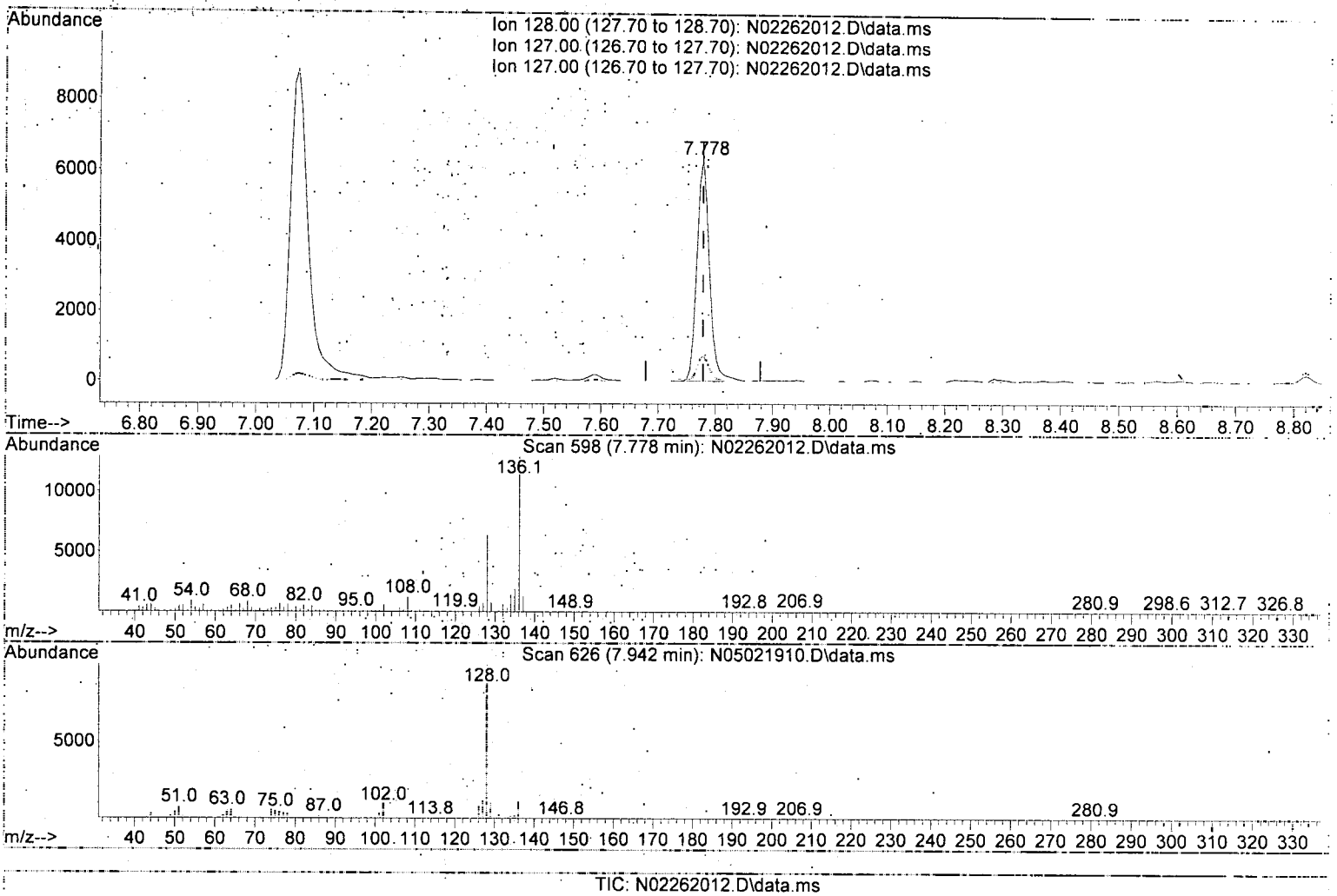
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Naphthalene-d8 (ISTD)	7.755	136	165308	100.00 ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.509	162	101530	100.00 ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.013	188	171868	100.00 ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.668	240	133083	100.00 ng/ml	-0.02
29) Perylene-d12 (ISTD)	18.124	264	125494	100.00 ng/ml	-0.02
37) Dibenz(a,h)Anthrcene-d...	20.508	292	106644	100.00 ng/ml	-0.02
System Monitoring Compounds					
2) Nitrobenzene-d5 (Surr)	7.073	82	39448	71.81 ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.821	172	129064	85.21 ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	9.352	160	9509	3.23 ng/ml	0.00
26) Terphenyl-d14 (Surr)	12.756	244	138008	98.60 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	9817	5.38 ng/ml	97 B
5) 2-Methylnaphthalene	8.460	142	1643	1.06 ng/ml	98
6) 1-Methylnaphthalene	8.559	142	1120	0.73 ng/ml	94
7) 1,1'-Biphenyl	8.926	154	677	N.D.	
8) 2,6-Dimethylnaphthalene	9.090	156	618	0.41 ng/ml	74
12) Acenaphthylene	9.363	152	637	N.D.	
13) Acenaphthene	9.538	153	1731	1.20 ng/ml	99
14) Dibenzofuran	9.719	168	226	N.D.	
15) 1,6,7-Trimethylnaphtha...	9.929	170	224	N.D.	
16) Fluorene	10.063	166	929	0.63 ng/ml	98
18) Dibenzothiopene	10.908	184	861	0.48 ng/ml	86
19) Phenanthrene	11.036	178	7363	3.66 ng/ml	100 B02
20) Anthracene	11.089	178	830	0.44 ng/ml	90
21) Carbazole	11.264	167	82	N.D.	
22) 1-Methylphenanthrene	11.660	192	688	0.49 ng/ml	90
23) Fluoranthene	12.284	202	3804	1.88 ng/ml	94
25) Pyrene	12.558	202	4334	2.08 ng/ml	98
27) Benz(a)anthracene	14.656	228	1083	0.70 ng/ml	86
28) Chrysene	14.726	228	1059	0.72 ng/ml	89
30) Benzo(b)fluoranthene	17.232	252	1276	0.88 ng/ml	77
31) Benzo(k)fluoranthene	17.232	252	1394	0.98 ng/ml	75
32) Benzo(b+k)fluoranthene	17.232	252	1418	0.96 ng/ml	75
34) Benzo(e)pyrene	17.867	252	810	0.55 ng/ml	93
35) Benzo(a)pyrene	17.990	252	583	0.47 ng/ml	89
36) Perylene	18.188	252	166	N.D.	
38) Indeno(1,2,3-cd)Pyrene	20.514	276	854	0.65 ng/ml	83
39) Dibenz(a,h)anthracene	20.578	278	84	N.D.	
40) Benzo(g,h,i)perylene	21.056	276	1072	0.77 ng/ml	87

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B26029\
Data File : N02262012.D
Acq On : 26 Feb 2020 03:37 pm
Operator : JK/ AMS/ DTH
Sample : 0020795-BLK1
Misc : 1x, 8270D LL PAH ONLY
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 26 16:34:44 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: N02262012.D\data.ms

(4) Naphthalene (T)

7.778min (-0.000) 5.38 ng/ml B

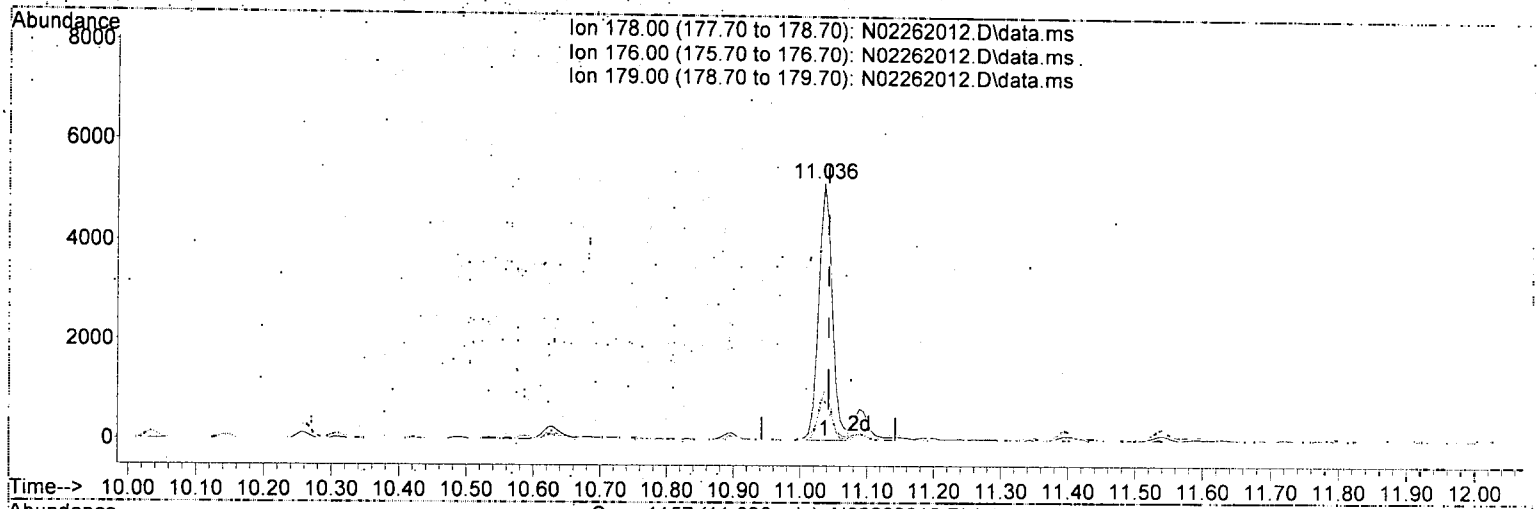
response 9817

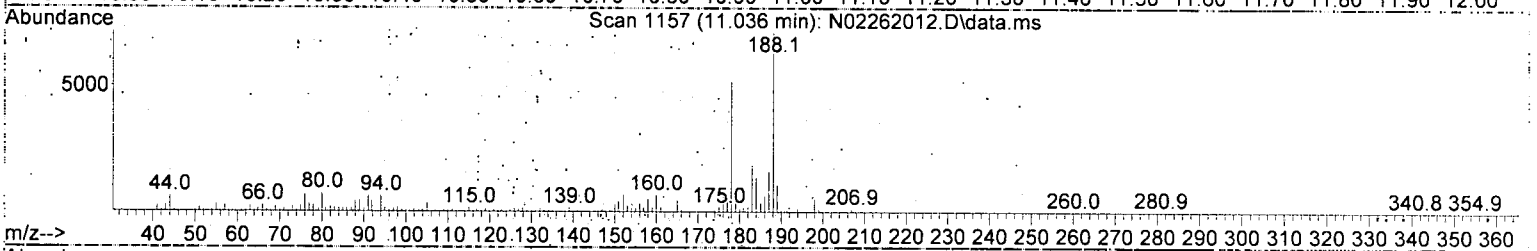
Ion	Exp%	Act%
128.00	100.00	100.00
127.00	12.60	11.49
127.00	12.60	11.49
0.00	0.00	0.00

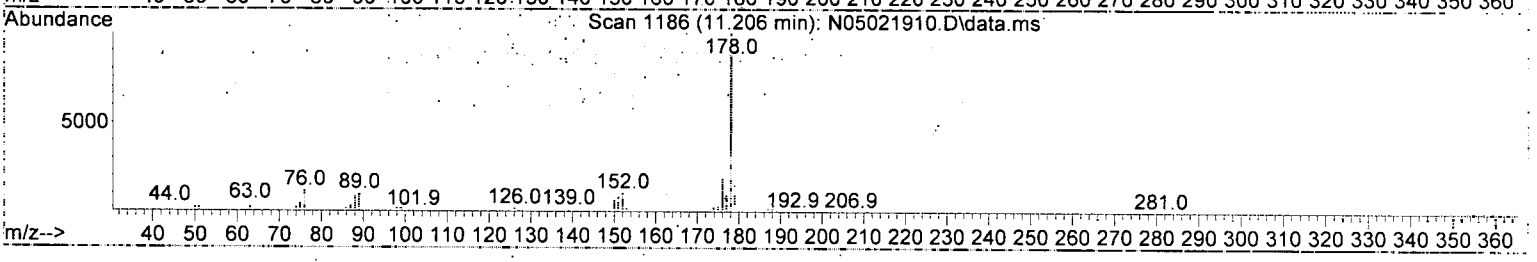
Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B26029\
Data File : N02262012.D
Acq On : 26 Feb 2020 03:37 pm
Operator : JK/ AMS/ DTH
Sample : 0020795-BLK1
Misc : 1x, 8270D LL PAH ONLY
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 26 16:34:44 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: N02262012.D\data.ms

(19) Phenanthrene (T)

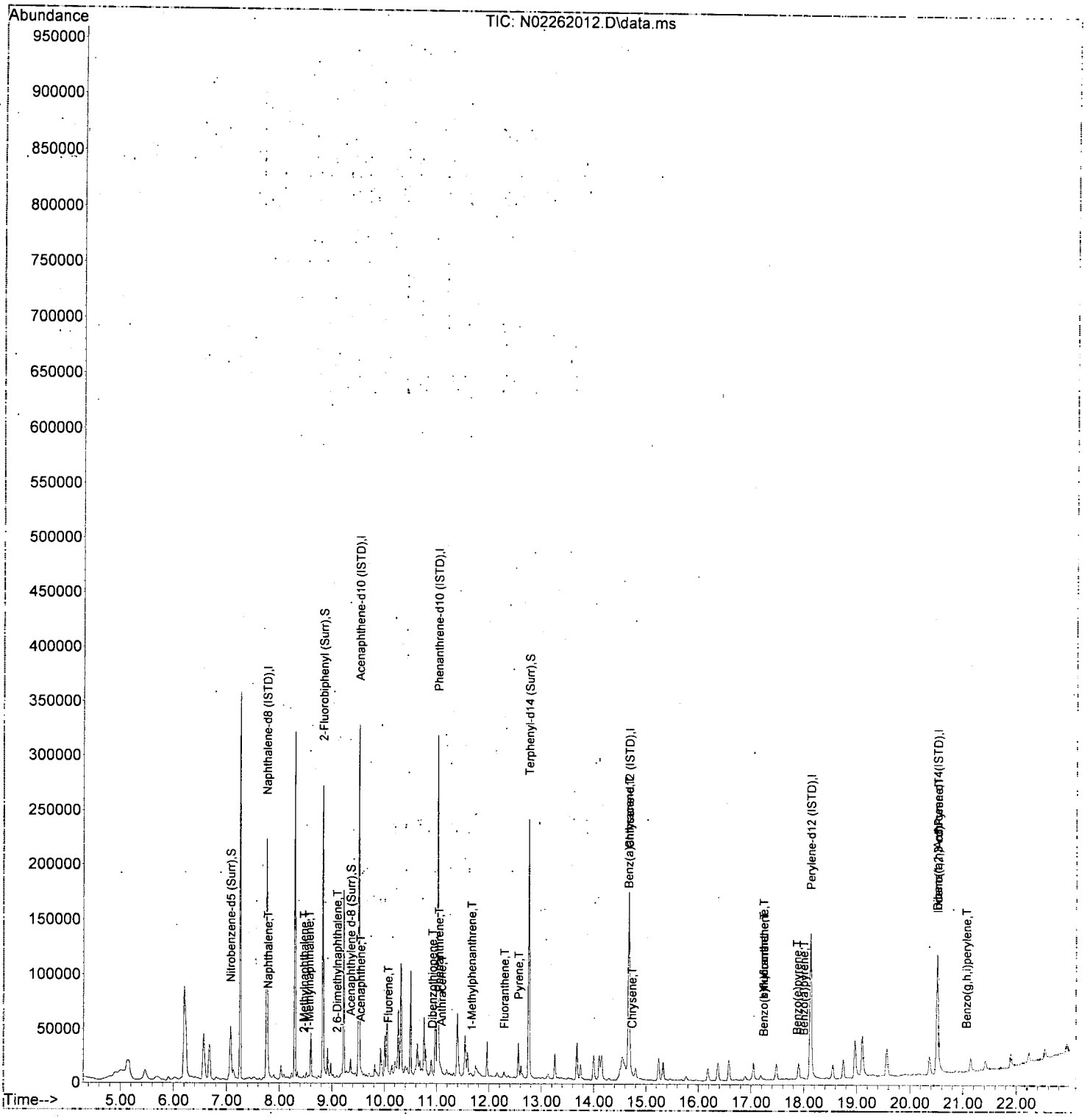
11.036min (-0.006) 3.66 ng/ml BOZ

response 7363

Ion	Exp%	Act%
178.00	100.00	100.00
176.00	19.00	19.13
179.00	15.10	15.36
0.00	0.00	0.00

Data Path : U:\data\2020-02\0B26029\
Data File : N02262012.D
Acq On : 26 Feb 2020 03:37 pm
Operator : JK/ AMS/ DTH
Sample : 0020795-BLK1
Misc : 1x, 8270D LL PAH ONLY
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 26 16:34:44 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\0B26029\
Data File : N02262013.D
Acq On : 26 Feb 2020 04:09 pm
Operator : JK/ AMS/ DTH
Sample : 0020795-BS1
Misc : 1x, 8270D LL PAH ONLY
ALS Vial : 13 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 26 16:34:51 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

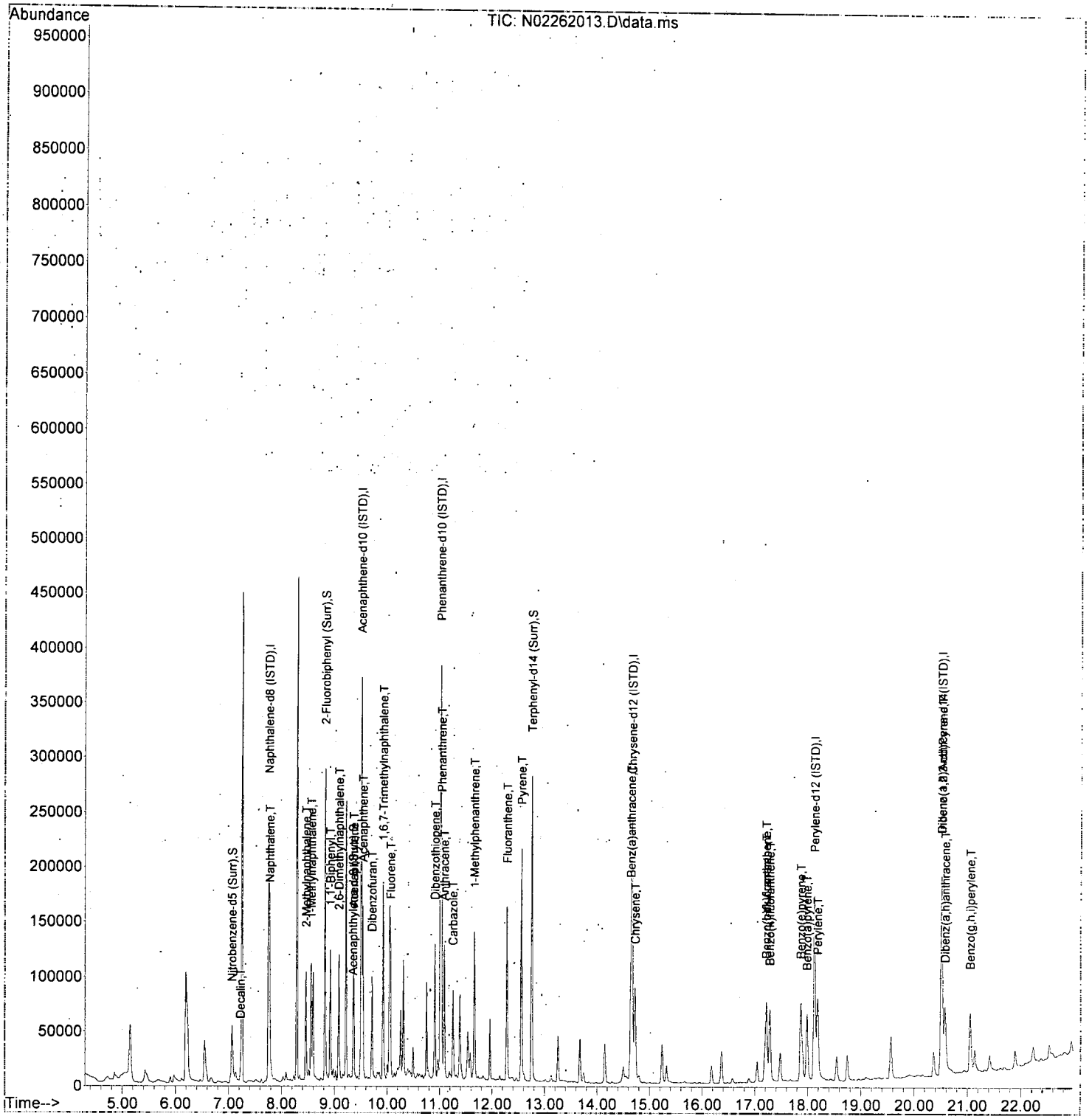
DTH 2/26/20

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.755	136	172055	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.504	162	114248	100.00	ng/ml	-0.01
17) Phenanthrene-d10 (ISTD)	11.013	188	203386	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.662	240	167514	100.00	ng/ml	-0.02
29) Perylene-d12 (ISTD)	18.124	264	155833	100.00	ng/ml	-0.02
37) Dibenz(a,h)Anthrcene-d...	20.508	292	123132	100.00	ng/ml	-0.02
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.061	82	40565	70.95	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.822	172	135848	79.70	ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	9.352	160	4677	0.59	ng/ml	0.00
26) Terphenyl-d14 (Surr)	12.756	244	159727	90.66	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	1648	12.87	ng/ml	88
4) Naphthalene	7.772	128	72521	38.22	ng/ml	99
5) 2-Methylnaphthalene	8.460	142	46553	28.95	ng/ml	97
6) 1-Methylnaphthalene	8.559	142	46959	29.21	ng/ml	96
7) 1,1'-Biphenyl	8.921	154	56990	26.35	ng/ml	98
8) 2,6-Dimethylnaphthalene	9.084	156	41498	26.27	ng/ml	100
12) Acenaphthylene	9.364	152	75159	30.30	ng/ml	99
13) Acenaphthene	9.539	153	56659	34.88	ng/ml	99
14) Dibenzofuran	9.713	168	60649	29.81	ng/ml	97
15) 1,6,7-Trimethylnaphtha...	9.923	170	41954	30.79	ng/ml	94
16) Fluorene	10.063	166	54431	32.74	ng/ml	98
18) Dibenzothiopene	10.908	184	72063	33.88	ng/ml	96
19) Phenanthrene	11.036	178	119369	50.16	ng/ml	99
20) Anthracene	11.089	178	73751	33.32	ng/ml	100
21) Carbazole	11.252	167	57502	32.10	ng/ml	99
22) 1-Methylphenanthrene	11.660	192	60566	36.63	ng/ml	98
23) Fluoranthene	12.284	202	108061	45.07	ng/ml	96
25) Pyrene	12.558	202	113001	43.18	ng/ml	99
27) Benz(a)anthracene	14.644	228	67704	34.81	ng/ml	99
28) Chrysene	14.726	228	68711	37.33	ng/ml	100
30) Benzo(b)fluoranthene	17.215	252	65837	36.61	ng/ml	94
31) Benzo(k)fluoranthene	17.279	252	63349	35.78	ng/ml	93
32) Benzo(b+k)fluoranthene	17.215	252	136022	73.96	ng/ml	92
34) Benzo(e)pyrene	17.868	252	65576	36.07	ng/ml	97
35) Benzo(a)pyrene	17.984	252	55224	35.88	ng/ml	96
36) Perylene	18.182	252	68491	36.13	ng/ml	100
38) Indeno(1,2,3-cd)Pyrene	20.514	276	52594	34.63	ng/ml	83
39) Dibenz(a,h)anthracene	20.578	278	52664	36.91	ng/ml	84
40) Benzo(g,h,i)perylene	21.050	276	57196	35.50	ng/ml	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : U:\data\2020-02\0B26029\
Data File : N02262013.D
Acq On : 26 Feb 2020 04:09 pm
Operator : JK/ AMS/ DTH
Sample : 0020795-BS1
Misc : 1x, 8270D LL PAH ONLY
ALS Vial : 13 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 26 16:34:51 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\0B26029\
Data File : N02262024.D
Acq On : 26 Feb 2020 10:01 pm
Operator : JK/ AMS/ DTH
Sample : 0020795-MSD1@100000
Misc : 100000x, 8270D LL PAH ONLY
ALS Vial : 24 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

AMS 2/27/20

Quant Time: Feb 27 08:37:36 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	171288	100.00	ng/ml	-0.01
9) Acenaphthene-d10 (ISTD)	9.504	162	108460	100.00	ng/ml	-0.01
17) Phenanthrene-d10 (ISTD)	11.007	188	180058	100.00	ng/ml	-0.01
24) Chrysene-d12 (ISTD)	14.662	240	127723	100.00	ng/ml	-0.02
29) Perylene-d12 (ISTD)	18.118	264	119196	100.00	ng/ml	-0.02
37) Dibenz(a,h)Anthrcene-d..	20.508	292	88093	100.00	ng/ml	-0.02
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	0.000	82	0	0.00	ng/ml	
10) 2-Fluorobiphenyl (Surr)	0.000	172	0	0.00	ng/ml	
11) Acenaphthylene d-8 (Surr)	9.346	160	6006	1.31	ng/ml	-0.01
26) Terphenyl-d14 (Surr)	0.000	244	0	0.00	ng/ml	
33) Benzo(a)pyrene d-12 (S..	0.000	264	0	0.00	ng/ml	
Target Compounds						Qvalue
3) Decalin	0.000		0	N.D.		
4) Naphthalene	7.772	128	165915	87.82	ng/ml	99
5) 2-Methylnaphthalene	8.454	142	36030	22.51	ng/ml	98
6) 1-Methylnaphthalene	8.554	142	20559	12.84	ng/ml	98
7) 1,1'-Biphenyl	8.921	154	13862	6.44	ng/ml	97
8) 2,6-Dimethylnaphthalene	9.090	156	4959	3.15	ng/ml	93
12) Acenaphthylene	9.364	152	4897	2.08	ng/ml	95
13) Acenaphthene	9.533	153	21939	14.23	ng/ml	98
14) Dibenzofuran	9.713	168	2359	1.22	ng/ml	91
15) 1,6,7-Trimethylnaphtha..	9.917	170	985	0.76	ng/ml	83
16) Fluorene	10.063	166	11395	7.22	ng/ml	95
18) Dibenzothiopene	10.908	184	8421	4.47	ng/ml	94
19) Phenanthrene	11.031	178	73240	34.76	ng/ml	99
20) Anthracene	11.089	178	9641	4.92	ng/ml	99
21) Carbazole	11.264	167	1185	0.75	ng/ml	82
22) 1-Methylphenanthrene	11.660	192	3022	2.06	ng/ml	89
23) Fluoranthene	12.278	202	33292	15.68	ng/ml	97
25) Pyrene	12.558	202	40424	20.26	ng/ml	99
27) Benz(a)anthracene	14.639	228	5190	3.50	ng/ml#	53
28) Chrysene	14.720	228	5809	4.14	ng/ml	99
30) Benzo(b)fluoranthene	17.221	252	5302	3.85	ng/ml	94
31) Benzo(k)fluoranthene	17.221	252	6624	4.89	ng/ml	92
32) Benzo(b+k)fluoranthene	17.221	252	7494	5.33	ng/ml	92
34) Benzo(e)pyrene	17.862	252	3681	2.65	ng/ml	96
35) Benzo(a)pyrene	17.984	252	5164	4.39	ng/ml	96
36) Perylene	18.177	252	1748	1.21	ng/ml	99
38) Indeno(1,2,3-cd)Pyrene	20.514	276	3590	3.30	ng/ml	98
39) Dibenz(a,h)anthracene	20.578	278	469	0.46	ng/ml	85
40) Benzo(g,h,i)perylene	21.050	276	4484	3.89	ng/ml	94

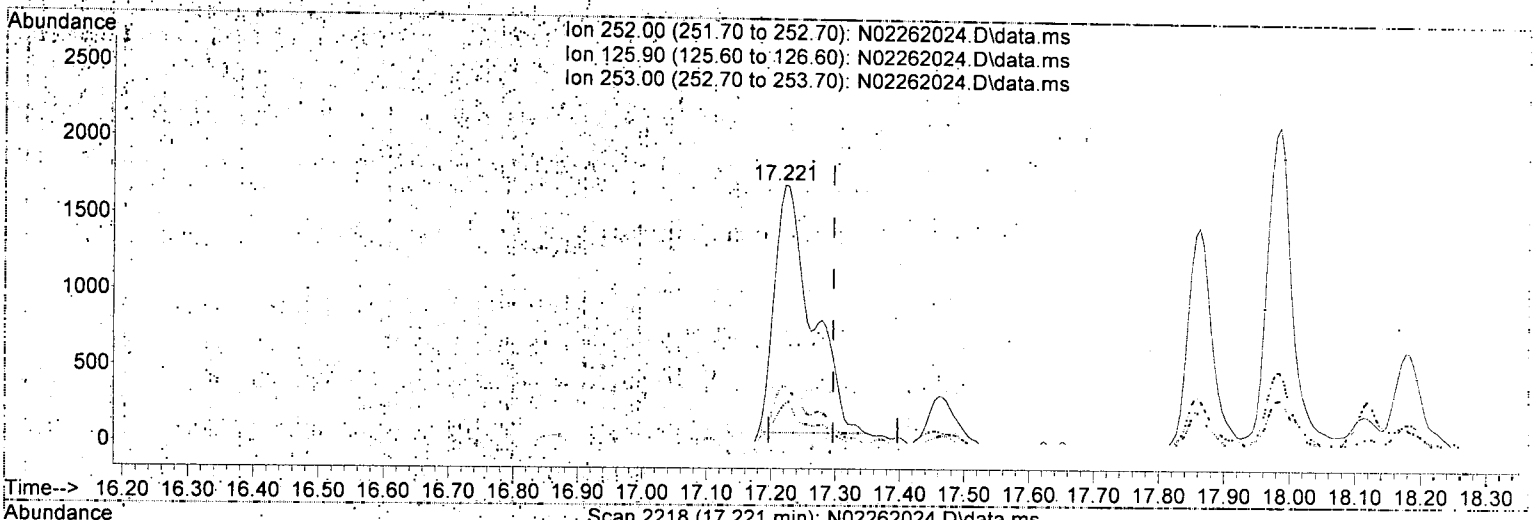
MI- ND

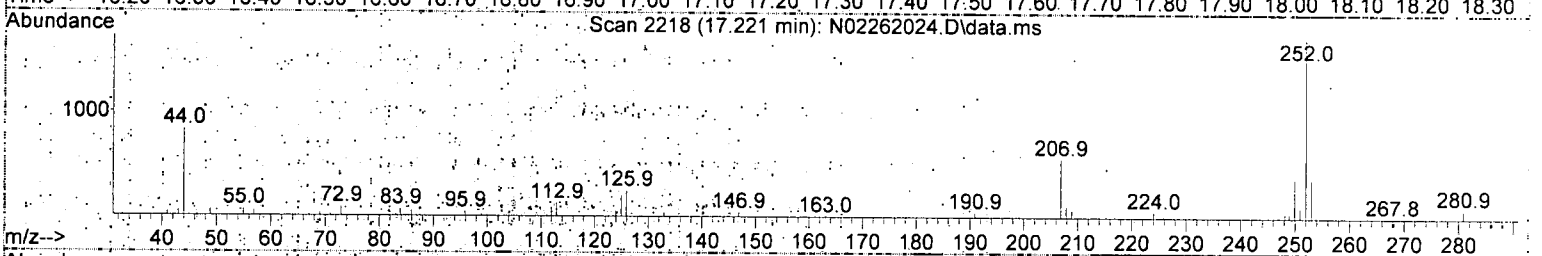
(#) = qualifier out of range (m) = manual integration (+) = signals summed

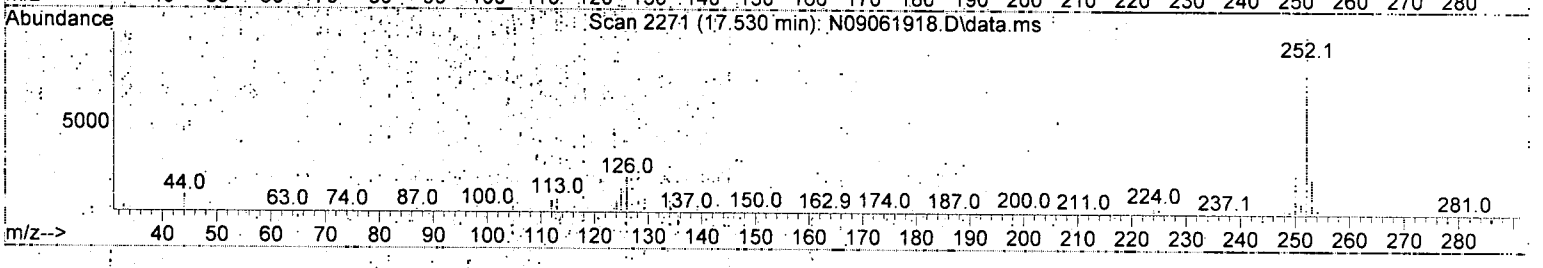
Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B26029\
Data File : N02262024.D
Acq On : 26 Feb 2020 10:01 pm
Operator : JK/ AMS/ DTH
Sample : 0020795-MSD1@100000
Misc : 100000x, 8270D LL PAH ONLY
ALS Vial : 24 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 27 08:37:36 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: N02262024.D\data.ms

(31) Benzo(k)fluoranthene (T)

17.221min (-0.076) 4.89 ng/ml

response 6624

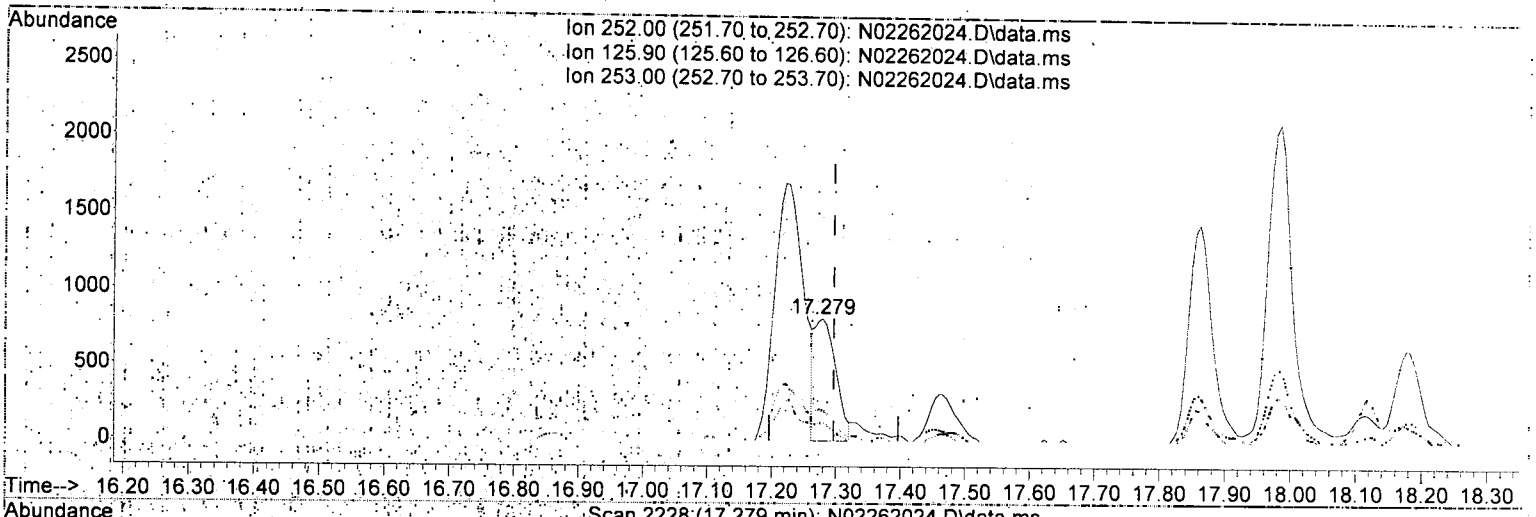
Ion	Exp%	Act%
252.00	100.00	100.00
125.90	22.10	15.40
253.00	21.50	22.31
0.00	0.00	0.00

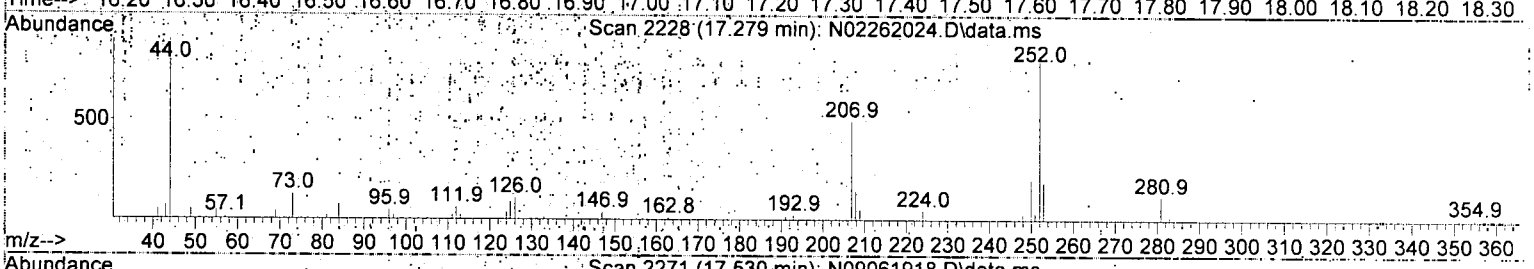
AMS 2/27/20 ✓

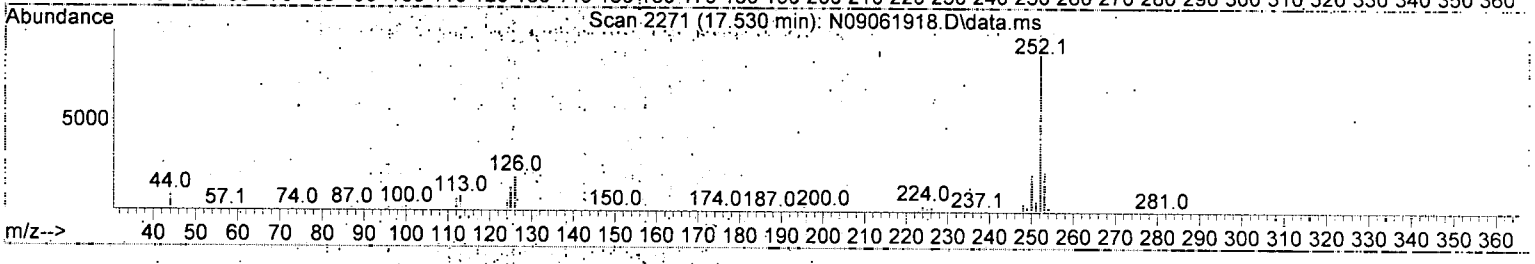
Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B26029\
Data File : N02262024.D
Acq On : 26 Feb 2020 10:01 pm
Operator : JK/ AMS/ DTH
Sample : 0020795-MSD1@100000
Misc : 100000x, 8270D LL PAH ONLY
ALS Vial : 24 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 27 08:37:36 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: N02262024.D\data.ms

(31) Benzo(k)fluoranthene (T)

17.279min (-0.018) 1.38 ng/ml m

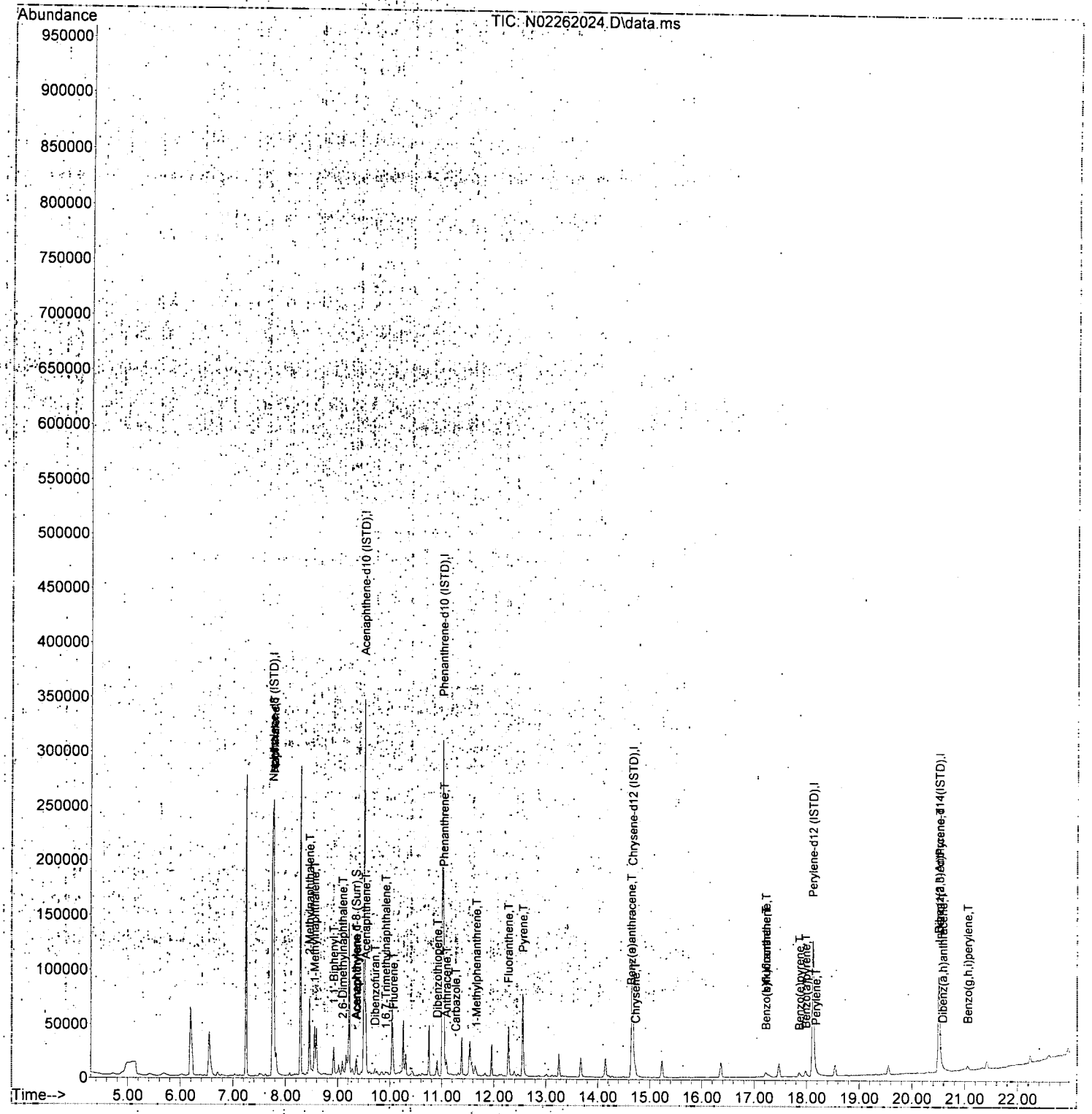
response 1874

Ion	Exp%	Act%
252.00	100.00	100.00
125.90	22.10	15.32
253.00	21.50	25.00
0.00	0.00	0.00

AMS 2/27/20

Data Path : U:\data\2020-02\0B26029\
Data File : N02262024.D
Acq On : 26 Feb 2020 10:01 pm
Operator : JK/.AMS/.DTH
Sample : 0020795-MSD1@100000
Misc : 100000x, 8270D LL PAH ONLY
ALS Vial : 24 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 27 08:37:36 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
Benchsheet & Analysis Sequence Data

Sequence 0B27023 (A0B0680-01RE1,02,03,04RE1)

ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence: **0B27023** Instrument: **SV-GCMS14**

Date: **02/27/20 08:06** Calibration: **A9I1001**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0B27023-TUN1	Soil	QC	QC			A19K048	A20B266
2	0B27023-CCV1	Soil	QC	QC			A19K048	A19K012
3	0B27023-CCB1	Soil	QC	QC			A19K048	
4	A0B0681-02	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	02/28/20	0020795	A19K048	
5	A0B0679-10	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	02/28/20	0020782	A19K048	
6	A0B0679-11	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	02/28/20	0020782	A19K048	
7	A0B0680-02	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	02/28/20	0020782	A19K048	
8	A0B0680-03	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	02/28/20	0020782	A19K048	
9	A0B0680-04	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	02/28/20	0020782	A19K048	
10	A0B0680-01	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	02/28/20	0020782	A19K048	
11	A0B0679-09	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	02/28/20	0020782	A19K048	
12	A0B0679-12	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	02/28/20	0020782	A19K048	
13	A0B0679-14	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	02/28/20	0020782	A19K048	
14	A0B0679-15	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	02/28/20	0020782	A19K048	
15	A0B0679-13	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	02/28/20	0020782	A19K048	
16	A0B0679-02	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	02/28/20	0020782	A19K048	
17	A0B0679-03	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	02/28/20	0020782	A19K048	
18	A0B0679-04RE1	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	02/28/20	0020782	A19K048	
19	A0B0679-06RE1	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	02/28/20	0020782	A19K048	
20	A0B0679-08RE1	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	02/28/20	0020782	A19K048	
21	A0B0680-01RE1	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	02/28/20	0020782	A19K048	
22	A0B0679-10RE1	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	02/28/20	0020782	A19K048	
23	A0B0680-04RE1	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	02/28/20	0020782	A19K048	
24	A0B0679-15RE1	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	02/28/20	0020782	A19K048	
25	0B27023-IBL1	Soil	QC	QC			A19K048	

Comments:

Data Entered By: [signature] 2/28/20

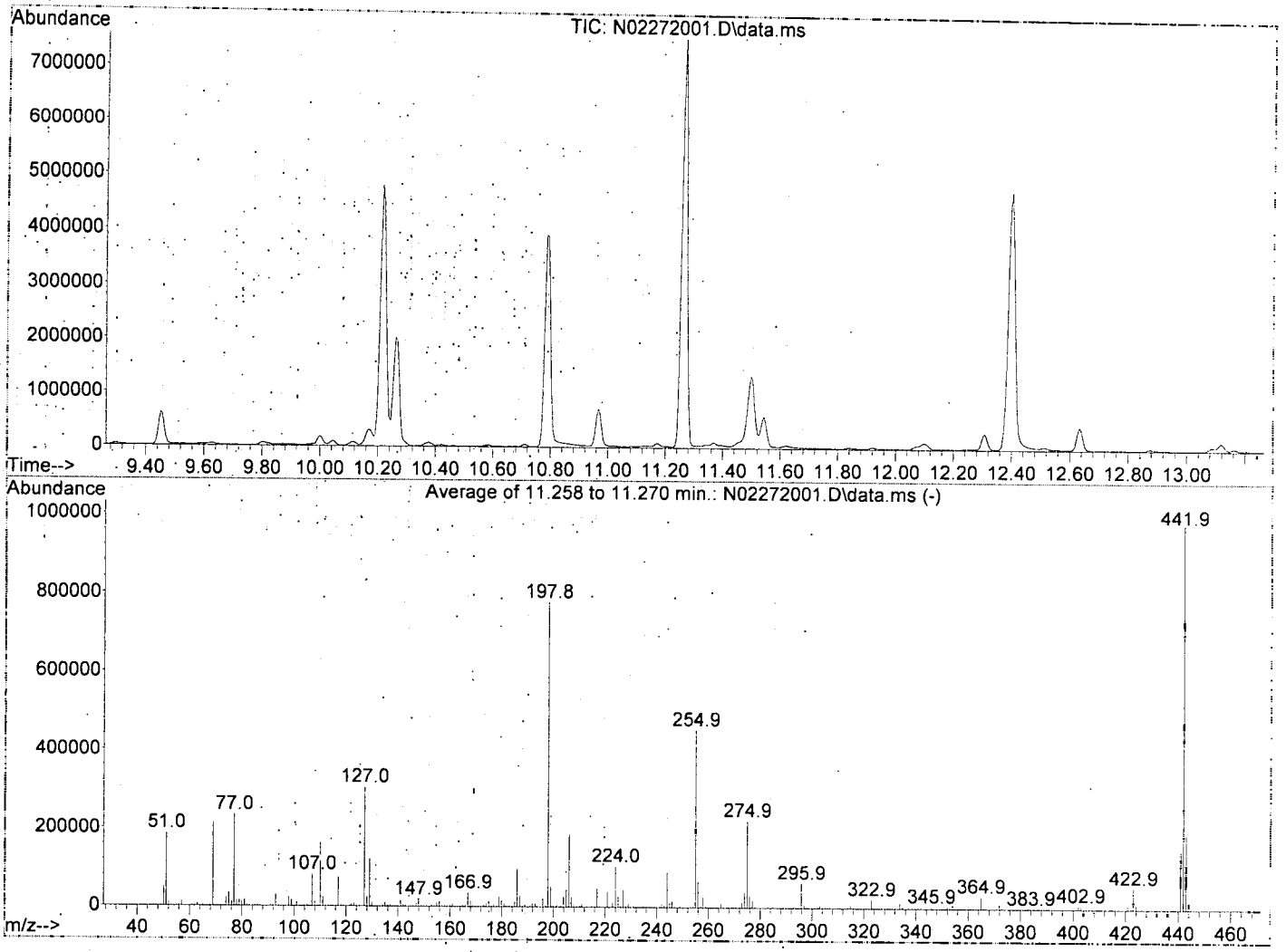
Data Reviewed By: [signature] 2/28/20

Data Path : U:\data\2020-02\0B27023\
Data File : N02272001.D
Acq On : 27 Feb 2020 08:16 am
Operator : JK/ AMS/ DTH
Sample : 0B27023-TUN1
Misc : 1x, A20B266 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 2/27/20



AutoFind: Scans 1195, 1196, 1197; Background Corrected with Scan 1189

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	1.6	3478	PASS
69	69	100	100	100.0	214382	PASS
70	69	0.00	2	0.5	1165	PASS
197	198	0.00	2	0.5	3830	PASS
198	198	100	100	100.0	777172	PASS
199	198	5	9	6.7	52332	PASS
365	198	1	100	4.0	30872	PASS
441	443	0.01	150	78.0	148453	PASS
442	198	0.10	200	126.1	980032	PASS
443	442	15	24	19.4	190400	PASS

Data Path : U:\data\2020-02\0B27023\
Data File : N02272001.D
Acq On : 27 Feb 2020 08:16 am
Operator : JK/ AMS/ DTH
Sample : 0B27023-TUN1
Misc : 1x, A20B266 DFTPP
ALS Vial : 1 Sample Multiplier: 1
DataAcq Meth:DFTPP.M

Quant Time: Feb 27 12:40:30 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

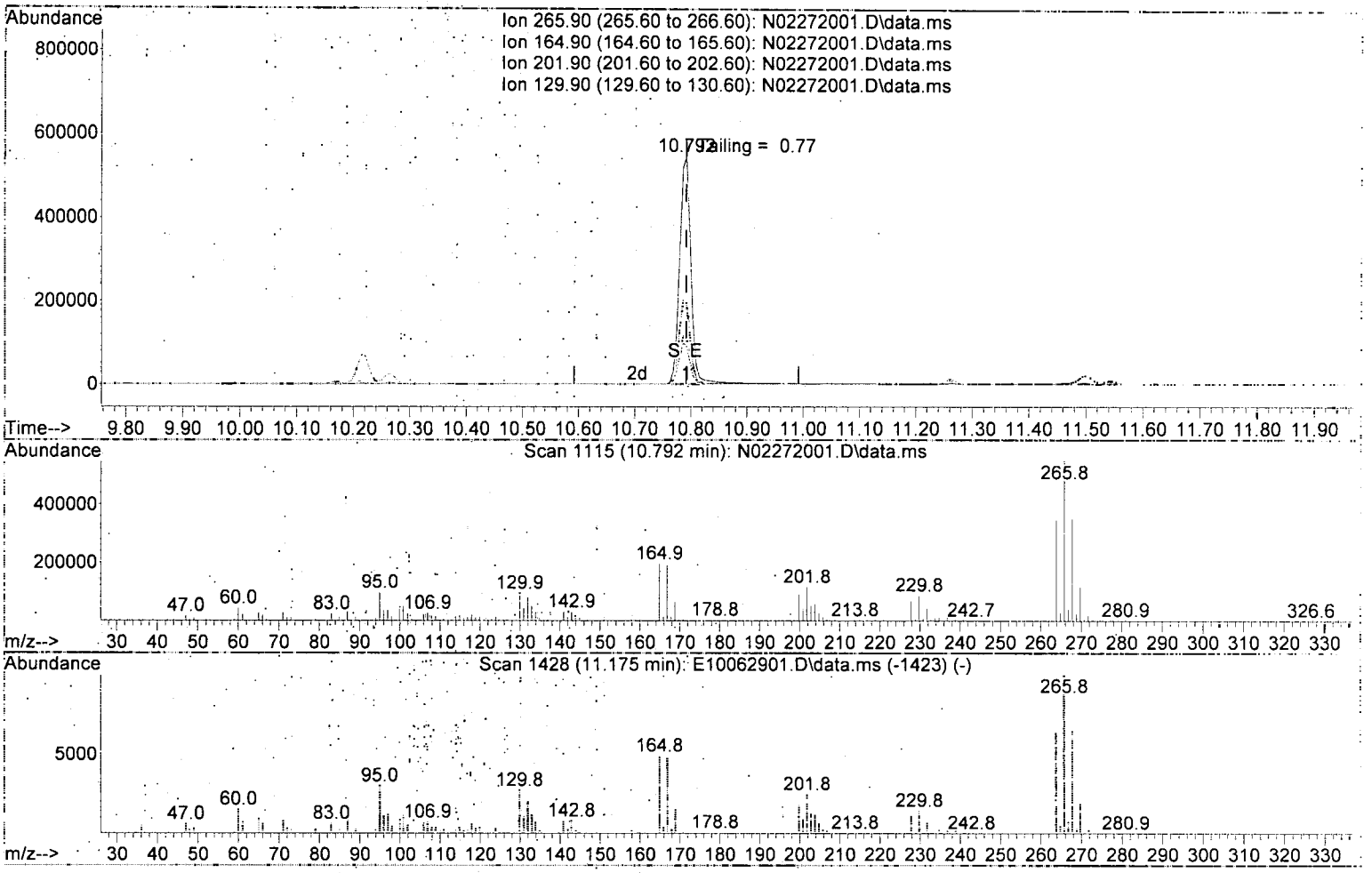
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.490	150	140366	2.00	ug/mL		0.00
2) Naphthalene-d8	7.691	136	372634	2.00	ug/mL		0.00
3) Acenaphthene-d10	9.451	162	193845	2.00	ug/mL		0.00
5) Phenanthrene-d10	10.967	188	369960	2.00	ug/mL		0.00
11) Chrysene-d12	14.574	240	306845	2.00	ug/mL		0.00
12) Perylene-d12	16.679	264	292744	2.00	ug/mL		0.00
13) Dibenz(a,h)anthracene-...	17.862	292	256292	2.00	ug/mL	#	0.00
Target Compounds							Qvalue
4) Pentachlorophenol	10.792	266	779073	42.56	ug/mL		82
6) DFTPP	11.264	442	1480989	49.59	ug/mL		81
7) Benzidine	12.400	184	3425667	26.03	ug/mL		98
8) 4,4-DDE	12.634	TIC	591633	No Calib			
9) 4,4-DDD	13.117	TIC	218521	No Calib			
10) 4,4-DDT	13.642	TIC	12223755	32.22	ug/mL		95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B27023\
Data File : N02272001.D
Acq On : 27 Feb 2020 08:16 am
Operator : JK/ AMS/ DTH
Sample : 0B27023-TUN1
Misc : 1x, A20B266 DFTPP
ALS Vial : 1 Sample Multiplier: 1
DataAcq Meth:DFTPP.M

Quant Time: Feb 27 12:40:30 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: N02272001.D\data.ms

(4) Pentachlorophenol

10.792min (+ 0.000) 42.56 ug/mL

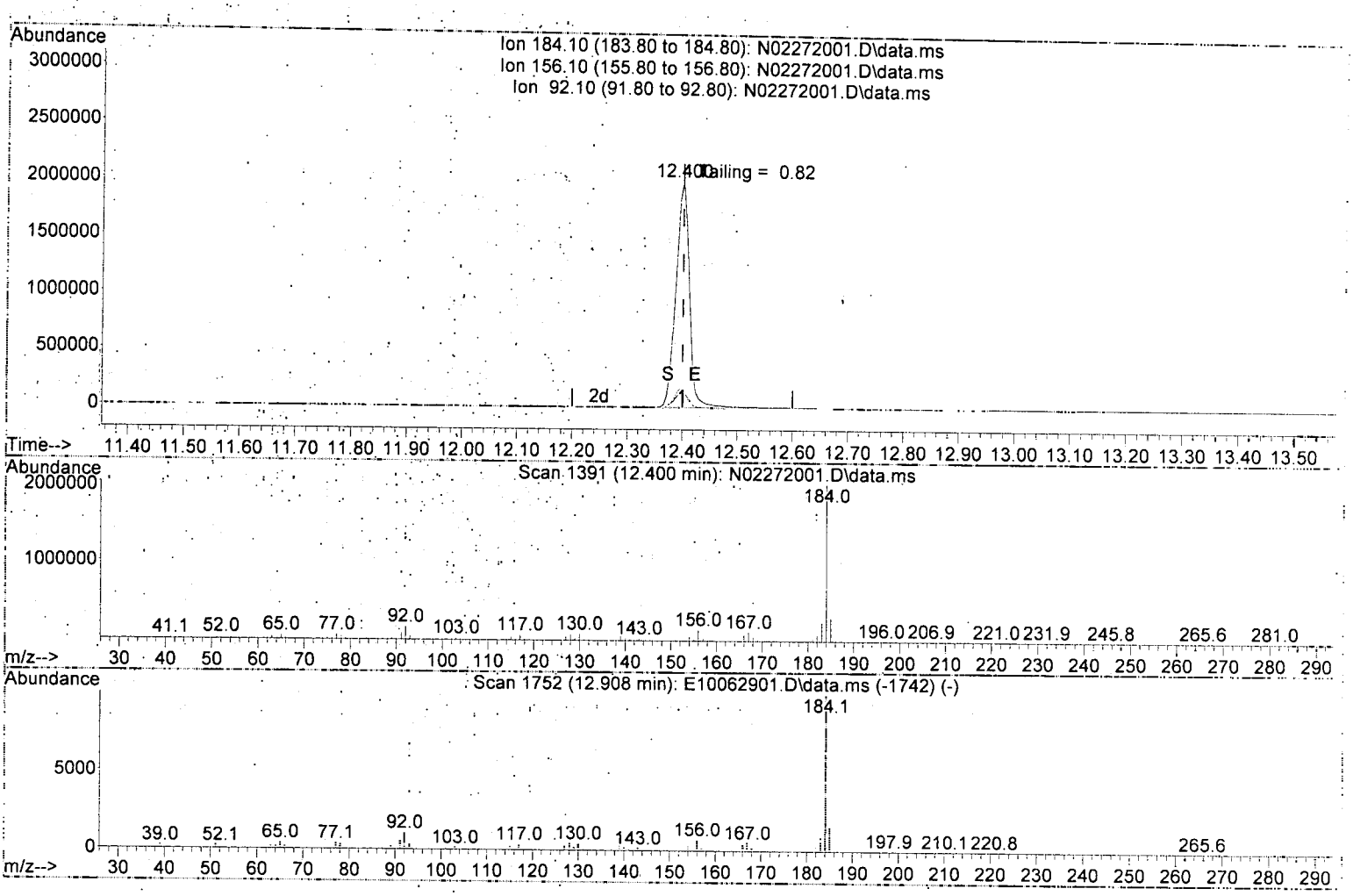
response 779073

Ion	Exp%	Act%
265.90	100.00	100.00
164.90	50.60	35.76
201.90	25.80	21.02
129.90	27.30	17.15

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B27023\
Data File : N02272001.D
Acq On : 27 Feb 2020 08:16 am
Operator : JK/ AMS/ DTH
Sample : 0B27023-TUN1
Misc : 1x, A20B266 DFTPP
ALS Vial : 1 Sample Multiplier: 1
DataAcq Meth:DFTPP.M

Quant Time: Feb 27 12:40:30 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: N02272001.D\data.ms

(7) Benzidine

12.400min (+ 0.000) 26.03 ug/mL

response 3425667

Ion	Exp%	Act%
184.10	100.00	100.00
156.10	8.50	6.94
92.10	8.20	8.08
0.00	0.00	0.00

DDT Breakdown Check (Validated 5/1/2013)

From:
0B27023-TUN1
SV-GCMS14

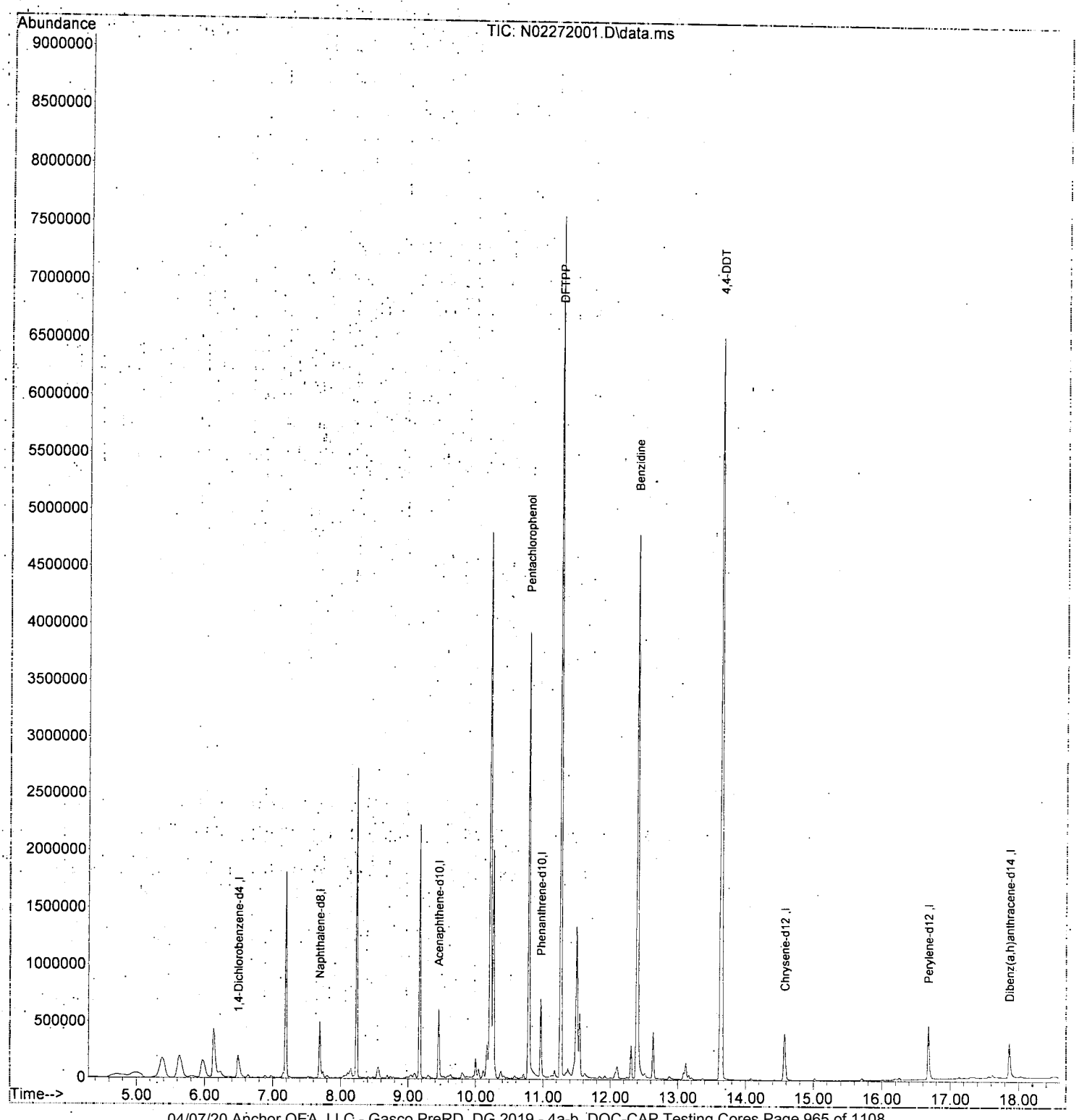
First Column Area Counts		Percent Breakdown	
DDE	591633		
DDD	218521		
DDT	1222375	6.22	PASS

Breakdown must be less than 20% to accept sample data.

No Name Entered Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-02\0B27023\
Data File : N02272001.D
Acq On : 27 Feb 2020 08:16 am
Operator : JK/ AMS/ DTH
Sample : 0B27023-TUN1
Misc : 1x, A20B266 DFTPP
ALS Vial : 1 Sample Multiplier: 1
DataAcq Meth:DFTPP.M

Quant Time: Feb 27 12:40:30 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\0B27023\
Data File : N02272002.D
Acq On : 27 Feb 2020 08:43 am
Operator : JK/ AMS/ DTH
Sample : 0B27023-CCV1
Misc : 1x, A19K012@50
ALS Vial : 2 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

AMS 2/27/20

Quant Time: Feb 27 12:41:44 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

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	126	-0.01
2	S	Nitrobenzene-d5 (Surr)	50.000	49.435	1.1	128	-0.01
3	T	Decalin	50.000	30.449	39.1#	76	-0.01
4	T	Naphthalene	50.000	48.538	2.9	125	0.00
5	T	2-Methylnaphthalene	50.000	40.472	19.1	102	-0.01
6	T	1-Methylnaphthalene	50.000	40.099	19.8	98	-0.01
7	T	1,1'-Biphenyl	50.000	38.613	22.8#	97	0.00
8	T	2,6-Dimethylnaphthalene	50.000	37.629	24.7#	93	-0.01
9	I	Acenaphthene-d10 (ISTD)	100.000	100.000	0.0	95	-0.01
10	S	2-Fluorobiphenyl (Surr)	50.000	52.440	-4.9	100	-0.01
11	S	Acenaphthylene d-8 (Surr)	50.000	0.818	98.4#	4	-0.01
12	T	Acenaphthylene	50.000	45.913	8.2	87	0.00
13	T	Acenaphthene	50.000	47.819	4.4	93	0.00
14	T	Dibenzofuran	50.000	47.928	4.1	91	0.00
15	T	1,6,7-Trimethylnaphthalene	50.000	46.893	6.2	91	0.00
16	T	Fluorene	50.000	46.549	6.9	89	-0.01
17	I	Phenanthrene-d10 (ISTD)	100.000	100.000	0.0	91	0.00
18	T	Dibenzothiopene	50.000	47.235	5.5	87	0.00
19	T	Phenanthrene	50.000	47.511	5.0	88	0.00
20	T	Anthracene	50.000	44.164	11.7	81	0.00
21	T	Carbazole	50.000	35.856	28.3#	66	-0.01
22	T	1-Methylphenanthrene	50.000	47.848	4.3	88	-0.01
23	T	Fluoranthene	50.000	48.418	3.2	89	-0.01
24	I	Chrysene-d12 (ISTD)	100.000	100.000	0.0	80	-0.02
25	T	Pyrene	50.000	55.679	-11.4	89	-0.01
26	S	Terphenyl-d14 (Surr)	50.000	47.350	5.3	77	-0.01
27	T	Benz(a)anthracene	50.000	42.158	15.7	72	-0.02
28	T	Chrysene	50.000	45.246	9.5	74	-0.02
29	I	Perylene-d12 (ISTD)	100.000	100.000	0.0	83	-0.02
30	T	Benzo(b)fluoranthene	50.000	45.202	9.6	75	-0.01
31	T	Benzo(k)fluoranthene	50.000	45.223	9.6	77	-0.02
32	T	Benzo(b+k)fluoranthene	100.000	93.273	6.7	78	-0.02
33	S	Benzo(a)pyrene d-12 (Surr)	50.000	0.000	100.0#	0	-17.96#
34	T	Benzo(e)pyrene	50.000	47.521	5.0	80	-0.02
35	T	Benzo(a)pyrene	50.000	43.304	13.4	71	-0.02
36	T	Perylene	50.000	49.506	1.0	82	-0.02
37	I	Dibenz(a,h)Anthrcene-d14(IS	100.000	100.000	0.0	86	-0.02
38	T	Indeno(1,2,3-cd)Pyrene	50.000	44.821	10.4	78	-0.02
39	T	Dibenz(a,h)anthracene	50.000	47.687	4.6	84	-0.02
40	T	Benzo(g,h,i)perylene	50.000	46.306	7.4	79	-0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0

No Name Entered Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-02\0B27023\
Data File : N02272002.D
Acq On : 27 Feb 2020 08:43 am
Operator : JK/ AMS/ DTH
Sample : 0B27023-CCV1
Misc : 1x, A19K012@50
ALS Vial : 2 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

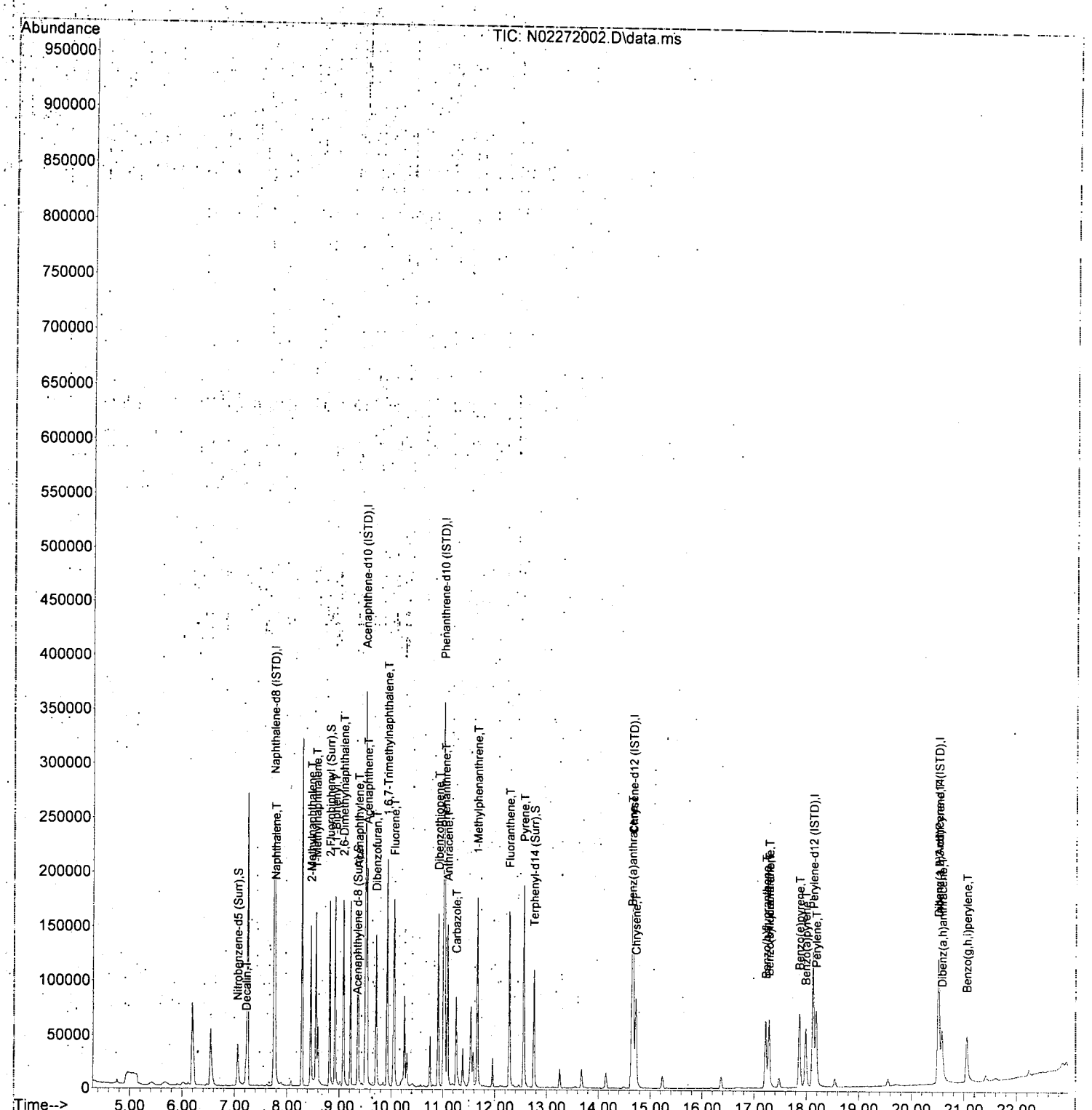
Quant Time: Feb 27 12:41:44 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.749	136	187473	100.00	ng/ml	-0.01
9) Acenaphthene-d10 (ISTD)	9.504	162	111892	100.00	ng/ml	-0.01
17) Phenanthrene-d10 (ISTD)	11.013	188	200242	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.662	240	136715	100.00	ng/ml	-0.02
29) Perylene-d12 (ISTD)	18.124	264	118815	100.00	ng/ml	-0.02
37) Dibenz(a,h)Anthrcene-d...	20.508	292	80611	100.00	ng/ml	-0.02
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.056	82	30796	49.43	ng/ml	-0.01
10) 2-Fluorobiphenyl (Surr)	8.816	172	87536	52.44	ng/ml	-0.01
11) Acenaphthylene d-8 (Surr)	9.346	160	5093	0.82	ng/ml	-0.01
26) Terphenyl-d14 (Surr)	12.756	244	68083	47.35	ng/ml	-0.01
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml	
Target Compounds						Qvalue
3) Decalin	7.219	138	4250	30.45	ng/ml	91
4) Naphthalene	7.772	128	100362	48.54	ng/ml	99
5) 2-Methylnaphthalene	8.454	142	70914	40.47	ng/ml	99
6) 1-Methylnaphthalene	8.553	142	70247	40.10	ng/ml	97
7) 1,1'-Biphenyl	8.921	154	90995	38.61	ng/ml	98
8) 2,6-Dimethylnaphthalene	9.078	156	64760	37.63	ng/ml	98
12) Acenaphthylene	9.364	152	111530	45.91	ng/ml	99
13) Acenaphthene	9.539	153	76083	47.82	ng/ml	100
14) Dibenzofuran	9.713	168	95514	47.93	ng/ml	96
15) 1,6,7-Trimethylnaphtha...	9.923	170	62572	46.89	ng/ml	98
16) Fluorene	10.057	166	75788	46.55	ng/ml	99
18) Dibenzothiopene	10.908	184	98924	47.24	ng/ml	96
19) Phenanthrene	11.036	178	111327	47.51	ng/ml	100
20) Anthracene	11.089	178	96256	44.16	ng/ml	99
21) Carbazole	11.252	167	63235	35.86	ng/ml	99
22) 1-Methylphenanthrene	11.660	192	77884	47.85	ng/ml	98
23) Fluoranthene	12.278	202	114305	48.42	ng/ml	96
25) Pyrene	12.558	202	118927	55.68	ng/ml	99
27) Benz(a)anthracene	14.644	228	66917	42.16	ng/ml	99
28) Chrysene	14.720	228	67964	45.25	ng/ml	99
30) Benzo(b)fluoranthene	17.221	252	61971	45.20	ng/ml	93
31) Benzo(k)fluoranthene	17.279	252	61044	45.22	ng/ml	93
32) Benzo(b+k)fluoranthene	17.279	252	130800	93.27	ng/ml	93
34) Benzo(e)pyrene	17.862	252	65878	47.52	ng/ml	97
35) Benzo(a)pyrene	17.984	252	50816	43.30	ng/ml	96
36) Perylene	18.182	252	71551	49.51	ng/ml	99
38) Indeno(1,2,3-cd)Pyrene	20.514	276	44560	44.82	ng/ml	83
39) Dibenz(a,h)anthracene	20.578	278	44547	47.69	ng/ml	84
40) Benzo(g,h,i)perylene	21.050	276	48836	46.31	ng/ml	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : U:\data\2020-02\0B27023\
Data File : N02272002.D
Acq On : 27 Feb 2020 08:43 am
Operator : JK/ AMS/ DTH
Sample : 0B27023-CCV1
Misc : 1x, A19K012@50
ALS Vial : 2 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 27 12:41:44 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



Quantitation Report (Not Reviewed)

Data Path : N:\data\2020-02\0B27023\
Data File : N02272003.D
Acq On : 27 Feb 2020 09:15
Operator : JK/ AMS/ DTH
Sample : 0B27023-CCB1
Misc : 1x, DCM + ISTD
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

AMS 2/27/20

Quant Time: Feb 28 13:10:33 2020
Quant Method : N:\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

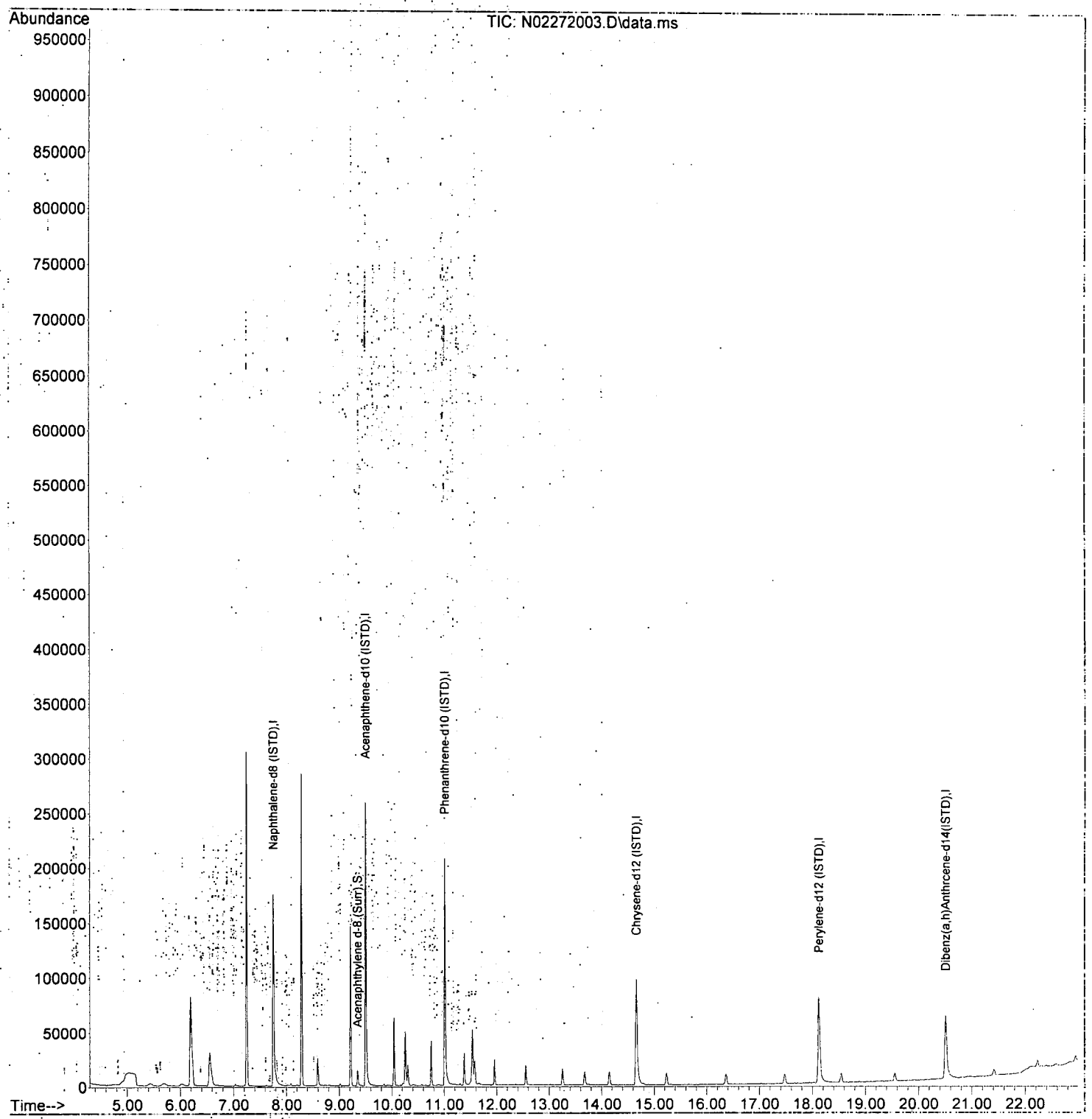
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Naphthalene-d8 (ISTD)	7.755	136	148558	100.00 ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.504	162	87602	100.00 ng/ml	-0.01
17) Phenanthrene-d10 (ISTD)	11.013	188	131216	100.00 ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.662	240	87572	100.00 ng/ml	-0.02
29) Perylene-d12 (ISTD)	18.124	264	81236	100.00 ng/ml	-0.02
37) Dibenz(a,h)Anthrcene-d...	20.508	292	62457	100.00 ng/ml	-0.02
System Monitoring Compounds					
2) Nitrobenzene-d5 (Surr)	0.000	82	0	0.00 ng/ml	
10) 2-Fluorobiphenyl (Surr)	0.000	172	0	0.00 ng/ml	
11) Acenaphthylene d-8 (Surr)	9.352	160	10368	4.47 ng/ml	0.00
26) Terphenyl-d14 (Surr)	0.000	244	0	0.00 ng/ml	
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00 ng/ml	
Target Compounds					Qvalue
3) Decalin	0.000		0	N.D.	
4) Naphthalene	7.778	128	109	N.D.	
5) 2-Methylnaphthalene	0.000		0	N.D.	
6) 1-Methylnaphthalene	0.000		0	N.D.	
7) 1,1'-Biphenyl	0.000		0	N.D.	
8) 2,6-Dimethylnaphthalene	0.000		0	N.D.	
12) Acenaphthylene	0.000		0	N.D.	
13) Acenaphthene	0.000		0	N.D.	
14) Dibenzofuran	0.000		0	N.D.	
15) 1,6,7-Trimethylnaphtha...	0.000		0	N.D.	
16) Fluorene	0.000		0	N.D.	
18) Dibenzothiopene	0.000		0	N.D.	
19) Phenanthrene	11.037	178	130	N.D.	
20) Anthracene	11.037	178	130	N.D.	
21) Carbazole	11.538	167	277	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	14.656	228	275	N.D.	
28) Chrysene	14.656	228	265	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	18.112	252	215	N.D.	
35) Benzo(a)pyrene	0.000		0	N.D.	
36) Perylene	18.112	252	254	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

Quantitation Report (Not Reviewed)

Data Path : N:\data\2020-02\0B27023\
Data File : N02272003.D
Acq On : 27 Feb 2020 09:15
Operator : JK/ AMS/ DTH
Sample : 0B27023-CCB1
Misc : 1x, DCM + ISTD
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 28 13:10:33 2020
Quant Method : N:\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\0B27023\
Data File : N02272007.D
Acq On : 27 Feb 2020 11:23 am
Operator : JK/ AMS/ DTH
Sample : A0B0680-02@1000
Misc : 1000x; 8270D PAH Only
ALS Vial : 7 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

MOS

AMS
2/27/20

Quant Time: Feb 27 12:42:15 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

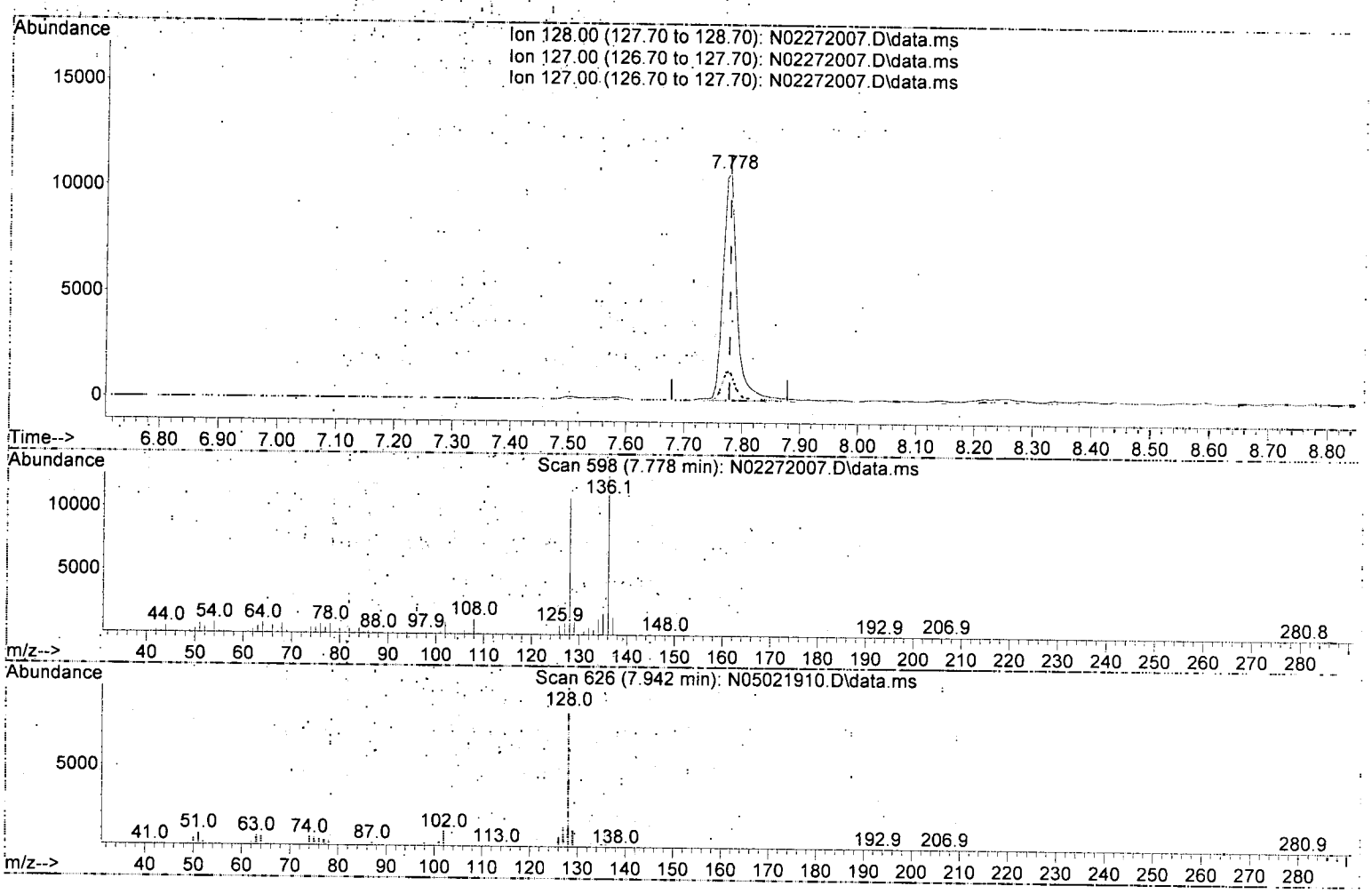
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.755	136	159469	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.503	162	99289	100.00	ng/ml	-0.01
17) Phenanthrene-d10 (ISTD)	11.013	188	165572	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.662	240	125592	100.00	ng/ml	-0.02
29) Perylene-d12 (ISTD)	18.124	264	121237	100.00	ng/ml	-0.02
37) Dibenz(a,h)Anthrcene-d...	20.508	292	92192	100.00	ng/ml	-0.02
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	0.000	82	0	0.00	ng/ml	
10) 2-Fluorobiphenyl (Surr)	8.821	172	201	0.14	ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	9.352	160	8852	3.00	ng/ml	0.00
26) Terphenyl-d14 (Surr)	12.756	244	246	0.19	ng/ml	-0.01
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml	
Target Compounds						Qvalue
3) Decalin	0.000		0	N.D.		
4) Naphthalene	7.778	128	17991	10.23	ng/ml	100
5) 2-Methylnaphthalene	8.460	142	7311	4.91	ng/ml	94
6) 1-Methylnaphthalene	8.559	142	24636	16.53	ng/ml	97
7) 1,1'-Biphenyl	8.926	154	1663	0.83	ng/ml	98
8) 2,6-Dimethylnaphthalene	9.090	156	9934	6.79	ng/ml	98
12) Acenaphthylene	9.364	152	11154	5.17	ng/ml	94
13) Acenaphthene	9.538	153	34498	24.43	ng/ml	99
14) Dibenzofuran	9.713	168	3592	2.03	ng/ml	78
15) 1,6,7-Trimethylnaphtha...	9.923	170	3420	2.89	ng/ml	86
16) Fluorene	10.063	166	20357	14.09	ng/ml	98
18) Dibenzothiopene	10.908	184	21832	12.61	ng/ml	98
19) Phenanthrene	11.036	178	199575	103.01	ng/ml	100
20) Anthracene	11.089	178	31701	17.59	ng/ml	99
21) Carbazole	11.258	167	3616	2.48	ng/ml	94
22) 1-Methylphenanthrene	11.660	192	8278	6.15	ng/ml	95
23) Fluoranthene	12.278	202	129802	66.49	ng/ml	96
25) Pyrene	12.558	202	164640	83.91	ng/ml	100
27) Benz(a)anthracene	14.644	228	26036	17.86	ng/ml	71
28) Chrysene	14.720	228	31974	23.17	ng/ml	95
30) Benzo(b)fluoranthene	17.221	252	28646	20.48	ng/ml	93
31) Benzo(k)fluoranthene	~~17.221~~	~~252~~	~~36107~~	~~26.21~~	~~ng/ml~~	~~91~~ MI-MOS
32) Benzo(b+k)fluoranthene	17.221	252	41516	29.01	ng/ml	91
34) Benzo(e)pyrene	17.862	252	20644	14.59	ng/ml	98
35) Benzo(a)pyrene	17.984	252	28065	23.44	ng/ml	96
36) Perylene	18.182	252	8777	5.95	ng/ml	99
38) Indeno(1,2,3-cd)Pyrene	20.514	276	19035	16.74	ng/ml	82
39) Dibenz(a,h)anthracene	20.572	278	2093	1.96	ng/ml	85
40) Benzo(g,h,i)perylene	21.050	276	23990	19.89	ng/ml	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B27023\
Data File : N02272007.D
Acq On : 27 Feb 2020 11:23 am
Operator : JK/ AMS/ DTH
Sample : A0B0680-02@1000
Misc : 1000x, 8270D PAH Only
ALS Vial : 7 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 27 12:42:15 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: N02272007.D\data.ms

(4) Naphthalene (T)

7.778min (-0.000) 10.23 ng/ml

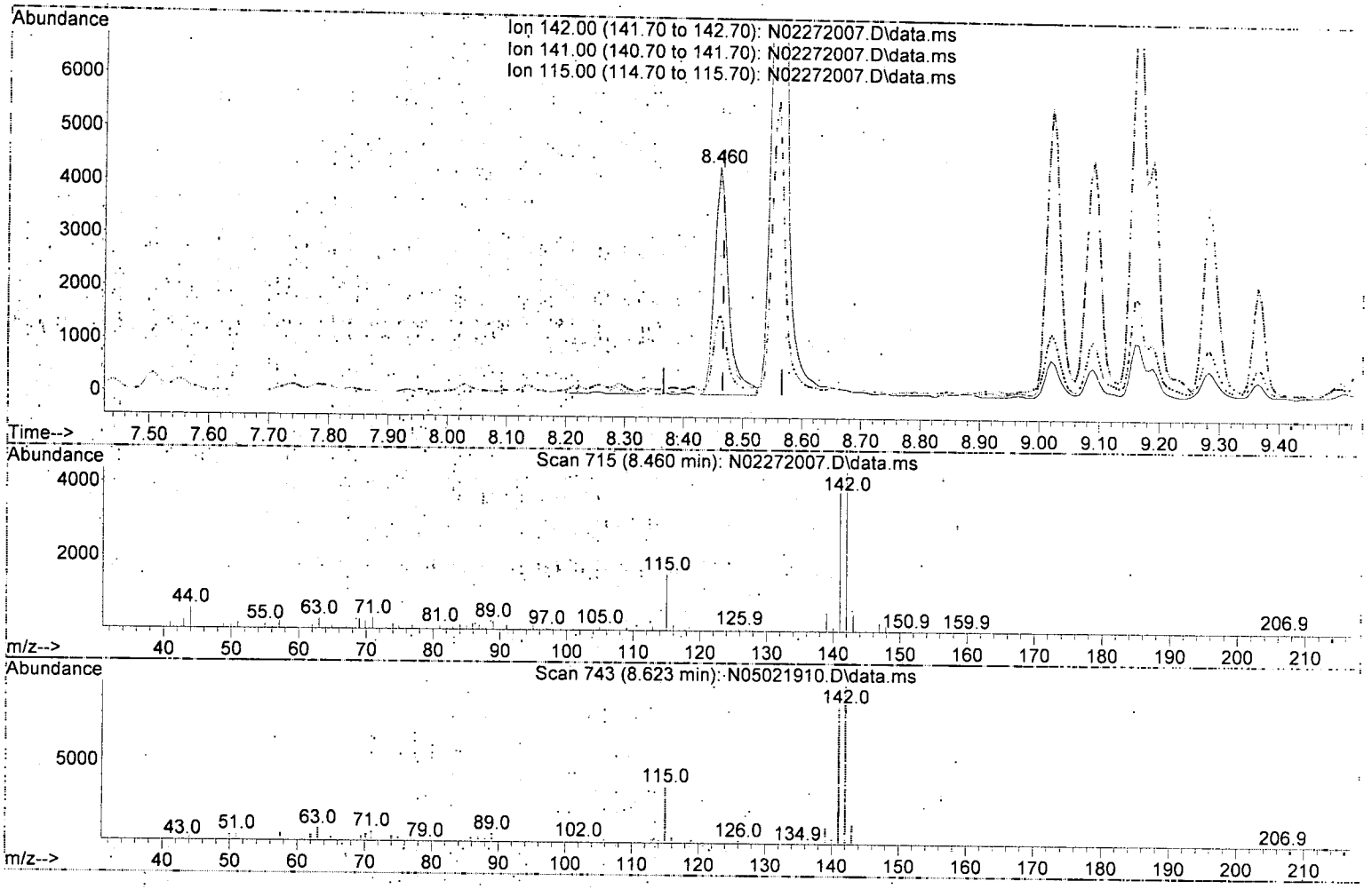
response 17991

Ion	Exp%	Act%
128.00	100.00	100.00
127.00	12.60	12.79
127.00	12.60	12.79
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B27023\
Data File : N02272007.D
Acq On : 27 Feb 2020 11:23 am
Operator : JK/ AMS/ DTH
Sample : A0B0680-02@1000
Misc : 1000x, 8270D PAH Only
ALS Vial : 7 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 27 12:42:15 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: N02272007.D\data.ms

(5) 2-Methylnaphthalene (T)

8.460min (-0.006) 4.91 ng/ml

response 7311

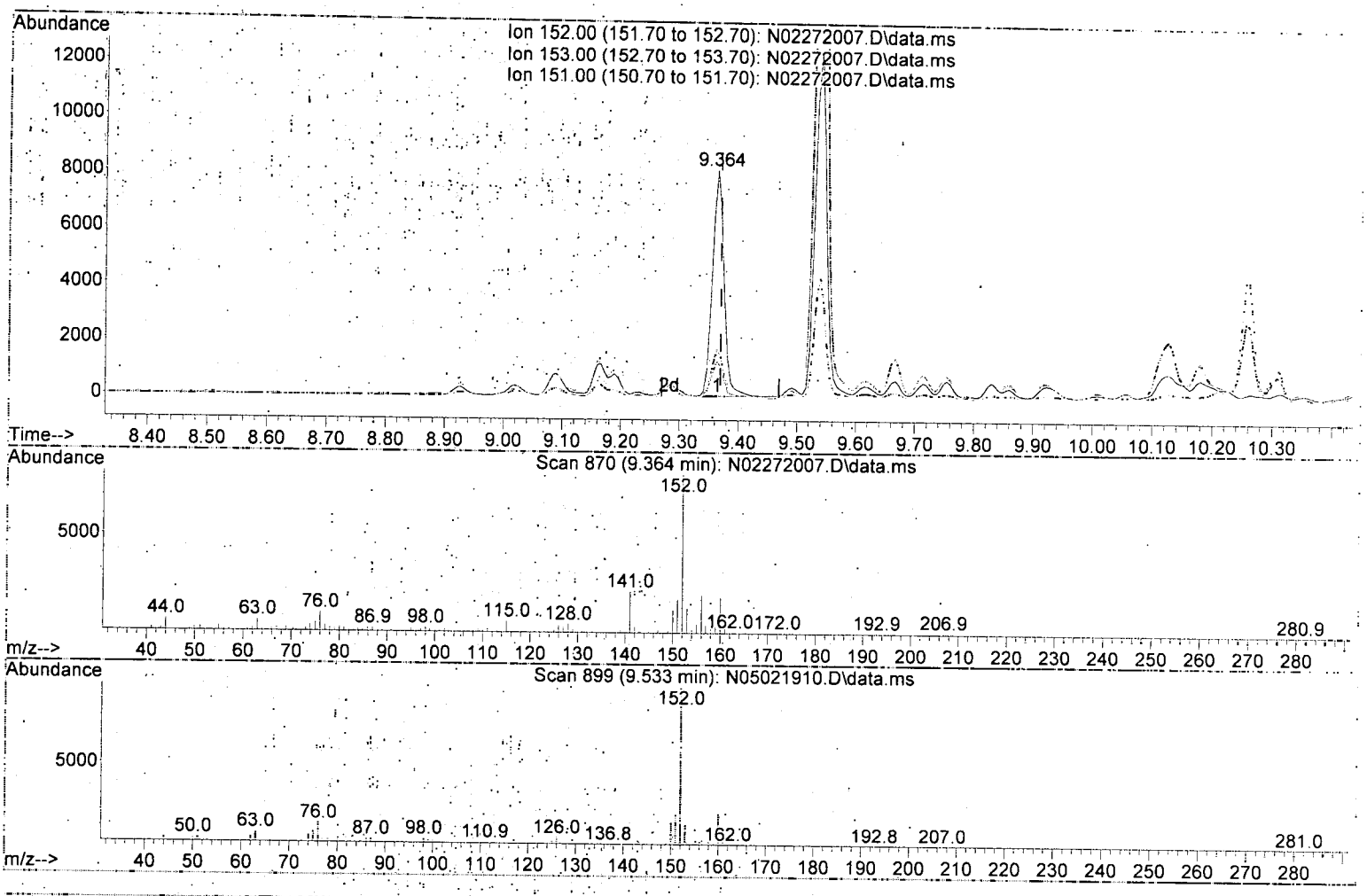
Ion	Exp%	Act%
142.00	100.00	100.00
141.00	86.60	93.93
115.00	35.70	35.60
0.00	0.00	0.00

J

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B27023\
Data File : N02272007.D
Acq On : 27 Feb 2020 11:23 am
Operator : JK/ AMS/ DTH
Sample : A0B0680-02@1000
Misc : 1000x, 8270D PAH Only
ALS Vial : 7 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 27 12:42:15 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: N02272007.D\data.ms

(12) Acenaphthylene (T)

9.364min (-0.006) 5.17 ng/ml

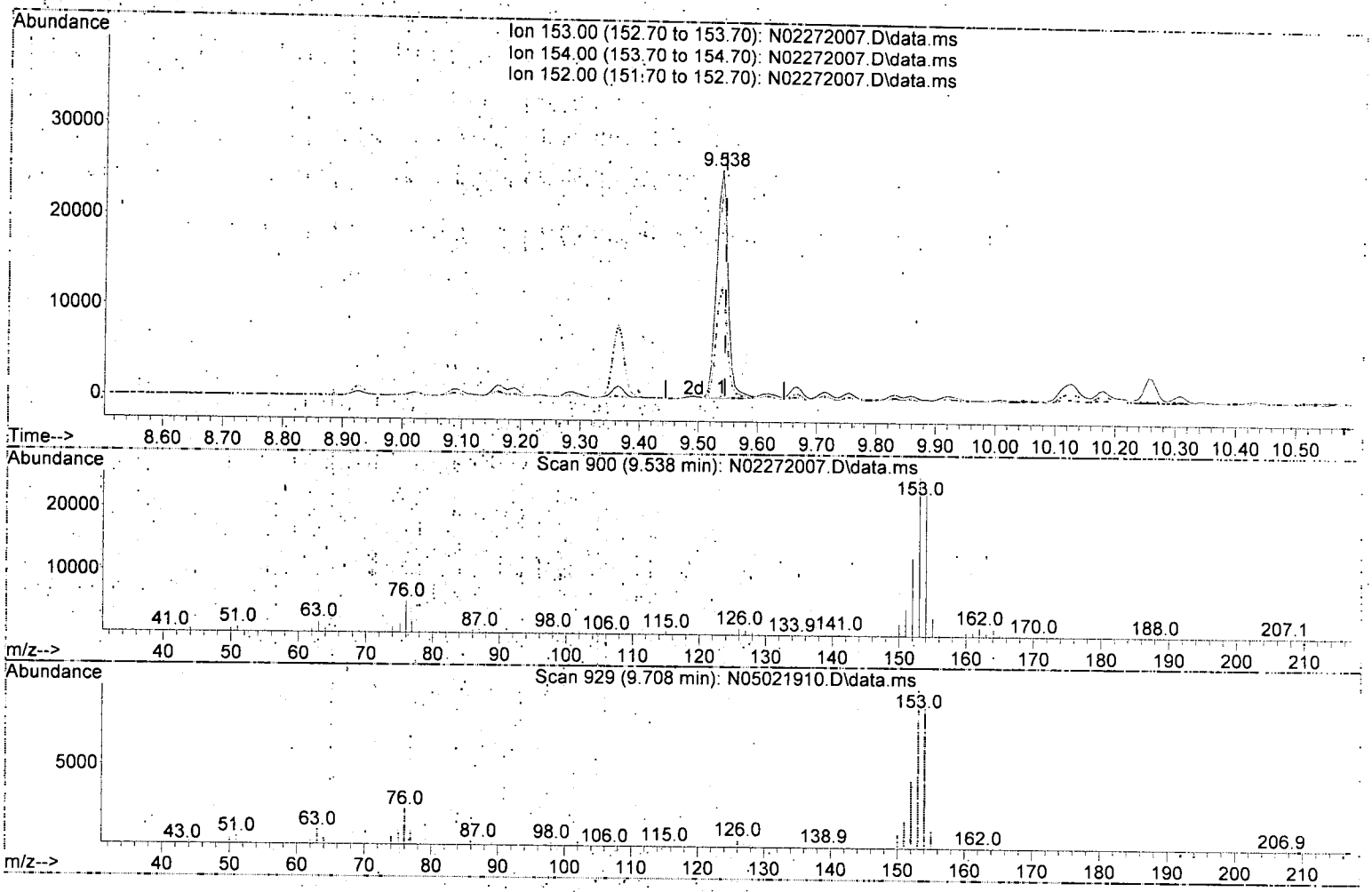
response 11154

Ion	Exp%	Act%
152.00	100.00	100.00
153.00	12.70	15.90
151.00	19.30	21.45
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B27023\
Data File : N02272007.D
Acq On : 27 Feb 2020 11:23 am
Operator : JK/ AMS/ DTH
Sample : A0B0680-02@1000
Misc : 1000x, 8270D PAH Only
ALS Vial : 7 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 27 12:42:15 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: N02272007.D\data.ms

(13) Acenaphthene (T)

9.538min (-0.006) 24.43 ng/ml

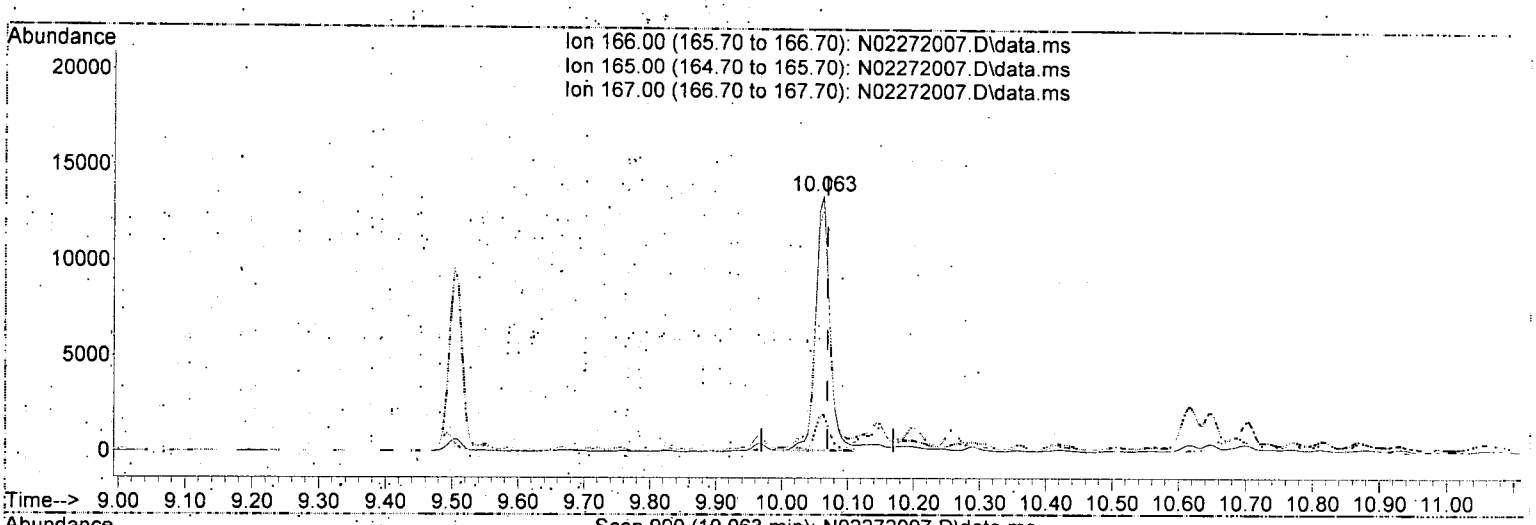
response 34498

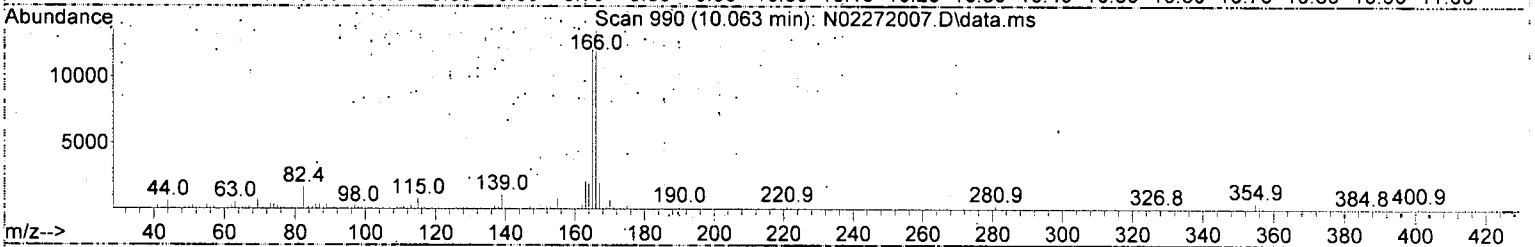
Ion	Exp%	Act%
153.00	100.00	100.00
154.00	90.70	90.42
152.00	46.80	49.09
0.00	0.00	0.00

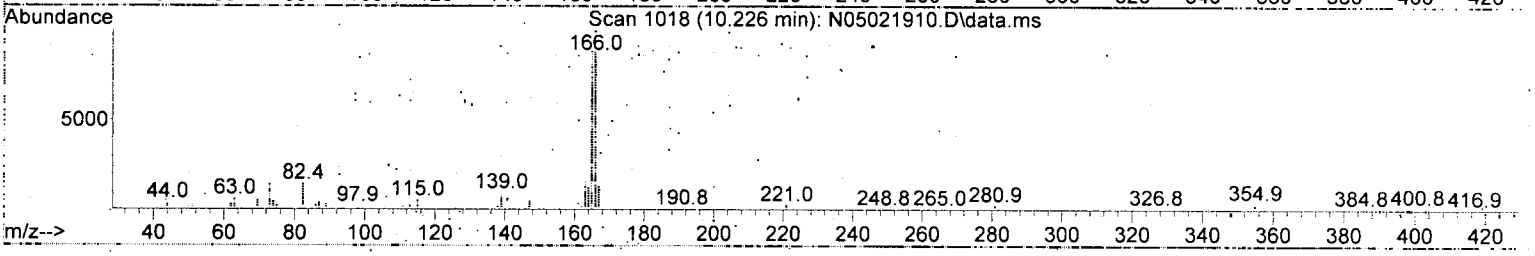
Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B27023\
Data File : N02272007.D
Acq On : 27 Feb 2020 11:23 am
Operator : JK/ AMS/ DTH
Sample : A0B0680-02@1000
Misc : 1000x, 8270D PAH Only
ALS Vial : 7 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 27 12:42:15 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: N02272007.D\data.ms

(16) Fluorene (T)

10.063min (-0.006) 14.09 ng/ml

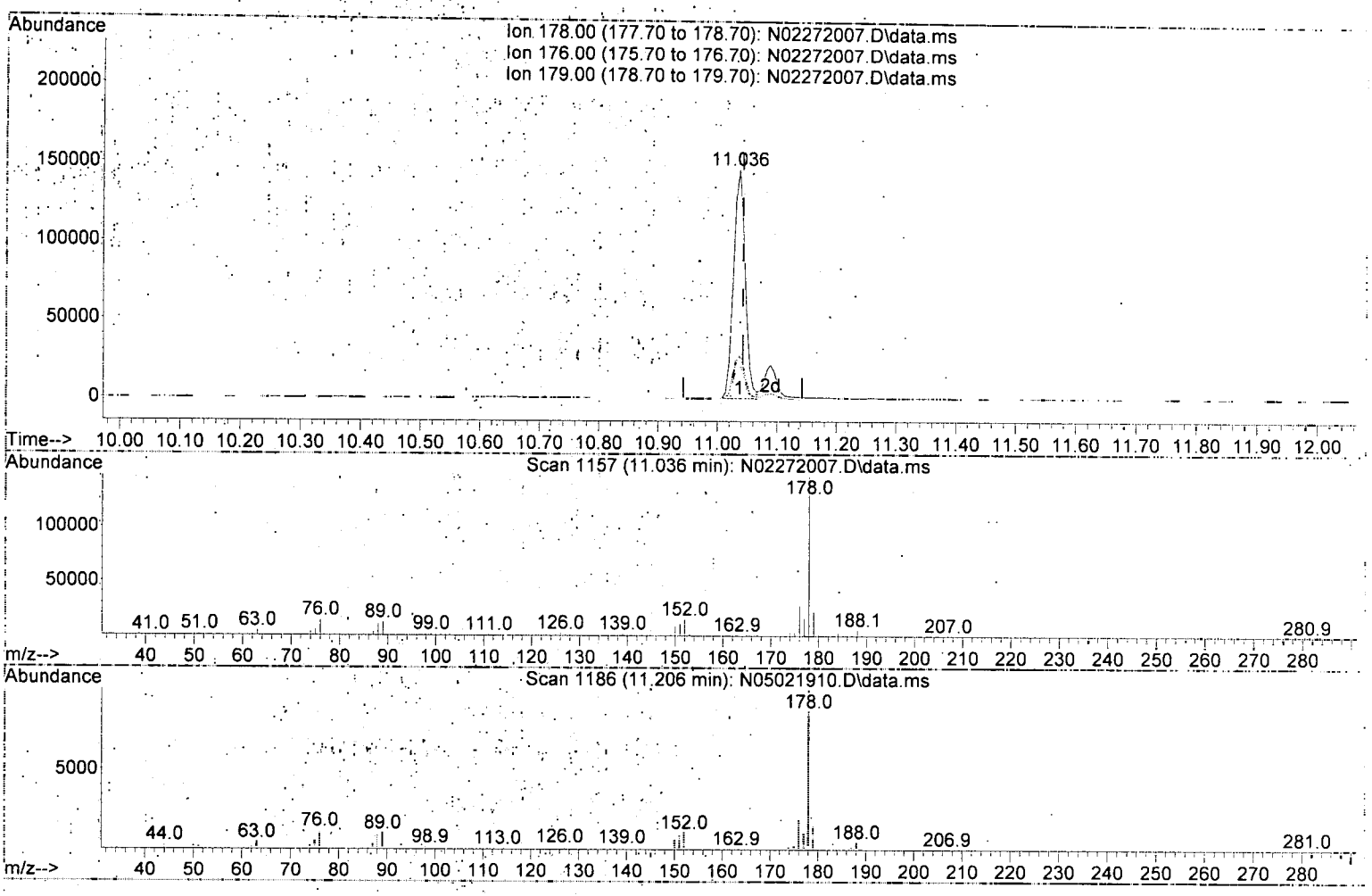
response 20357

Ion	Exp%	Act%
166.00	100.00	100.00
165.00	95.70	93.98
167.00	13.60	14.64
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B27023\
Data File : N02272007.D
Acq On : 27 Feb 2020 11:23 am
Operator : JK/ AMS/ DTH
Sample : A0B0680-02@1000
Misc : 1000x, 8270D PAH Only
ALS Vial : 7 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 27 12:42:15 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: N02272007.D\data.ms

(19) Phenanthrene (T)

11.036min (-0.006) 103.01 ng/ml

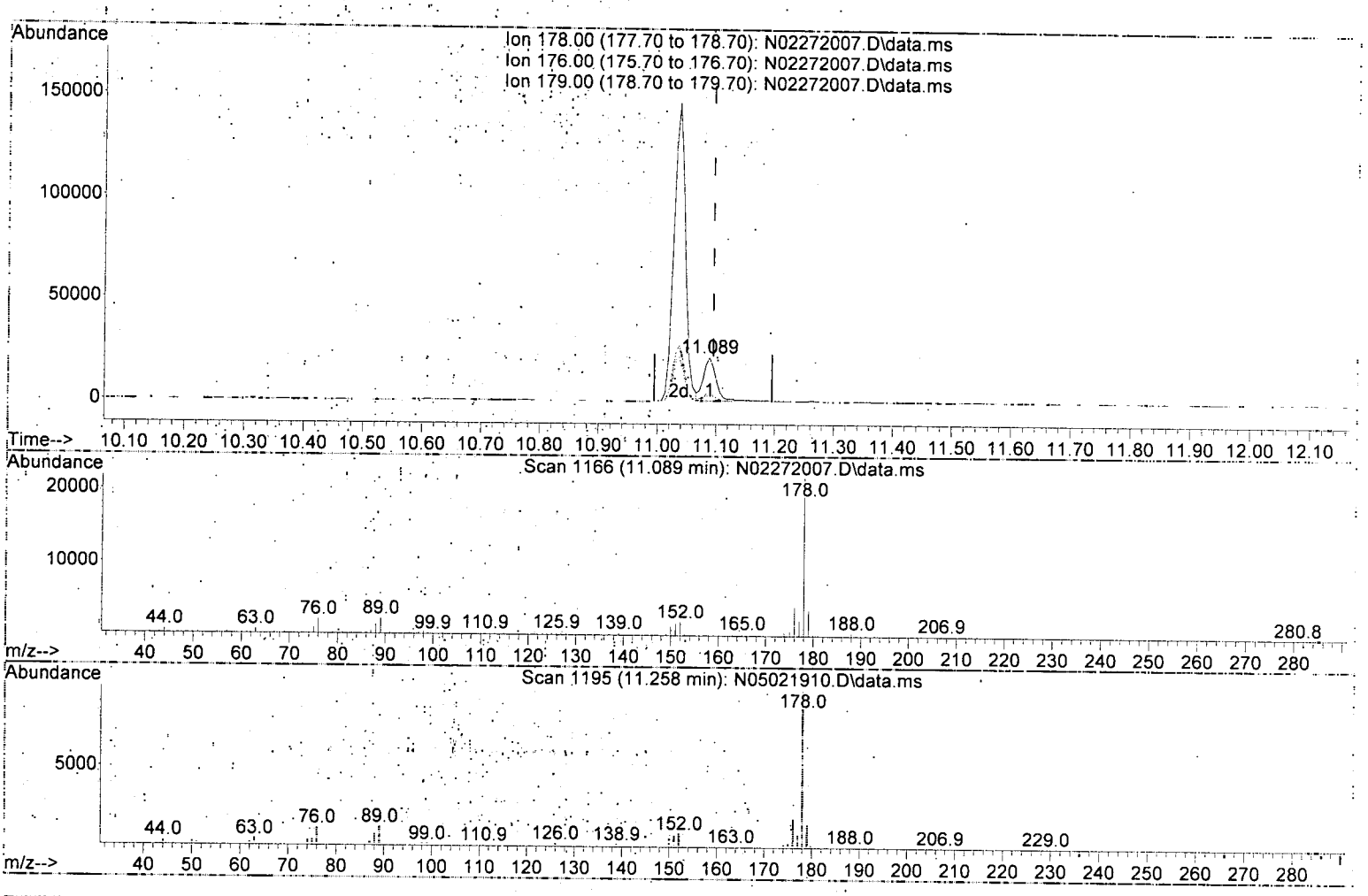
response 199575

Ion	Exp%	Act%
178.00	100.00	100.00
176.00	19.00	18.92
179.00	15.10	15.26
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B27023\
Data File : N02272007.D
Acq On : 27 Feb 2020 11:23 am
Operator : JK/ AMS/ DTH
Sample : A0B0680-02@1000
Misc : 1000x, 8270D PAH Only
ALS Vial : 7 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 27 12:42:15 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: N02272007.D\data.ms

(20) Anthracene (T)

11.089min (-0.006) 17.59 ng/ml

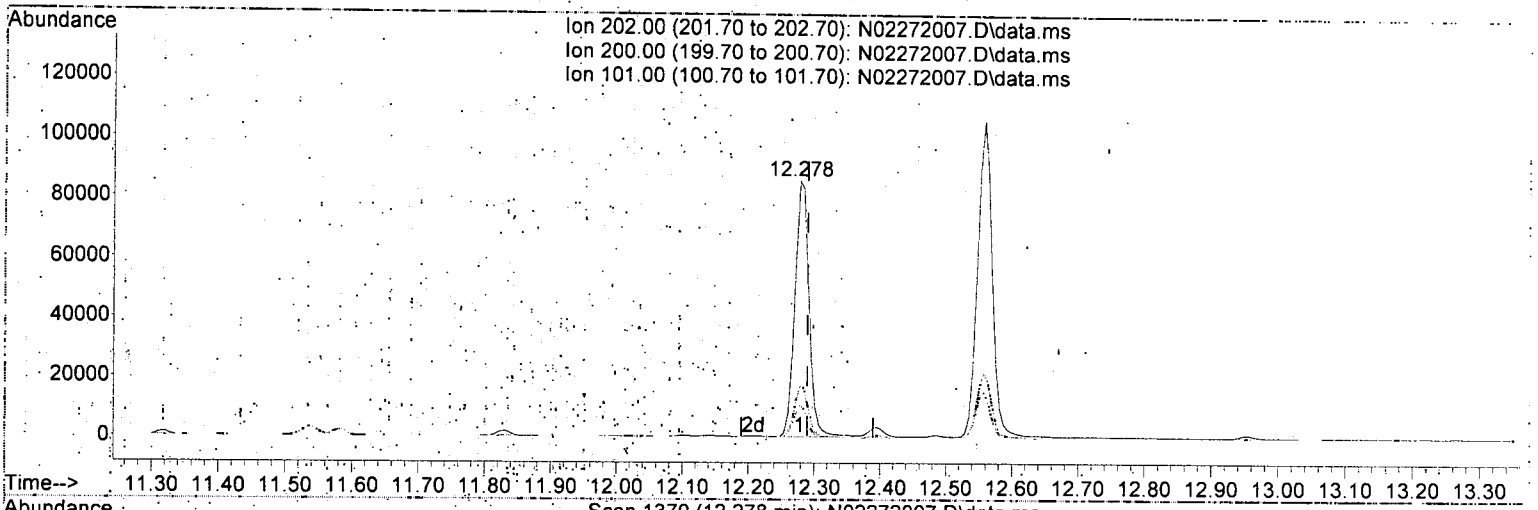
response 31701

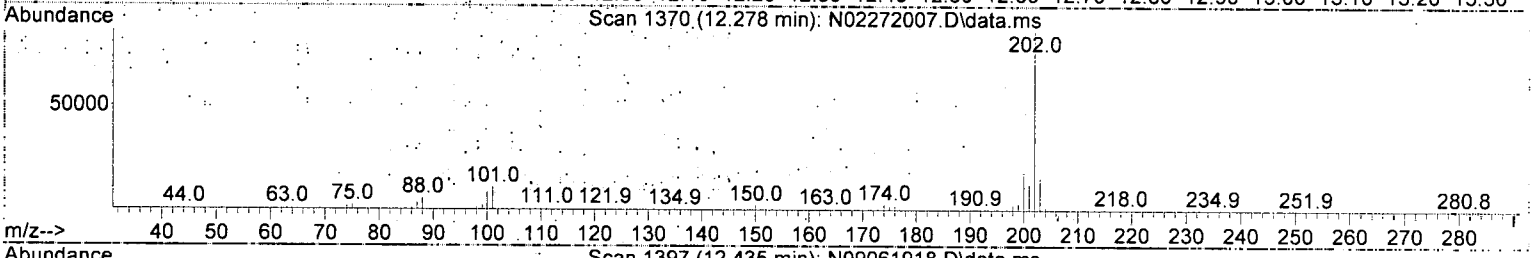
Ion	Exp%	Act%
178.00	100.00	100.00
176.00	18.90	18.70
179.00	15.30	16.22
0.00	0.00	0.00

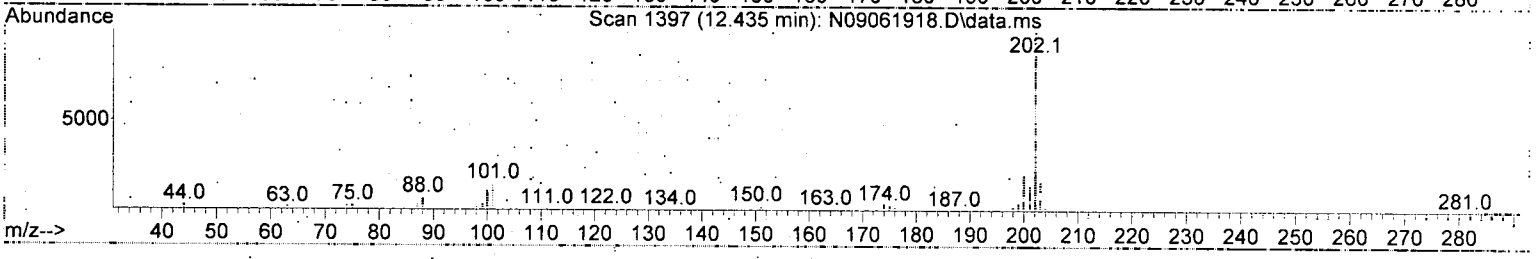
Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B27023\
Data File : N02272007.D
Acq On : 27 Feb 2020 11:23 am
Operator : JK/ AMS/ DTH
Sample : A0B0680-02@1000
Misc : 1000x, 8270D PAH Only
ALS Vial : 7 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 27 12:42:15 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: N02272007.D\data.ms

(23) Fluoranthene (T)

12.278min (-0.012) 66.49 ng/ml

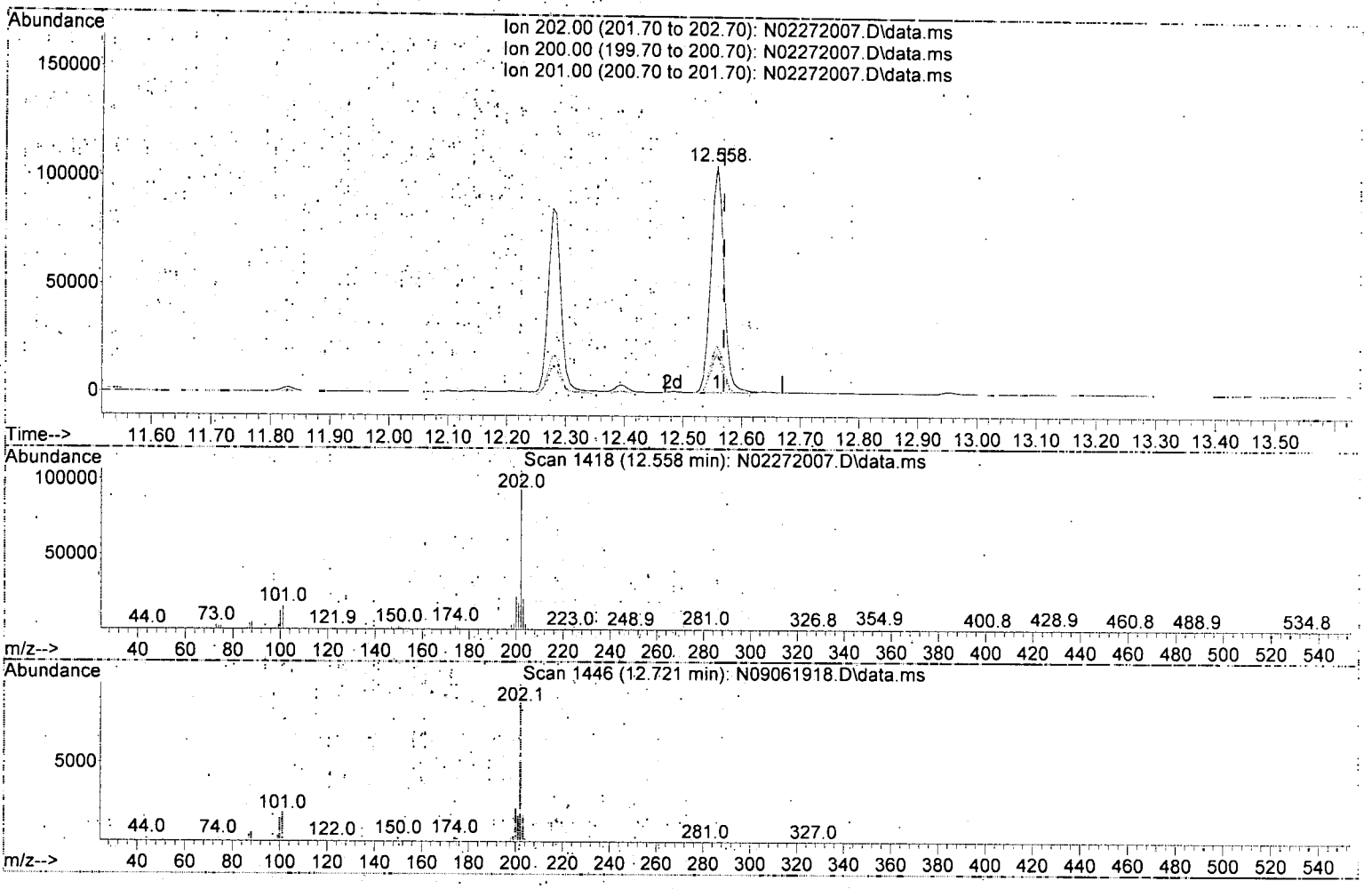
response 129802

Ion	Exp%	Act%
202.00	100.00	100.00
200.00	19.70	20.24
101.00	15.30	12.47
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B27023\
Data File : N02272007.D
Acq On : 27 Feb 2020 11:23 am
Operator : JK/ AMS/ DTH
Sample : A0B0680-02@1000
Misc : 1000x, 8270D PAH Only
ALS Vial : 7 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 27 12:42:15 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: N02272007.D\data.ms

(25) Pyrene (T)

12.558min (-0.012) 83.91 ng/ml

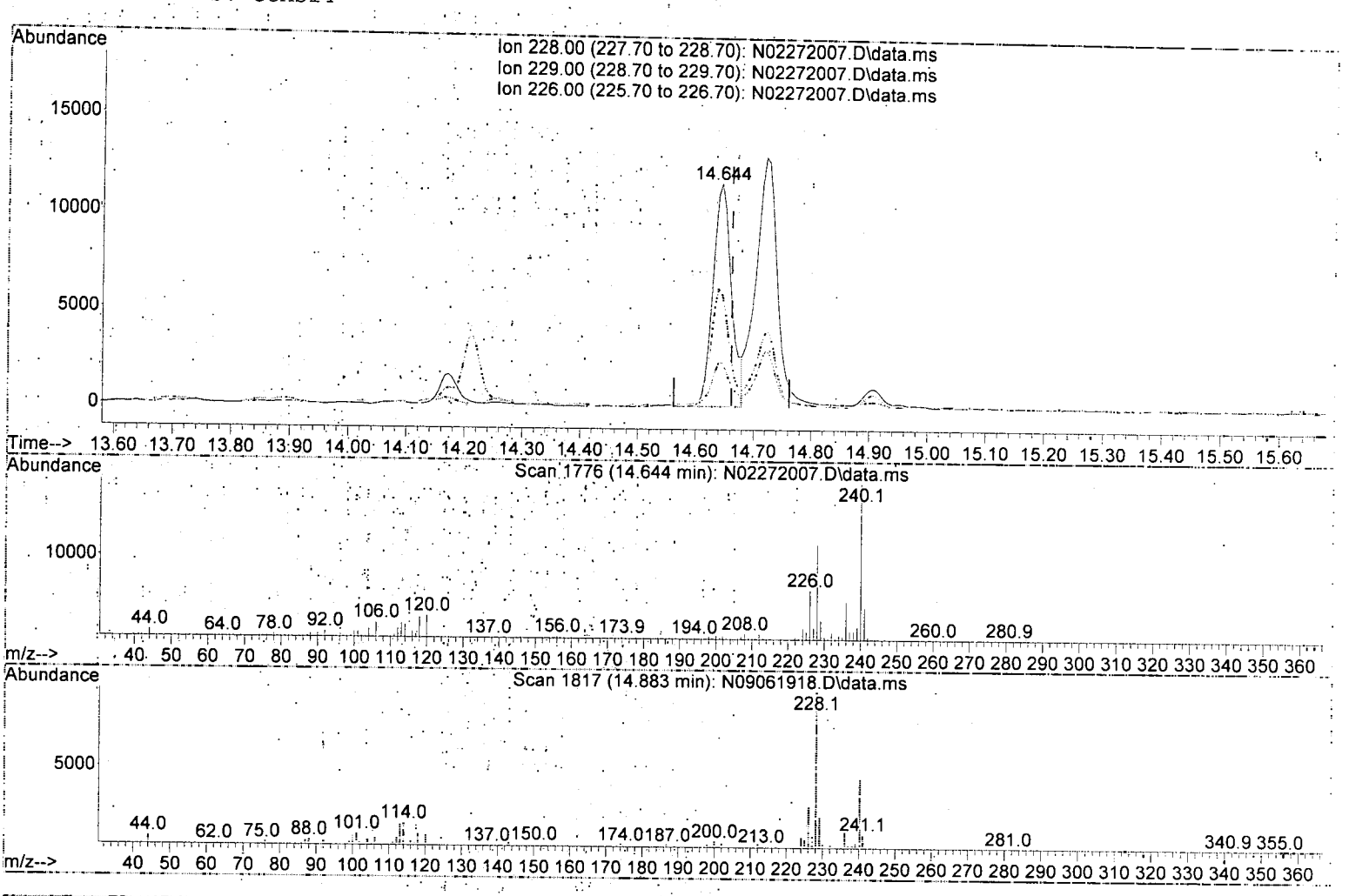
response 164640

Ion	Exp%	Act%
202.00	100.00	100.00
200.00	20.70	20.71
201.00	16.80	16.89
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B27023\
Data File : N02272007.D
Acq On : 27 Feb 2020 11:23 am
Operator : JK/ AMS/ DTH
Sample : A0B0680-02@1000
Misc : 1000x, 8270D PAH Only
ALS Vial : 7 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 27 12:42:15 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: N02272007.D\data.ms

(27) Benz(a)anthracene (T)

14.644min (-0.018) 17.86 ng/ml

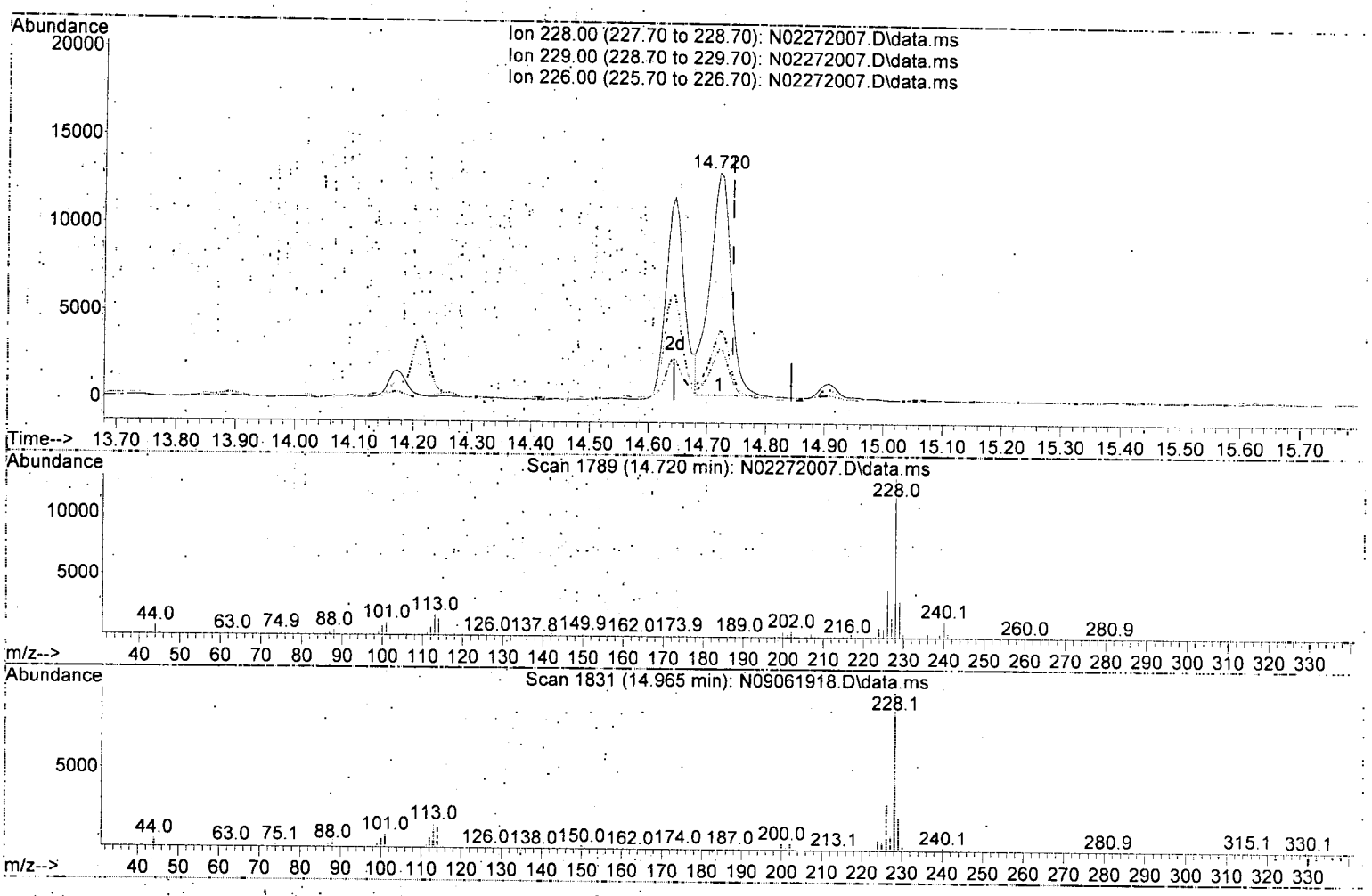
response 26036

Ion	Exp%	Act%
228.00	100.00	100.00
229.00	19.40	20.27
226.00	26.20	51.64
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B27023\
Data File : N02272007.D
Acq On : 27 Feb 2020 11:23 am
Operator : JK/ AMS/ DTH
Sample : A0B0680-02@1000
Misc : 1000x, 8270D PAH Only
ALS Vial : 7 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 27 12:42:15 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: N02272007.D\data.ms

(28) Chrysene (T)

14.720min (-0.024) 23.17 ng/ml

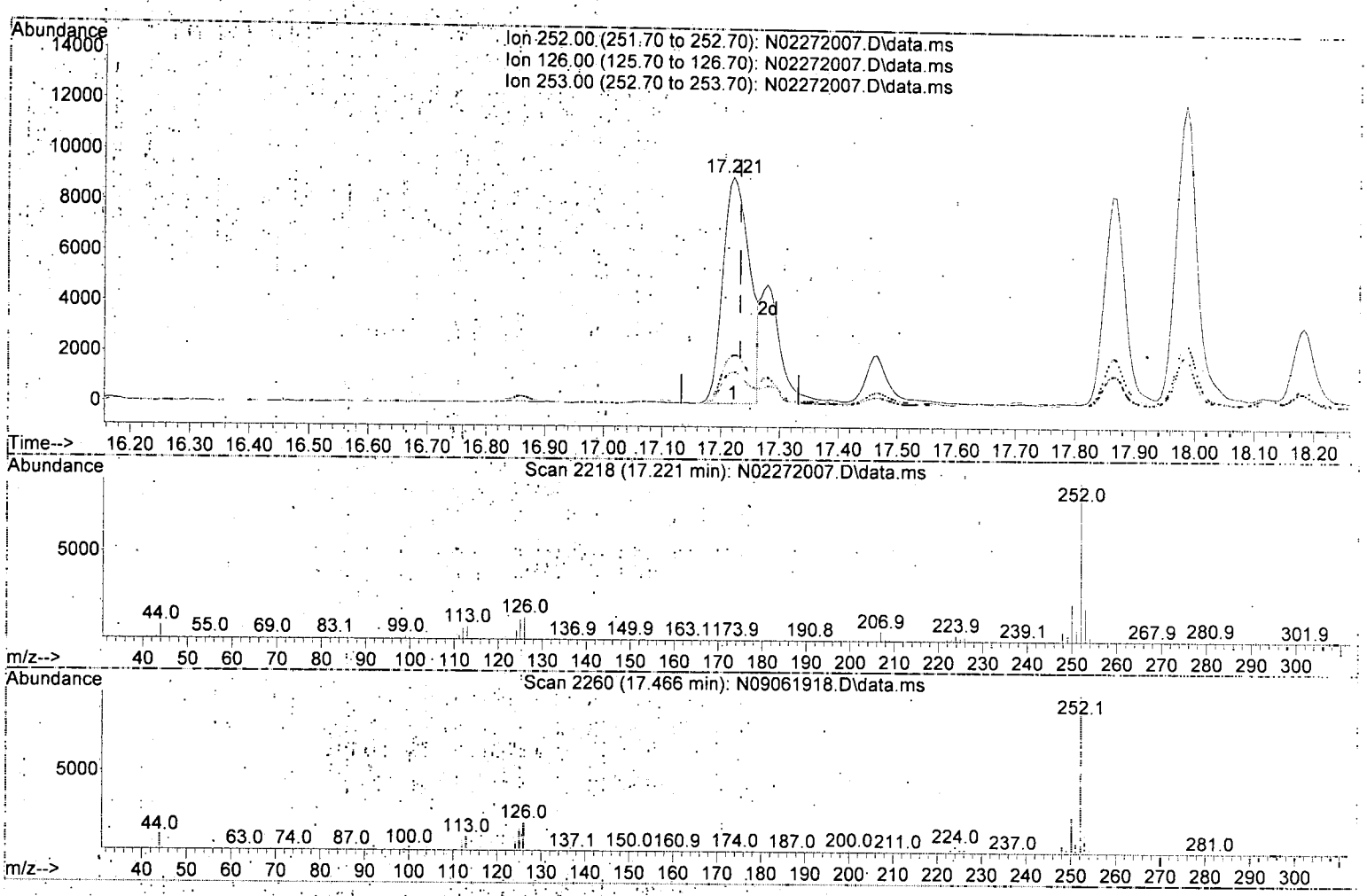
response 31974

Ion	Exp%	Act%
228.00	100.00	100.00
229.00	19.60	22.74
226.00	28.60	30.26
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B27023\
Data File : N02272007.D
Acq On : 27 Feb 2020 11:23 am
Operator : JK/ AMS/ DTH
Sample : A0B0680-02@1000
Misc : 1000x, 8270D PAH Only
ALS Vial : 7 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 27 12:42:15 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: N02272007.D\data.ms

(30) Benzo(b)fluoranthene (T)

17.221min (-0.012) 20.48 ng/ml

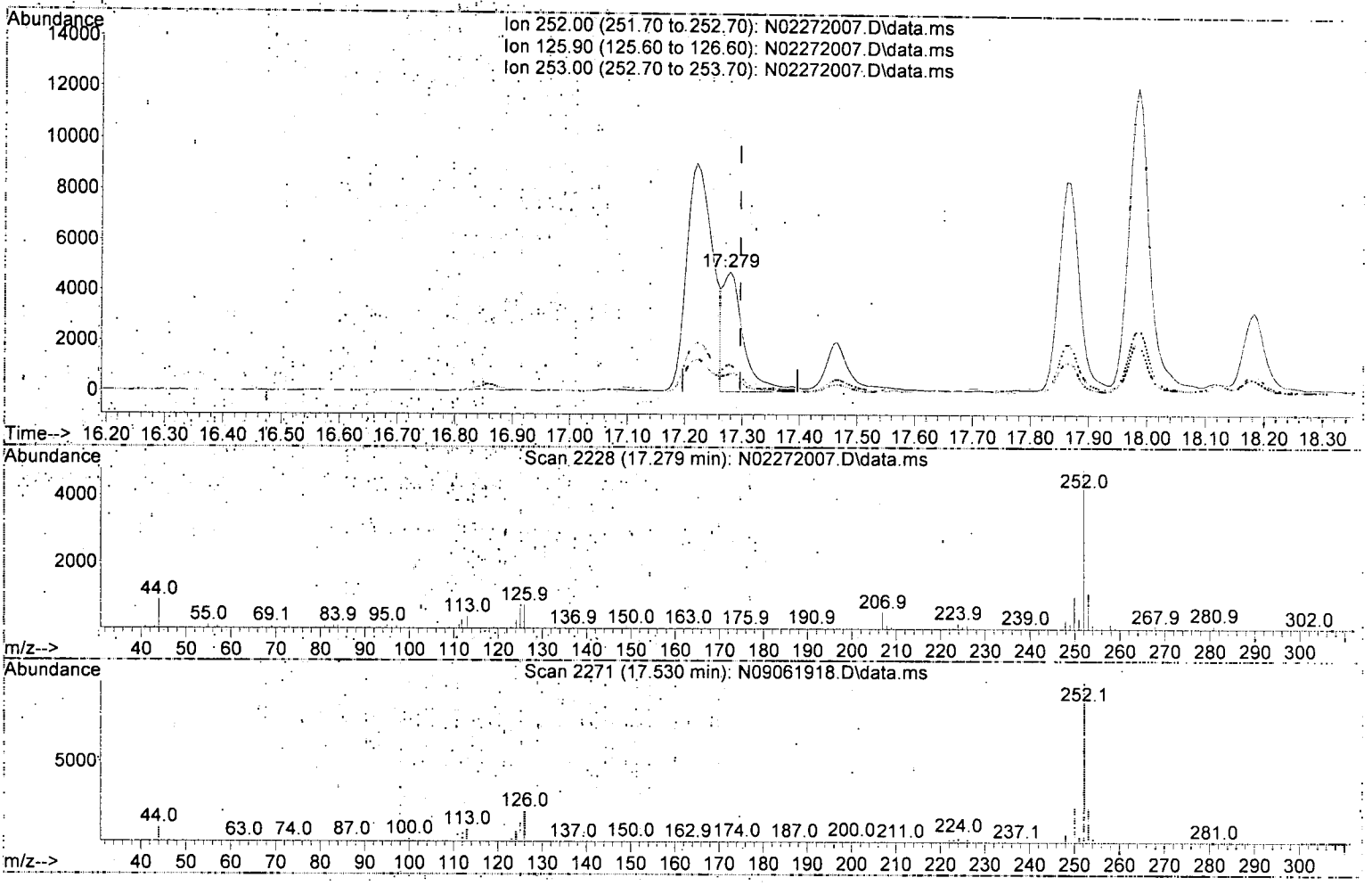
response 28646

Ion	Exp%	Act%
252.00	100.00	100.00
126.00	20.00	14.14
253.00	21.10	21.42
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B27023\
Data File : N02272007.D
Acq On : 27 Feb 2020 11:23 am
Operator : JK/ AMS/ DTH
Sample : A0B0680-02@1000
Misc : 1000x, 8270D PAH Only
ALS Vial : 7 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 27 12:42:15 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: N02272007.D\data.ms

(31) Benzo(k)fluoranthene (T)

17.279min (-0.018) 8.27 ng/ml m

response 11386

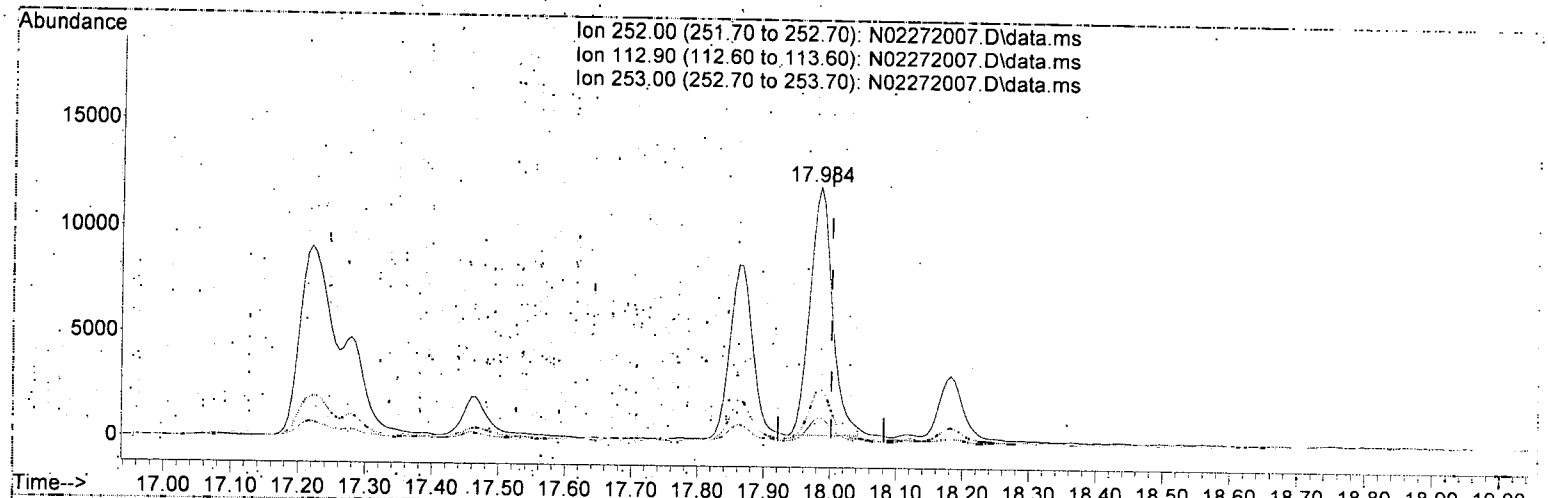
Ion	Exp%	Act%
252.00	100.00	100.00
125.90	22.10	14.97
253.00	21.50	22.74
0.00	0.00	0.00

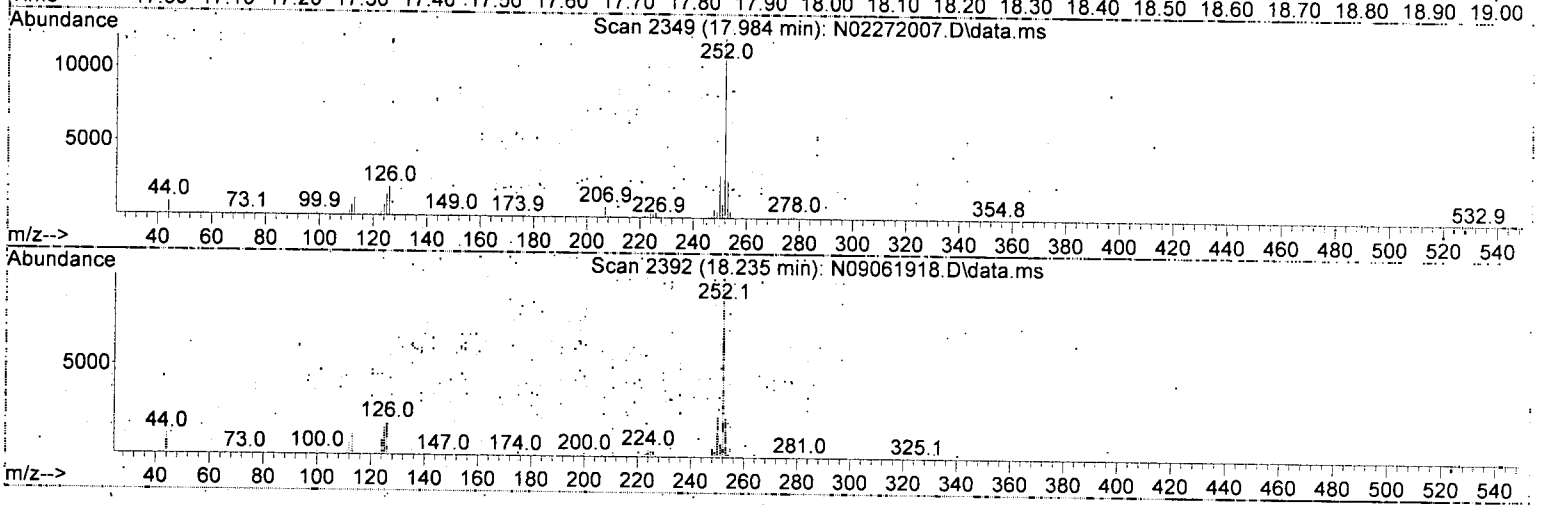
AMS 2/27/20 MOS

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B27023\
Data File : N02272007.D
Acq On : 27 Feb 2020 11:23 am
Operator : JK/ AMS/ DTH
Sample : A0B0680-02@1000
Misc : 1000x, 8270D PAH Only
ALS Vial : 7 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 27 12:42:15 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: N02272007.D\data.ms

(35) Benzo(a)pyrene (T)

17.984min (-0.018) 23.44 ng/ml

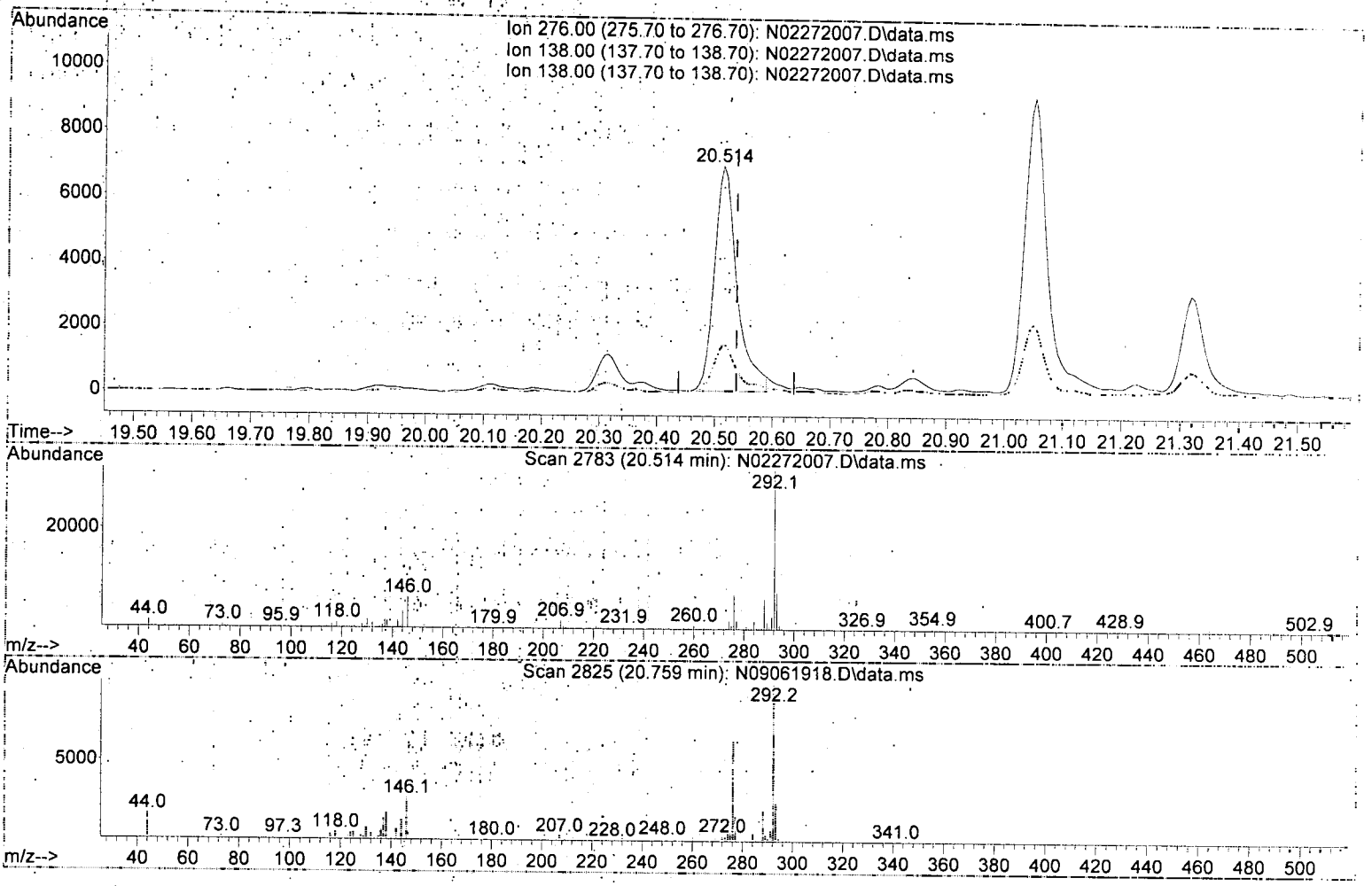
response 28065

Ion	Exp%	Act%
252.00	100.00	100.00
112.90	12.70	9.83
253.00	21.90	21.09
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B27023\
Data File : N02272007.D
Acq On : 27 Feb 2020 11:23 am
Operator : JK/ AMS/ DTH
Sample : A0B0680-02@1000
Misc : 1000x, 8270D PAH Only
ALS Vial : 7 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 27 12:42:15 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: N02272007.D\data.ms

(38) Indeno(1,2,3-cd)Pyrene (T)

20.514min (-0.024) 16.74 ng/ml

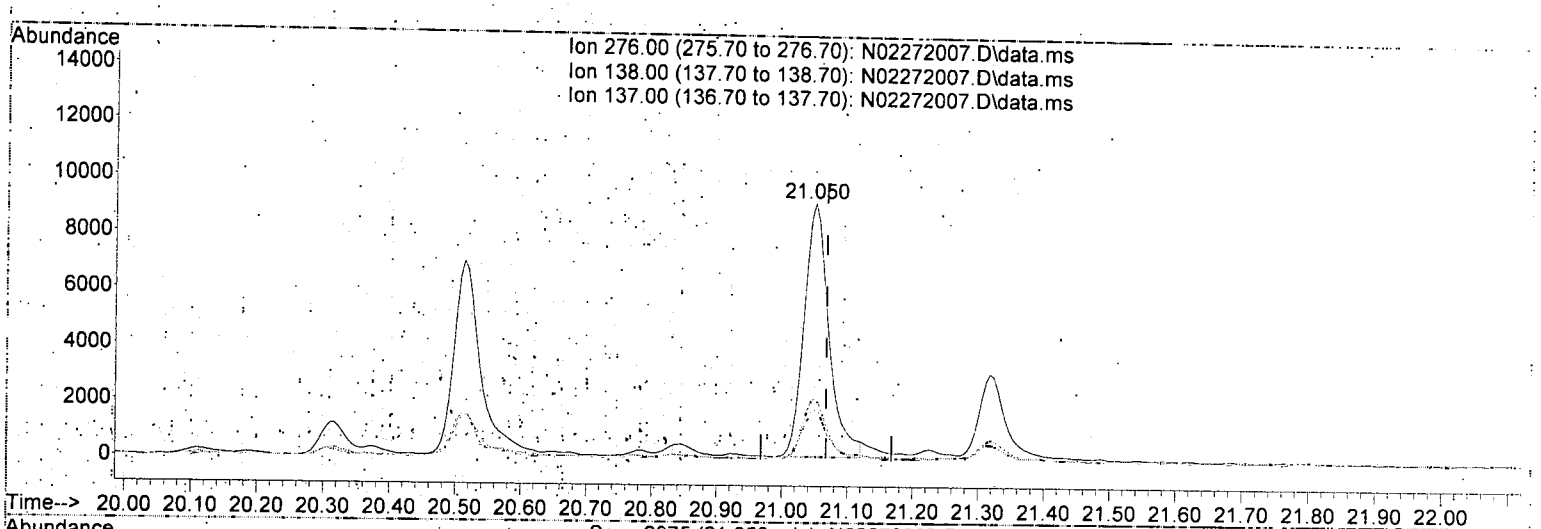
response 19035

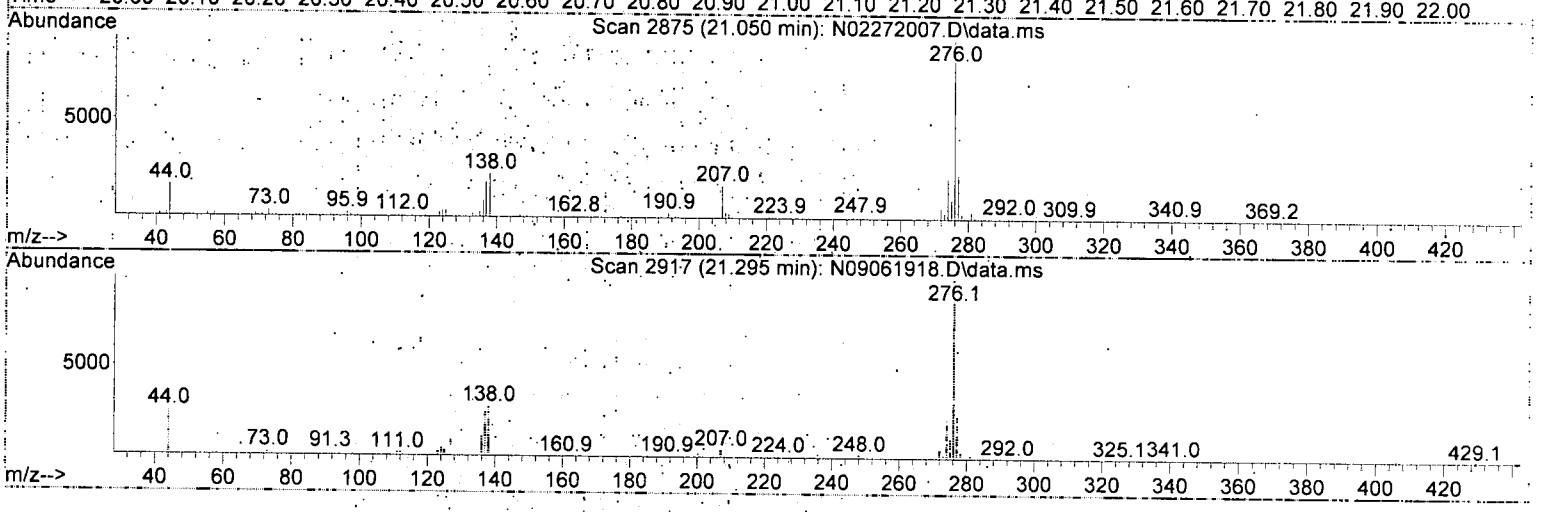
Ion	Exp%	Act%
276.00	100.00	100.00
138.00	31.60	21.62
138.00	31.60	21.62
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B27023\
Data File : N02272007.D
Acq On : 27 Feb 2020 11:23 am
Operator : JK/ AMS/ DTH
Sample : A0B0680-02@1000
Misc : 1000x, 8270D PAH Only
ALS Vial : 7 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 27 12:42:15 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: N02272007.D\data.ms

(40) Benzo(g,h,i)perylene (T)

21.050min (-0.018) 19.89 ng/ml

response 23990

Ion	Exp%	Act%
276.00	100.00	100.00
138.00	21.00	24.08
137.00	18.60	19.60
0.00	0.00	0.00

No Name Entered Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-02\0B27023\
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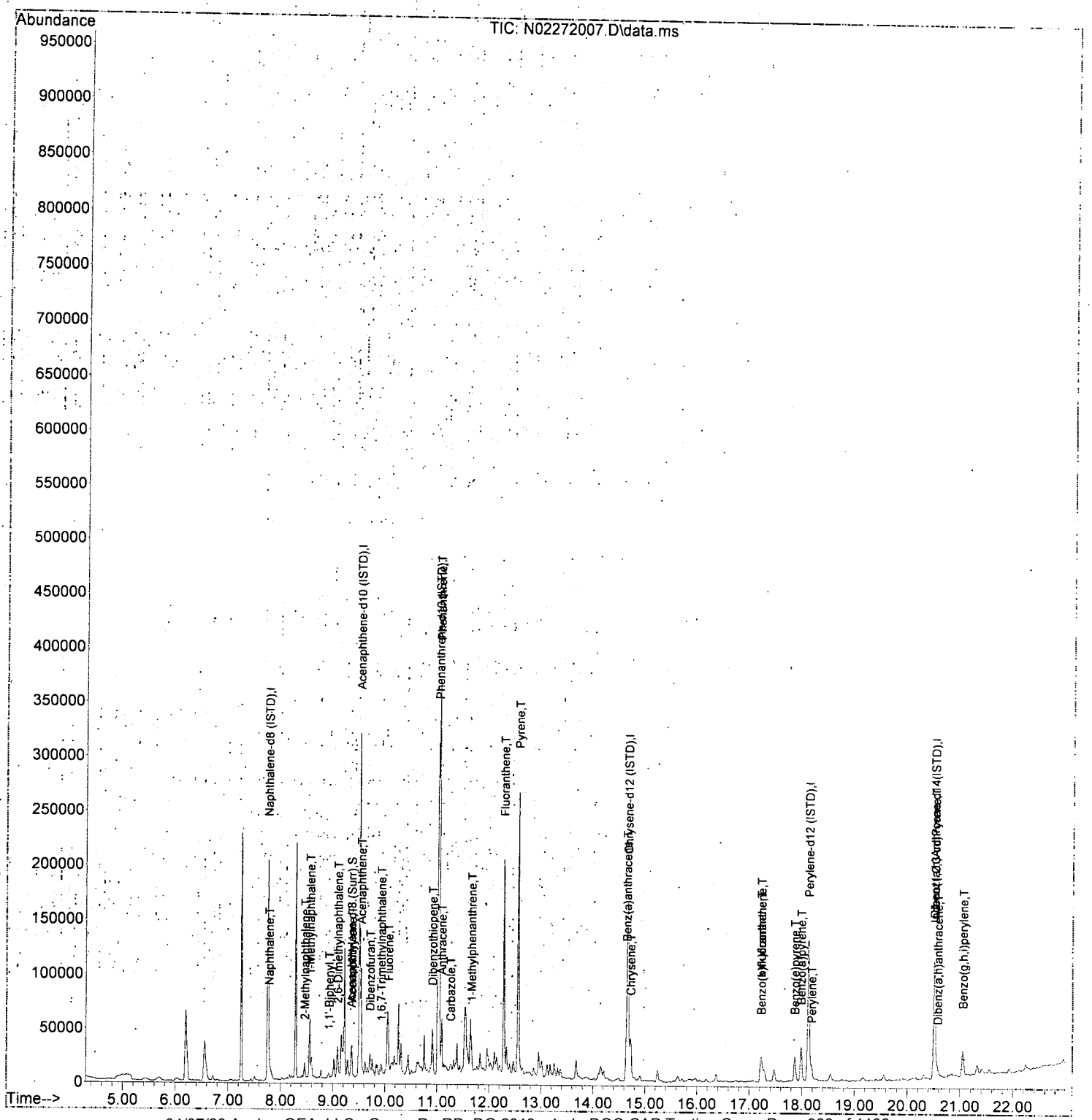
Misc : 1000x, 8270D PAH Only
ALS Vial : 7 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 27 12:42:15 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\0B27023\
Data File : N02272008.D
Acq On : 27 Feb 2020 11:55 am
Operator : JK/ AMS/ DTH
Sample : A0B0680-03@1000
Misc : 1000x, 8270D PAH Only
ALS Vial : 8 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 27 12:42:18 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 2/27/20 MOS

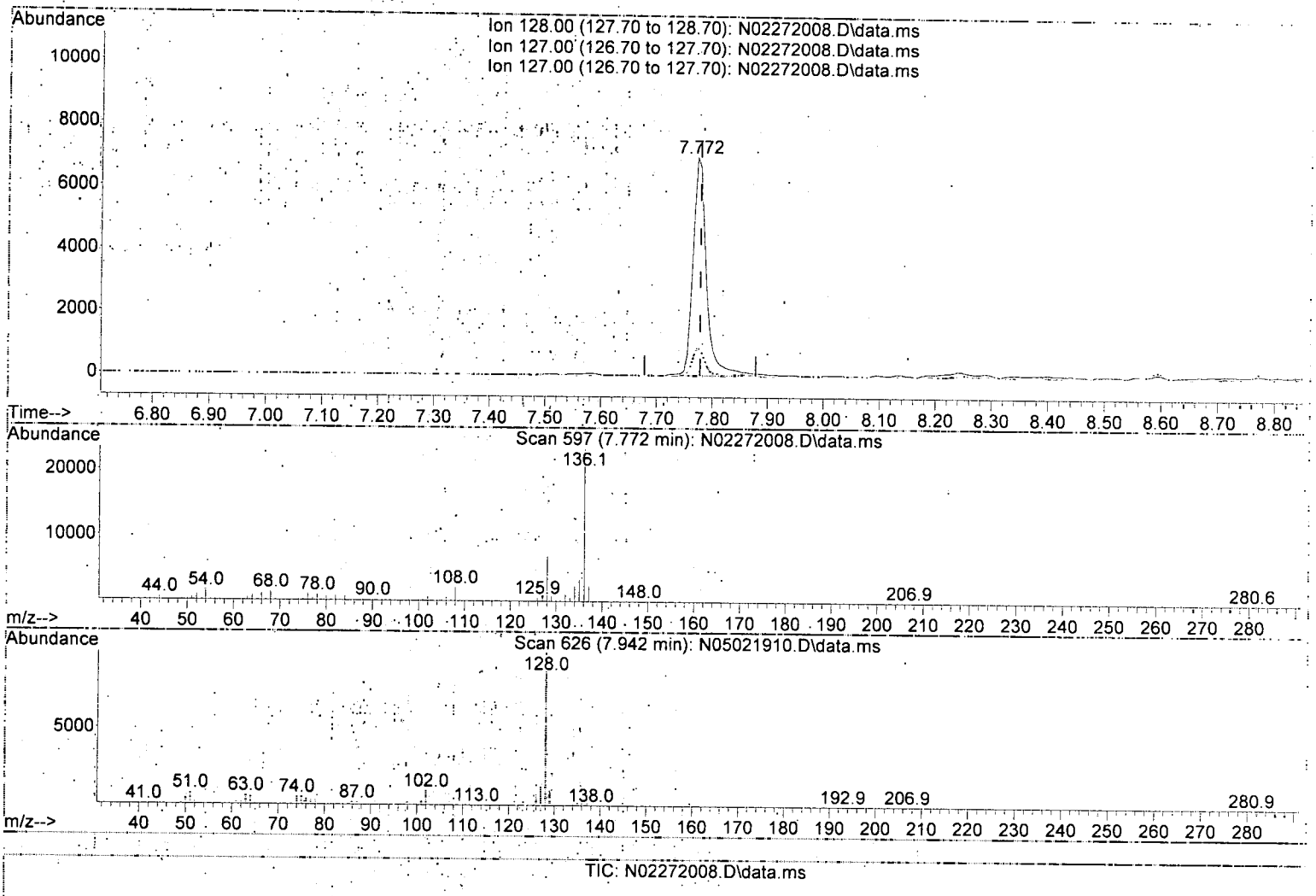
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.755	136	164502	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.503	162	105963	100.00	ng/ml	-0.01
17) Phenanthrene-d10 (ISTD)	11.013	188	182592	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.662	240	145087	100.00	ng/ml	-0.02
29) Perylene-d12 (ISTD)	18.124	264	138396	100.00	ng/ml	-0.02
37) Dibenz(a,h)Anthrcene-d...	20.508	292	107765	100.00	ng/ml	-0.02
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	0.000	82	0	0.00	ng/ml	
10) 2-Fluorobiphenyl (Surr)	8.827	172	138	0.09	ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	9.352	160	5598	1.18	ng/ml	0.00
26) Terphenyl-d14 (Surr)	12.756	244	198	0.13	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	11744	6.47	ng/ml	99
5) 2-Methylnaphthalene	8.460	142	2896	1.88	ng/ml	96
6) 1-Methylnaphthalene	8.559	142	18615	12.11	ng/ml	98
7) 1,1'-Biphenyl	8.926	154	946	0.46	ng/ml	90
8) 2,6-Dimethylnaphthalene	9.090	156	7732	5.12	ng/ml	99
12) Acenaphthylene	9.364	152	9335	4.06	ng/ml	96
13) Acenaphthene	9.538	153	35556	23.60	ng/ml	99
14) Dibenzofuran	9.719	168	3875	2.05	ng/ml	92
15) 1,6,7-Trimethylnaphtha...	9.923	170	2349	1.86	ng/ml	93
16) Fluorene	10.063	166	23257	15.08	ng/ml	97
18) Dibenzothiopene	10.908	184	26234	13.74	ng/ml	96
19) Phenanthrene	11.036	178	230165	107.72	ng/ml	100
20) Anthracene	11.089	178	35446	17.84	ng/ml	97
21) Carbazole	11.258	167	2015	1.25	ng/ml	83
22) 1-Methylphenanthrene	11.660	192	6361	4.29	ng/ml	96
23) Fluoranthene	12.278	202	165928	77.08	ng/ml	97
25) Pyrene	12.558	202	204815	90.36	ng/ml	99
27) Benz(a)anthracene	14.644	228	29193	17.33	ng/ml	67
28) Chrysene	14.720	228	38715	24.29	ng/ml	96
30) Benzo(b)fluoranthene	17.221	252	36602	22.92	ng/ml	94
31) Benzo(k)fluoranthene	~~17.221~~	~~252~~	~~46003~~	~~29.26~~	~~ng/ml~~	~~92~~ MI-MOS
32) Benzo(b+k)fluoranthene	17.221	252	52462	32.12	ng/ml	92
34) Benzo(e)pyrene	17.862	252	25929	16.06	ng/ml	97
35) Benzo(a)pyrene	17.984	252	36415	26.64	ng/ml	96
36) Perylene	18.182	252	11296	6.71	ng/ml	99
38) Indeno(1,2,3-cd)Pyrene	20.514	276	25667	19.31	ng/ml	84
39) Dibenz(a,h)anthracene	20.572	278	2368	1.90	ng/ml	80
40) Benzo(g,h,i)perylene	21.050	276	32560	23.09	ng/ml	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B27023\
Data File : N02272008.D
Acq On : 27 Feb 2020 11:55 am
Operator : JK/ AMS/ DTH
Sample : A0B0680-03@1000
Misc : 1000x, 8270D PAH Only
ALS Vial : 8 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 27 12:42:18 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: N02272008.D\data.ms

(4) Naphthalene (T)

7.772min (-0.006) 6.47 ng/ml

response 11744

Ion	Exp%	Act%
128.00	100.00	100.00
127.00	12.60	12.82
127.00	12.60	12.82
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B27023\
Data File : N02272008.D
Acq On : 27 Feb 2020 11:55 am
Operator : JK/ AMS/ DTH
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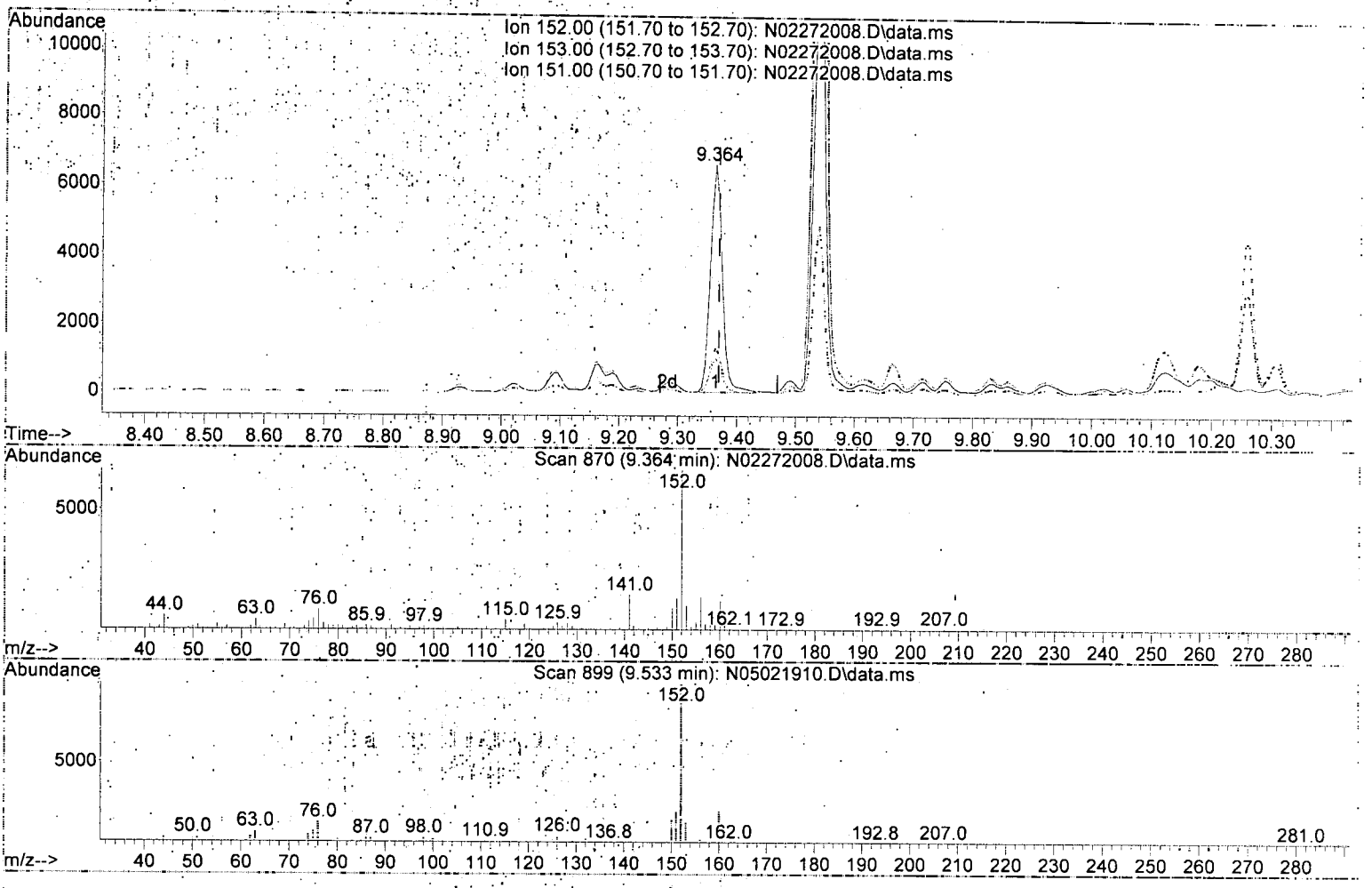
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02272008.D\data.ms

(12) Acenaphthylene (T)

9.364min (-0.006) 4.06 ng/ml

response 9335

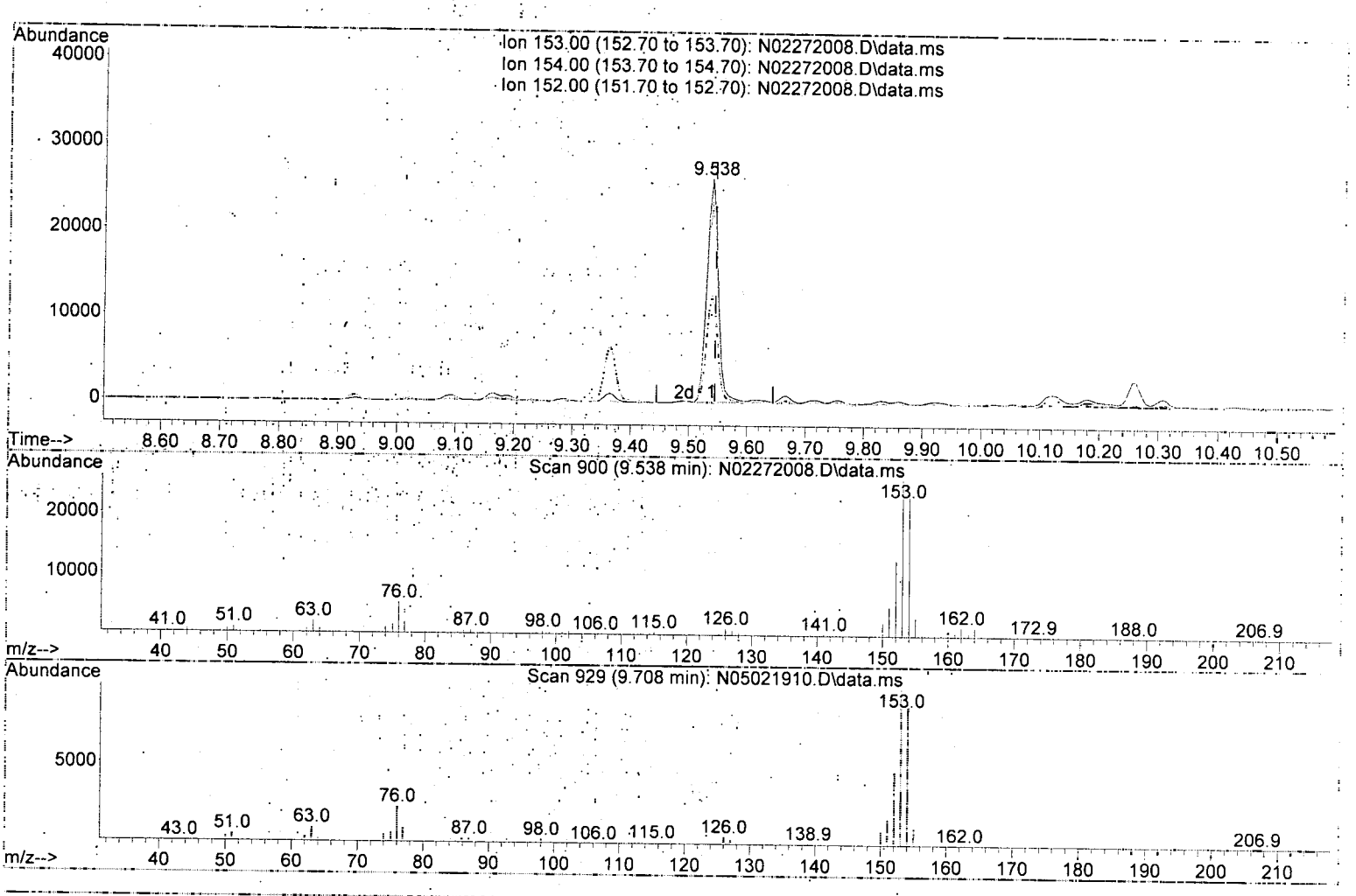
Ion	Exp%	Act%
152.00	100.00	100.00
153.00	12.70	15.61
151.00	19.30	20.20
0.00	0.00	0.00

J

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B27023\
Data File : N02272008.D
Acq On : 27 Feb 2020 11:55 am
Operator : JK/ AMS/ DTH
Sample : A0B0680-03@1000
Misc : 1000x, 8270D PAH Only
ALS Vial : 8 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 27 12:42:18 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: N02272008.D\data.ms

(13) Acenaphthene (T)

9.538min (-0.006) 23.60 ng/ml

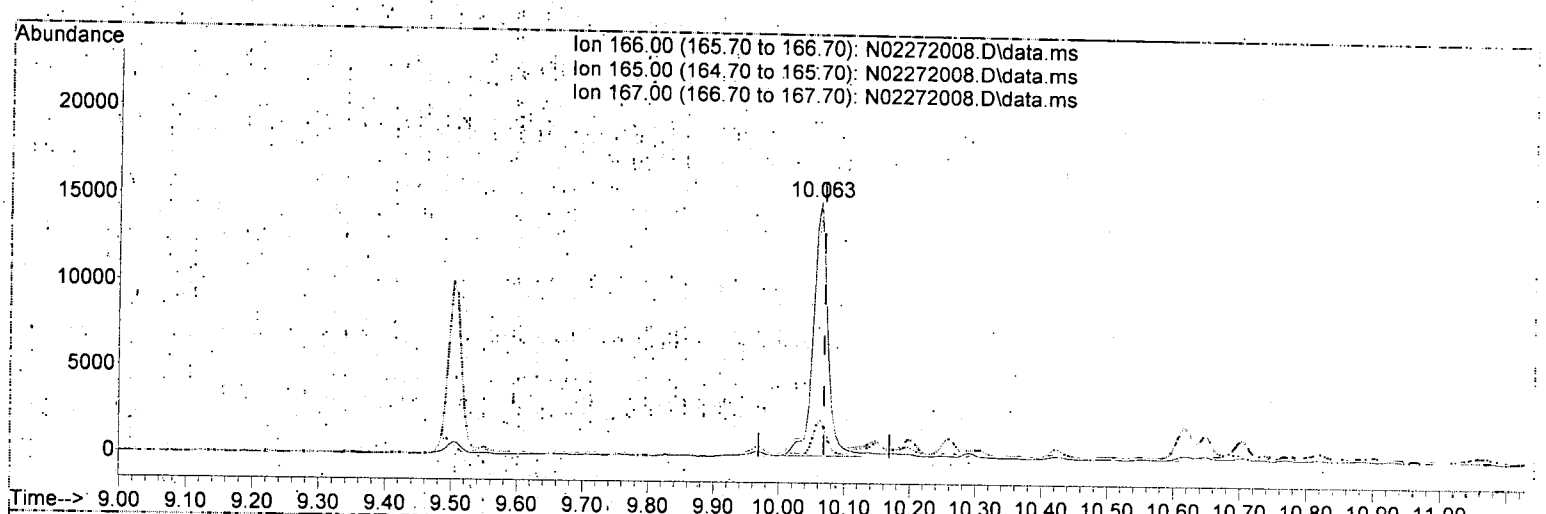
response 35556

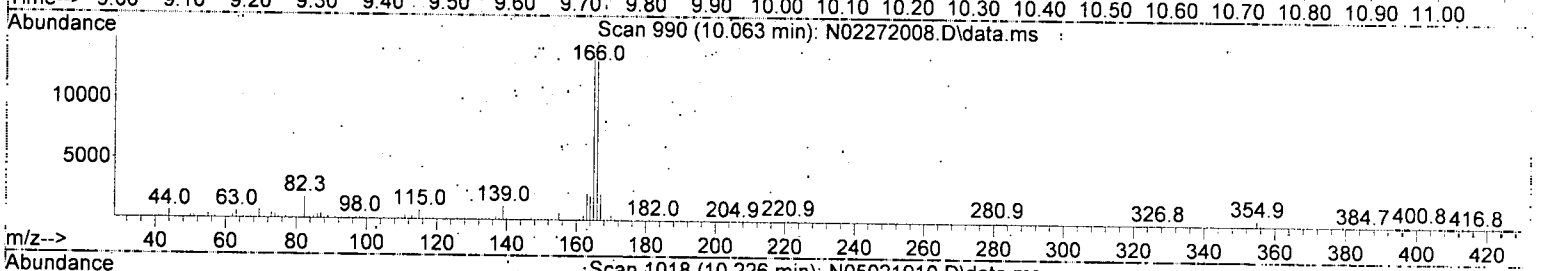
Ion	Exp%	Act%
153.00	100.00	100.00
154.00	90.70	90.23
152.00	46.80	48.65
0.00	0.00	0.00

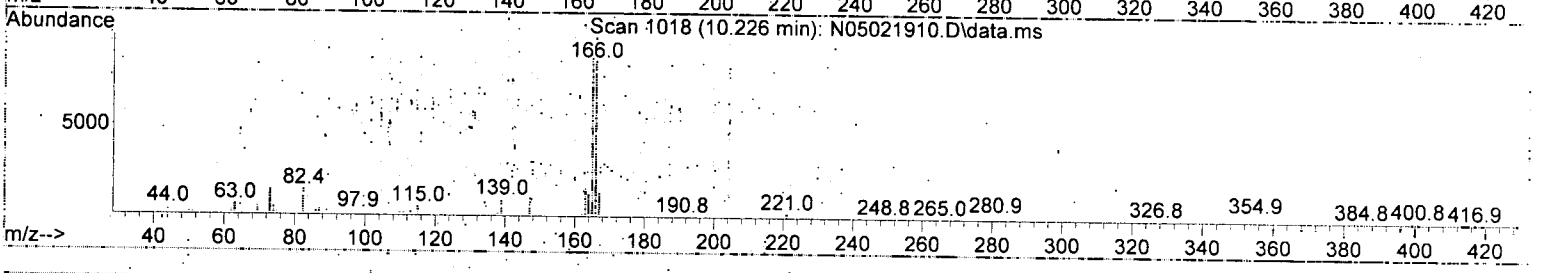
Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B27023\
Data File : N02272008.D
Acq On : 27 Feb 2020 11:55 am
Operator : JK/ AMS/ DTH
Sample : A0B0680-03@1000
Misc : 1000x, 8270D PAH Only
ALS Vial : 8 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 27 12:42:18 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: N02272008.D\data.ms

(16) Fluorene (T)

10.063min (-0.006) 15.08 ng/ml

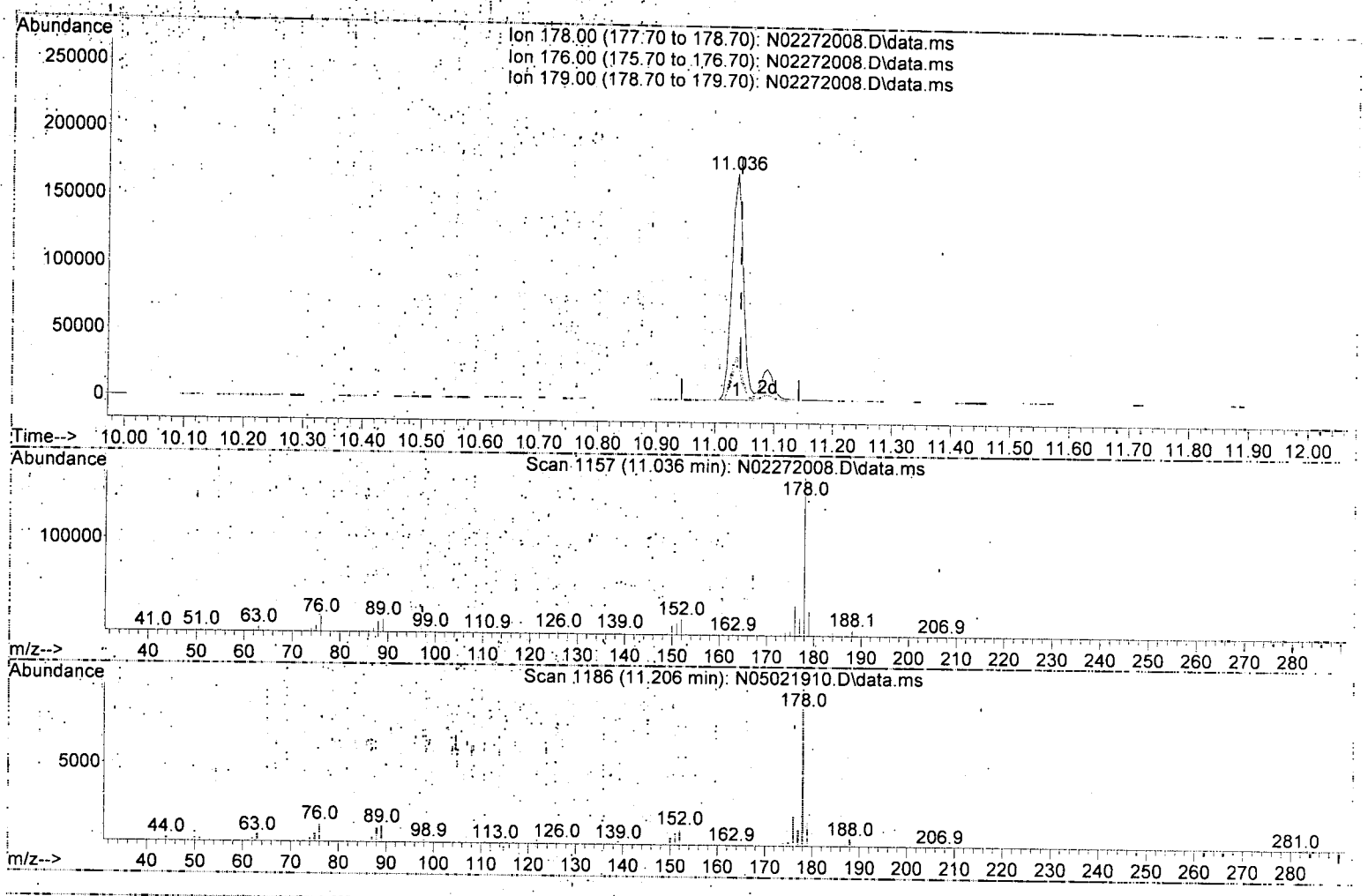
response 23257

Ion	Exp%	Act%
166.00	100.00	100.00
165.00	95.70	93.23
167.00	13.60	14.61
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B27023\
Data File : N02272008.D
Acq On : 27 Feb 2020 11:55 am
Operator : JK/ AMS/ DTH
Sample : A0B0680-03@1000
Misc : 1000x, 8270D PAH Only
ALS Vial : 8 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 27 12:42:18 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: N02272008.D\data.ms

(19) Phenanthrene (T)

11.036min (-0.006) 107.72 ng/ml

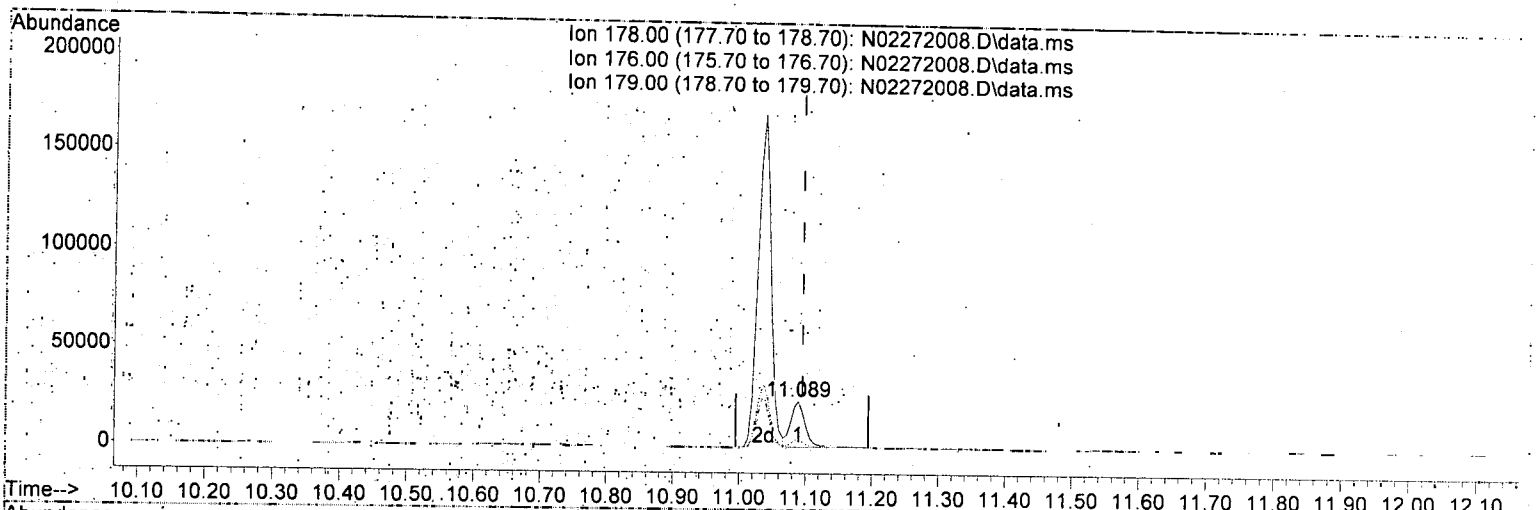
response 230165

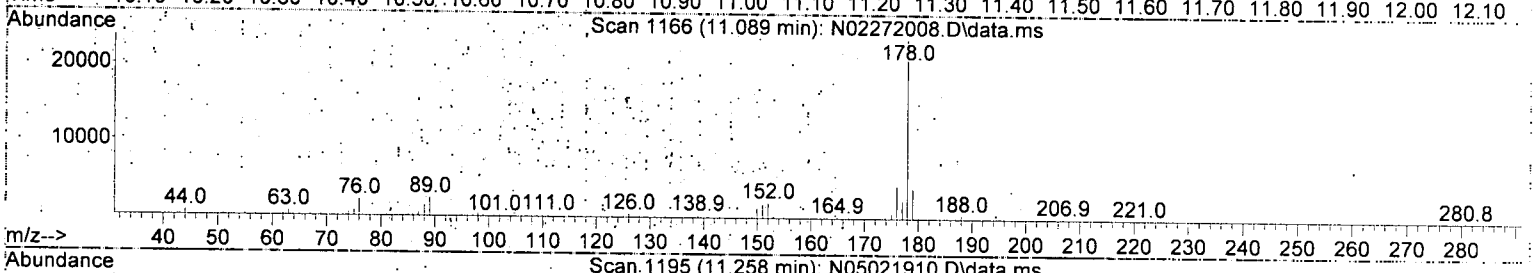
Ion	Exp%	Act%
178.00	100.00	100.00
176.00	19.00	19.10
179.00	15.10	15.34
0.00	0.00	0.00

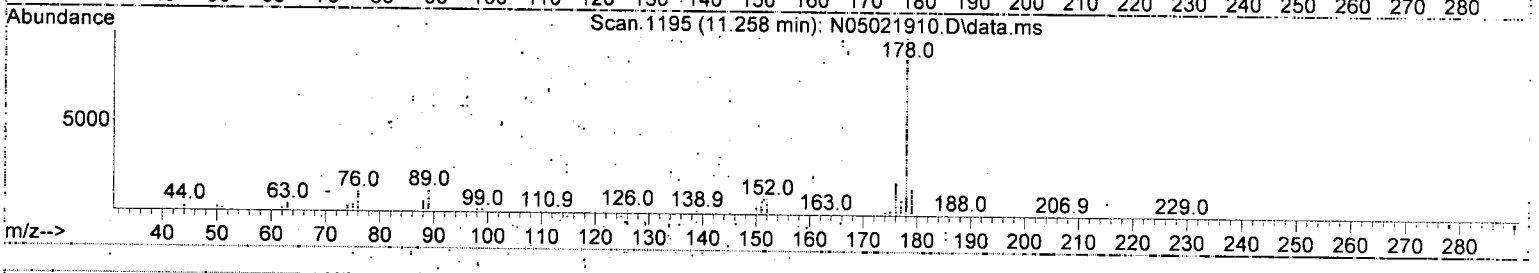
Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B27023\
Data File : N02272008.D
Acq On : 27 Feb 2020 11:55 am
Operator : JK/ AMS/ DTH
Sample : A0B0680-03@1000
Misc : 1000x, 8270D PAH Only
ALS Vial : 8 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 27 12:42:18 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: N02272008.D\data.ms

(20) Anthracene (T)

11.089min (-0.006) 17.84 ng/ml

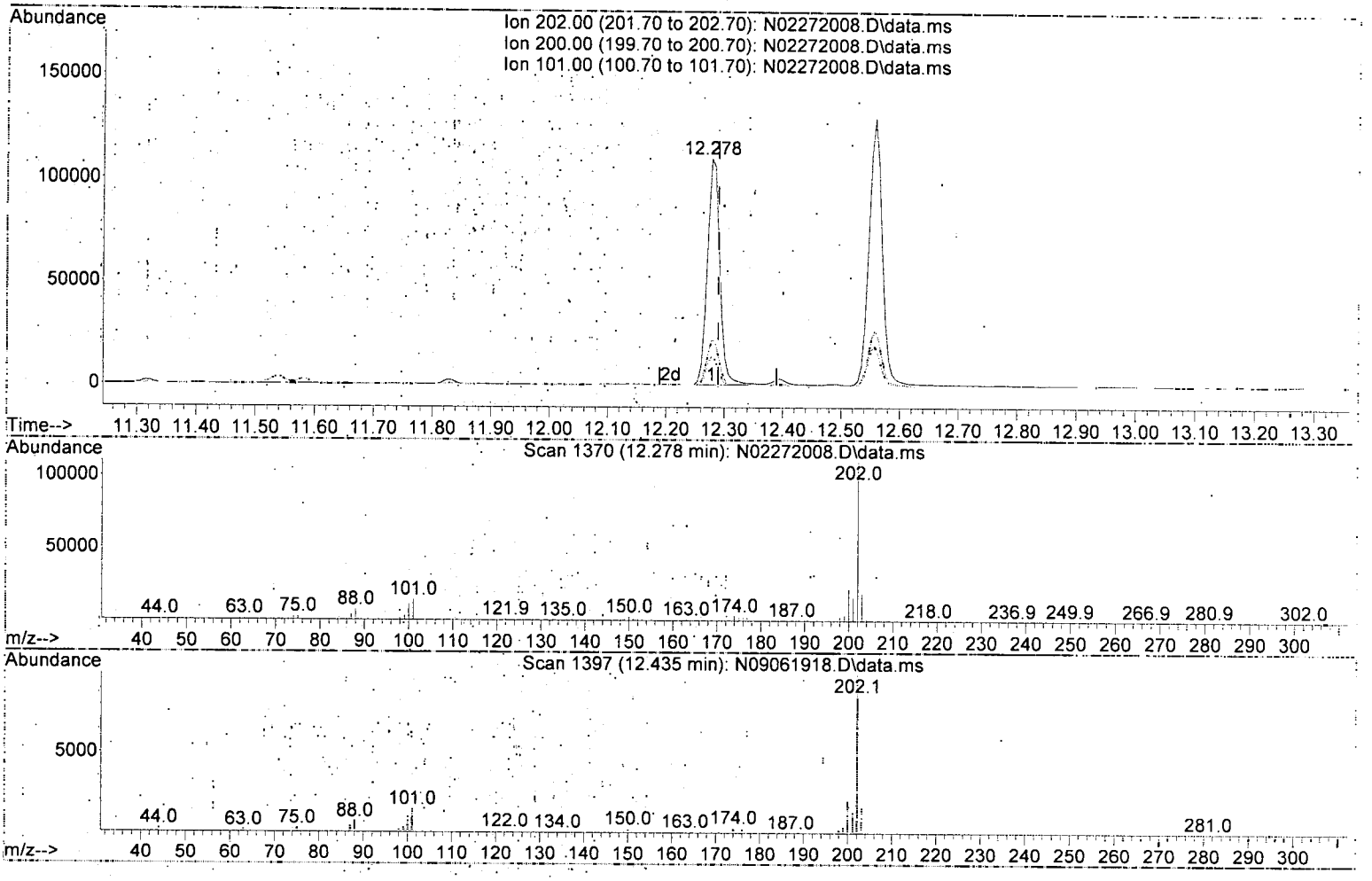
response 35446

Ion	Exp%	Act%
178.00	100.00	100.00
176.00	18.90	17.91
179.00	15.30	16.57
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B27023\
Data File : N02272008.D
Acq On : 27 Feb 2020 11:55 am
Operator : JK/ AMS/ DTH
Sample : A0B0680-03@1000
Misc : 1000x, 8270D PAH Only
ALS Vial : 8 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 27 12:42:18 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: N02272008.D\data.ms

(23) Fluoranthene (T)

12.278min (-0.012) 77.08 ng/ml

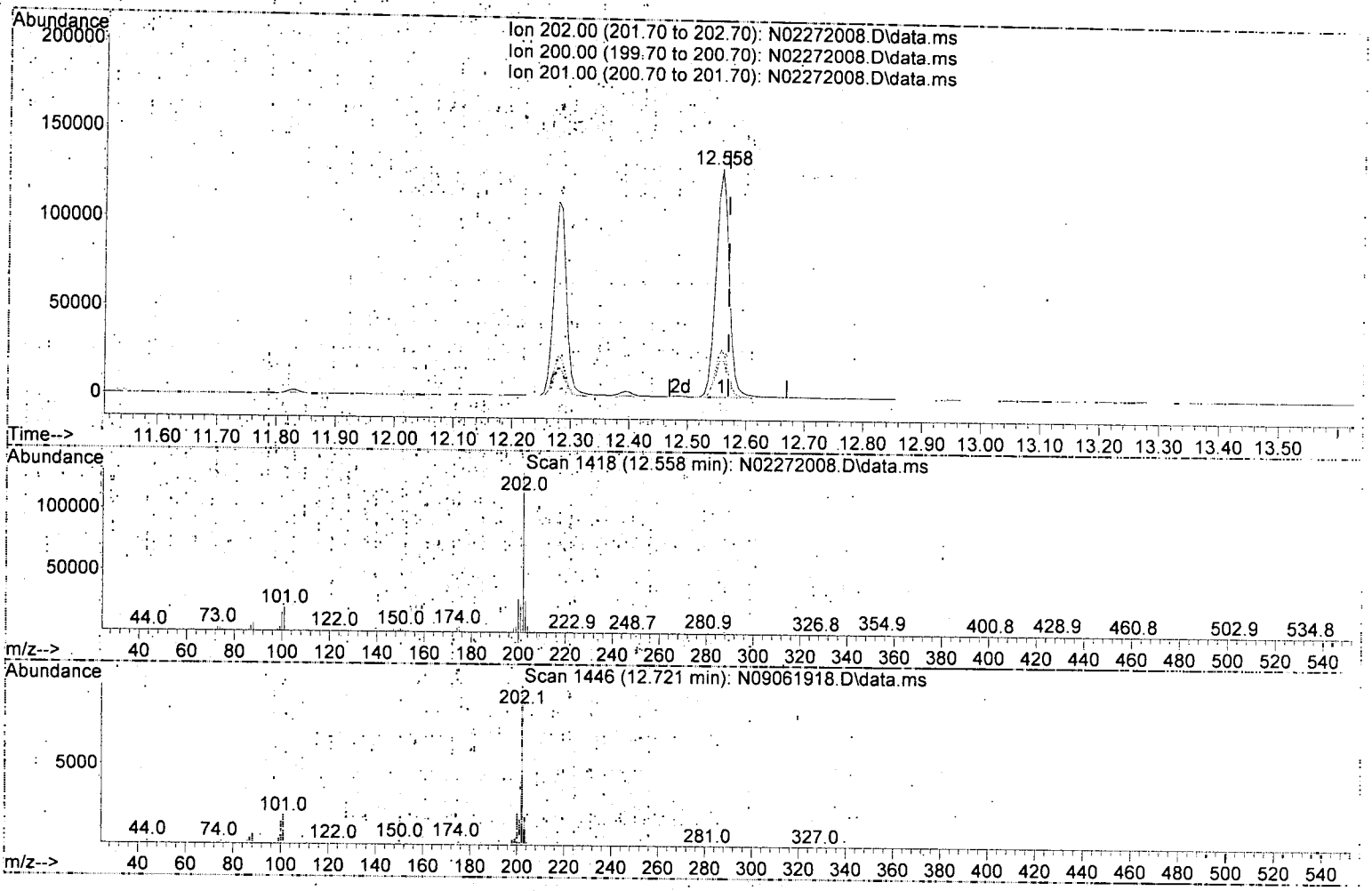
response 165928

Ion	Exp%	Act%
202.00	100.00	100.00
200.00	19.70	20.10
101.00	15.30	12.84
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B27023\
Data File : N02272008.D
Acq On : 27 Feb 2020 11:55 am
Operator : JK/ AMS/ DTH
Sample : A0B0680-03@1000
Misc : 1000x, 8270D PAH Only
ALS Vial : 8 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 27 12:42:18 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: N02272008.D\data.ms

(25) Pyrene (T)

12.558min (-0.012) 90.36 ng/ml

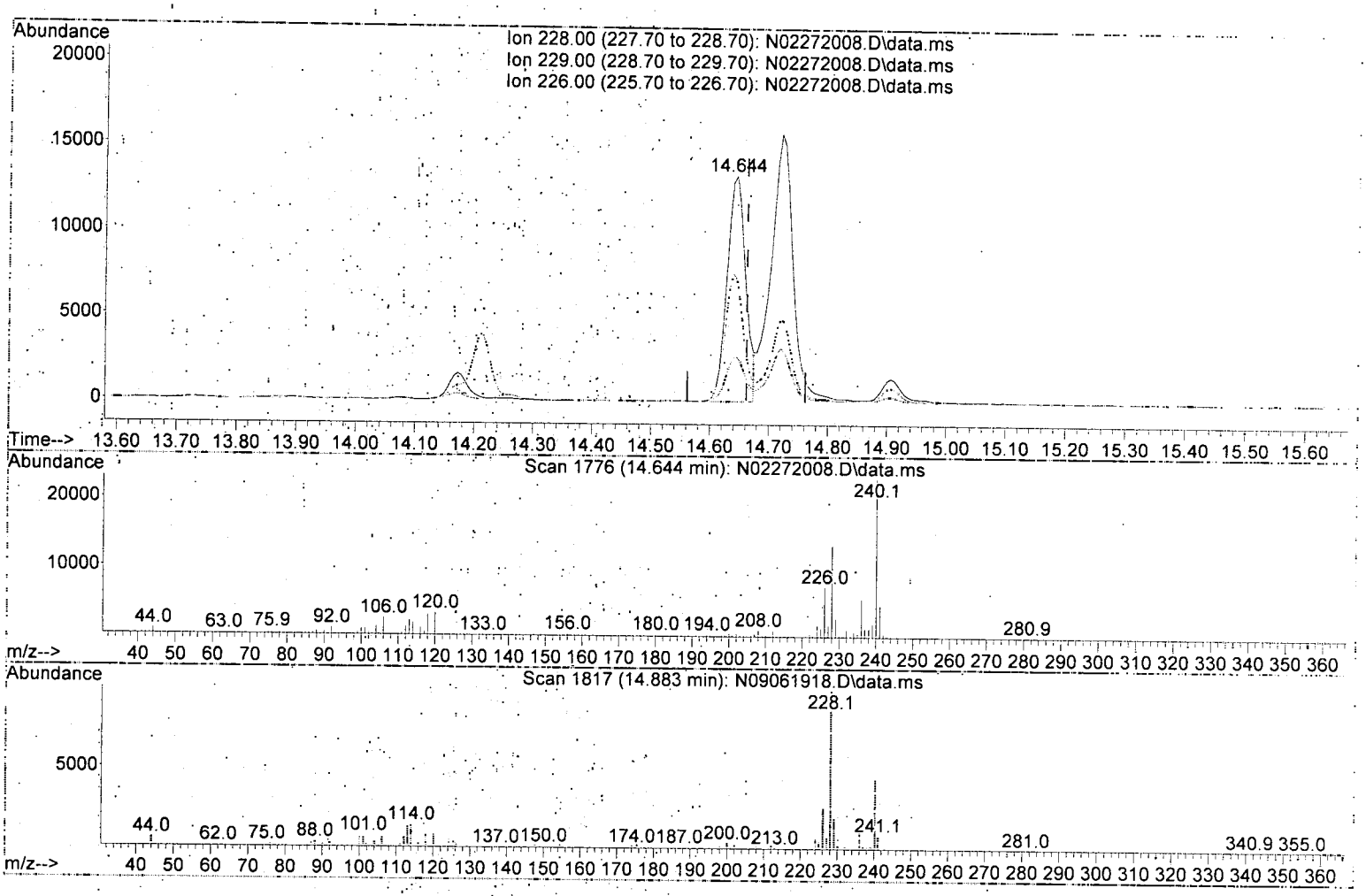
response 204815

Ion	Exp%	Act%
202.00	100.00	100.00
200.00	20.70	20.89
201.00	16.80	17.09
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B27023\
Data File : N02272008.D
Acq On : 27 Feb 2020 11:55 am
Operator : JK/ AMS/ DTH
Sample : A0B0680-03@1000
Misc : 1000x, 8270D PAH Only
ALS Vial : 8 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 27 12:42:18 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: N02272008.D\data.ms

(27) Benz(a)anthracene (T)

14.644min (-0.018) 17.33 ng/ml

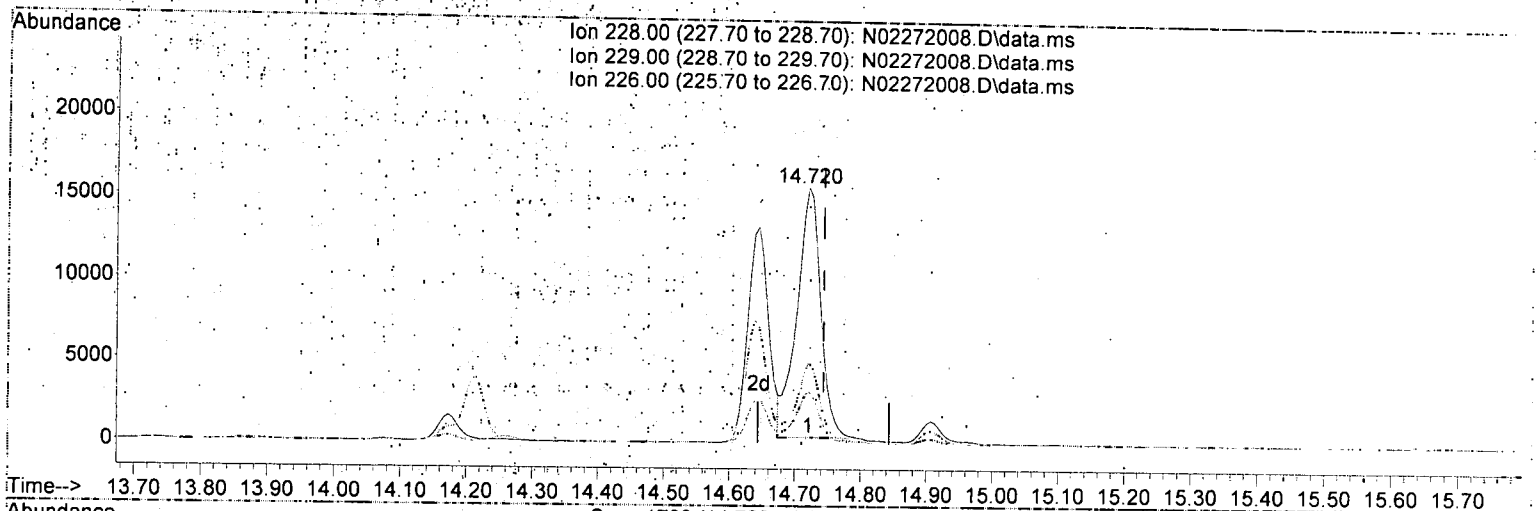
response 29193

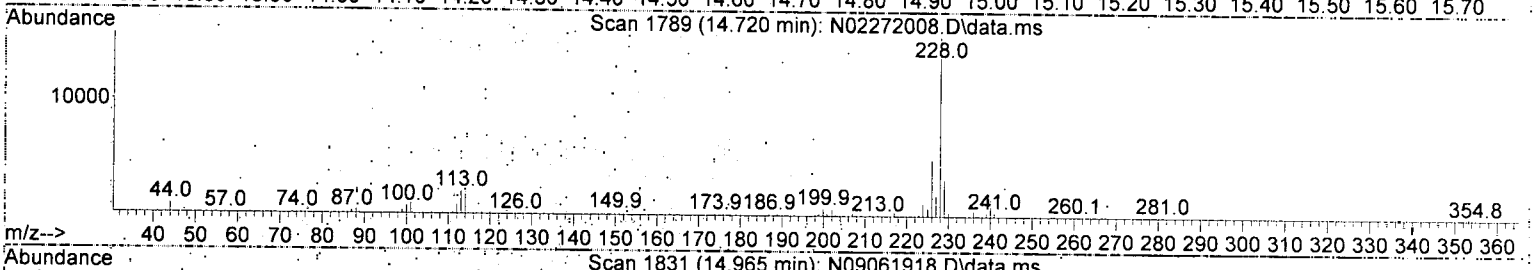
Ion	Exp%	Act%
228.00	100.00	100.00
229.00	19.40	20.14
226.00	26.20	54.77
0.00	0.00	0.00

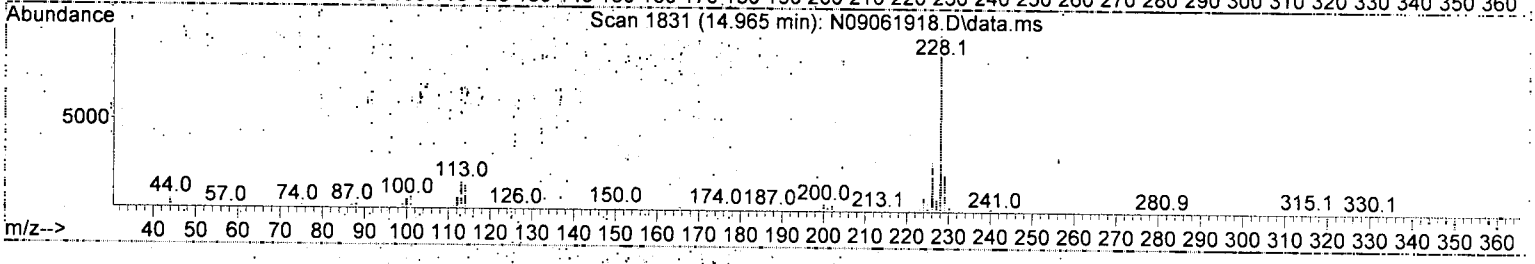
Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B27023\
Data File : N02272008.D
Acq On : 27 Feb 2020 11:55 am
Operator : JK/ AMS/ DTH
Sample : A0B0680-03@1000
Misc : 1000x, 8270D PAH Only
ALS Vial : 8 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 27 12:42:18 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: N02272008.D\data.ms

(28) Chrysene (T)

14.720min (-0.024) 24.29 ng/ml

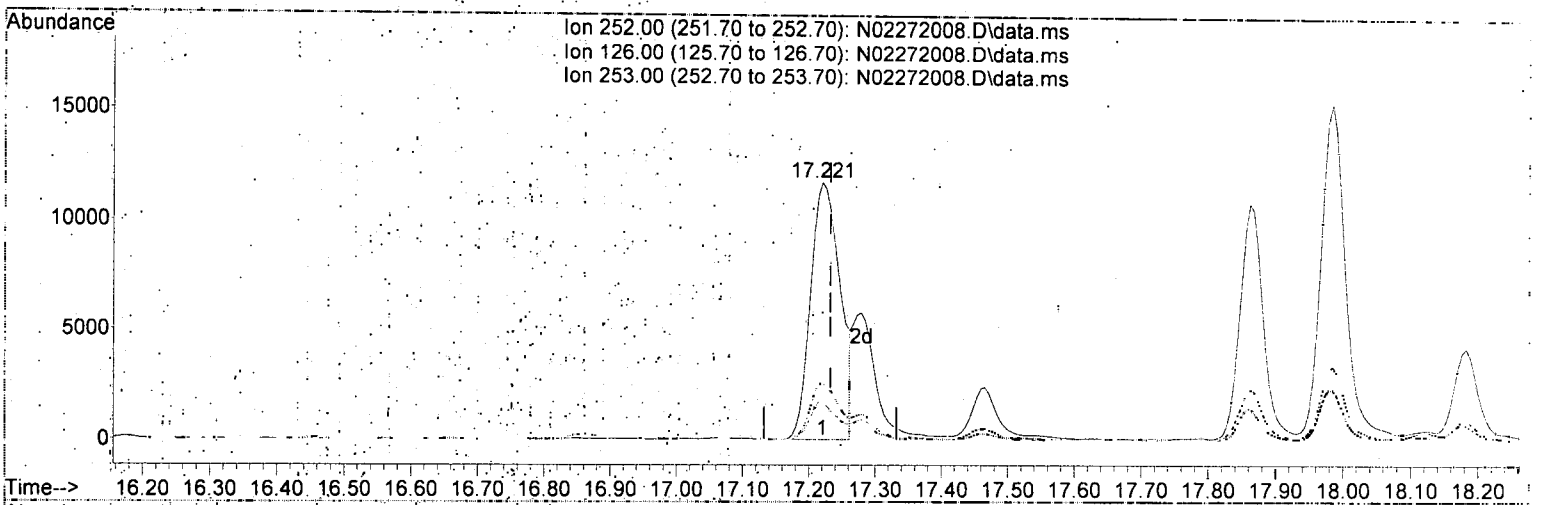
response 38715

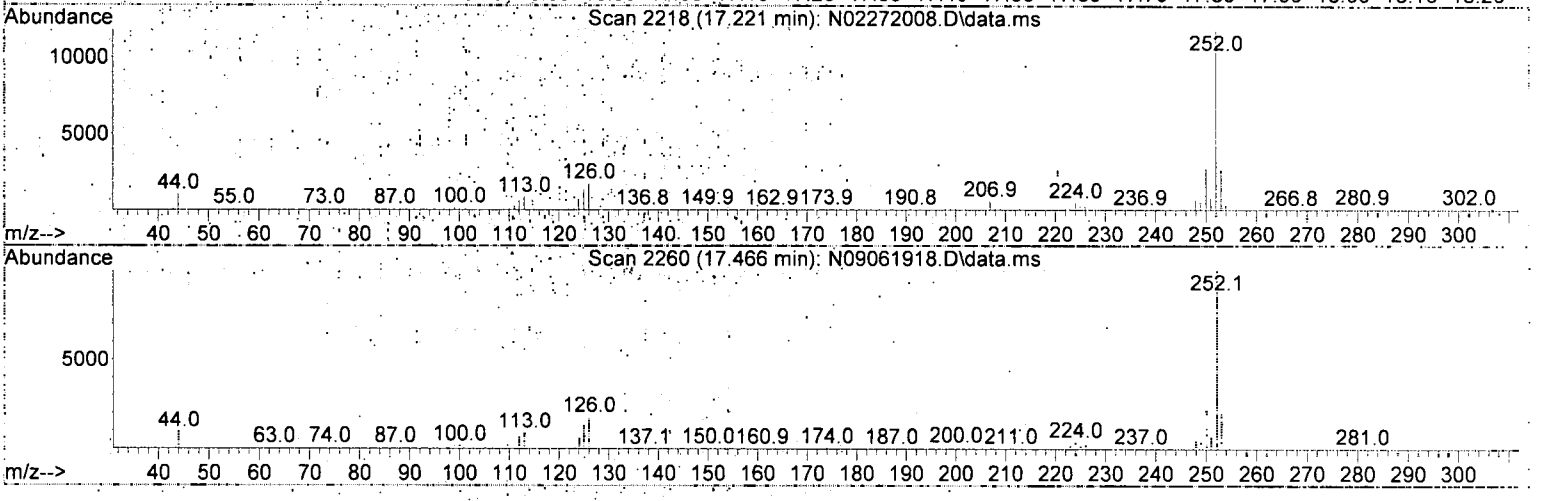
Ion	Exp%	Act%
228.00	100.00	100.00
229.00	19.60	20.35
226.00	28.60	31.23
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B27023\
Data File : N02272008.D
Acq On : 27 Feb 2020 11:55 am
Operator : JK/ AMS/ DTH
Sample : A0B0680-03@1000
Misc : 1000x, 8270D PAH Only
ALS Vial : 8 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 27 12:42:18 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: N02272008.D\data.ms

(30) Benzo(b)fluoranthene (T)

17.221min (-0.012) 22.92 ng/ml

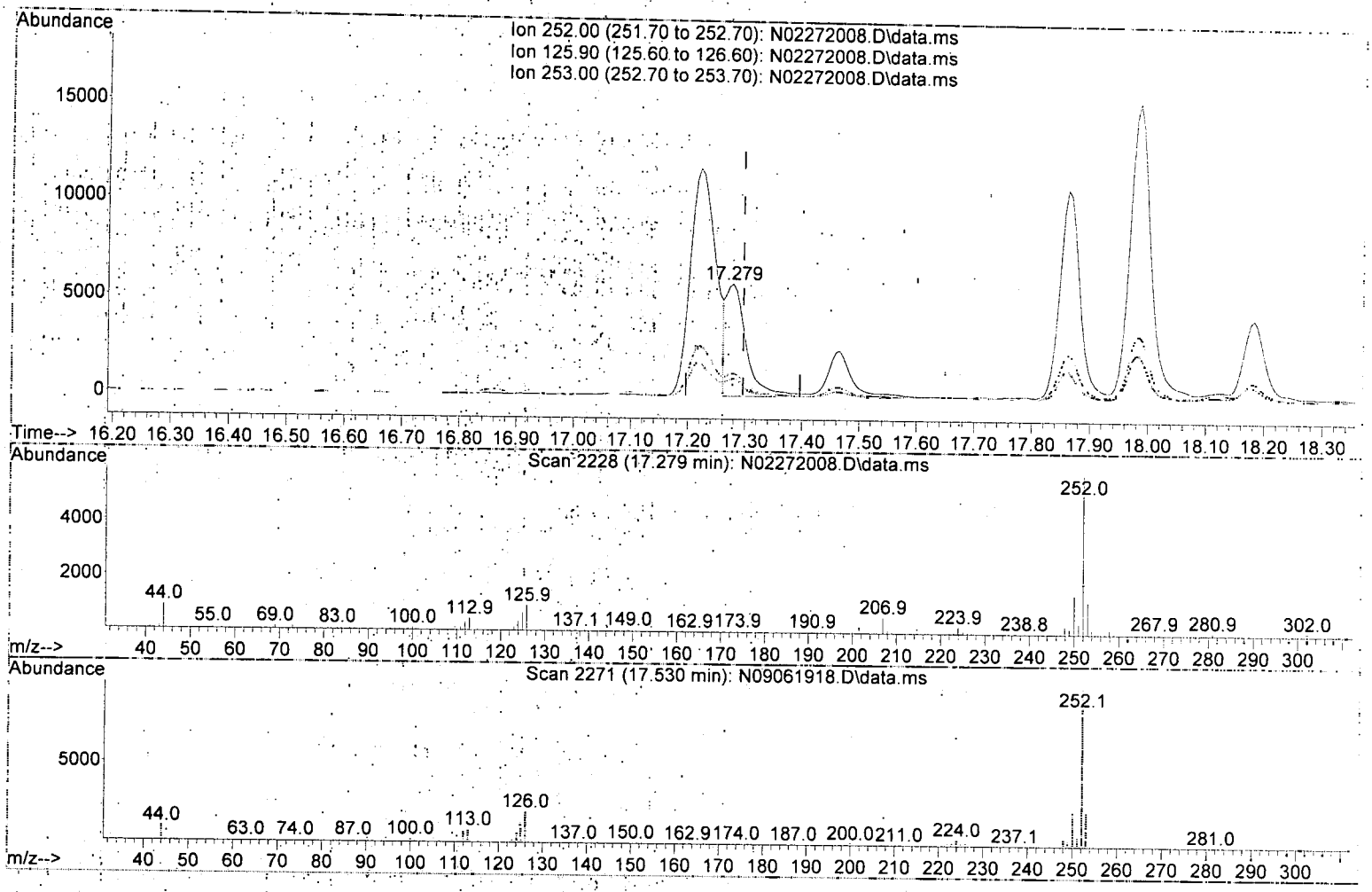
response 36602

Ion	Exp%	Act%
252.00	100.00	100.00
126.00	20.00	14.90
253.00	21.10	22.06
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B27023\
Data File : N02272008.D
Acq On : 27 Feb 2020 11:55 am
Operator : JK/ AMS/ DTH
Sample : A0B0680-03@1000
Misc : 1000x, 8270D PAH Only
ALS Vial : 8 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 27 12:42:18 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: N02272008.D\data.ms

(31) Benzo(k)fluoranthene (T)

17.279min (-0.018) 8.79 ng/ml m

response 13814

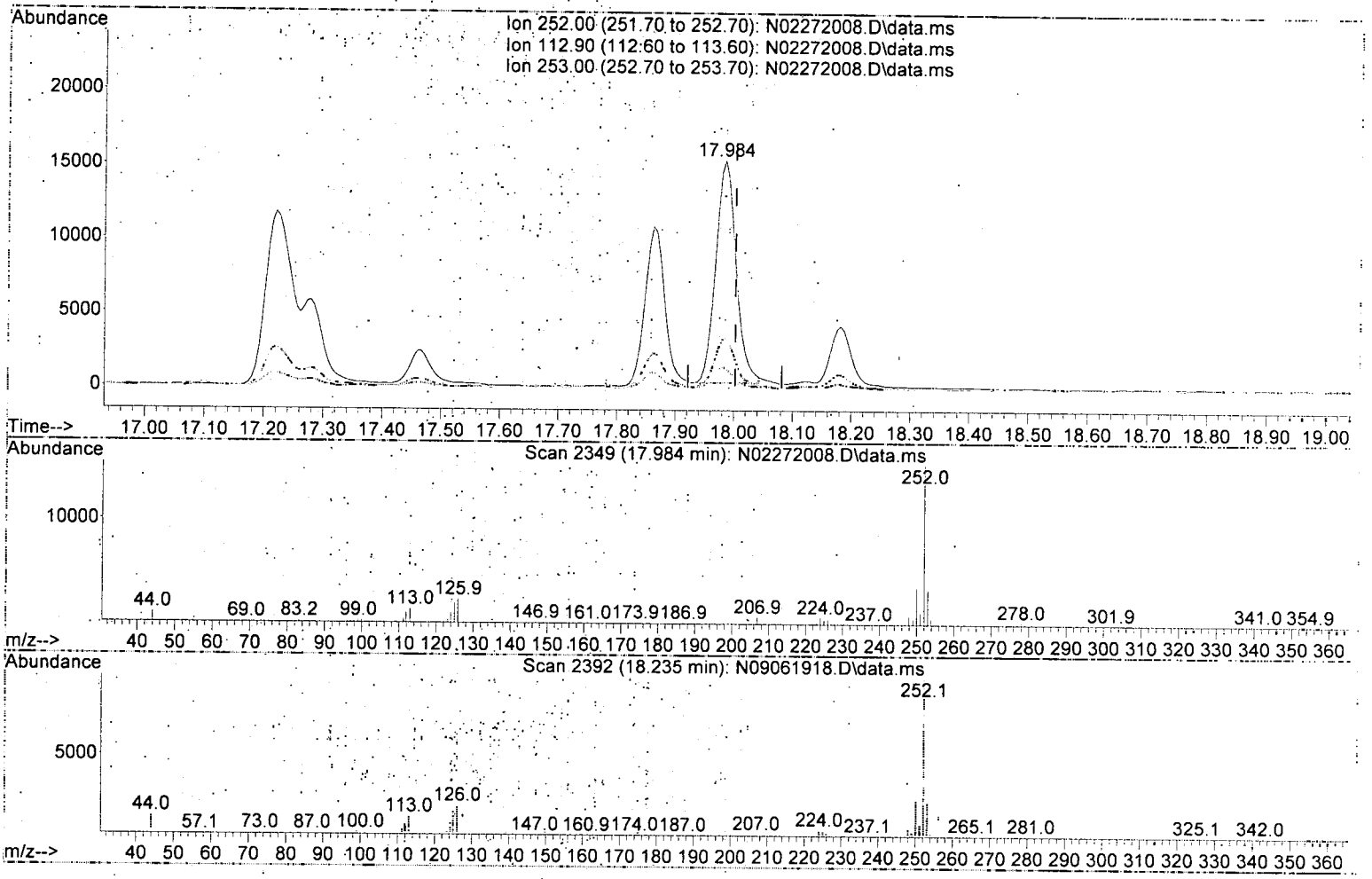
Ion	Exp%	Act%
252.00	100.00	100.00
125.90	22.10	15.97
253.00	21.50	20.35
0.00	0.00	0.00

AMS 2/27/20 MOS ✓

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B27023\
Data File : N02272008.D
Acq On : 27 Feb 2020 11:55 am
Operator : JK/ AMS/ DTH
Sample : A0B0680-03@1000
Misc : 1000x, 8270D PAH Only
ALS Vial : 8 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 27 12:42:18 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: N02272008.D\data.ms

(35) Benzo(a)pyrene (T)

17.984min (-0.018) 26.64 ng/ml

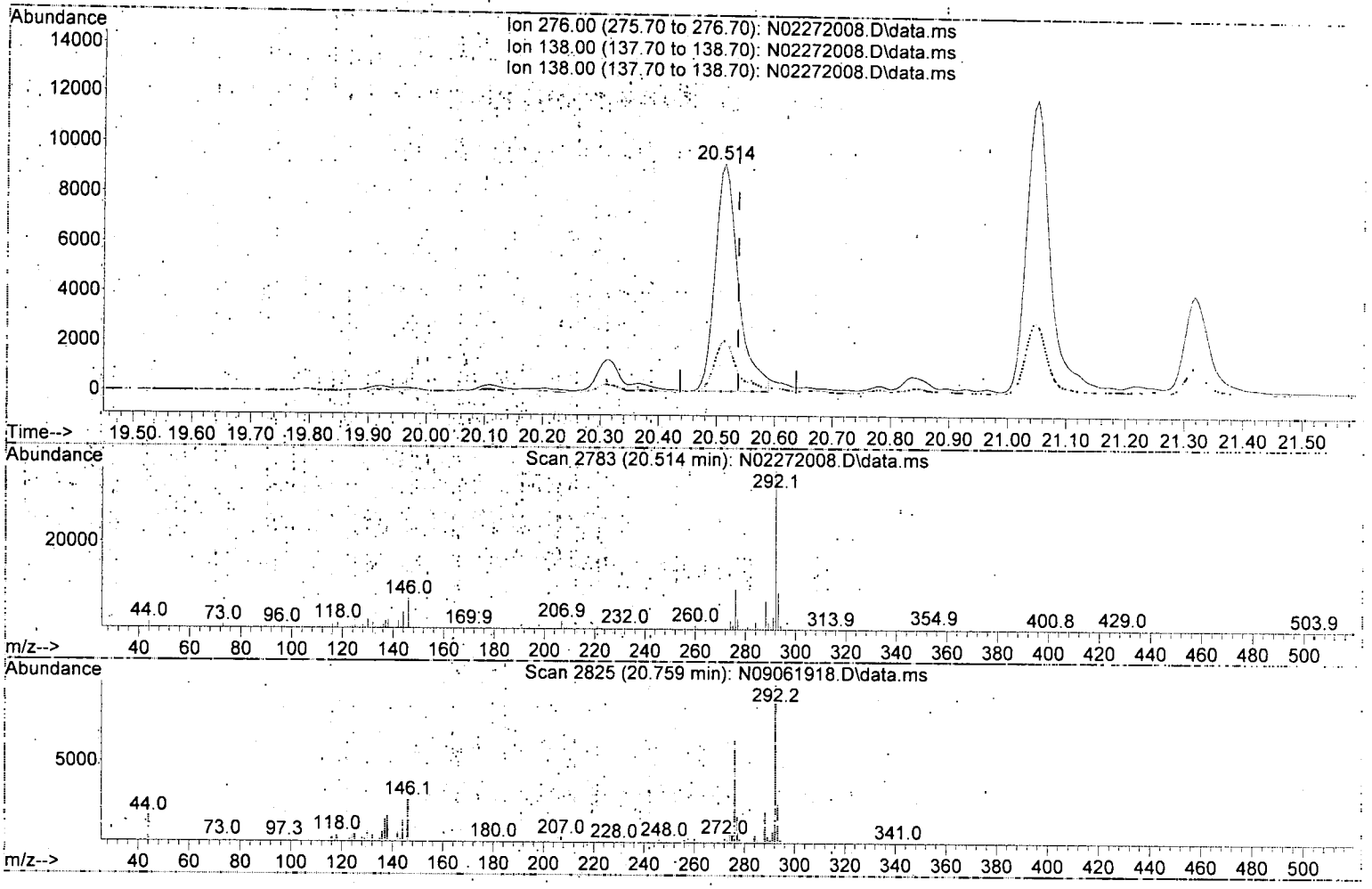
response 36415

Ion	Exp%	Act%
252.00	100.00	100.00
112.90	12.70	8.74
253.00	21.90	21.89
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B27023\
Data File : N02272008.D
Acq On : 27 Feb 2020 11:55 am
Operator : JK/ AMS/ DTH
Sample : A0B0680-03@1000
Misc : 1000x, 8270D PAH Only
ALS Vial : 8 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 27 12:42:18 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: N02272008.D\data.ms

(38) Indeno(1,2,3-cd)Pyrene (T)

20.514min (-0.023) 19.31 ng/ml

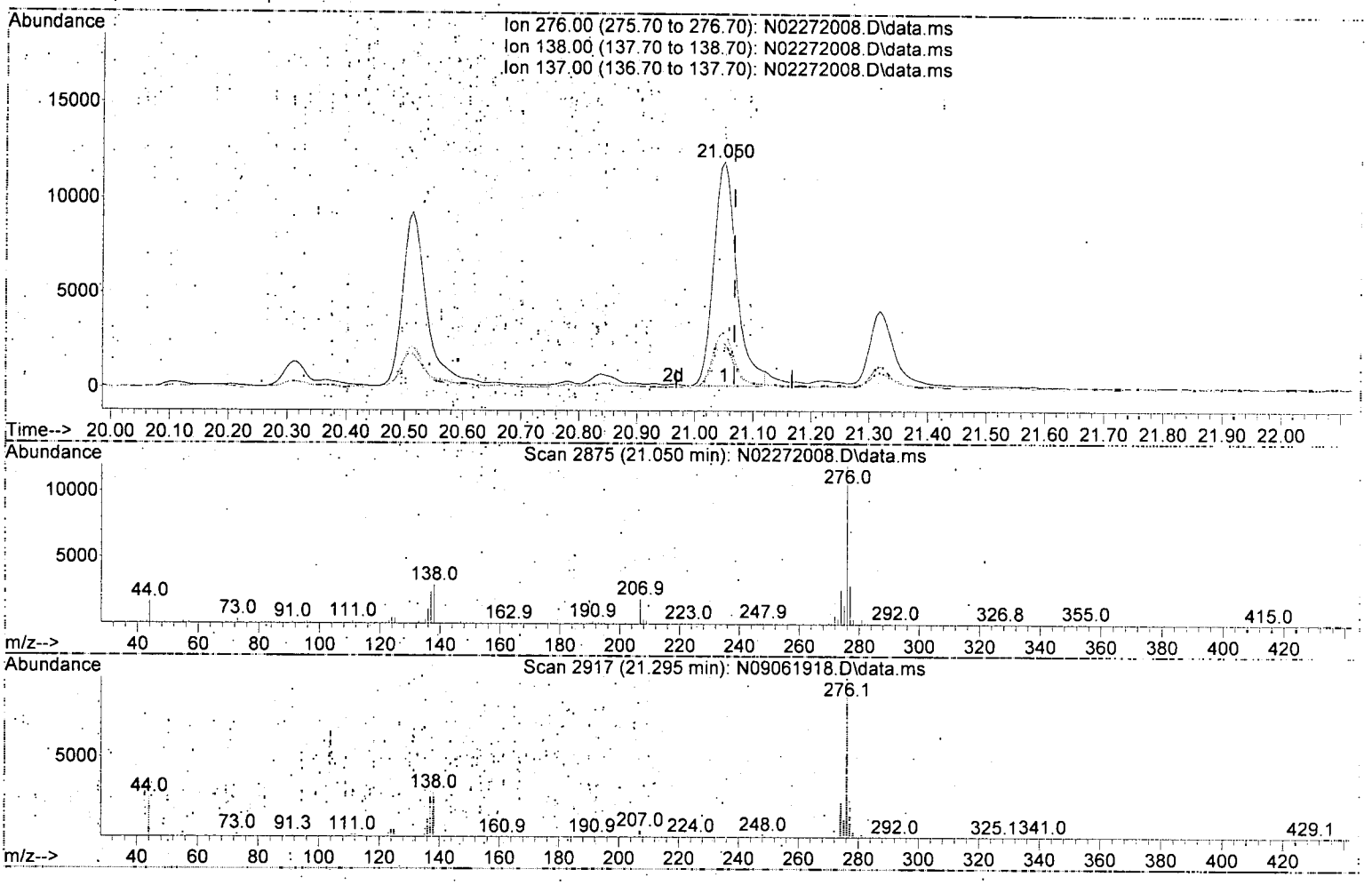
response 25667

Ion	Exp%	Act%
276.00	100.00	100.00
138.00	31.60	22.90
138.00	31.60	22.90
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B27023\
Data File : N02272008.D
Acq On : 27 Feb 2020 11:55 am
Operator : JK/ AMS/ DTH
Sample : A0B0680-03@1000
Misc : 1000x, 8270D PAH Only
ALS Vial : 8 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 27 12:42:18 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: N02272008.D\data.ms

(40) Benzo(g,h,i)perylene (T)

21.050min (-0.018) 23.09 ng/ml

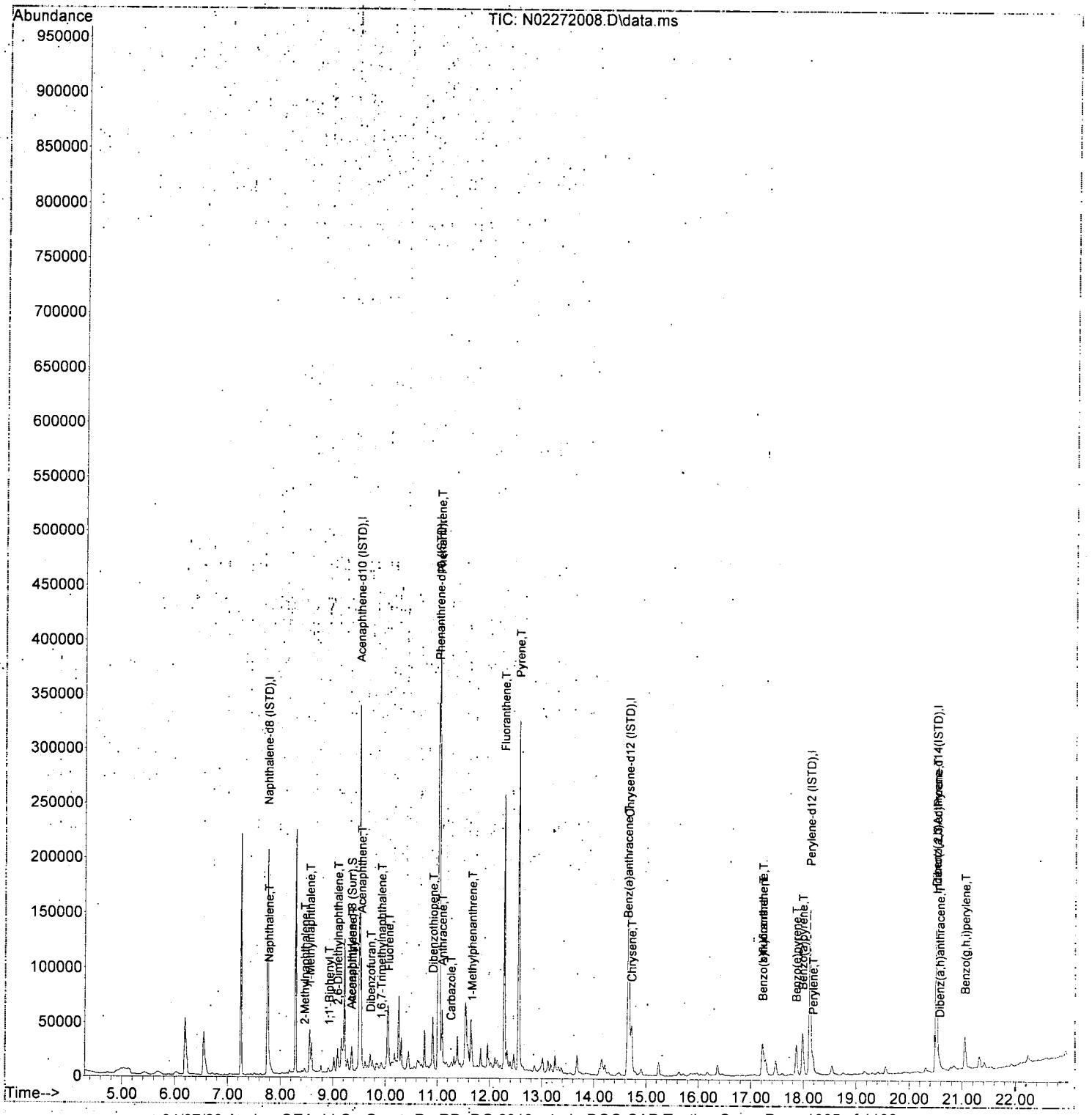
response 32560

Ion	Exp%	Act%
276.00	100.00	100.00
138.00	21.00	24.27
137.00	18.60	19.55
0.00	0.00	0.00

No Name Entered Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-02\0B27023\
Data File : N02272008.D
Acq On : 27 Feb 2020 11:55 am
Operator : JK/ AMS/ DTH
Sample : A0B0680-03@1000
Misc : 1000x, 8270D PAH Only
ALS Vial : 8 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 27 12:42:18 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\0B27023\
Data File : N02272009.D
Acq On : 27 Feb 2020 12:27 pm
Operator : JK/ AMS/ DTH
Sample : A0B0680-04@1000
Misc : 1000x, 8270D PAH Only
ALS Vial : 9 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

AMS RRI 2/27/20

Quant Time: Feb 27 13:30:09 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

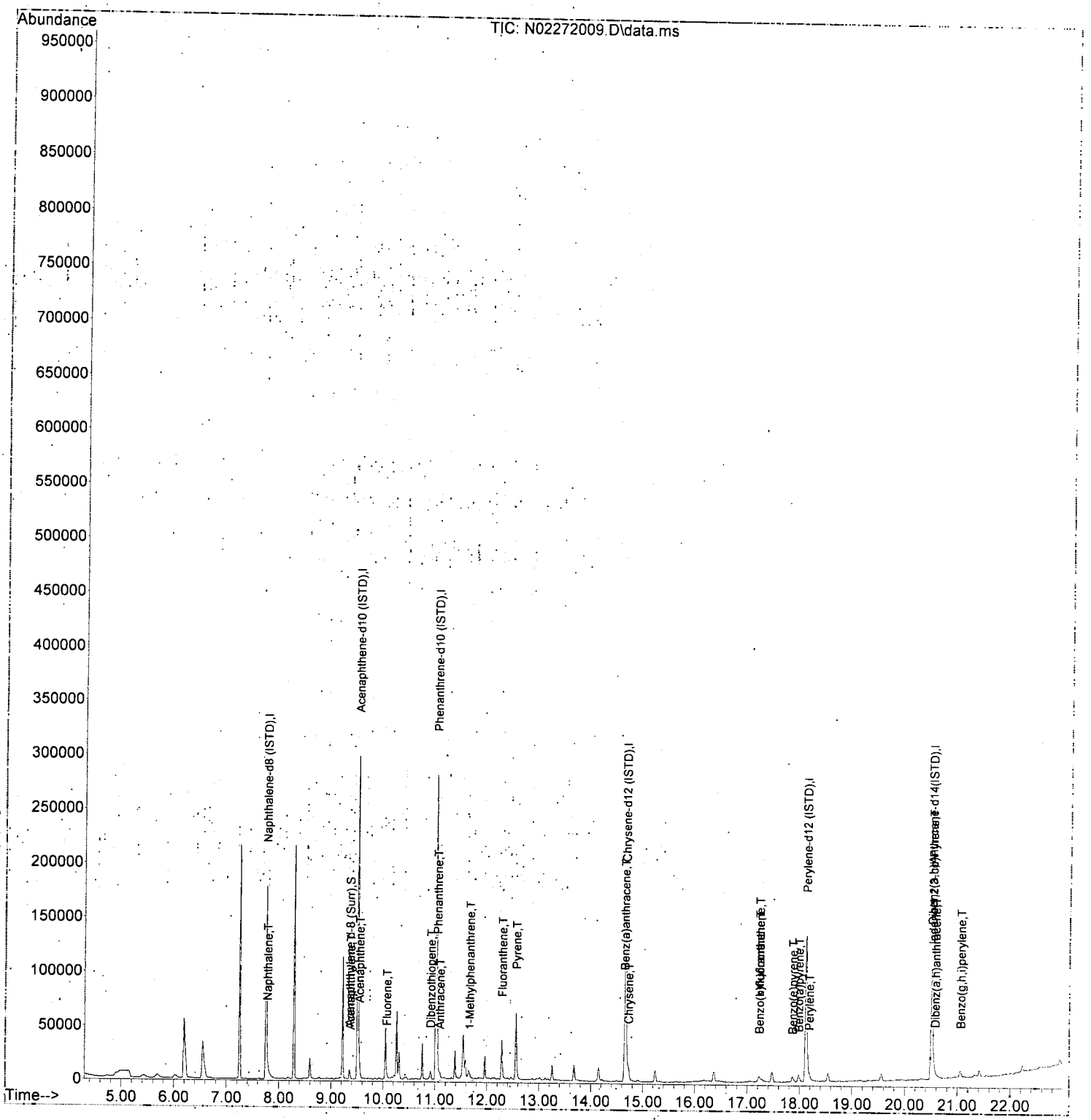
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Naphthalene-d8 (ISTD)	7.755	136	153537	100.00 ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.504	162	99630	100.00 ng/ml	-0.01
17) Phenanthrene-d10 (ISTD)	11.013	188	167047	100.00 ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.662	240	135907	100.00 ng/ml	-0.02
29) Perylene-d12 (ISTD)	18.124	264	128899	100.00 ng/ml	-0.02
37) Dibenz(a,h)Anthrcene-d...	20.508	292	104500	100.00 ng/ml	-0.02
System Monitoring Compounds					
2) Nitrobenzene-d5 (Surr)	7.120	82	62	0.12 ng/ml	0.05
10) 2-Fluorobiphenyl (Surr)	8.827	172	150	0.10 ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	9.352	160	5497	1.30 ng/ml	0.00
26) Terphenyl-d14 (Surr)	12.762	244	164	0.11 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	7.778	128	2595	1.53 ng/ml	95
5) 2-Methylnaphthalene	8.472	142	284	N.D.	
6) 1-Methylnaphthalene	8.565	142	512	N.D.	
7) 1,1'-Biphenyl	8.932	154	263	N.D.	
8) 2,6-Dimethylnaphthalene	9.096	156	536	N.D.	
12) Acenaphthylene	9.364	152	1369	0.63 ng/ml	96
13) Acenaphthene	9.538	153	7834	5.53 ng/ml	96
14) Dibenzofuran	9.719	168	332	N.D.	
15) 1,6,7-Trimethylnaphtha...	9.935	170	237	N.D.	
16) Fluorene	10.063	166	4133	2.85 ng/ml	98
18) Dibenzothiopene	10.908	184	4419	2.53 ng/ml	97
19) Phenanthrene	11.036	178	41702	21.33 ng/ml	99
20) Anthracene	11.089	178	3274	1.80 ng/ml	97
21) Carbazole	11.270	167	112	N.D.	
22) 1-Methylphenanthrene	11.660	192	1204	0.89 ng/ml	85
23) Fluoranthene	12.284	202	26538	13.47 ng/ml	96
25) Pyrene	12.558	202	33073	15.58 ng/ml	98
27) Benz(a)anthracene	14.644	228	5738	3.64 ng/ml#	62
28) Chrysene	14.720	228	7800	5.22 ng/ml	98
30) Benzo(b)fluoranthene	17.232	252	8589	5.77 ng/ml	90
31) Benzo(k)fluoranthene	17.232	252	8681	5.93 ng/ml	88
32) Benzo(b+k)fluoranthene	17.232	252	9840	6.47 ng/ml	88
34) Benzo(e)pyrene	17.868	252	5163	3.43 ng/ml	93
35) Benzo(a)pyrene	17.984	252	6693	5.26 ng/ml	95
36) Perylene	18.182	252	2488	1.59 ng/ml	93
38) Indeno(1,2,3-cd)Pyrene	20.520	276	5645	4.38 ng/ml	79
39) Dibenz(a,h)anthracene	20.572	278	880	0.73 ng/ml	62
40) Benzo(g,h,i)perylene	21.056	276	6916	5.06 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\0B27023\
Data File : N02272009.D
Acq On : 27 Feb 2020 12:27 pm
Operator : JK/ AMS/ DTH
Sample : A0B0680-04@1000
Misc : 1000x, 8270D PAH Only
ALS Vial : 9 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 27 13:30:09 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



No Name Entered Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-02\0B27023\
Data File : N02272010.D
Acq On : 27 Feb 2020 01:00 pm
Operator : JK/ AMS/ DTH
Sample : A0B0680-01@10000
Misc : 10000x, 8270D PAH Only
ALS Vial : 10 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

RR
AMS
2/27/20

Quant Time: Feb 27 13:30:14 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

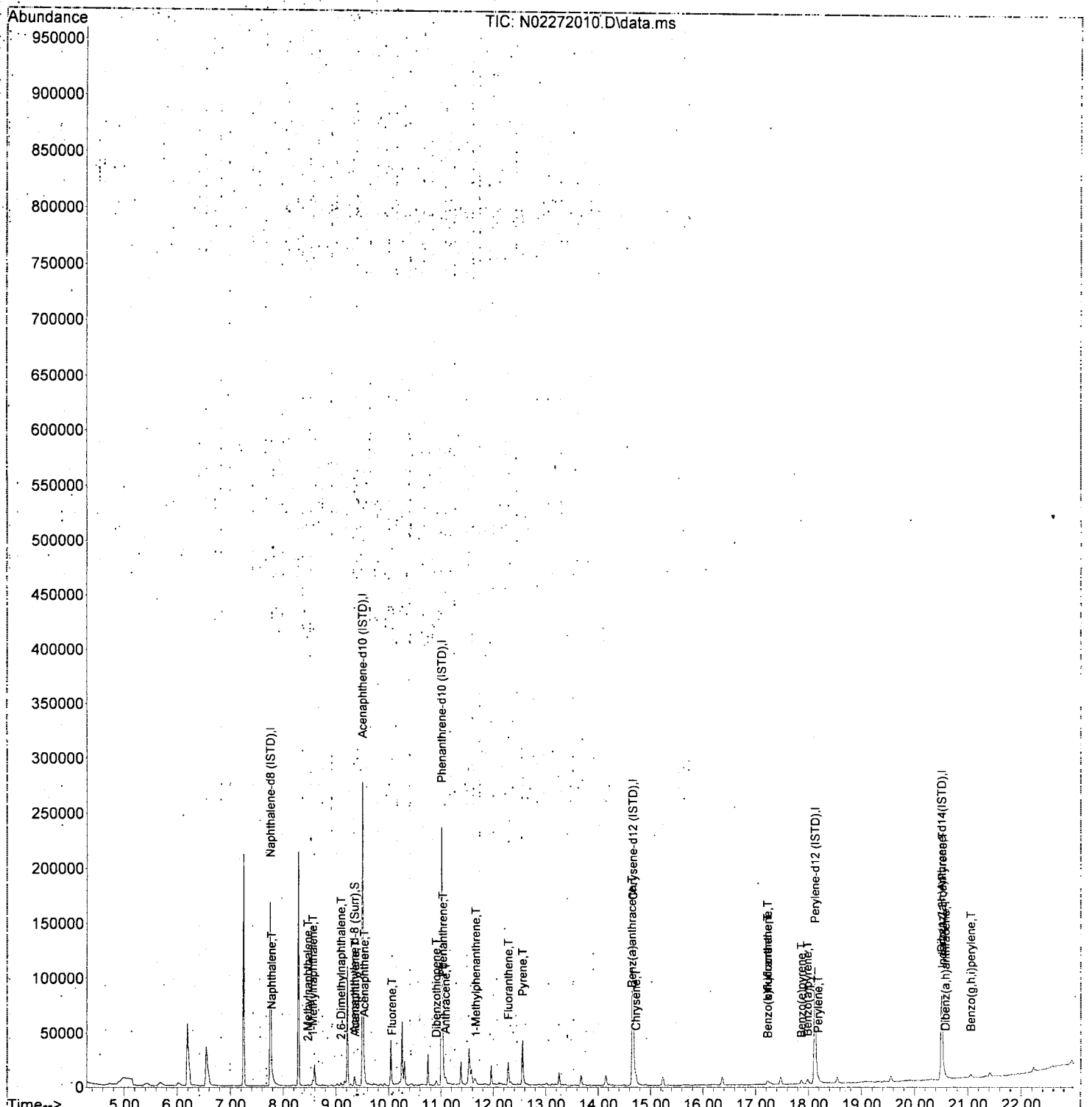
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Naphthalene-d8 (ISTD)	7.755	136	146563	100.00 ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.503	162	91412	100.00 ng/ml	-0.01
17) Phenanthrene-d10 (ISTD)	11.013	188	142887	100.00 ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.662	240	108404	100.00 ng/ml	-0.02
29) Perylene-d12 (ISTD)	18.124	264	103412	100.00 ng/ml	-0.02
37) Dibenz(a,h)Anthrcene-d...	20.508	292	79376	100.00 ng/ml	-0.02
System Monitoring Compounds					
2) Nitrobenzene-d5 (Surr)	0.000	82	0	0.00 ng/ml	
10) 2-Fluorobiphenyl (Surr)	0.000	172	0	0.00 ng/ml	
11) Acenaphthylene d-8 (Surr)	9.352	160	5456	1.53 ng/ml	0.00
26) Terphenyl-d14 (Surr)	0.000	244	0	0.00 ng/ml	
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00 ng/ml	
Target Compounds					Qvalue
3) Decalin	0.000		0	N.D.	
4) Naphthalene	7.778	128	2333	1.44 ng/ml	95
5) 2-Methylnaphthalene	8.466	142	674	0.49 ng/ml	96
6) 1-Methylnaphthalene	8.559	142	2960	2.16 ng/ml	95
7) 1,1'-Biphenyl	8.932	154	122	N.D.	
8) 2,6-Dimethylnaphthalene	9.095	156	1181	0.88 ng/ml	97
12) Acenaphthylene	9.364	152	1217	0.61 ng/ml	97
13) Acenaphthene	9.538	153	5179	3.98 ng/ml	97
14) Dibenzofuran	9.719	168	415	N.D.	
15) 1,6,7-Trimethylnaphtha...	9.929	170	357	N.D.	
16) Fluorene	10.063	166	2610	1.96 ng/ml	99
18) Dibenzothiopene	10.908	184	2506	1.68 ng/ml	100
19) Phenanthrene	11.036	178	22404	13.40 ng/ml	99
20) Anthracene	11.089	178	3870	2.49 ng/ml	98
21) Carbazole	11.270	167	408	N.D.	
22) 1-Methylphenanthrene	11.666	192	1374	1.18 ng/ml	83
23) Fluoranthene	12.284	202	15971	9.48 ng/ml	94
25) Pyrene	12.558	202	20301	11.99 ng/ml	98
27) Benz(a)anthracene	14.644	228	4224	3.36 ng/ml	79
28) Chrysene	14.720	228	5572	4.68 ng/ml	99
30) Benzo(b)fluoranthene	17.226	252	4537	3.80 ng/ml	88
31) Benzo(k)fluoranthene	17.226	252	5650	4.81 ng/ml	87
32) Benzo(b+k)fluoranthene	17.226	252	6700	5.49 ng/ml	87
34) Benzo(e)pyrene	17.868	252	3231	2.68 ng/ml	97
35) Benzo(a)pyrene	17.984	252	4463	4.37 ng/ml	97
36) Perylene	18.182	252	1690	1.34 ng/ml	90
38) Indeno(1,2,3-cd)Pyrene	20.520	276	3269	3.34 ng/ml	91
39) Dibenz(a,h)anthracene	20.578	278	515	0.56 ng/ml	70
40) Benzo(g,h,i)perylene	21.056	276	3728	3.59 ng/ml	90

JI

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : U:\data\2020-02\0B27023\
Data File : N02272010.D
Acq On : 27 Feb 2020 01:00 pm
Operator : JK/ AMS/ DTH
Sample : A0B0680-01@10000
Misc : 10000x, 8270D PAH Only
ALS Vial : 10 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 27 13:30:14 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



Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-02\0B27023\
Data File : N02272021.D
Acq On : 27 Feb 2020 06:51 pm
Operator : JK/ AMS/ DTH
Sample : A0B0680-01RE1@1000
Misc : 1000x, 8270D PAH Only
ALS Vial : 21 Sample Multiplier: 1

Jeff 2/28/20

Quant Time: Feb 28 09:59:22 2020
Quant Method : R:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.755	136	160886	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.503	162	110867	100.00	ng/ml	-0.01
17) Phenanthrene-d10 (ISTD)	11.013	188	189528	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.662	240	150796	100.00	ng/ml	-0.02
29) Perylene-d12 (ISTD)	18.124	264	147747	100.00	ng/ml	-0.02
37) Dibenz(a,h)Anthrcene-d...	20.508	292	107135	100.00	ng/ml	-0.02
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.067	82	114	0.21	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.822	172	252	0.15	ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	9.346	160	3824	0.27	ng/ml	-0.01
26) Terphenyl-d14 (Surr)	12.756	244	351	0.22	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	26766	15.08	ng/ml	99
5) 2-Methylnaphthalene	8.460	142	8486	5.64	ng/ml	99
6) 1-Methylnaphthalene	8.559	142	36306	24.15	ng/ml	98
7) 1,1'-Biphenyl	8.926	154	2000	0.99	ng/ml	93
8) 2,6-Dimethylnaphthalene	9.090	156	17622	11.93	ng/ml	100
12) Acenaphthylene	9.364	152	12327	5.12	ng/ml	94
13) Acenaphthene	9.538	153	61748	39.17	ng/ml	99
14) Dibenzofuran	9.713	168	6104	3.09	ng/ml	88
15) 1,6,7-Trimethylnaphtha...	9.923	170	6167	4.66	ng/ml	92
16) Fluorene	10.063	166	33611	20.83	ng/ml	100
18) Dibenzothiopene	10.908	184	35086	17.70	ng/ml	96
19) Phenanthrene	11.036	178	304829	137.45	ng/ml	99
20) Anthracene	11.089	178	53342	25.86	ng/ml	98
21) Carbazole	11.258	167	7562	4.53	ng/ml	94
22) 1-Methylphenanthrene	11.660	192	15044	9.76	ng/ml	94
23) Fluoranthene	12.278	202	246020	110.10	ng/ml	97
25) Pyrene	12.558	202	314672	133.57	ng/ml	100
27) Benz(a)anthracene	14.644	228	61328	35.03	ng/ml	74
28) Chrysene	14.720	228	78572	47.42	ng/ml	97
30) Benzo(b)fluoranthene	17.221	252	77703	45.58	ng/ml	92
31) Benzo(k)fluoranthene	17.221	252	98587	~~58.73~~	~~ng/ml~~	~~90~~
32) Benzo(b+k)fluoranthene	17.221	252	109219	62.63	ng/ml	90
34) Benzo(e)pyrene	17.868	252	52144	30.25	ng/ml	98
35) Benzo(a)pyrene	17.984	252	70981	48.64	ng/ml	96
36) Perylene	18.182	252	19627	10.92	ng/ml	96
38) Indeno(1,2,3-cd)Pyrene	20.514	276	45948	34.77	ng/ml	81
39) Dibenz(a,h)anthracene	20.572	278	6253	5.04	ng/ml	88
40) Benzo(g,h,i)perylene	21.050	276	58148	41.49	ng/ml	95

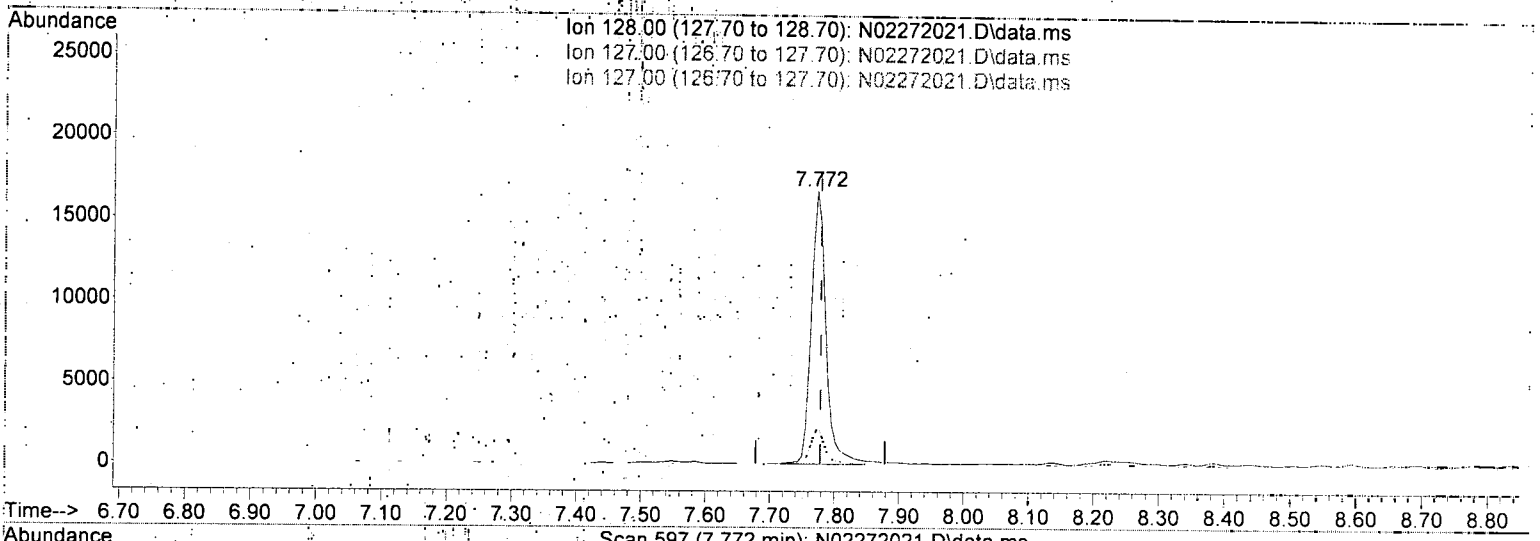
ML - MDS

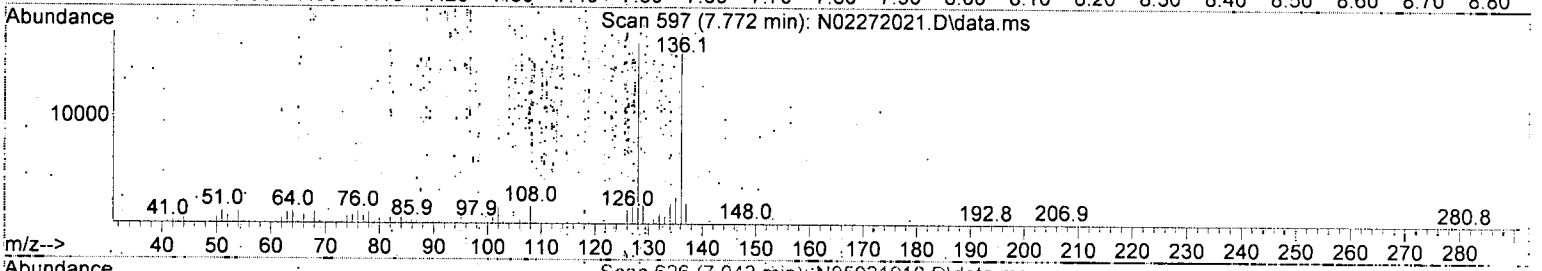
(#) = qualifier out of range (m) = manual integration (+) = signals summed

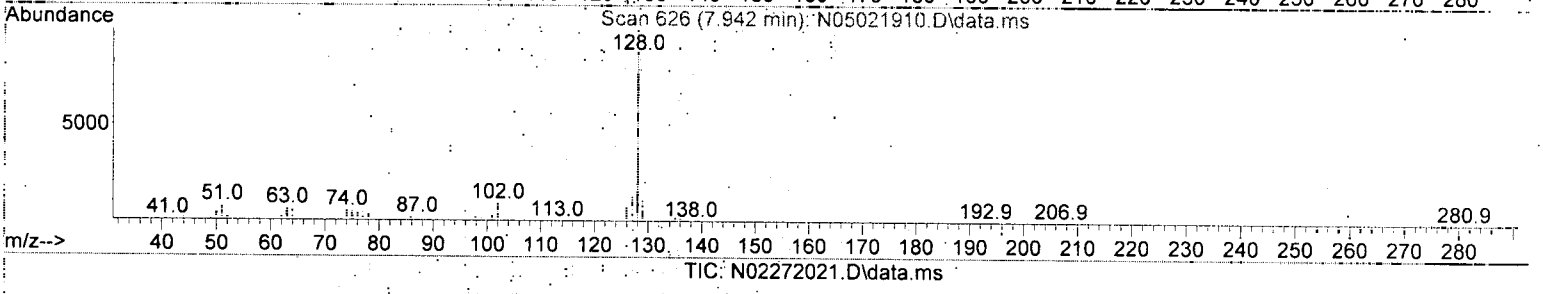
Quantitation Report (Qedit)

Data Path : R:\data\2020-02\0B27023\
Data File : N02272021.D
Acq On : 27 Feb 2020 06:51 pm
Operator : JK/ AMS/ DTH
Sample : A0B0680-01RE1@1000
Misc : 1000x, 8270D PAH Only
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 28 09:59:22 2020
Quant Method : R:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration







TIC: N02272021.D\data.ms

(4) Naphthalene (T)

7.772min (-0.006) 15.08 ng/ml

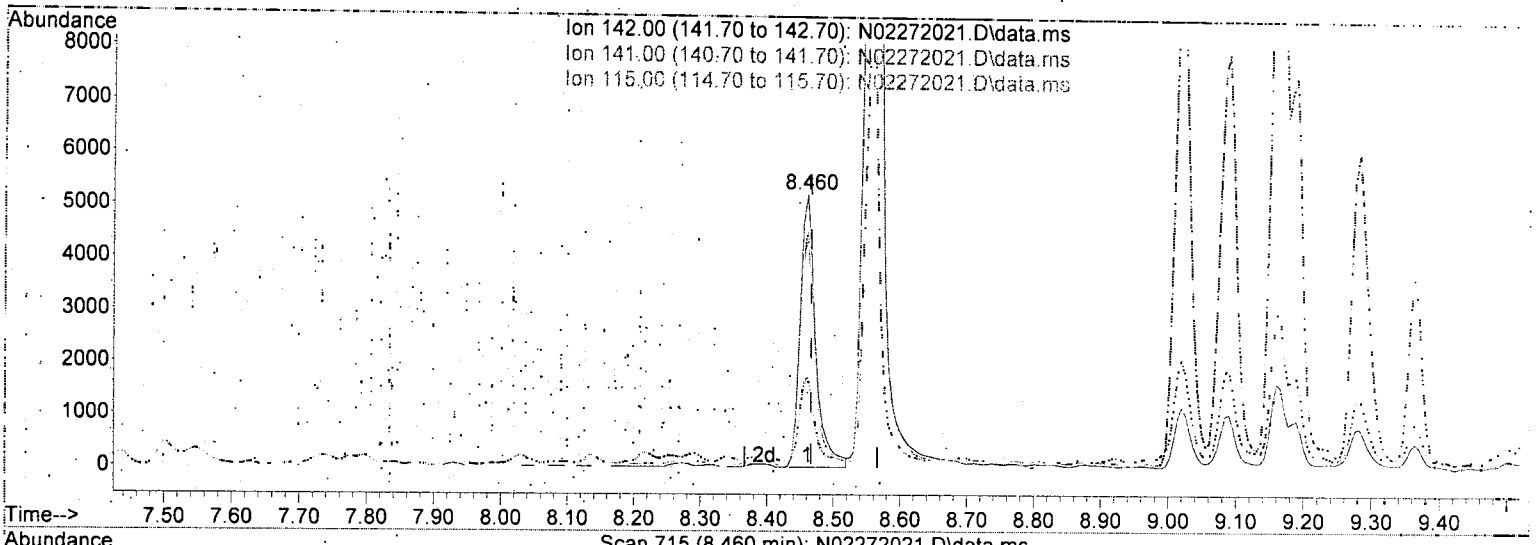
response 26766

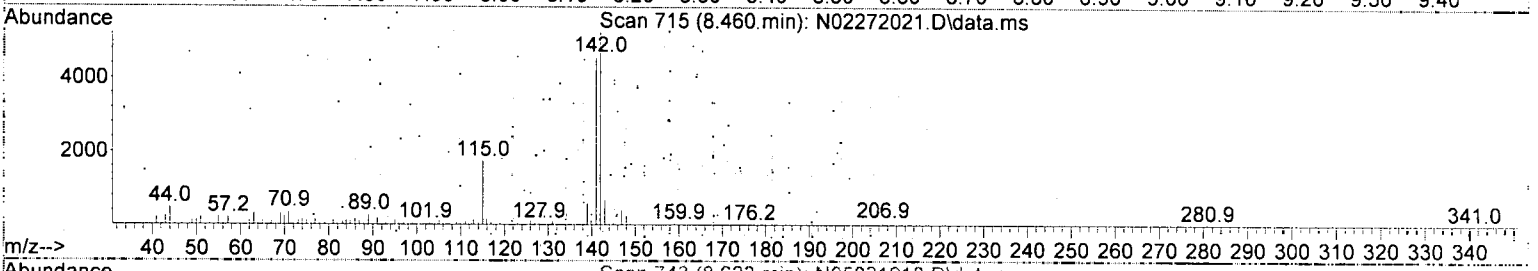
Ion	Exp%	Act%
128.00	100.00	100.00
127.00	12.60	13.09
127.00	12.60	13.09
0.00	0.00	0.00

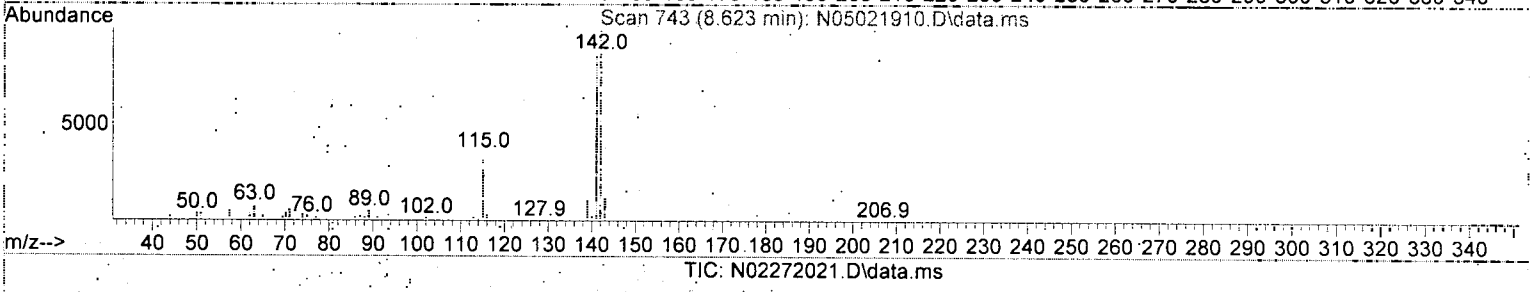
Quantitation Report (Qedit)

Data Path : R:\data\2020-02\0B27023\
Data File : N02272021.D
Acq On : 27 Feb 2020 06:51 pm
Operator : JK/ AMS/ DTH
Sample : A0B0680-01RE1@1000
Misc : 1000x, 8270D PAH Only
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 28 09:59:22 2020
Quant Method : R:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration







TIC: N02272021.D\data.ms

(5) 2-Methylnaphthalene (T)

8.460min (-0.006) 5.64 ng/ml

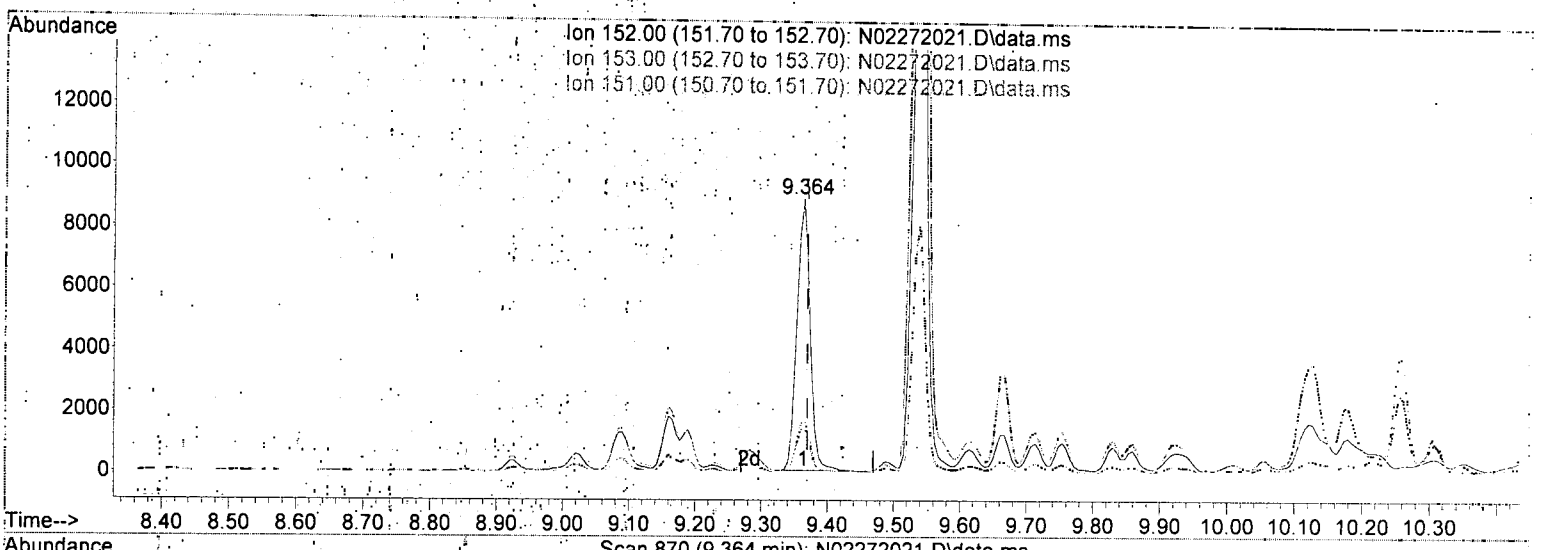
response 8486

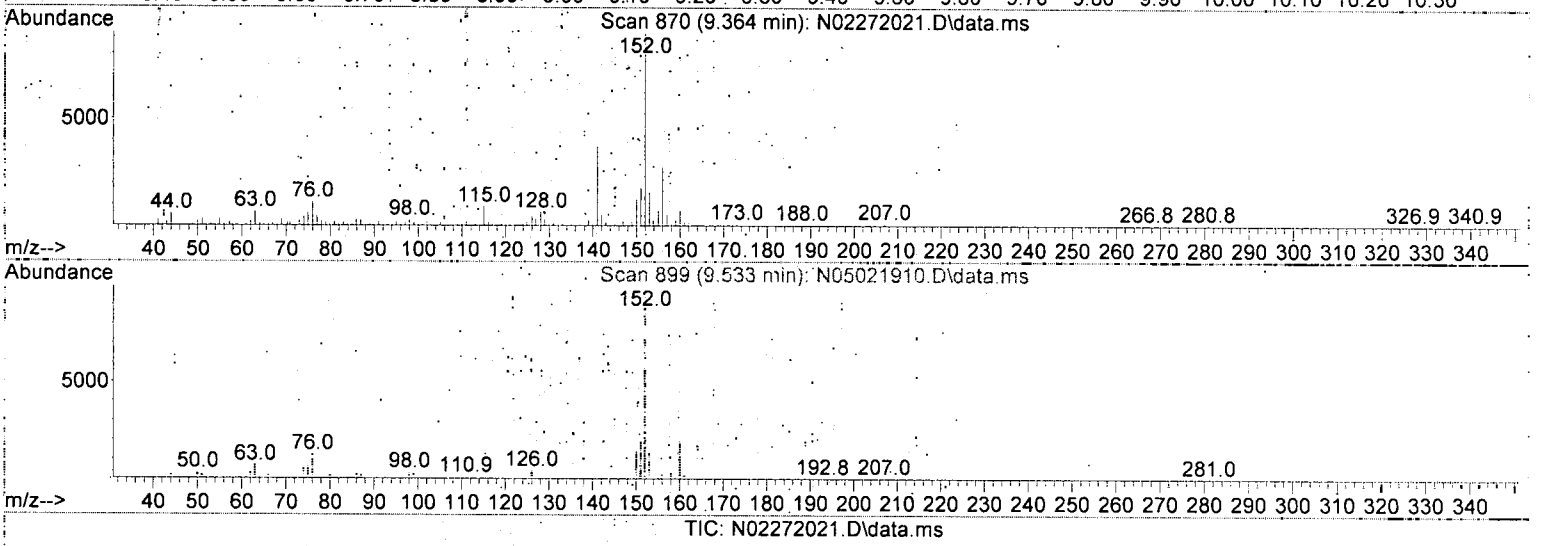
Ion	Exp%	Act%
142.00	100.00	100.00
141.00	86.60	86.66
115.00	35.70	33.15
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : R:\data\2020-02\0B27023\
Data File : N02272021.D
Acq On : 27 Feb 2020 06:51 pm
Operator : JK/ AMS/ DTH
Sample : A0B0680-01RE1@1000
Misc : 1000x, 8270D PAH Only
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 28 09:59:22 2020
Quant Method : R:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration





TIC: N02272021.D\data.ms

(12) Acenaphthylene (T)

9.364min (-0.006) 5.12 ng/ml

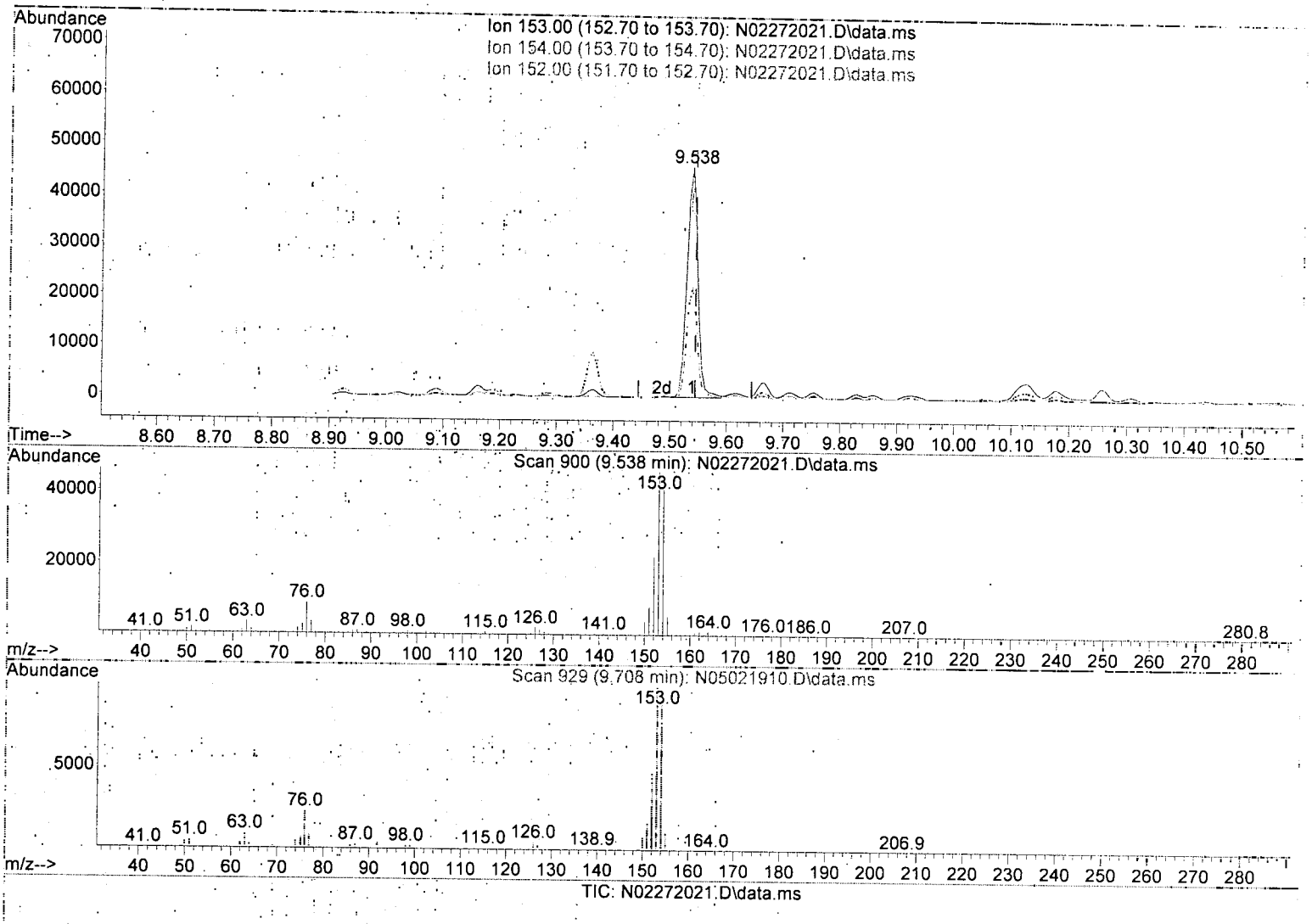
response 12327

Ion	Exp%	Act%
152.00	100.00	100.00
153.00	12.70	17.23
151.00	19.30	20.13
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : R:\data\2020-02\0B27023\
Data File : N02272021.D
Acq On : 27 Feb 2020 06:51 pm
Operator : JK/ AMS/ DTH
Sample : A0B0680-01RE1@1000
Misc : : 1000x, 8270D PAH Only
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 28 09:59:22 2020
Quant Method : R:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration



TIC: N02272021.D\data.ms

(13) Acenaphthene (T)

9.538min (-0.006) 39.17 ng/ml

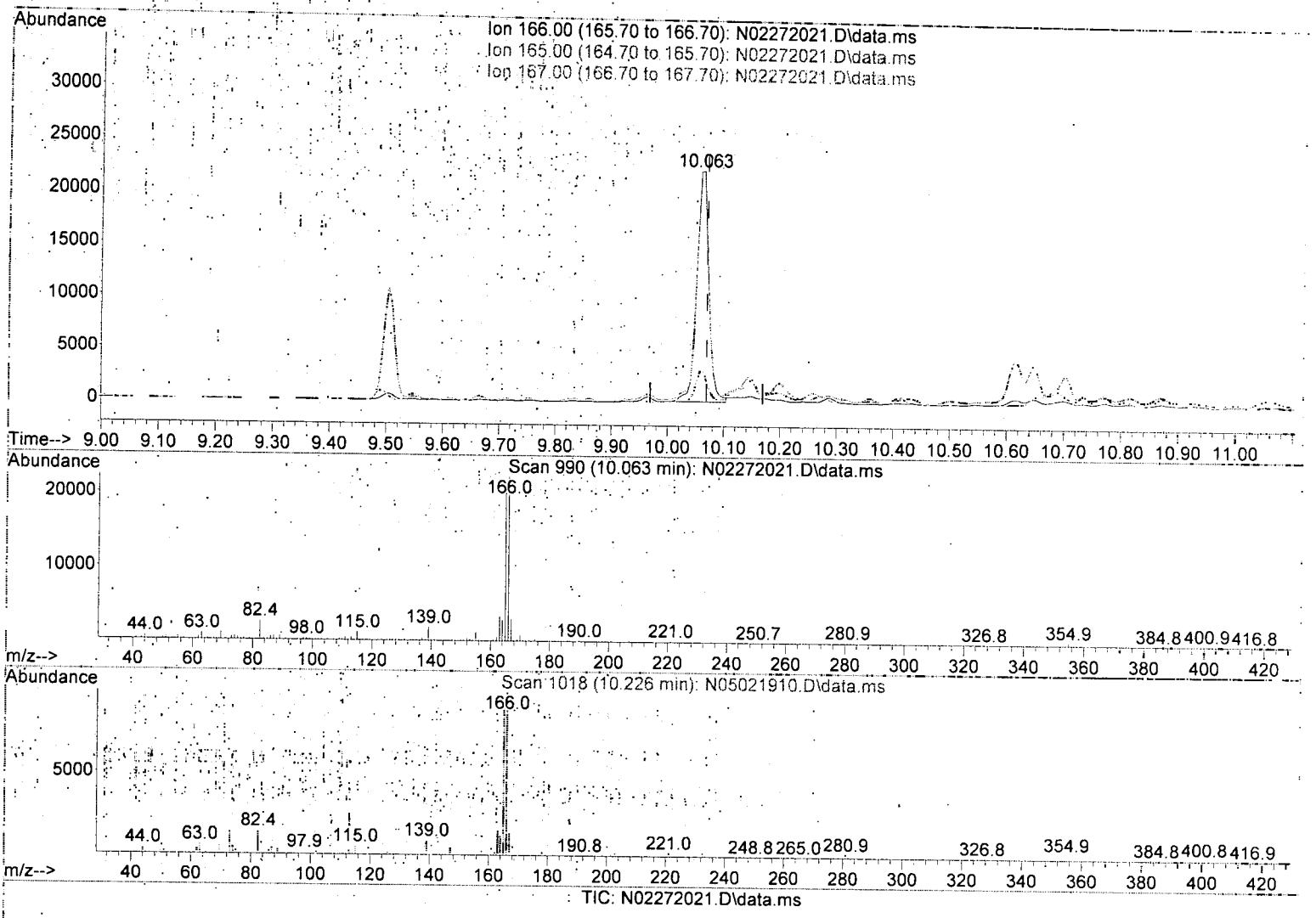
response 61748

Ion	Exp%	Act%
153.00	100.00	100.00
154.00	90.70	90.79
152.00	46.80	47.99
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : R:\data\2020-02\0B27023\
Data File : N02272021.D
Acq On : 27 Feb 2020 06:51 pm
Operator : JK/ AMS/ DTH
Sample : A0B0680-01RE1@1000
Misc : 1000x, 8270D PAH Only
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 28 09:59:22 2020
Quant Method : R:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration



TIC: N02272021.D\data.ms

(16) Fluorene (T)

10.063min (-0.006) 20.83 ng/ml

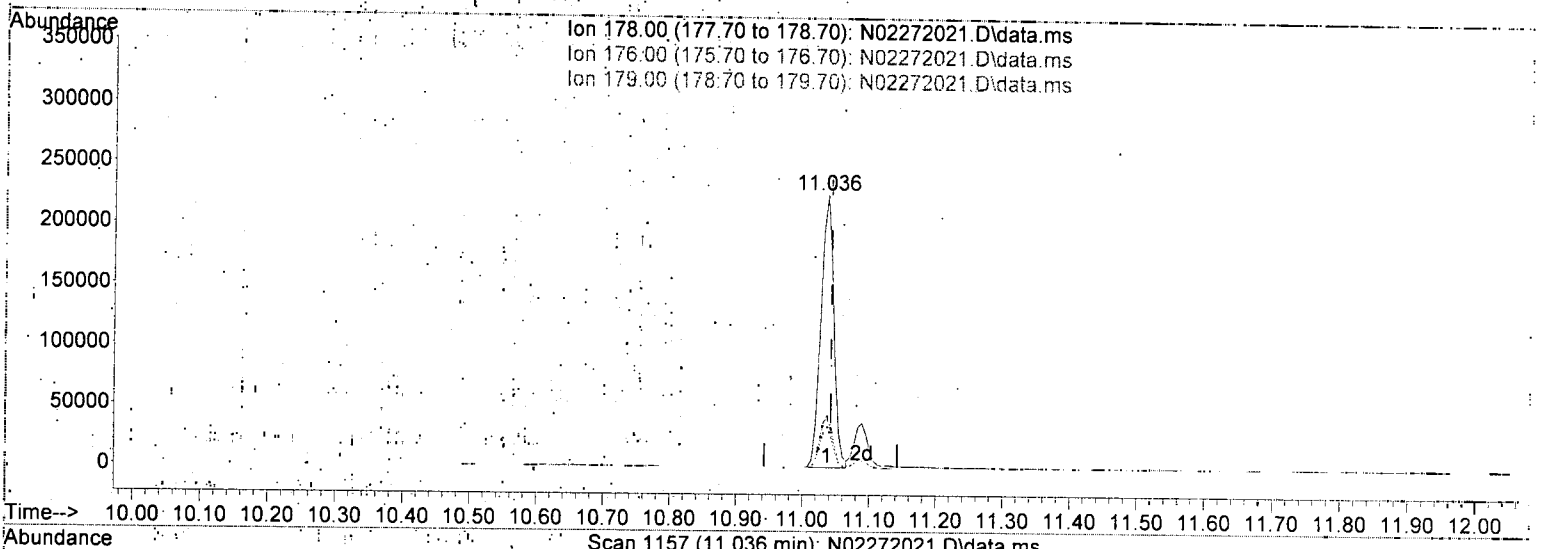
response 33611

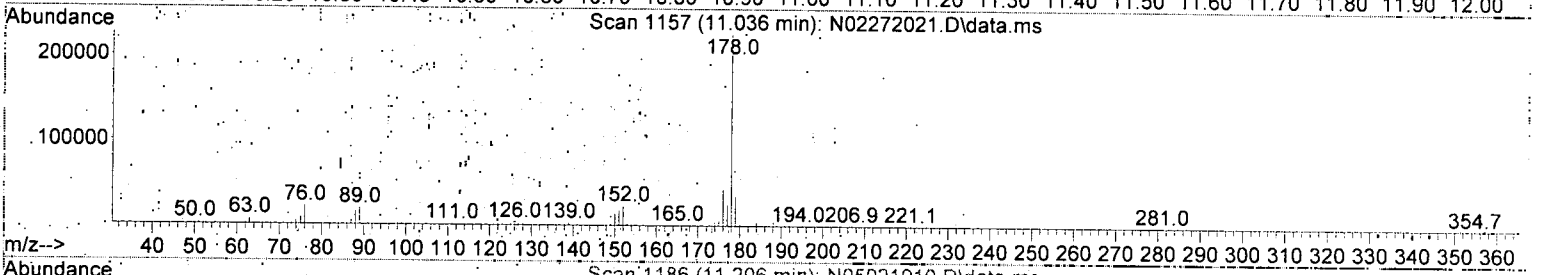
Ion	Exp%	Act%
166.00	100.00	100.00
165.00	95.70	95.53
167.00	13.60	13.68
0.00	0.00	0.00

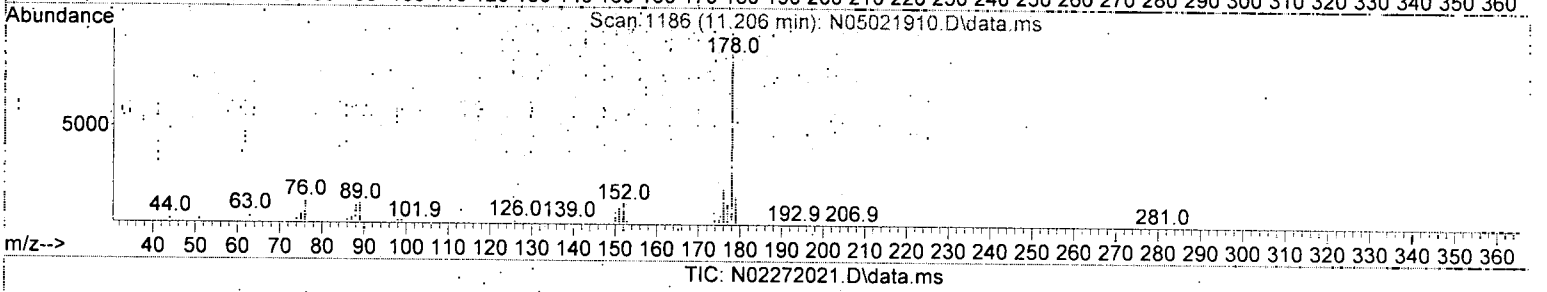
Quantitation Report (Qedit)

Data Path : R:\data\2020-02\0B27023\
Data File : N02272021.D
Acq On : 27 Feb 2020 06:51 pm
Operator : JK/ AMS/ DTH
Sample : A0B0680-01RE1@1000
Misc : 1000x, 8270D PAH Only
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 28 09:59:22 2020
Quant Method : R:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration







TIC: N02272021.D\data.ms

(19) Phenanthrene (T)

11.036min (-0.006) 137.45 ng/ml

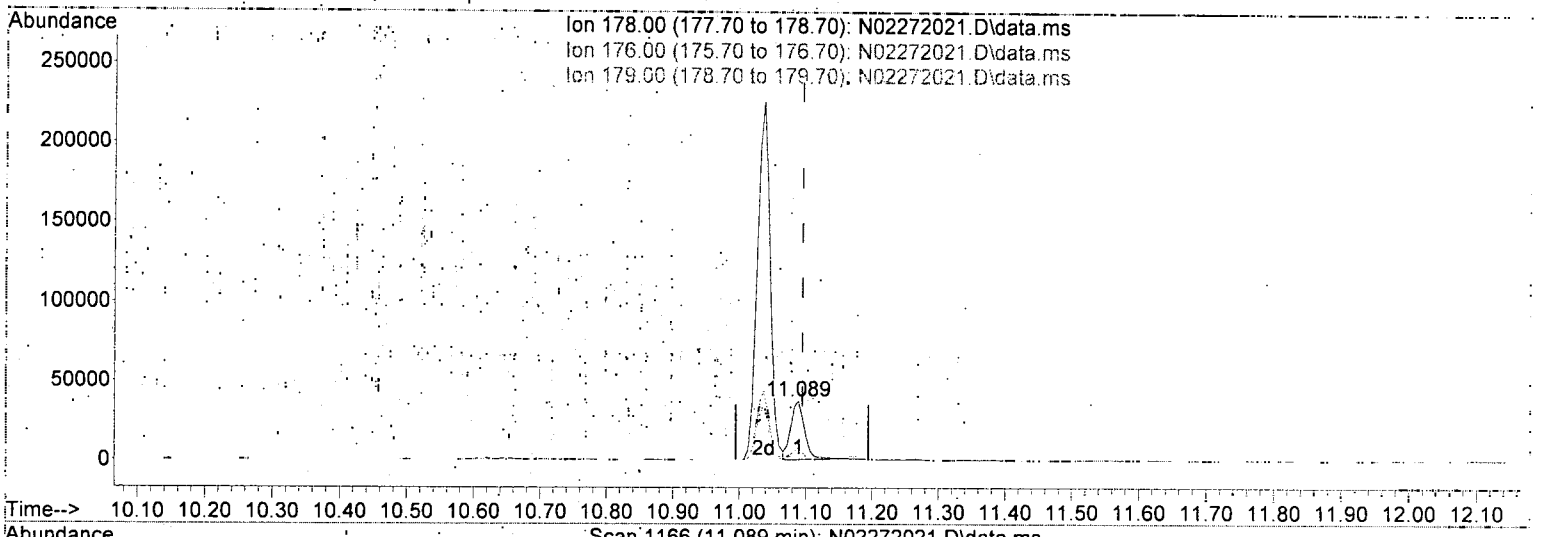
response 304829

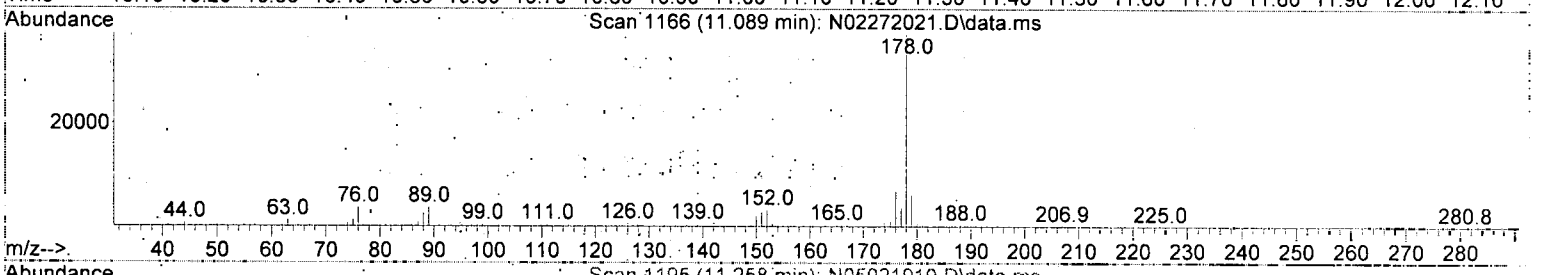
Ion	Exp%	Act%
178.00	100.00	100.00
176.00	19.00	19.14
179.00	15.10	15.54
0.00	0.00	0.00

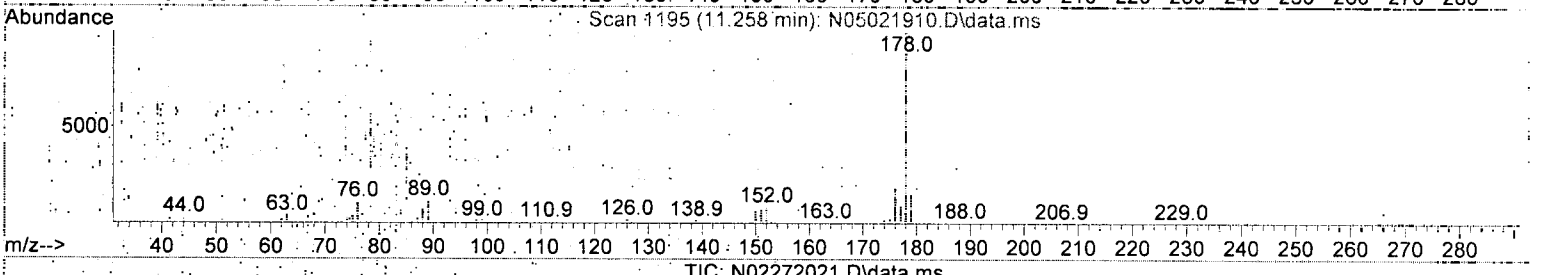
Quantitation Report (Qedit)

Data Path : R:\data\2020-02\0B27023\
Data File : N02272021.D
Acq On : 27 Feb 2020 06:51 pm
Operator : JK/ AMS/ DTH
Sample : A0B0680-01RE1@1000
Misc : 1000x, 8270D PAH Only
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 28 09:59:22 2020
Quant Method : R:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration







TIC: N02272021.D\data.ms

(20) Anthracene (T)

11.089min (-0.006) 25.86 ng/ml

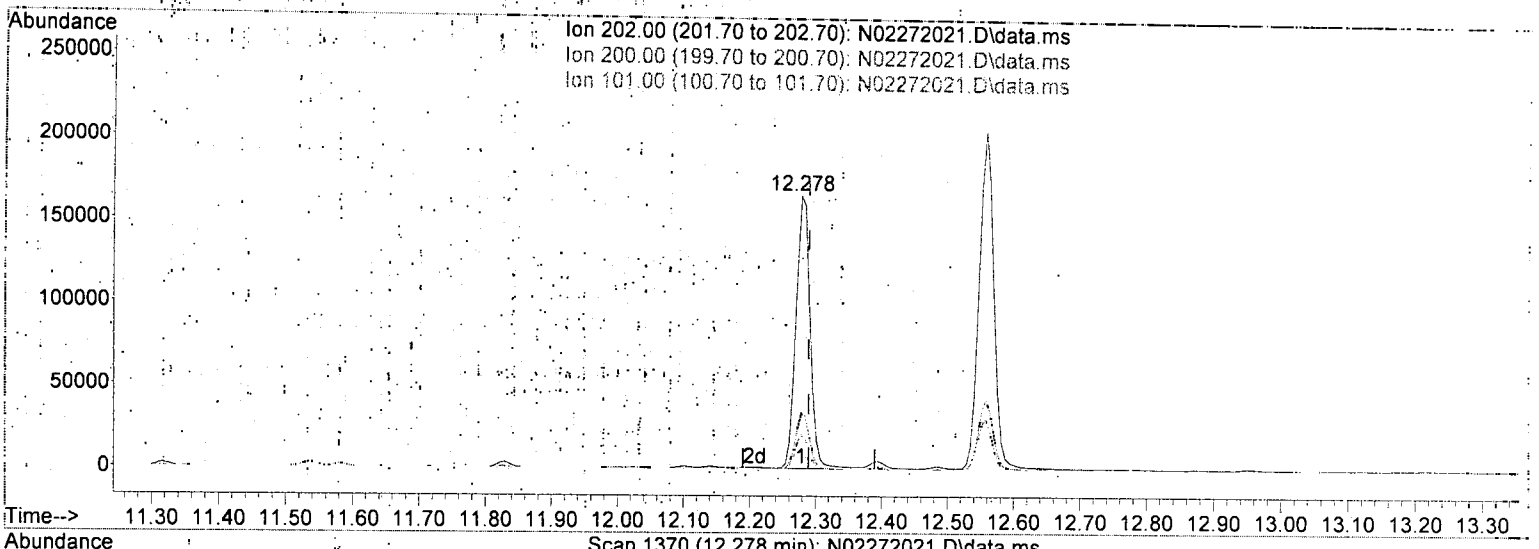
response 53342

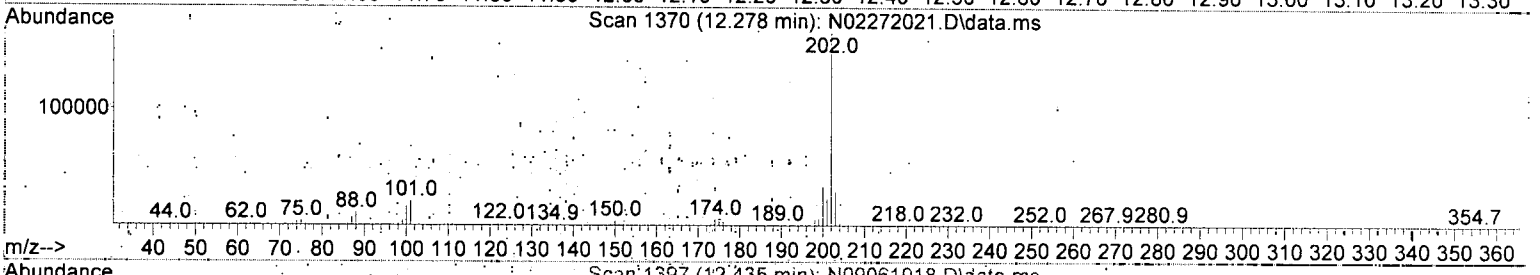
Ion	Exp%	Act%
178.00	100.00	100.00
176.00	18.90	18.40
179.00	15.30	16.37
0.00	0.00	0.00

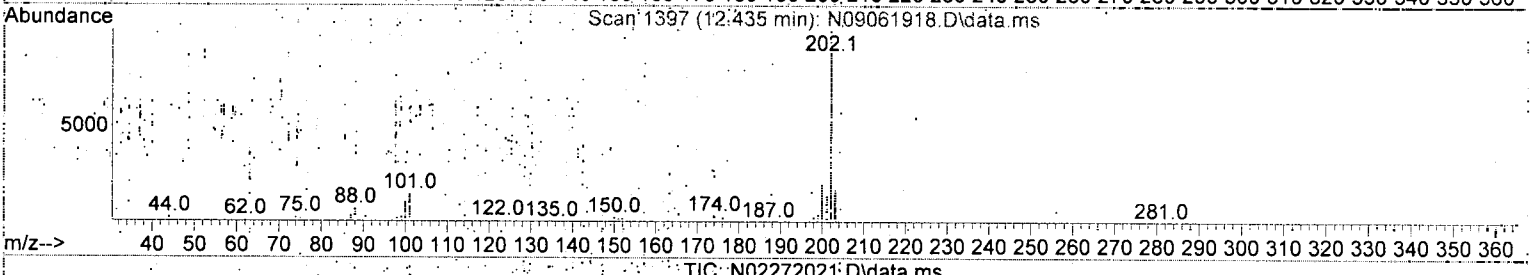
Quantitation Report (Qedit)

Data Path : R:\data\2020-02\0B27023\
Data File : N02272021.D
Acq On : 27 Feb 2020 06:51 pm
Operator : JK/ AMS/ DTH
Sample : A0B0680-01RE1@1000
Misc : 1000x, 8270D PAH Only
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 28 09:59:22 2020
Quant Method : R:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration







TIC: N02272021.D\data.ms

(23) Fluoranthene (T)

12.278min (-0.012) 110.10 ng/ml

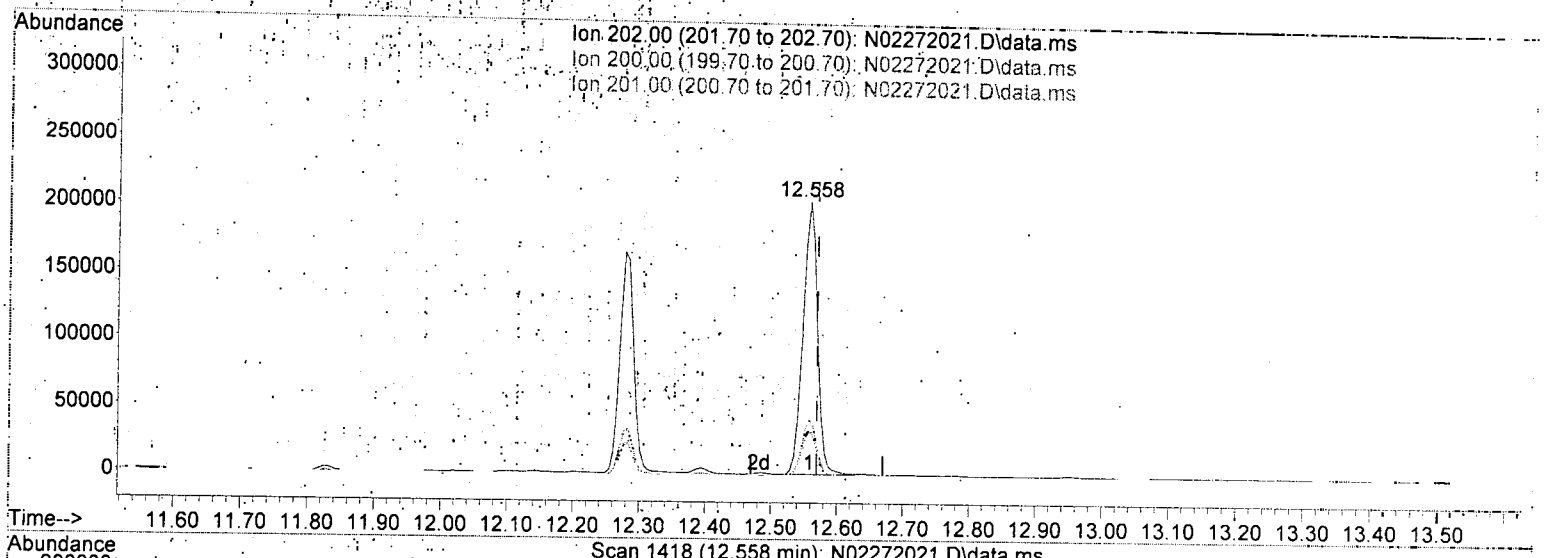
response 246020

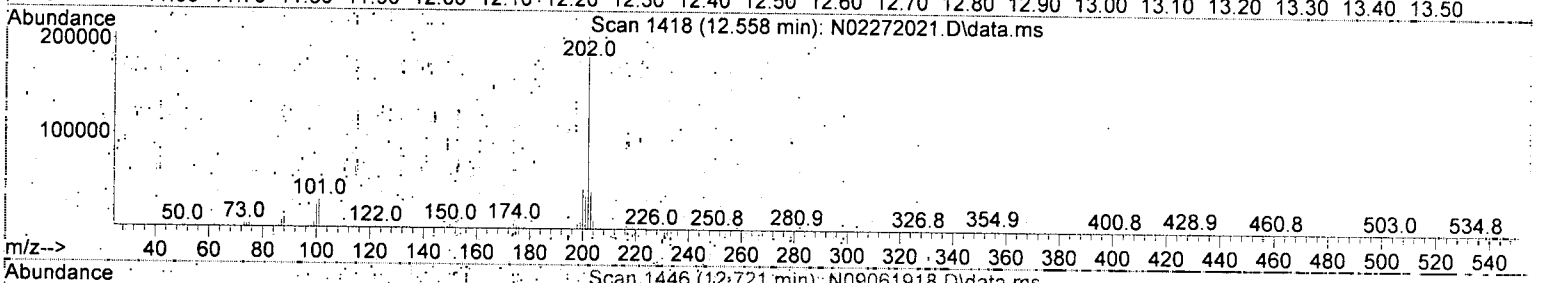
Ion	Exp%	Act%
202.00	100.00	100.00
200.00	19.70	20.20
101.00	15.30	12.67
0.00	0.00	0.00

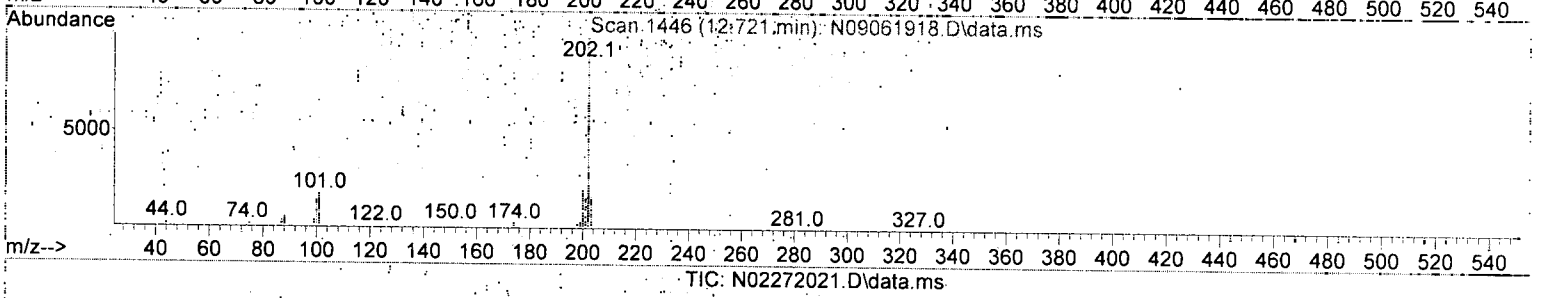
Quantitation Report (Qedit)

Data Path : R:\data\2020-02\0B27023\
Data File : N02272021.D
Acq On : 27 Feb 2020 06:51 pm
Operator : JK/ AMS/ DTH
Sample : A0B0680-01RE1@1000
Misc : 1000x; 8270D PAH Only
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 28 09:59:22 2020
Quant Method : R:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration







TIC: N02272021.D\data.ms

(25) Pyrene (T)

12.558min (-0.012) 133.57 ng/ml

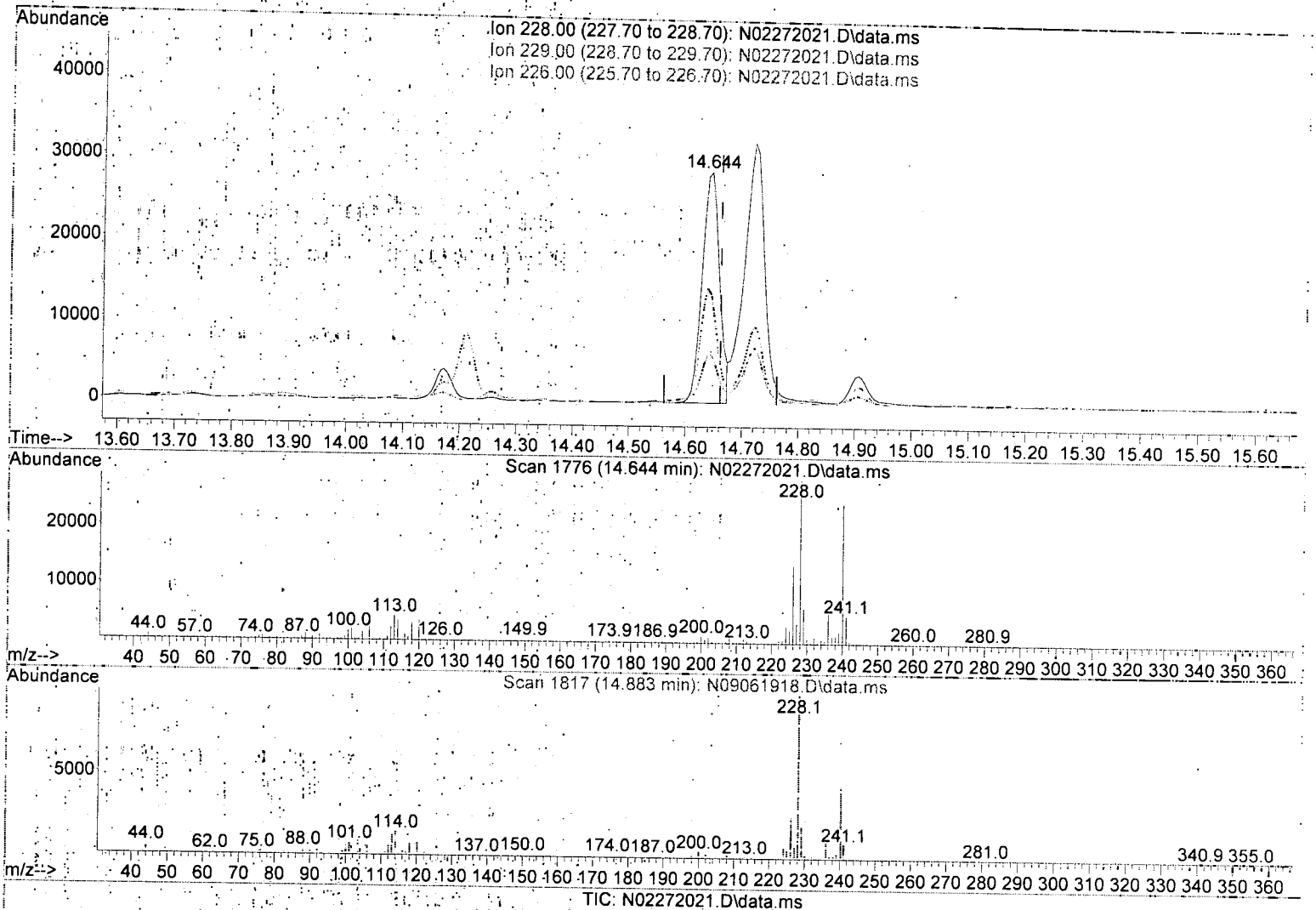
response 314672

Ion	Exp%	Act%
202.00	100.00	100.00
200.00	20.70	20.54
201.00	16.80	16.99
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : R:\data\2020-02\0B27023\
Data File : N02272021.D
Acq On : 27 Feb 2020 06:51 pm
Operator : JK/ AMS/ DTH
Sample : A0B0680-01RE1@1000
Misc : 1000x, 8270D PAH Only
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 28 09:59:22 2020
Quant Method : R:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration



TIC: N02272021.D\data.ms

(27) Benz(a)anthracene (T)

14.644min (-0.018) 35.03 ng/ml

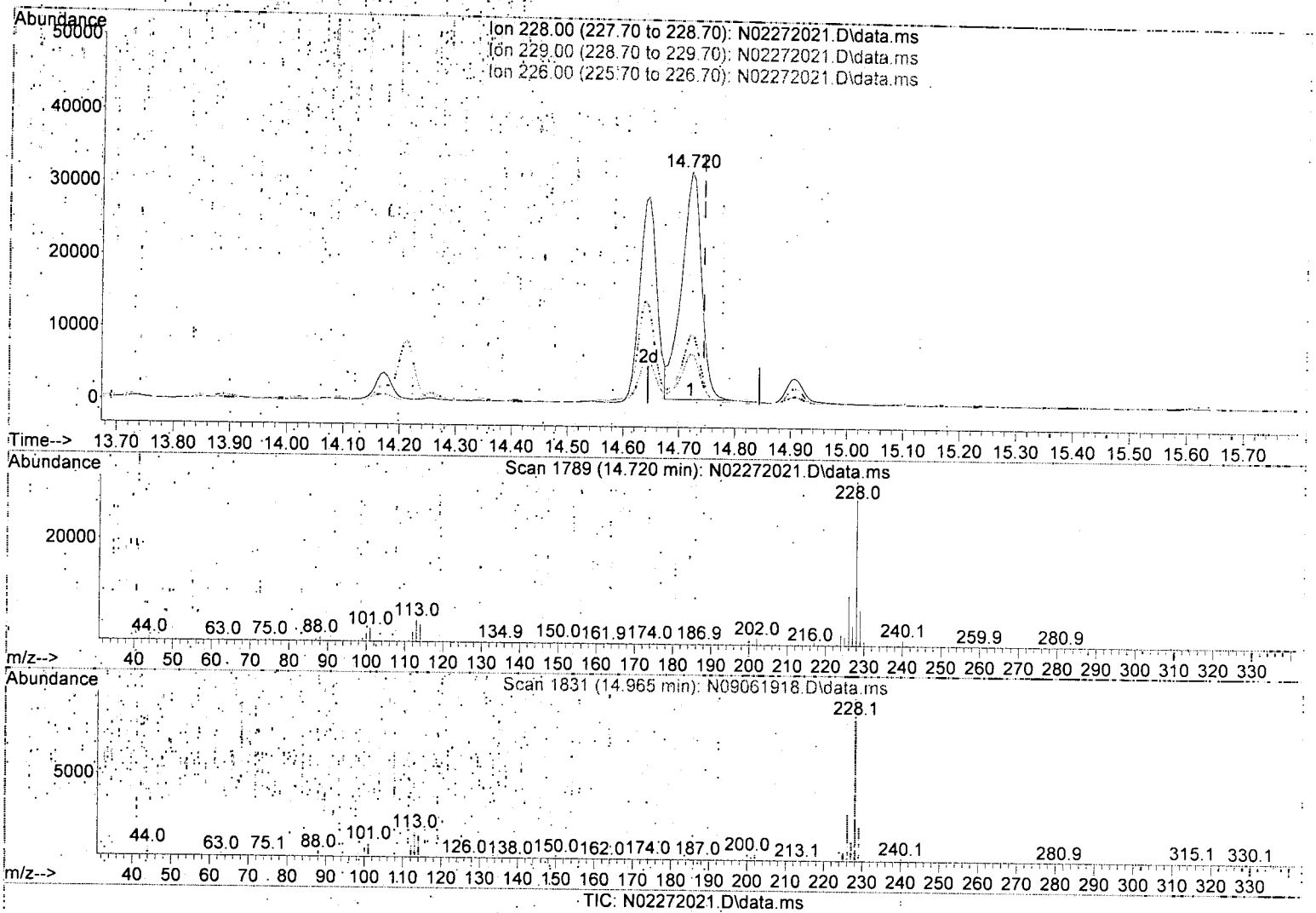
response 61328

Ion	Exp%	Act%
228.00	100.00	100.00
229.00	19.40	21.47
226.00	26.20	47.36
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : R:\data\2020-02\0B27023\
Data File : N02272021.D
Acq On : 27 Feb 2020 06:51 pm
Operator : JK/ AMS/ DTH
Sample : A0B0680-01RE1@1000
Misc : 1000x, 8270D PAH Only
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 28 09:59:22 2020
Quant Method : R:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration



TIC: N02272021.D\data.ms

(28) Chrysene (T)

14.720min (-0.023) 47.42 ng/ml

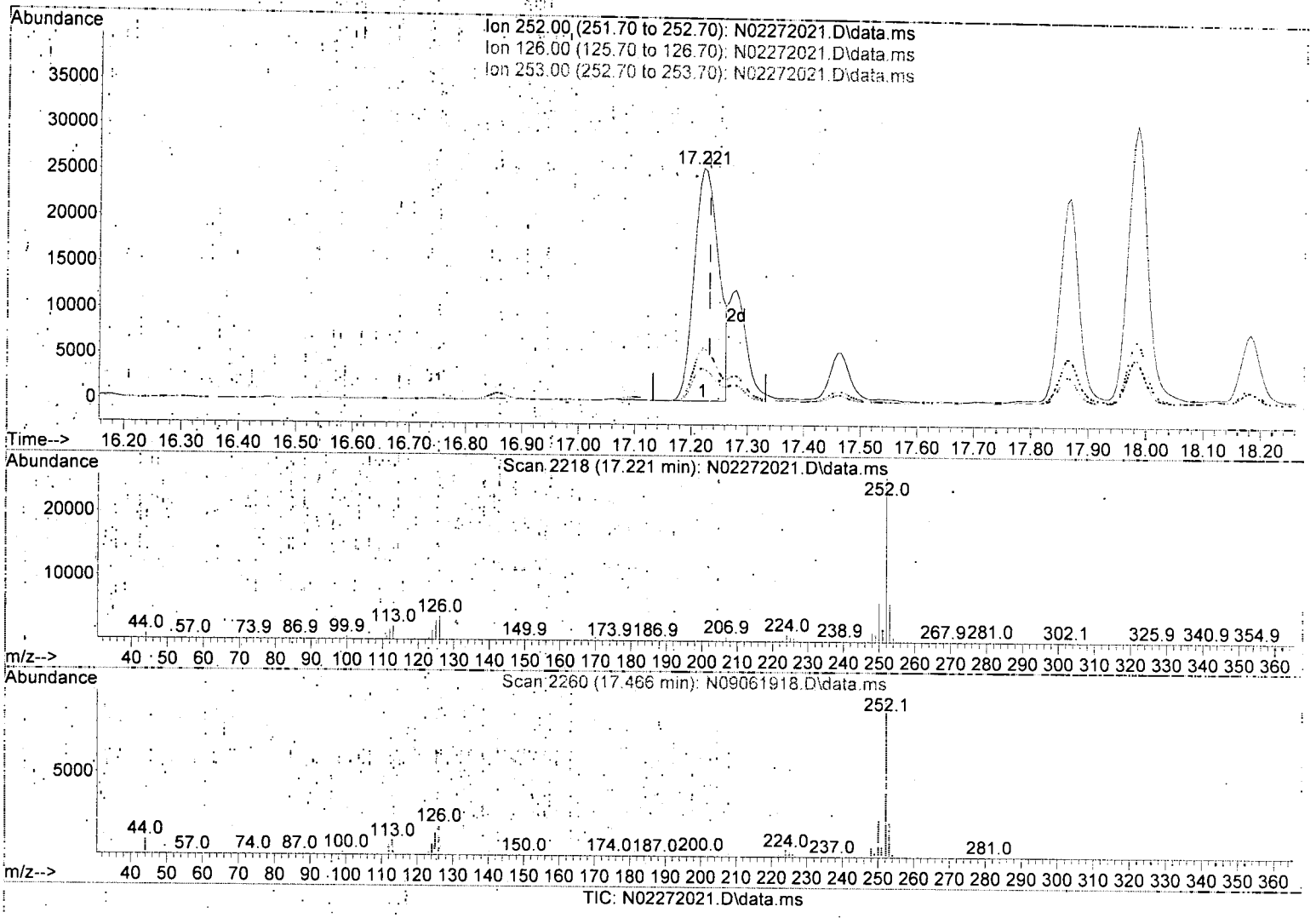
response 78572

Ion	Exp%	Act%
228.00	100.00	100.00
229.00	19.60	21.71
226.00	28.60	30.03
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : R:\data\2020-02\0B27023\
Data File : N02272021.D
Acq On : 27 Feb 2020 06:51 pm
Operator : JK/ AMS/ DTH
Sample : A0B0680-01RE1@1000
Misc : 1000x, 8270D PAH Only
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 28 09:59:22 2020
Quant Method : R:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration



TIC: N02272021.D\data.ms

(30) Benzo(b)fluoranthene (T)

17.221min (-0.012) 45.58 ng/ml

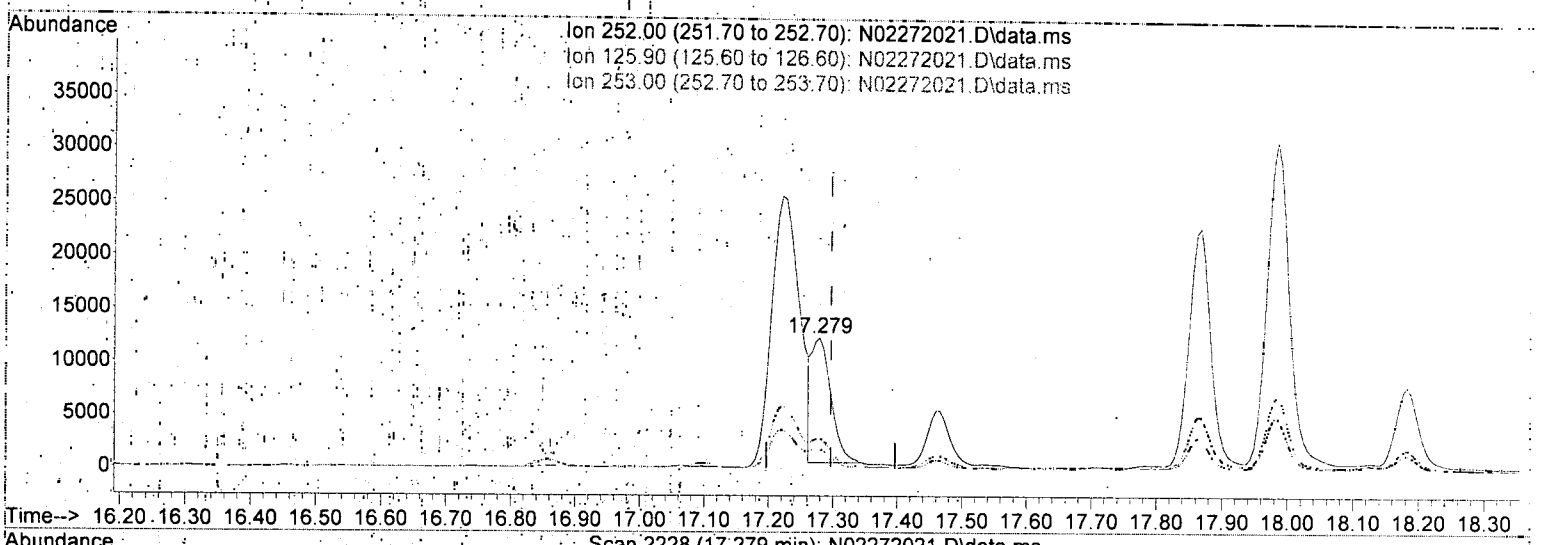
response 77703

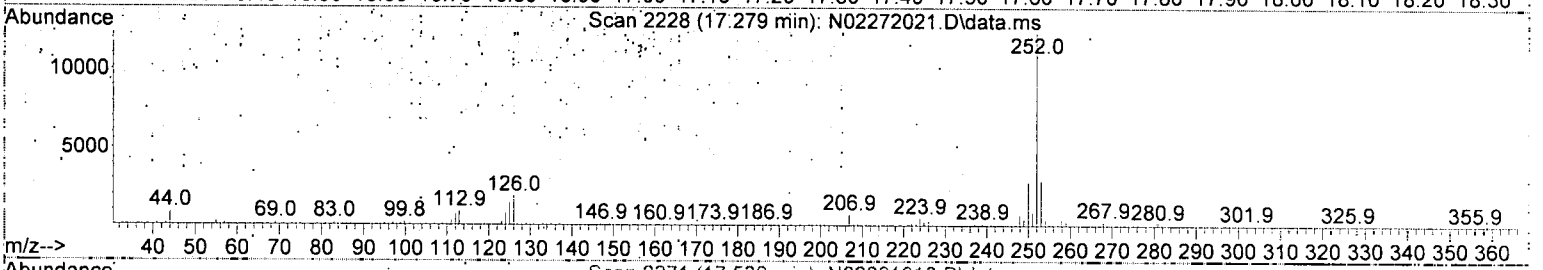
Ion	Exp%	Act%
252.00	100.00	100.00
126.00	20.00	14.34
253.00	21.10	23.22
0.00	0.00	0.00

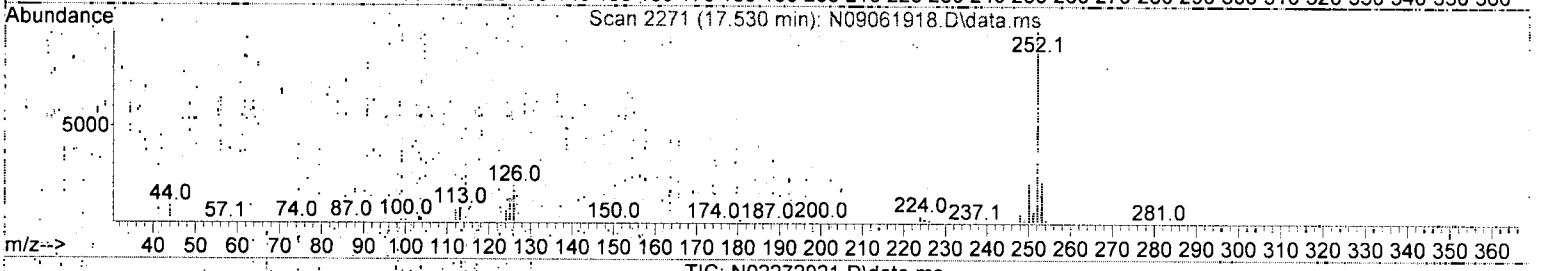
Quantitation Report (Qedit)

Data Path : R:\data\2020-02\0B27023\
Data File : N02272021.D
Acq On : 27 Feb 2020 06:51 pm
Operator : JK/ AMS/ DTH
Sample : A0B0680-01RE1@1000
Misc : 1000x, 8270D PAH Only
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 28 09:59:22 2020
Quant Method : R:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration







TIC: N02272021.D\data.ms

(31) Benzo(k)fluoranthene (T)

17.279min (-0.018) 14.68 ng/ml m

response 24642

Ion	Exp%	Act%
252.00	100.00	100.00
125.90	22.10	15.02
253.00	21.50	23.08
0.00	0.00	0.00

JAWL 2/28/20

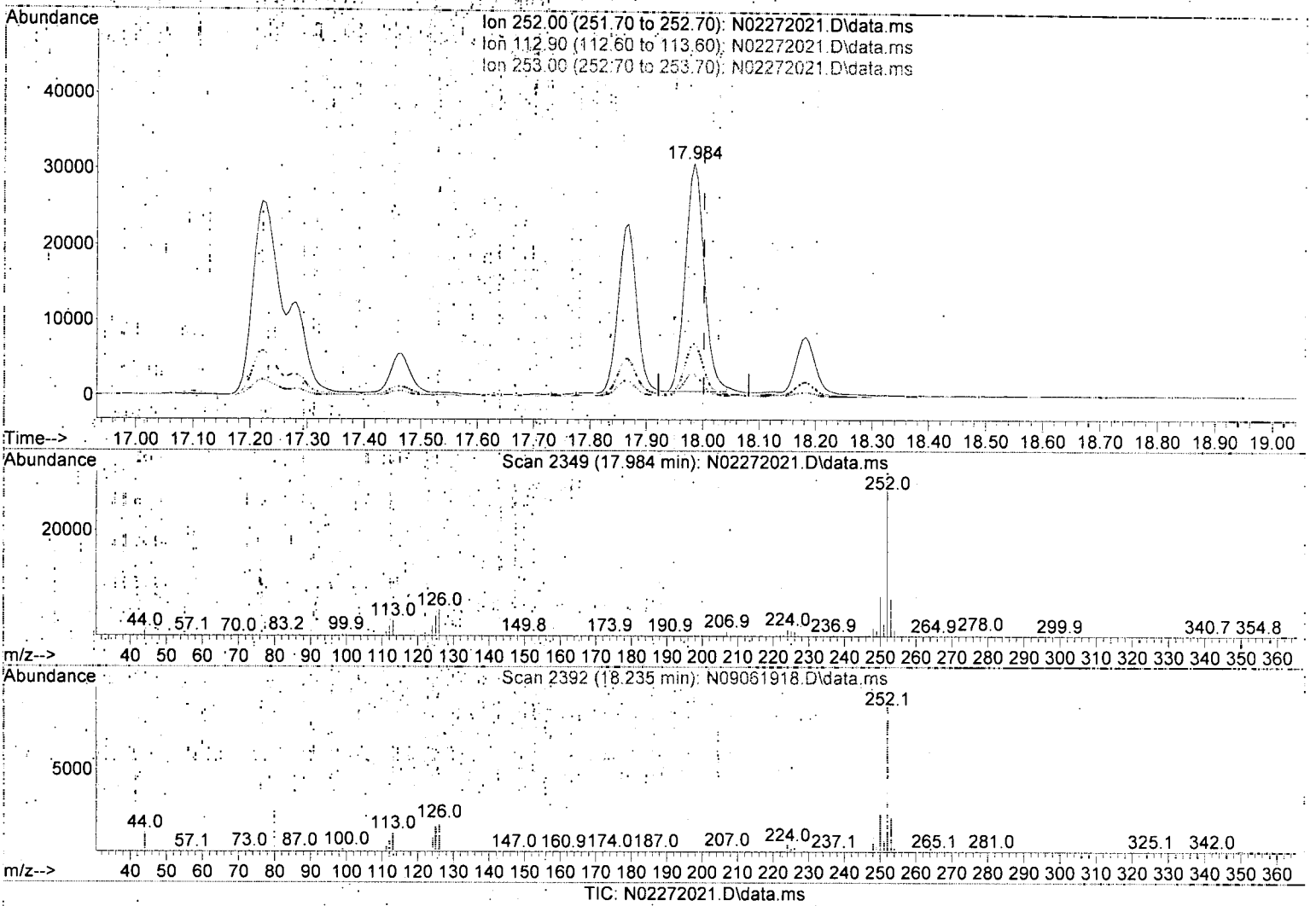
MOS

✓

Quantitation Report (Qedit)

Data Path : R:\data\2020-02\0B27023\
Data File : N0227202l.D
Acq On : 27 Feb 2020 06:51 pm
Operator : JK/ AMS/ DTH
Sample : A0B0680-01RE1@1000
Misc : 1000x, 8270D PAH Only
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 28 09:59:22 2020
Quant Method : R:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration



TIC: N02272021.D\data.ms

(35) Benzo(a)pyrene (T)

17.984min (-0.018) 48.64 ng/ml

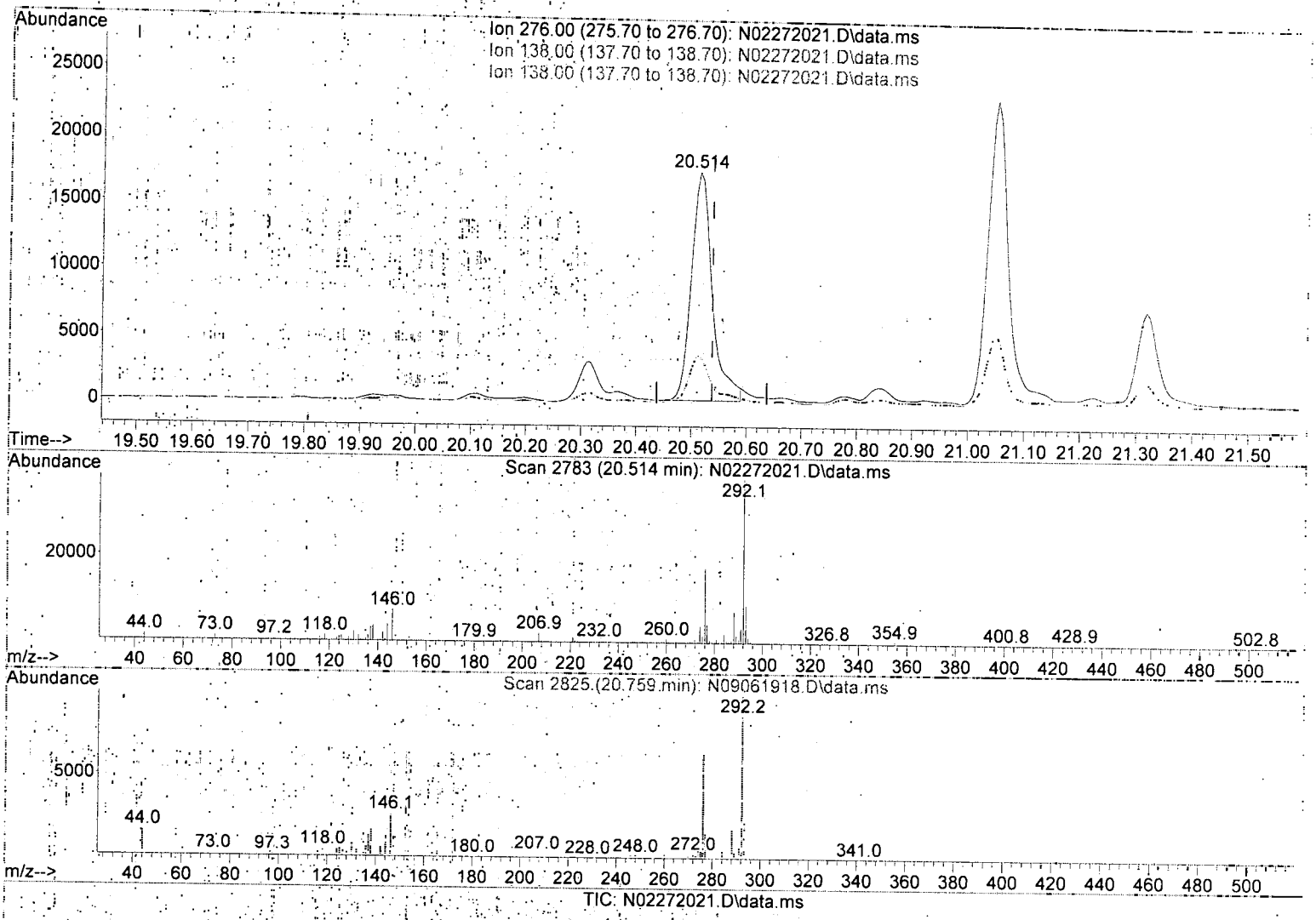
response 70981

Ion	Exp%	Act%
252.00	100.00	100.00
112.90	12.70	9.67
253.00	21.90	22.68
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : R:\data\2020-02\0B27023\
Data File : N02272021.D
Acq On : 27 Feb 2020 06:51 pm
Operator : JK/ AMS/ DTH
Sample : A0B0680-01RE1@1000
Misc : 1000x, 8270D PAH Only
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 28 09:59:22 2020
Quant Method : R:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration



TIC: N02272021.D\data.ms

(38) Indeno(1,2,3-cd)Pyrene (T)

20.514min (-0.023) 34.77 ng/ml

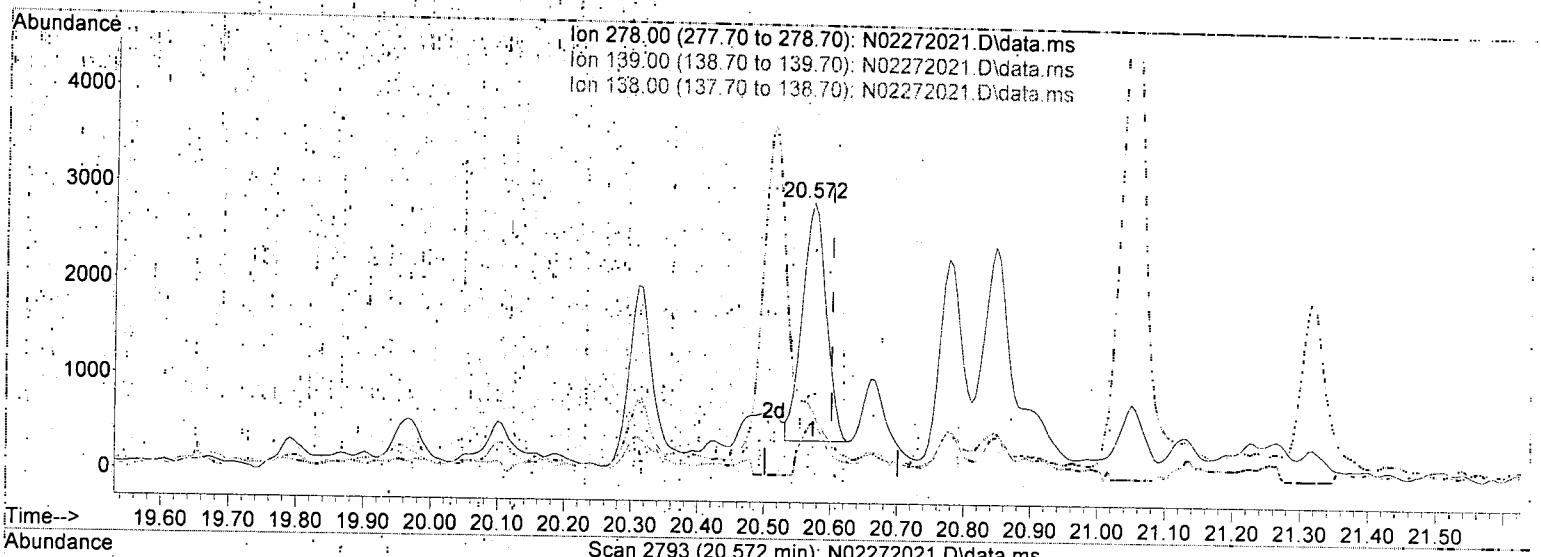
response 45948

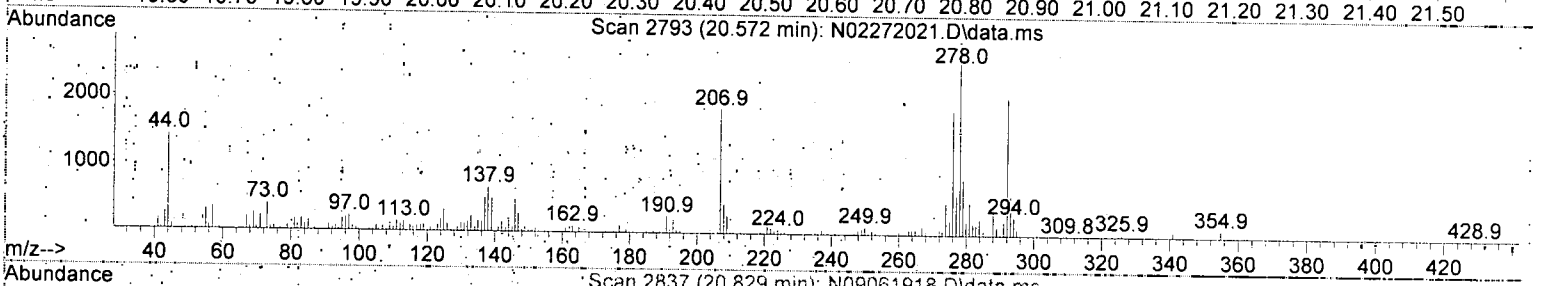
Ion	Exp%	Act%
276.00	100.00	100.00
138.00	31.60	20.95
138.00	31.60	20.95
0.00	0.00	0.00

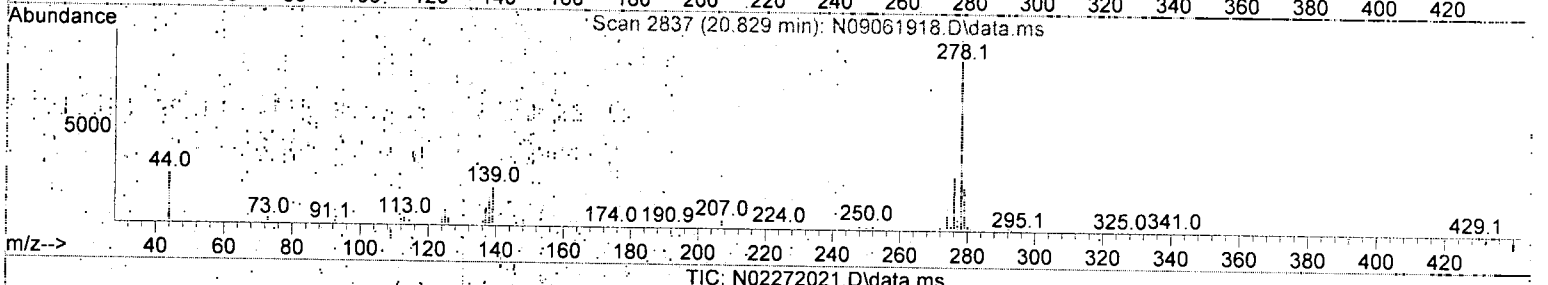
Quantitation Report (Qedit)

Data Path : R:\data\2020-02\0B27023\
Data File : N02272021.D
Acq On : 27 Feb 2020 06:51 pm
Operator : JK/ AMS/ DTH
Sample : A0B0680-01RE1@1000
Misc : 1000x, 8270D PAH Only
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 28 09:59:22 2020
Quant Method : R:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration







TIC: N02272021.D\data.ms

(39) Dibenz(a,h)anthracene (T)

20.572min (-0.029) 5.04 ng/ml

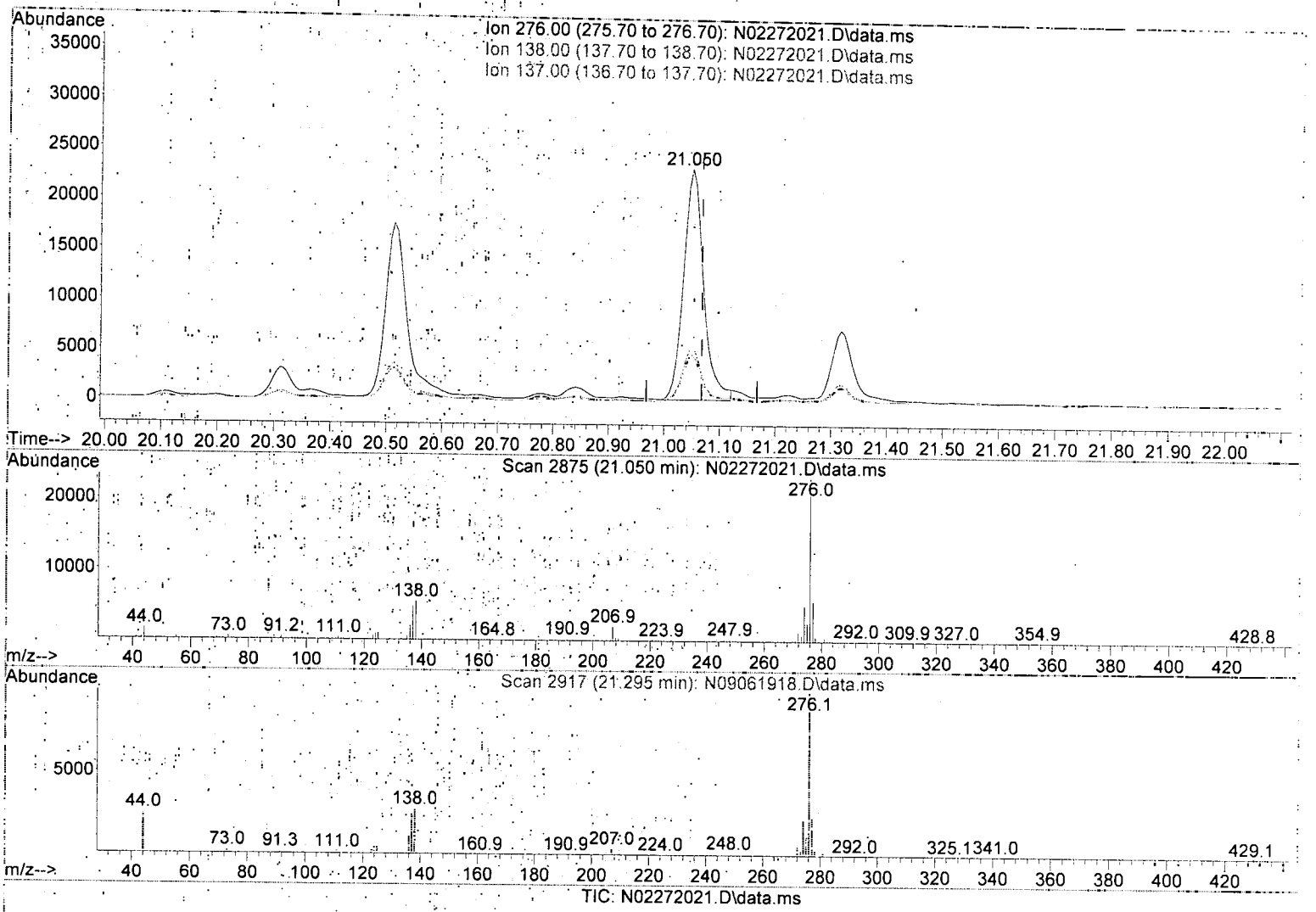
response 6253

Ion	Exp%	Act%
278.00	100.00	100.00
139.00	26.00	17.78
138.00	19.90	23.35
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : R:\data\2020-02\0B27023\
Data File : N02272021.D
Acq On : 27 Feb 2020 06:51 pm
Operator : JK/ AMS/ DTH
Sample : A0B0680-01RE1@1000
Misc : 1000x, 8270D PAH Only
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 28 09:59:22 2020
Quant Method : R:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration



TIC: N02272021.D\data.ms

(40) Benzo(g,h,i)perylene (T)

21.050min (-0.018) 41.49 ng/ml

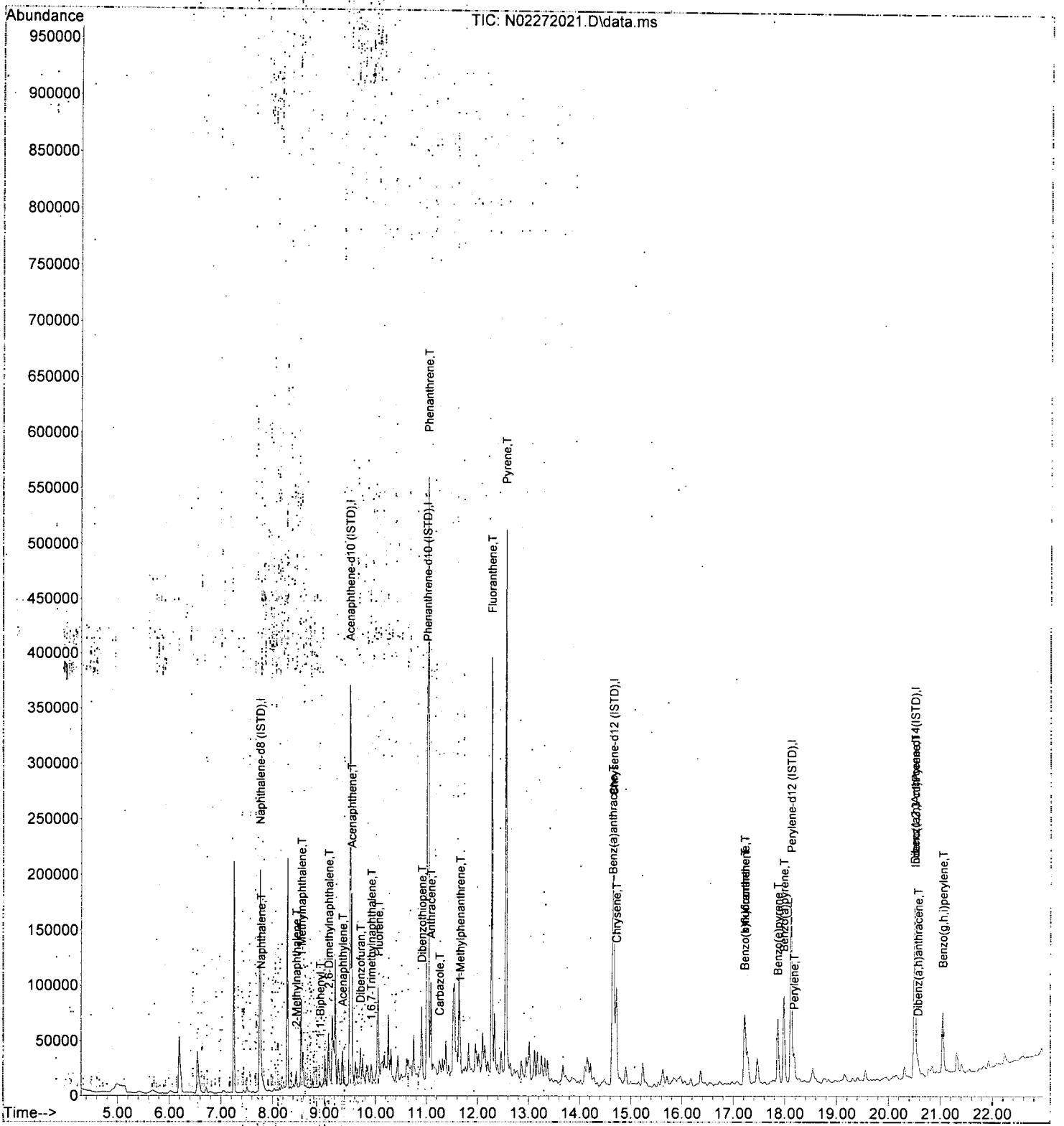
response 58148

Ion	Exp%	Act%
276.00	100.00	100.00
138.00	21.00	23.62
137.00	18.60	20.44
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-02\0B27023\
Data File : N02272021.D
Acq On : 27 Feb 2020 06:51 pm
Operator : JK/ AMS/ DTH
Sample : A0B0680-01RE1@1000
Misc : 1000x, 8270D PAH Only
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 28 09:59:22 2020
Quant Method : R:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-02\0B27023\
Data File : N02272023.D
Acq On : 27 Feb 2020 07:55 pm
Operator : JK/ AMS/ DTH
Sample : A0B0680-04RE1@100
Misc : 1000x, 8270D PAH Only
ALS Vial : 23 Sample Multiplier: 1

JAM 2/28/20

Quant Time: Feb 28 09:59:30 2020
Quant Method : R:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration

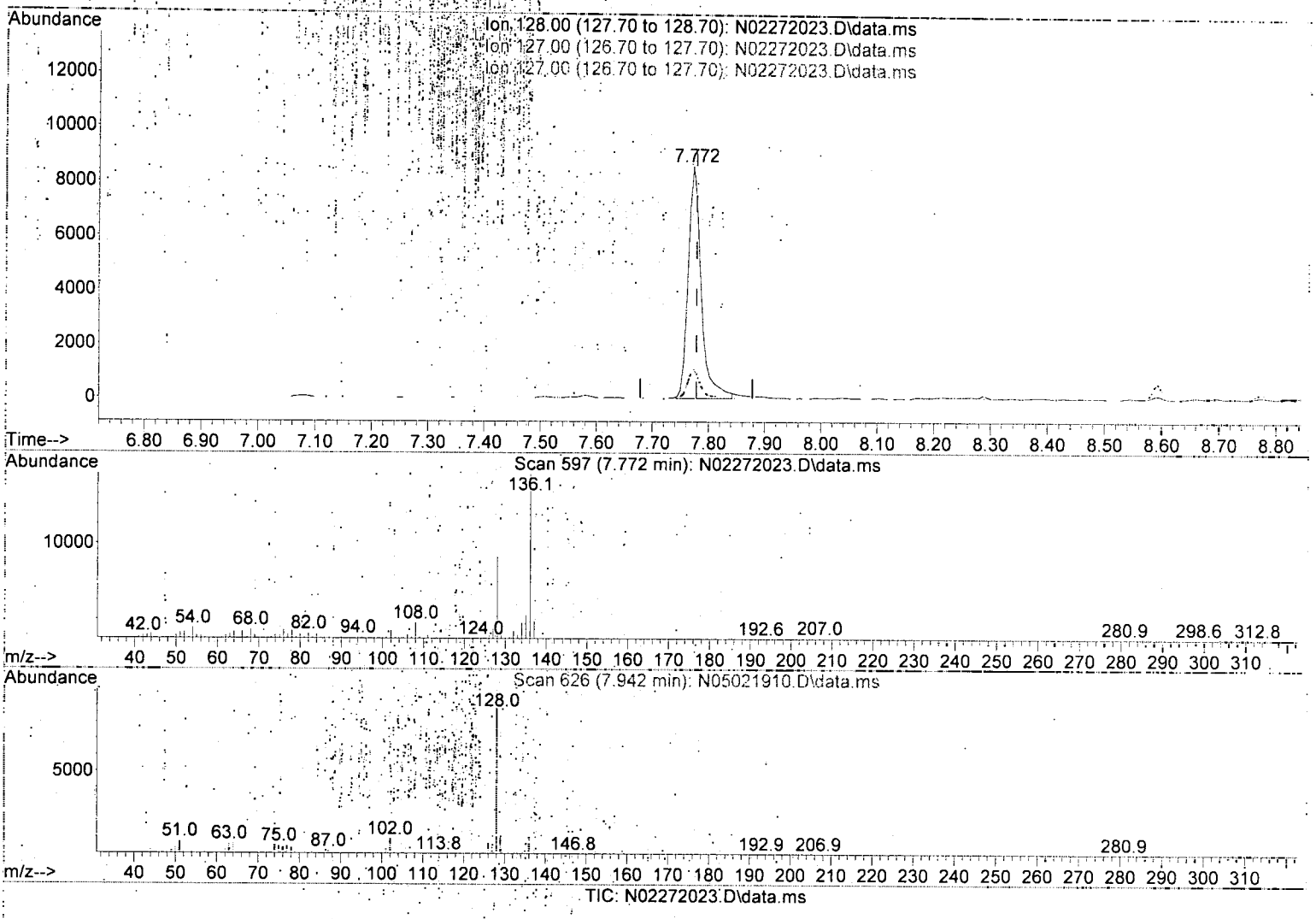
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Naphthalene-d8 (ISTD)	7.749	136	164217	100.00 ng/ml	-0.01
9) Acenaphthene-d10 (ISTD)	9.504	162	116376	100.00 ng/ml	-0.01
17) Phenanthrene-d10 (ISTD)	11.013	188	198968	100.00 ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.662	240	161687	100.00 ng/ml	-0.02
29) Perylene-d12 (ISTD)	18.124	264	164127	100.00 ng/ml	-0.02
37) Dibenz(a,h)Anthrcene-d...	20.508	292	121141	100.00 ng/ml	-0.02
System Monitoring Compounds					
2) Nitrobenzene-d5 (Surr)	7.073	82	439	0.80 ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.822	172	1341	0.77 ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	9.346	160	4003	0.26 ng/ml	-0.01
26) Terphenyl-d14 (Surr)	12.756	244	1338	0.79 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	14170	7.82 ng/ml	100
5) 2-Methylnaphthalene	8.460	142	2426	1.58 ng/ml	88
6) 1-Methylnaphthalene	8.559	142	2647	1.72 ng/ml	94
7) 1,1'-Biphenyl	8.927	154	1813	0.88 ng/ml	93
8) 2,6-Dimethylnaphthalene	9.090	156	3574	2.37 ng/ml	93
12) Acenaphthylene	9.364	152	6827	2.70 ng/ml	96 J
13) Acenaphthene	9.539	153	46704	28.22 ng/ml	99
14) Dibenzofuran	9.713	168	2213	1.07 ng/ml	81
15) 1,6,7-Trimethylnaphtha...	9.923	170	1348	0.97 ng/ml	91
16) Fluorene	10.057	166	26591	15.70 ng/ml	98
18) Dibenzothiopene	10.908	184	27926	13.42 ng/ml	96
19) Phenanthrene	11.036	178	258701	111.11 ng/ml	100
20) Anthracene	11.089	178	16098	7.43 ng/ml	99
21) Carbazole	11.258	167	562	N.D.	
22) 1-Methylphenanthrene	11.660	192	5582	3.45 ng/ml	91
23) Fluoranthene	12.278	202	180699	77.03 ng/ml	97
25) Pyrene	12.558	202	228873	90.60 ng/ml	100
27) Benz(a)anthracene	14.639	228	35116	18.71 ng/ml#	54
28) Chrysene	14.720	228	47897	26.96 ng/ml	97
30) Benzo(b)fluoranthene	17.221	252	48374	25.54 ng/ml	93
31) Benzo(k)fluoranthene	17.221	252	59428	31.87 ng/ml	91 ME - MOS
32) Benzo(b+k)fluoranthene	17.221	252	67411	34.80 ng/ml	91
34) Benzo(e)pyrene	17.862	252	33961	17.73 ng/ml	97
35) Benzo(a)pyrene	17.984	252	48028	29.63 ng/ml	98
36) Perylene	18.182	252	16369	8.20 ng/ml	98
38) Indeno(1,2,3-cd)Pyrene	20.514	276	34180	22.88 ng/ml	83
39) Dibenz(a,h)anthracene	20.572	278	3158	2.25 ng/ml	90
40) Benzo(g,h,i)perylene	21.050	276	45176	28.50 ng/ml	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : R:\data\2020-02\0B27023\
Data File : N02272023.D
Acq On : 27 Feb 2020 07:55 pm
Operator : JK/ AMS/ DTH
Sample : A0B0680-04RE10100
Misc : 1000x, 8270D PAH Only
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Feb 28 09:59:30 2020
Quant Method : R:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration



TIC: N02272023.D\data.ms

(4) Naphthalene (T)

7.772min (-0.006) 7.82 ng/ml

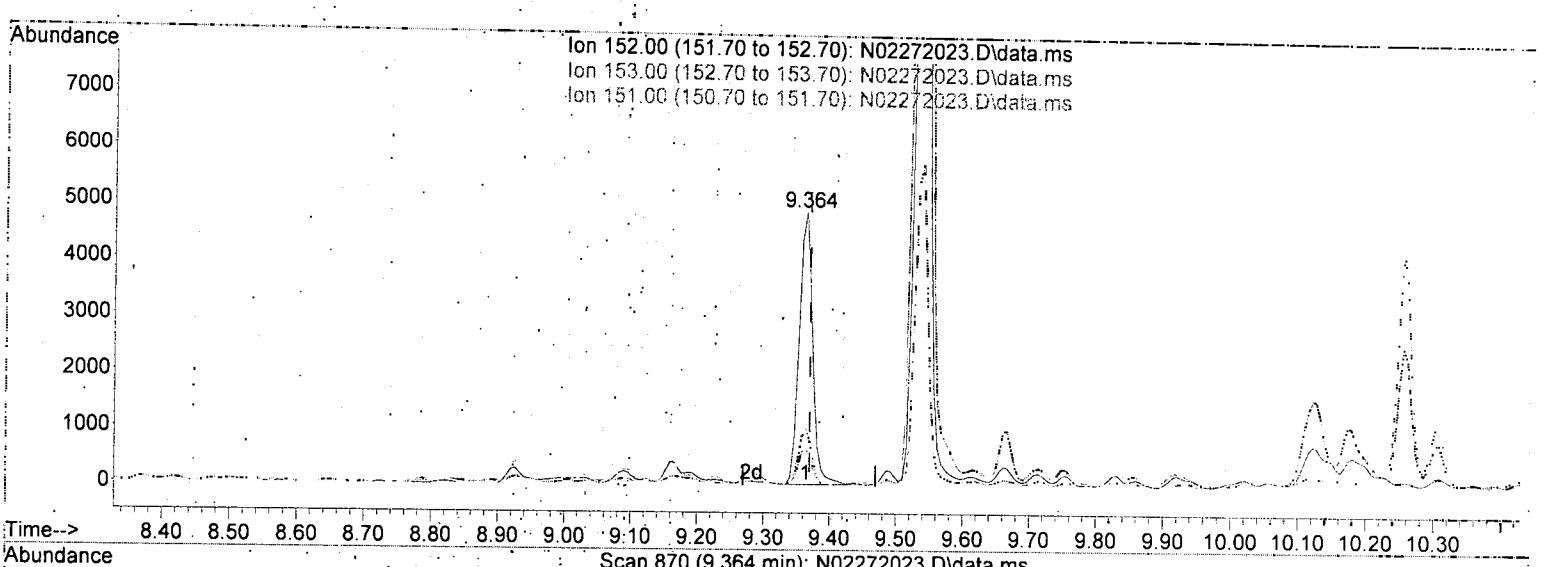
response 14170

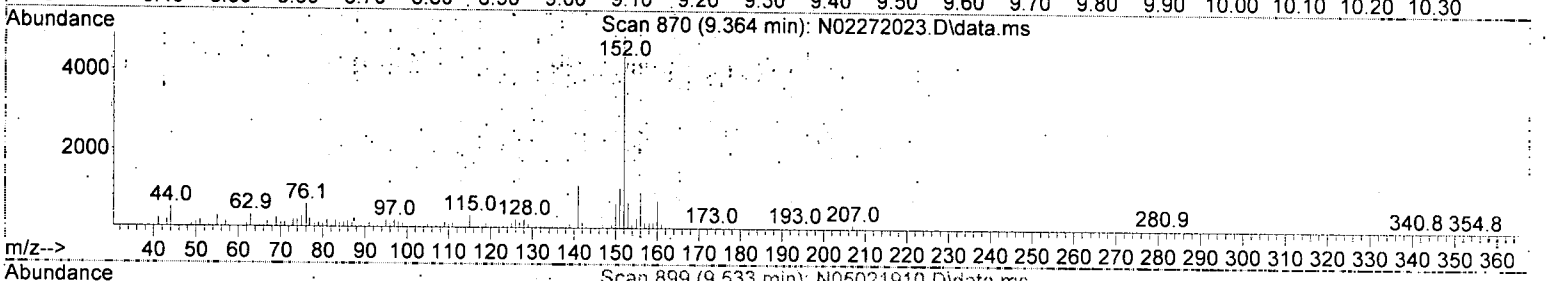
Ion	Exp%	Act%
128.00	100.00	100.00
127.00	12.60	12.46
127.00	12.60	12.46
0.00	0.00	0.00

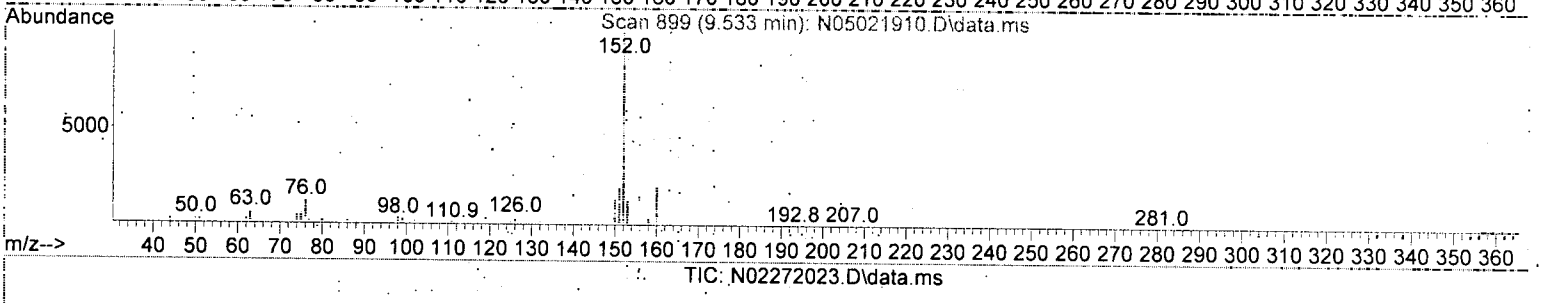
Quantitation Report (Qedit)

Data Path : R:\data\2020-02\0B27023\
Data File : N02272023.D
Acq On : 27 Feb 2020 07:55 pm
Operator : JK/ AMS/ DTH
Sample : A0B0680-04RE1@100
Misc : 1000x, 8270D PAH Only
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Feb 28 09:59:30 2020
Quant Method : R:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration







TIC: N02272023.D\data.ms

(12) Acenaphthylene (T)

9.364min (-0.006) 2.70 ng/ml

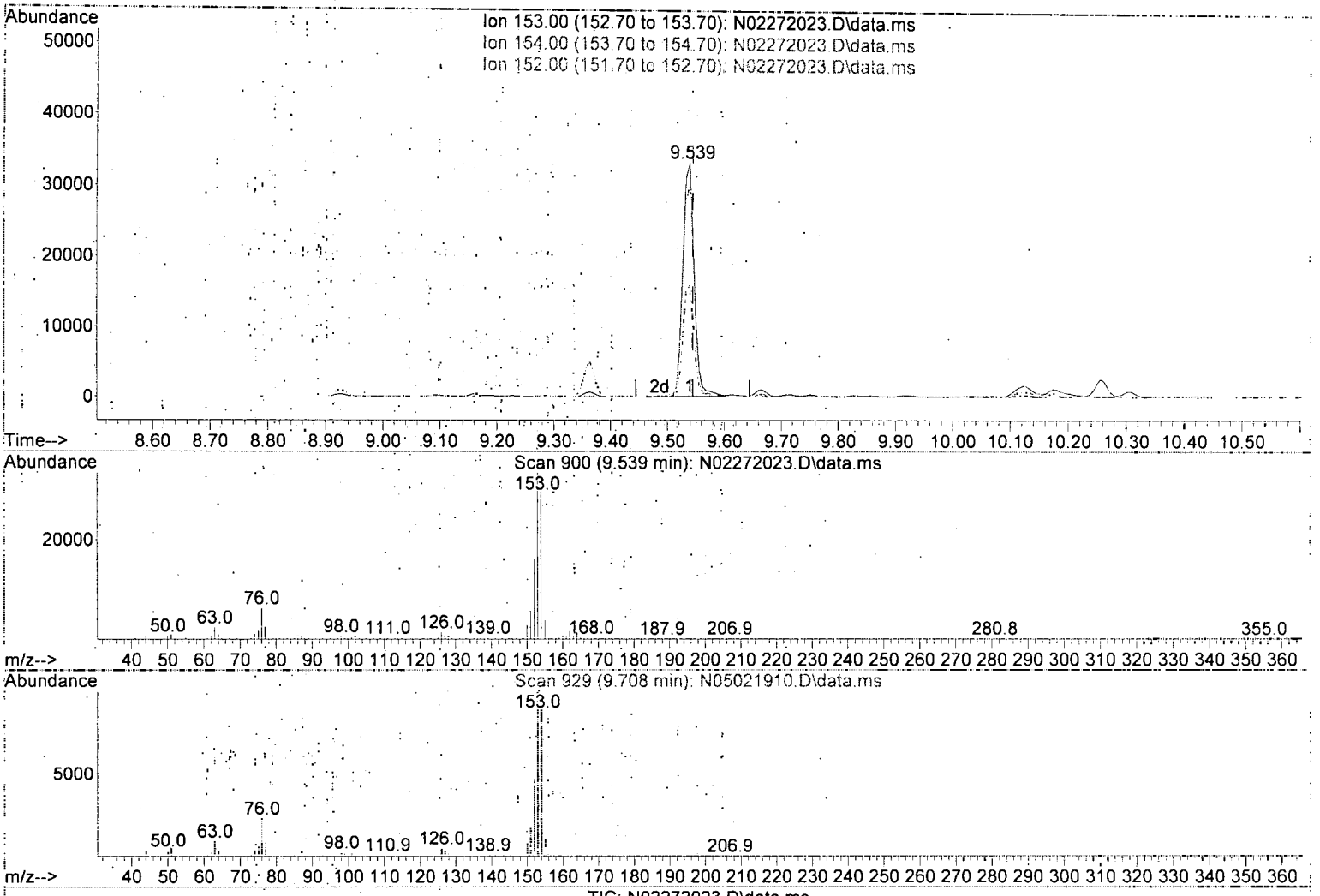
response 6827

Ion	Exp%	Act%
152.00	100.00	100.00
153.00	12.70	14.13
151.00	19.30	21.30
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : R:\data\2020-02\0B27023\
Data File : N02272023.D
Acq On : 27 Feb 2020, 07:55 pm
Operator : JK/ AMS/ DTH
Sample : A0B0680-04RE1@100
Misc : 1000x, 8270D PAH Only
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Feb 28 09:59:30 2020
Quant Method : R:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration



TIC: N02272023.D\data.ms

(13) Acenaphthene (T)

9.539min (-0.006) 28.22 ng/ml

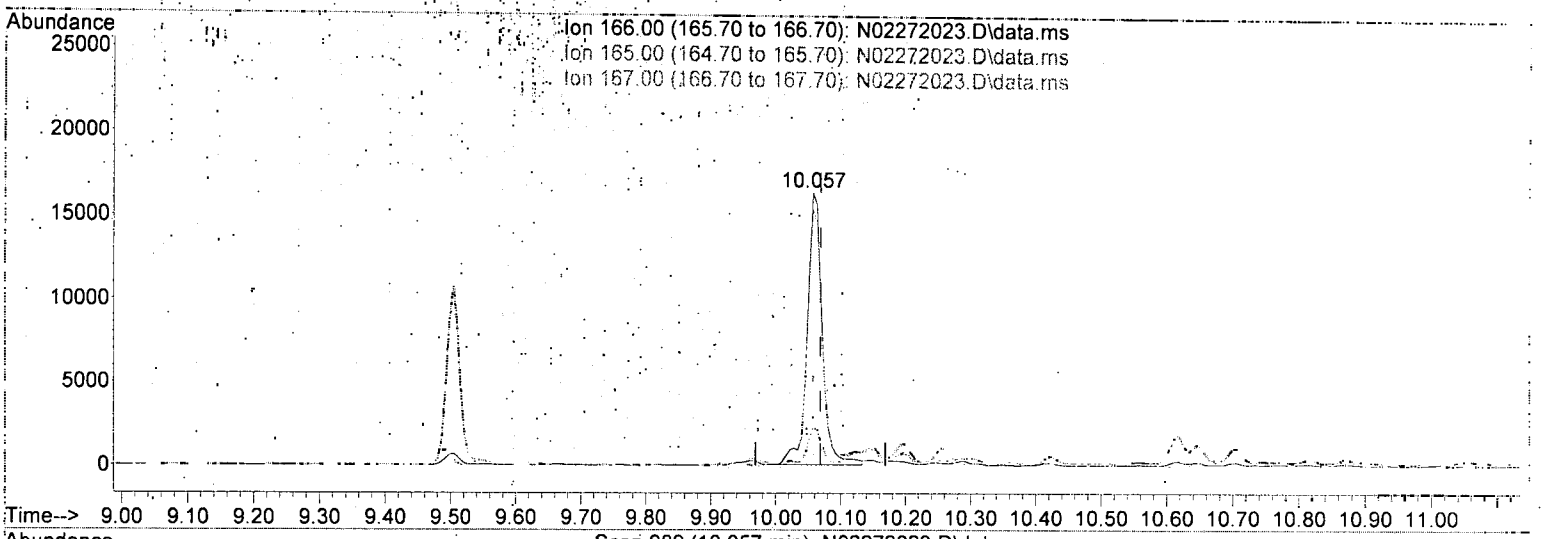
response 46704

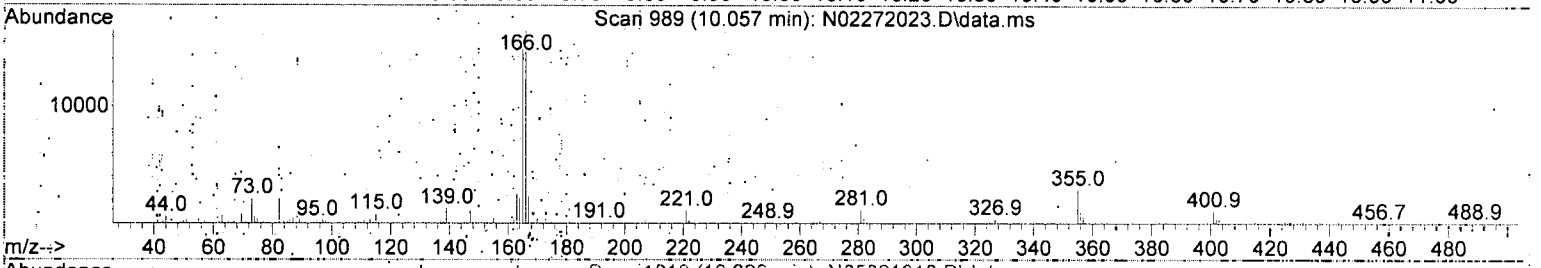
Ion	Exp%	Act%
153.00	100.00	100.00
154.00	90.70	90.03
152.00	46.80	48.16
0.00	0.00	0.00

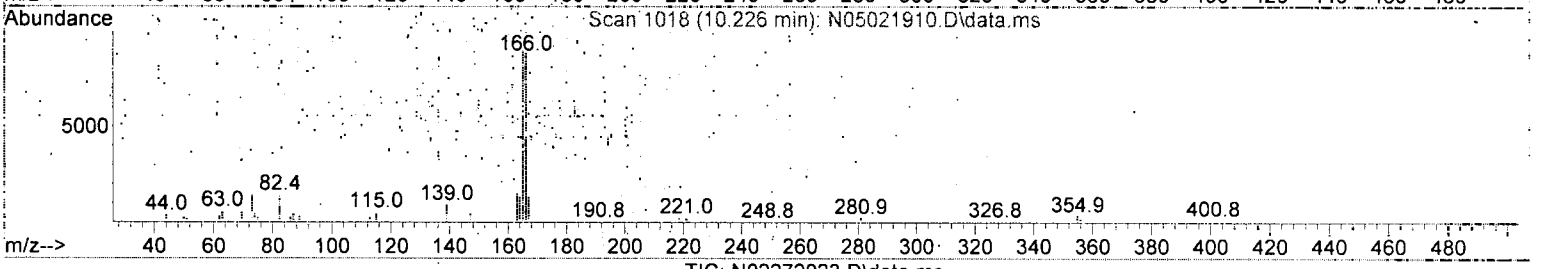
Quantitation Report (Qedit)

Data Path : R:\data\2020-02\0B27023\
Data File : N02272023.D
Acq On : 27 Feb 2020 07:55 pm
Operator : JK/ AMS/ DTH
Sample : A0B0680-04RE1@100
Misc : 1000x, 8270D PAH Only
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Feb 28 09:59:30 2020
Quant Method : R:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration







TIC: N02272023.D\data.ms

(16) Fluorene (T)

10.057min (-0.012) 15.70 ng/ml

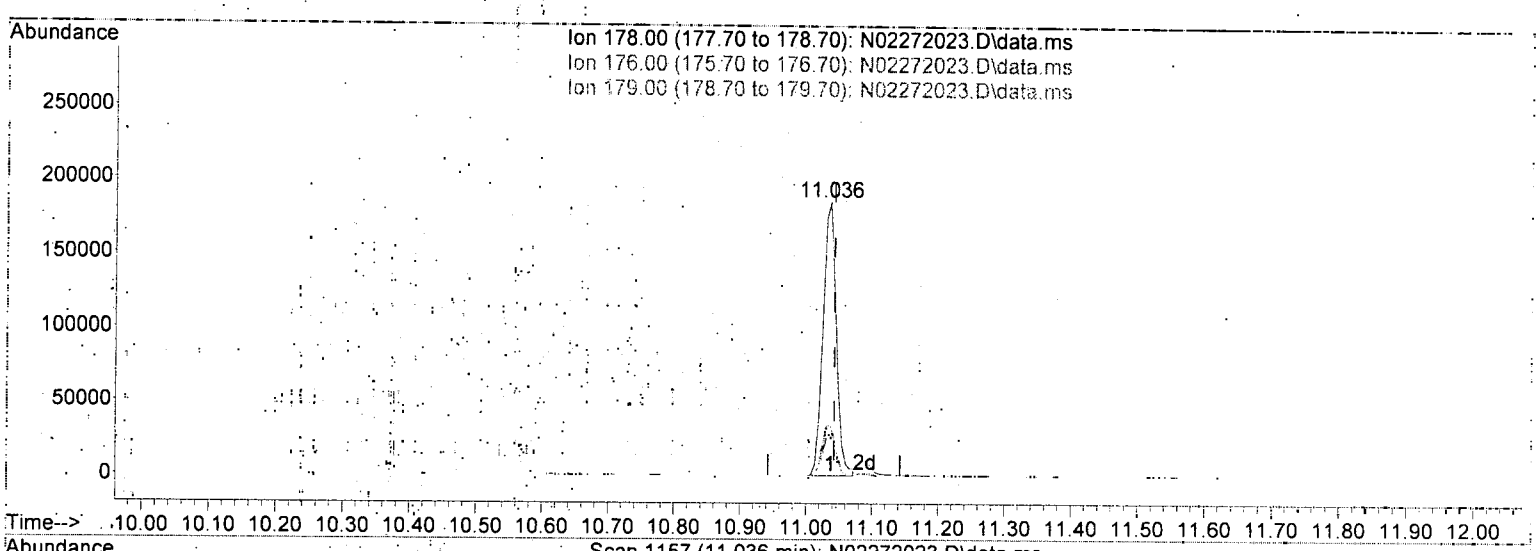
response 26591

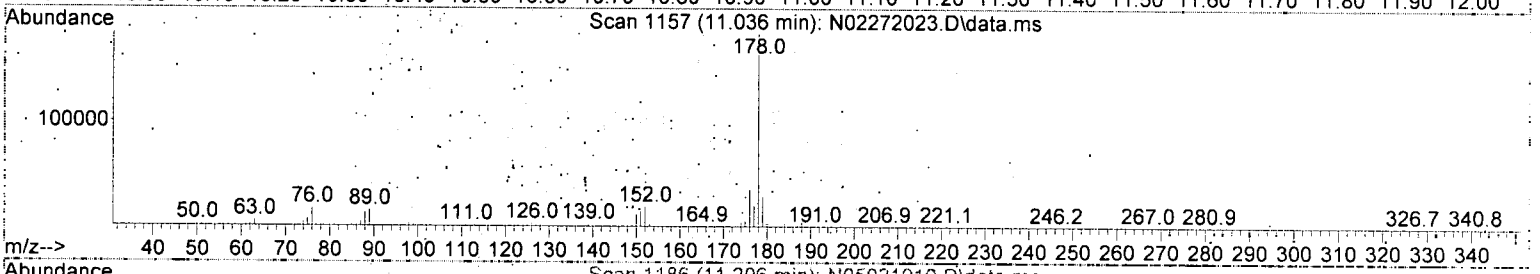
Ion	Exp%	Act%
166.00	100.00	100.00
165.00	95.70	93.70
167.00	13.60	14.01
0.00	0.00	0.00

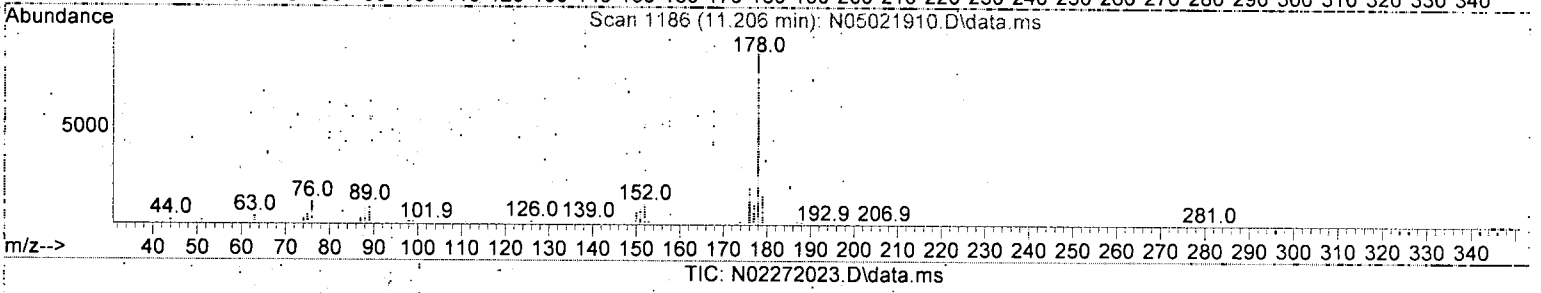
Quantitation Report (Qedit)

Data Path : R:\data\2020-02\0B27023\
Data File : N02272023.D
Acq On : 27 Feb 2020 07:55 pm
Operator : JK/ AMS/ DTH
Sample : A0B0680-04RE1@100
Misc : 1000x, 8270D PAH Only
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Feb 28 09:59:30.2020
Quant Method : R:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration







TIC: N02272023.D\data.ms

(19) Phenanthrene (T)

11.036min (-0.006) 111.11 ng/ml

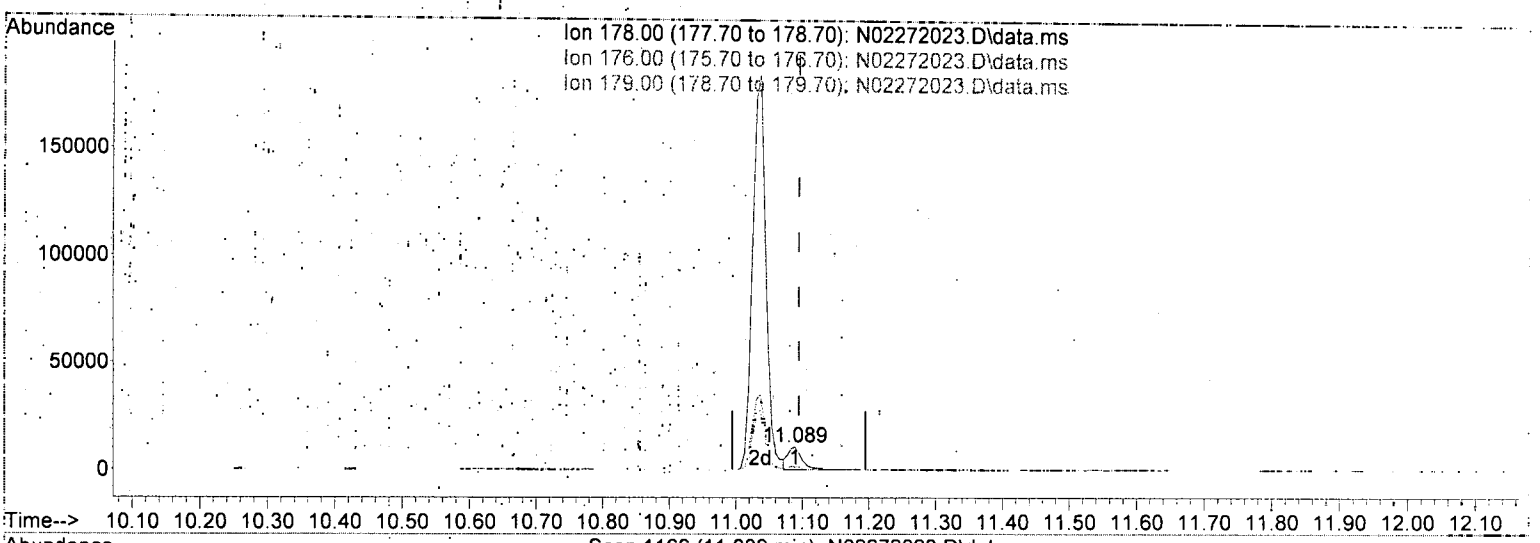
response 258701

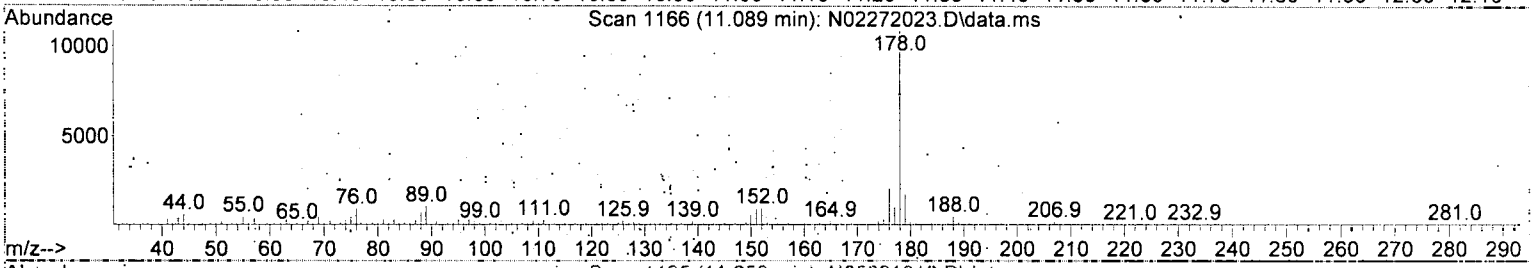
Ion	Exp%	Act%
178.00	100.00	100.00
176.00	19.00	19.00
179.00	15.10	15.20
0.00	0.00	0.00

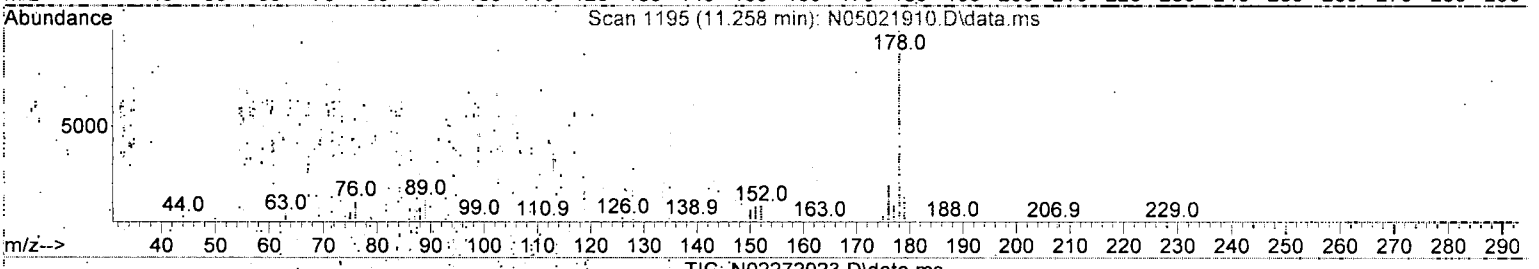
Quantitation Report (Qedit)

Data Path : R:\data\2020-02\0B27023\
Data File : N02272023.D
Acq On : 27 Feb 2020 07:55 pm
Operator : JK/ AMS/ DTH
Sample : A0B0680-04RE1@100
Misc : 1000x, 8270D PAH Only
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Feb 28 09:59:30 2020
Quant Method : R:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration







TIC: N02272023.D\data.ms

(20) Anthracene (T)

11.089min (-0.006) 7.43 ng/ml

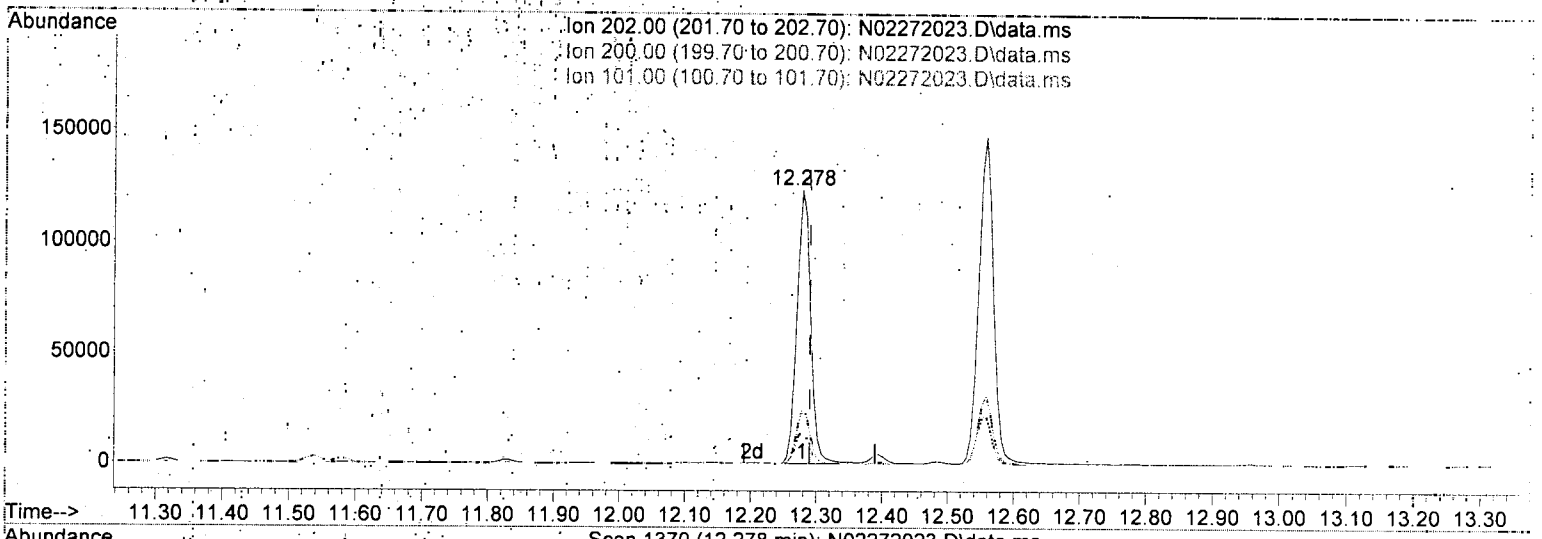
response 16098

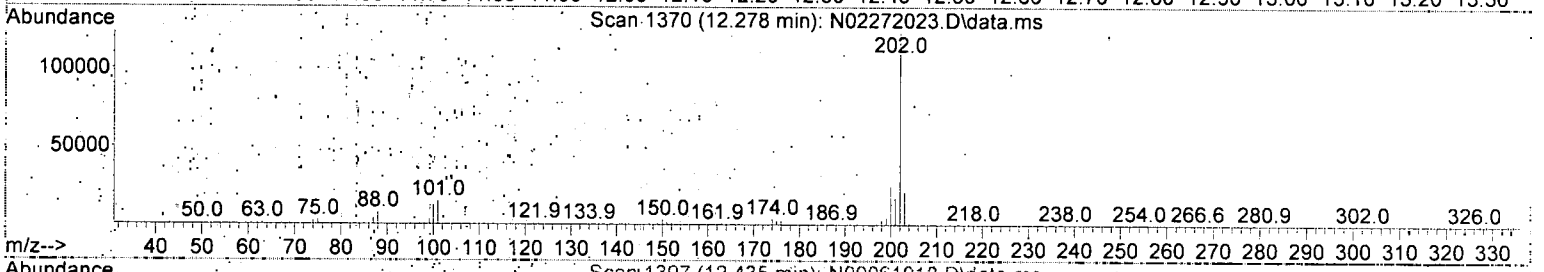
Ion	Exp%	Act%
178.00	100.00	100.00
176.00	18.90	18.60
179.00	15.30	15.60
0.00	0.00	0.00

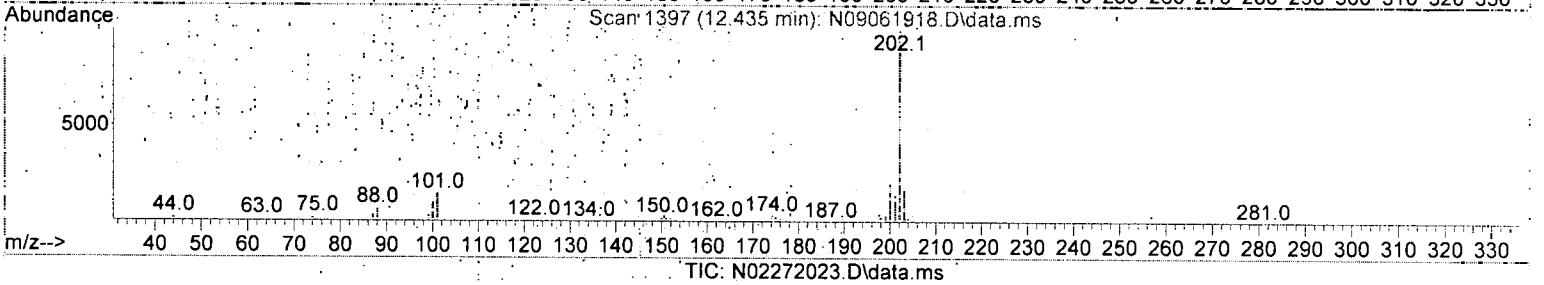
Quantitation Report (Qedit)

Data Path : R:\data\2020-02\0B27023\
Data File : N02272023.D
Acq On : 27 Feb 2020 07:55 pm
Operator : JK/ AMS/ DTH
Sample : A0B0680-04RE1@100
Misc : 1000x, 8270D PAH Only
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Feb 28 09:59:30 2020
Quant Method : R:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration







TIC: N02272023.D\data.ms

(23) Fluoranthene (T)

12.278min (-0.012) 77.03 ng/ml

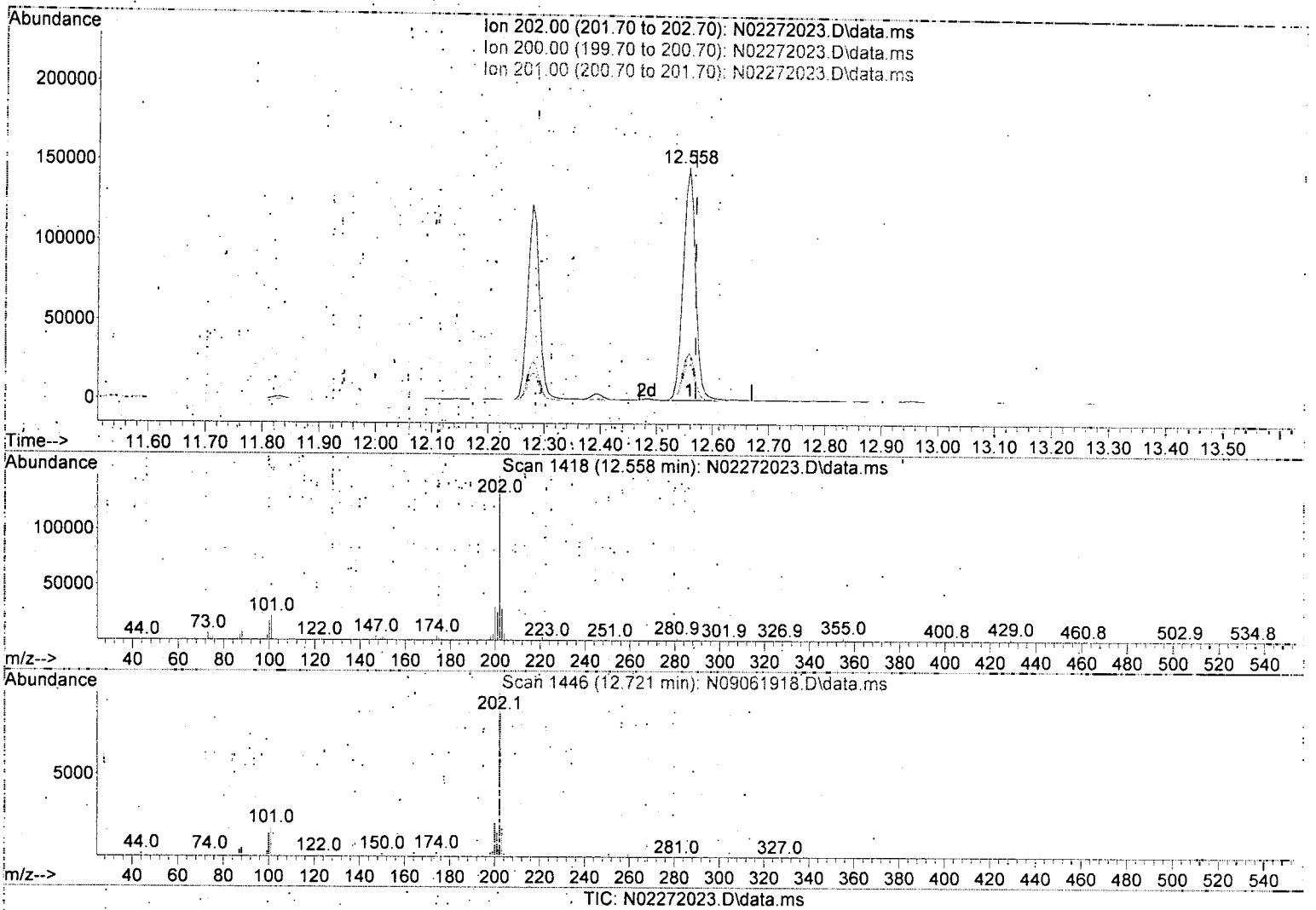
response 180699

Ion	Exp%	Act%
202.00	100.00	100.00
200.00	19.70	19.95
101.00	15.30	12.32
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : R:\data\2020-02\0B27023\
Data File : N02272023.D
Acq On : 27 Feb 2020 07:55 pm
Operator : JK/ AMS/ DTH
Sample : A0B0680-04RE1@100
Misc : 1000x, 8270D PAH Only
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Feb 28 09:59:30 2020
Quant Method : R:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration



TIC: N02272023.D\data.ms

(25) Pyrene (T)

12.558min (-0.012) 90.60 ng/ml

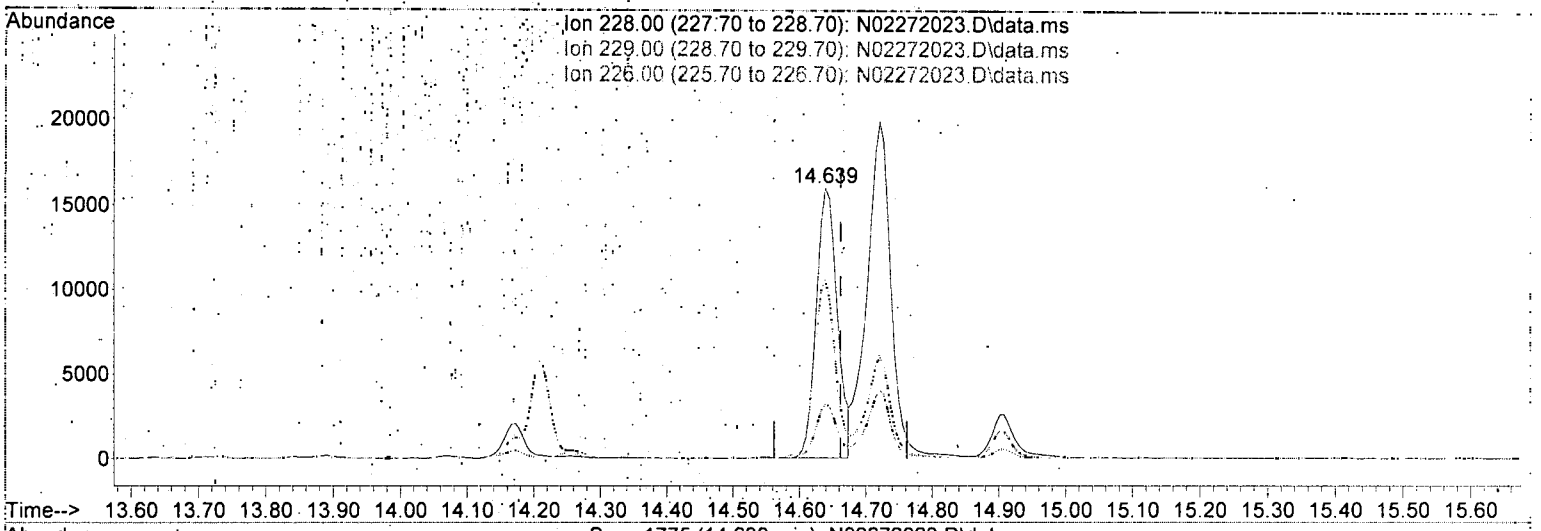
response 228873

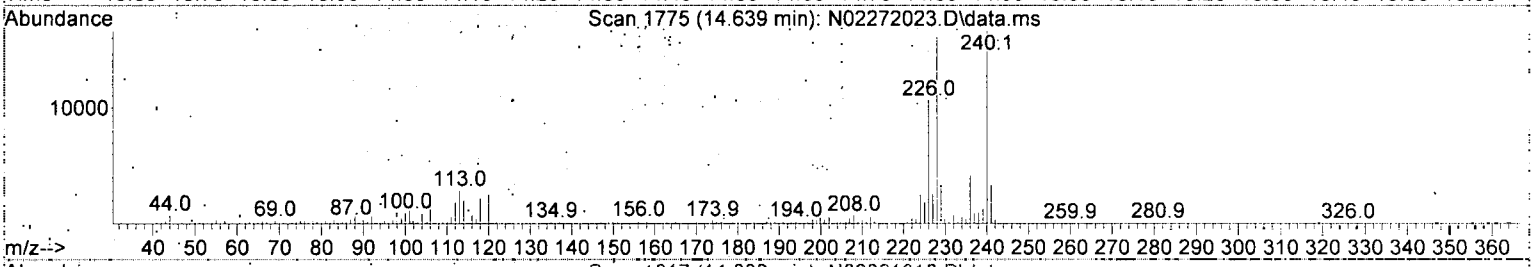
Ion	Exp%	Act%
202.00	100.00	100.00
200.00	20.70	20.67
201.00	16.80	17.18
0.00	0.00	0.00

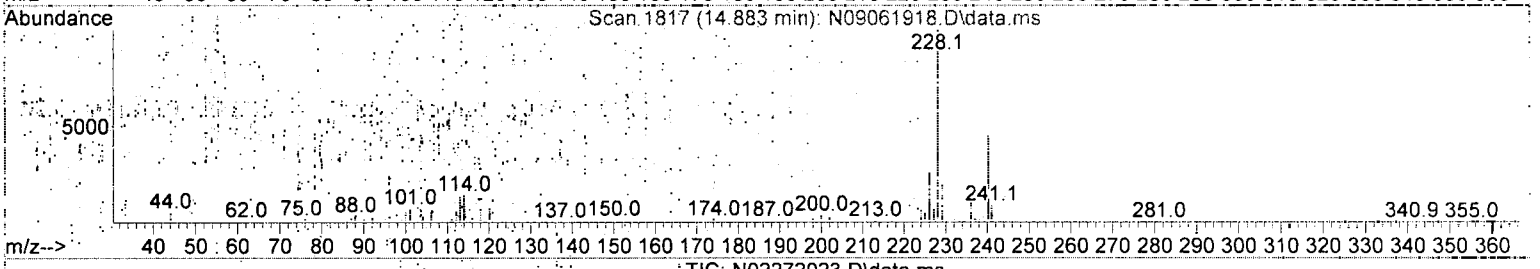
Quantitation Report (Qedit)

Data Path : R:\data\2020-02\0B27023\
Data File : N02272023.D
Acq On : 27 Feb 2020 07:55 pm
Operator : JK/ AMS/ DTH
Sample : A0B0680-04RE1@100
Misc : 1000x, 8270D PAH Only
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Feb 28 09:59:30 2020
Quant Method : R:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration







TIC: N02272023.D\data.ms

(27) Benz(a)anthracene (T)

14.639min (-0.023) 18.71 ng/ml

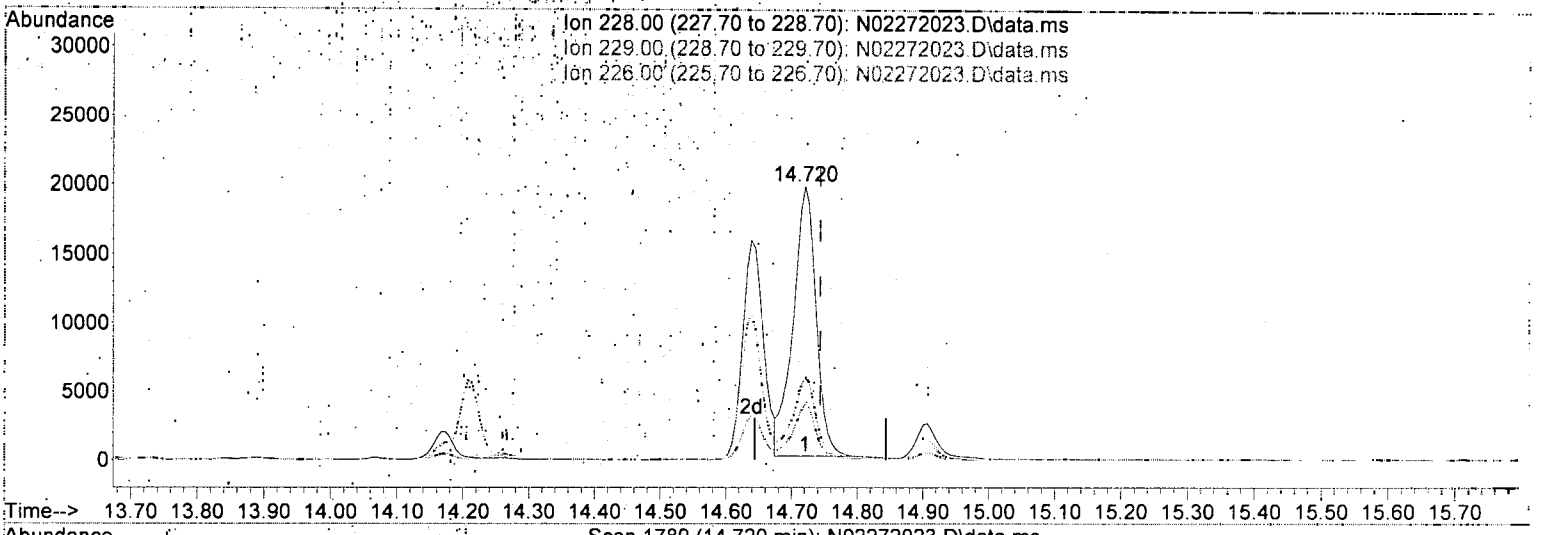
response 35116

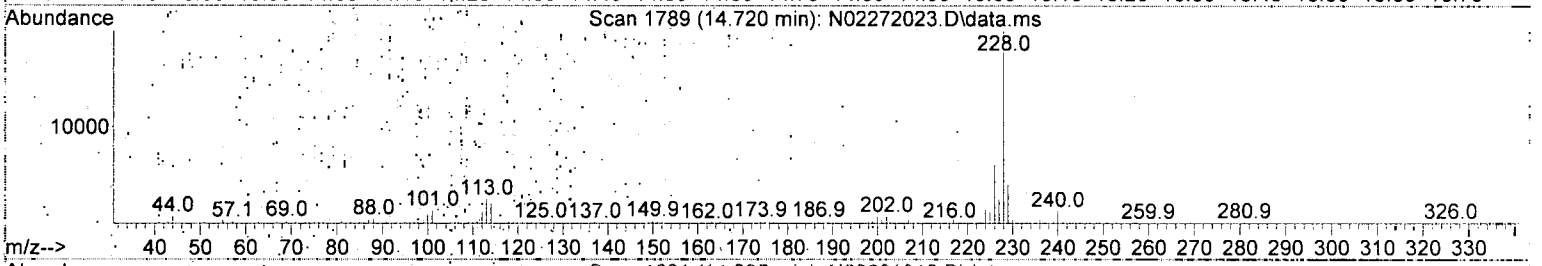
Ion	Exp%	Act%
228.00	100.00	100.00
229.00	19.40	20.30
226.00	26.20	66.03#
0.00	0.00	0.00

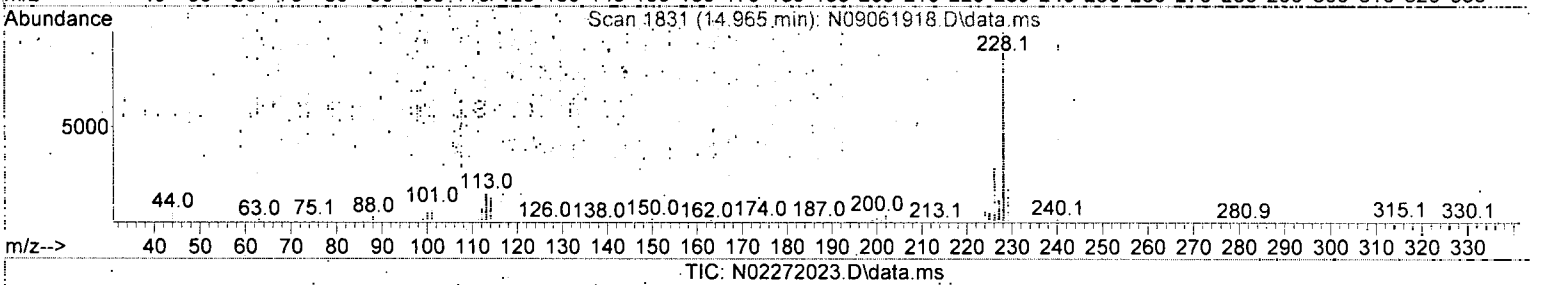
Quantitation Report (Qedit)

Data Path : R:\data\2020-02\0B27023\
Data File : N02272023.D
Acq On : 27 Feb 2020 07:55 pm
Operator : JK/ AMS/ DTH
Sample : A0B0680-04RE1@100
Misc : 1000x; 8270D PAH Only
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Feb 28 09:59:30 2020
Quant Method : R:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration







TIC: N02272023.D\data.ms

(28) Chrysene (T)

14.720min (-0.023) 26.96 ng/ml

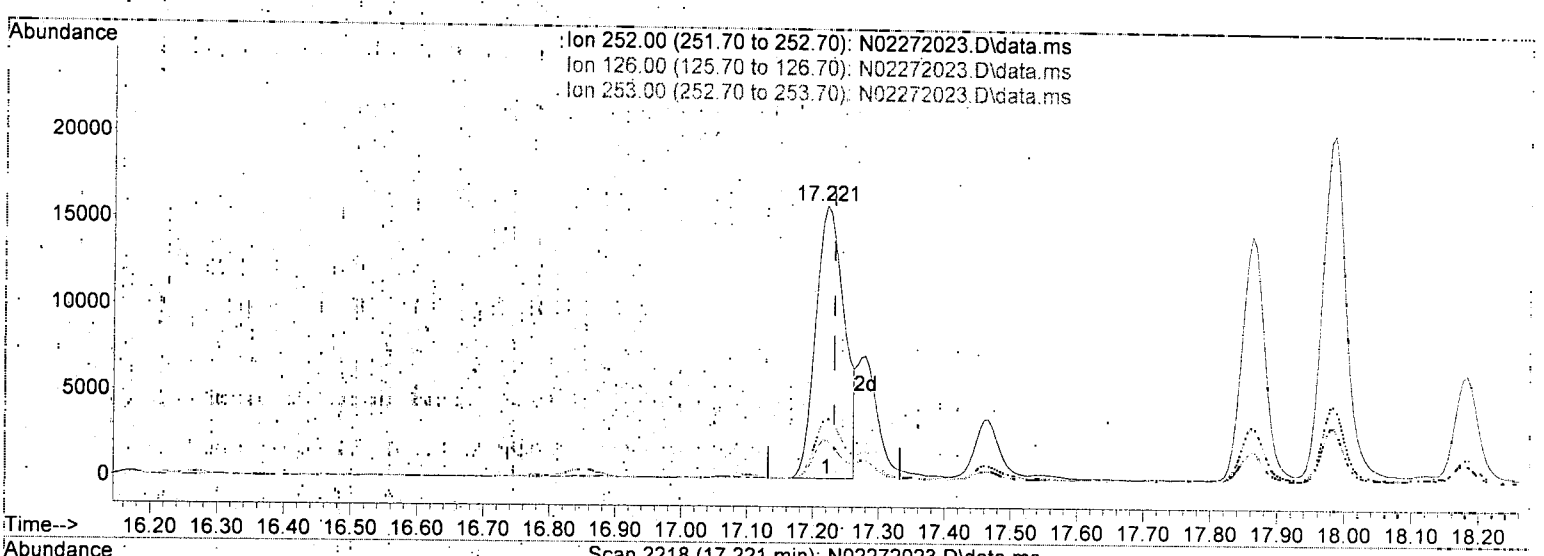
response 47897

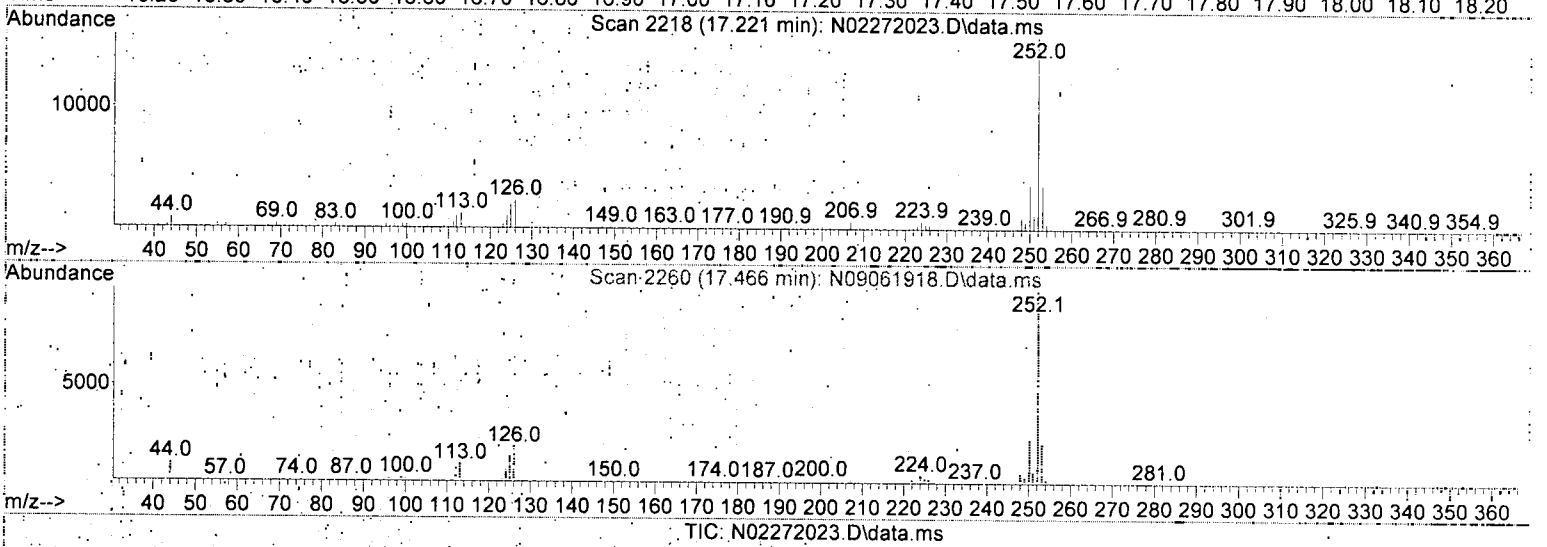
Ion	Exp%	Act%
228.00	100.00	100.00
229.00	19.60	20.38
226.00	28.60	30.53
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : R:\data\2020-02\0B27023\
Data File : N02272023.D
Acq On : 27 Feb 2020 07:55 pm
Operator : JK/ AMS/ DTH
Sample : A0B0680-04RE1@100
Misc : 1000x, 8270D PAH Only
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Feb 28 09:59:30 2020
Quant Method : R:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration





TIC: N02272023.D\data.ms

(30) Benzo(b)fluoranthene (T)

17.221min (-0.012) 25.54 ng/ml

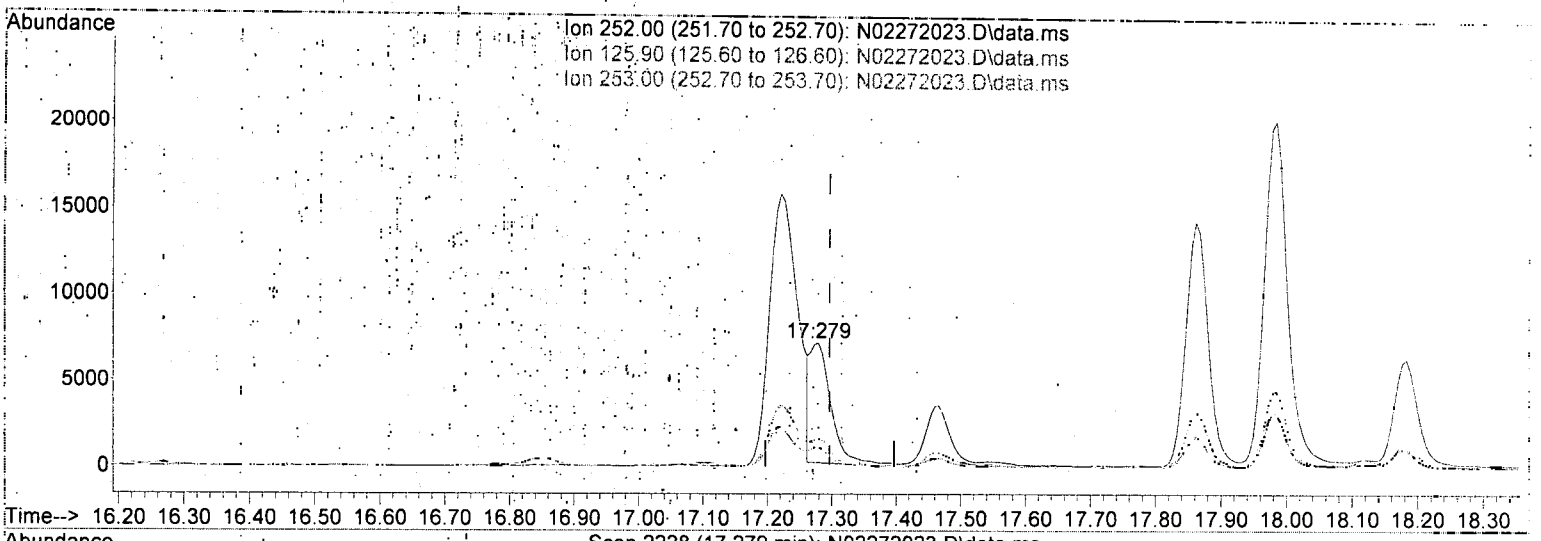
response 48374

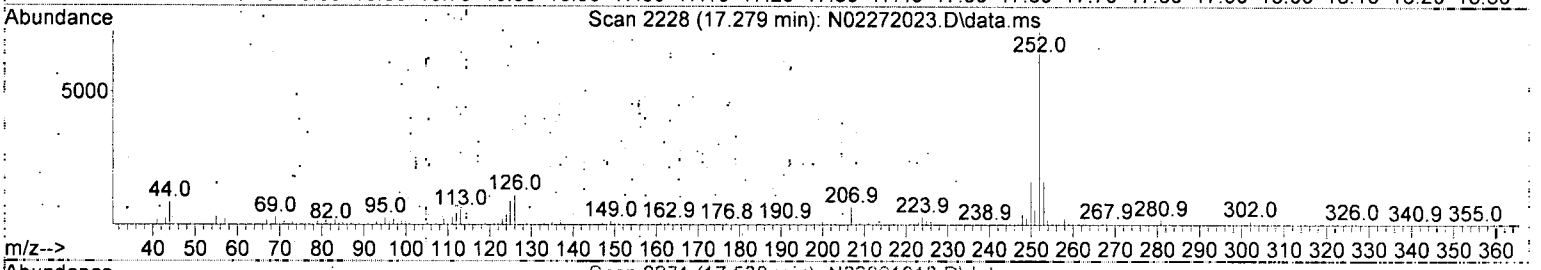
Ion	Exp%	Act%
252.00	100.00	100.00
126.00	20.00	14.41
253.00	21.10	22.52
0.00	0.00	0.00

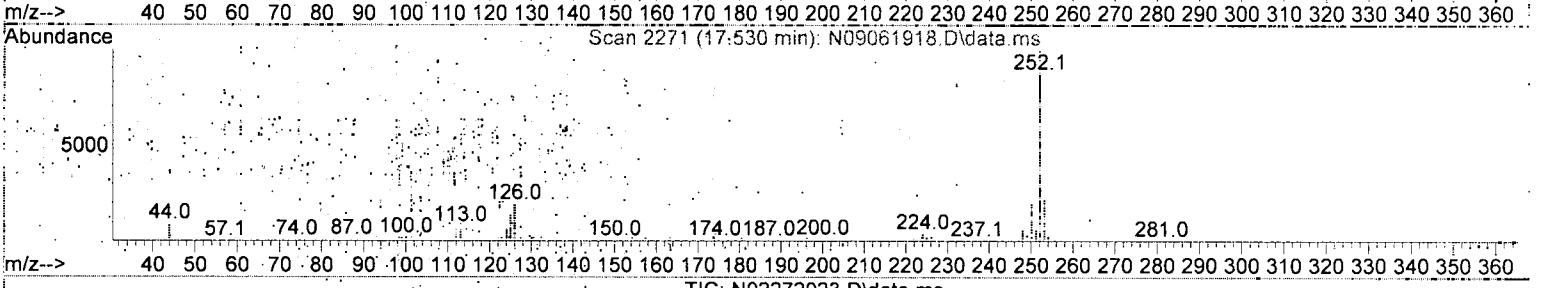
Quantitation Report (Qedit)

Data Path : R:\data\2020-02\0B27023\
Data File : N02272023.D
Acq On : 27 Feb 2020 07:55 pm
Operator : JK/ AMS/ DTH
Sample : A0B0680-04RE1@100
Misc : 1000x, 8270D PAH Only
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Feb 28 09:59:30 2020
Quant Method : R:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration







TIC: N02272023.D\data.ms

(31) Benzo(k)fluoranthene (T)

17.279min (-0.018) 8.16 ng/ml m

response 15217

Ion	Exp%	Act%
252.00	100.00	100.00
125.90	22.10	15.90
253.00	21.50	22.71
0.00	0.00	0.00

Jane 2/28/20

MQS

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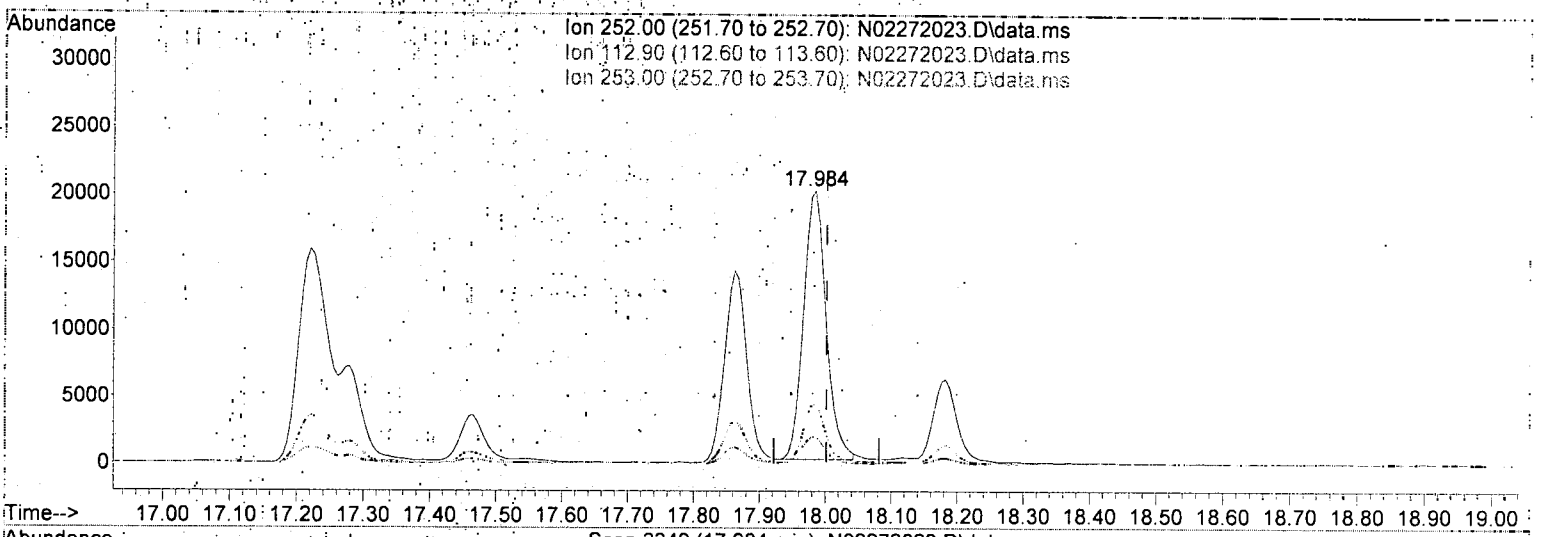
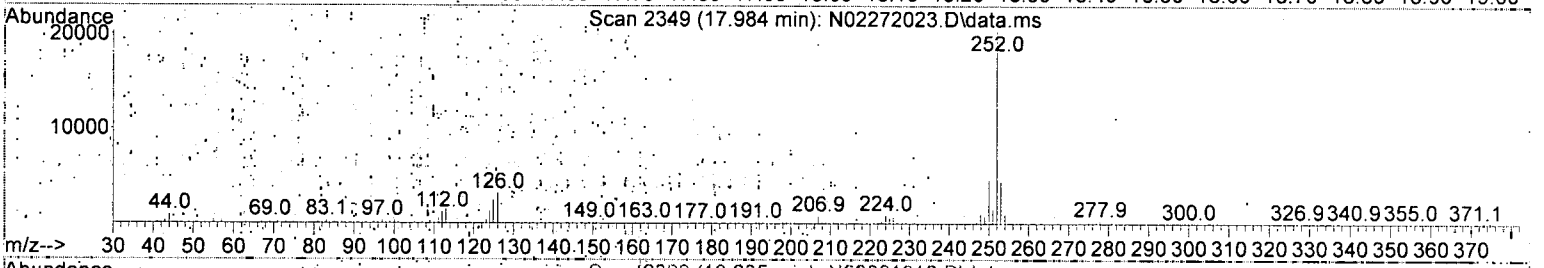
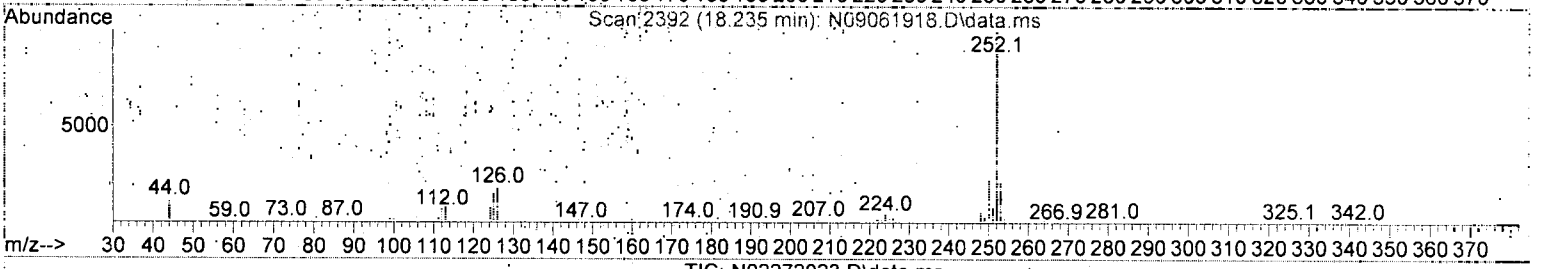
Quantitation Report (Qedit)

Data Path : R:\data\2020-02\0B27023\
Data File : N02272023.D
Acq On : 27 Feb 2020 07:55 pm
Operator : JK/ AMS/ DTH
Sample : A0B0680-04RE1@100
Misc : 1000x, 8270D PAH Only
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Feb 28 09:59:30 2020
Quant Method : R:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration







TIC: N02272023.D\data.ms

(35) Benzo(a)pyrene (T)

17.984min (-0.018) 29.63 ng/ml

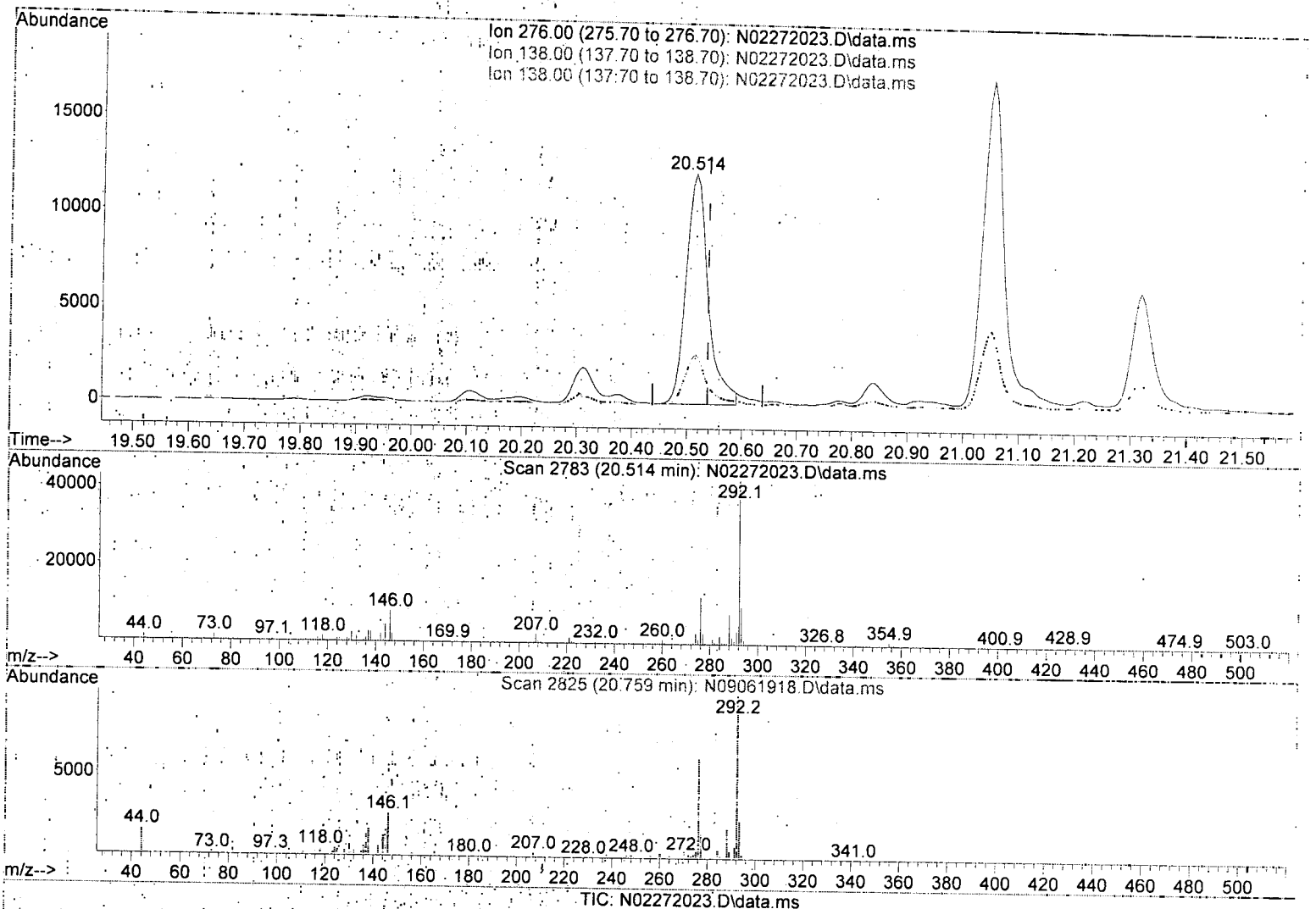
response 48028

Ion	Exp%	Act%
252.00	100.00	100.00
112.90	12.70	10.21
253.00	21.90	21.94
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : R:\data\2020-02\0B27023\
Data File : N02272023.D
Acq On : 27 Feb 2020 07:55 pm
Operator : JK/ AMS/ DTH
Sample : A0B0680-04RE1@100
Misc : 1000x, 8270D PAH Only
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Feb 28 09:59:30 2020
Quant Method : R:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration



TIC: N02272023.D\data.ms

(38) Indeno(1,2,3-cd)Pyrene (T)

20.514min (-0.023) 22.88 ng/ml

response 34180

Ion	Exp%	Act%
276.00	100.00	100.00
138.00	31.60	22.12
138.00	31.60	22.12
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : R:\data\2020-02\0B27023\
Data File : N02272023.D
Acq On : 27 Feb 2020 07:55 pm
Operator : JK/ AMS/ DTH
Sample : A0B0680-04RE1@100
Misc : 1000x, 8270D PAH Only
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Feb 28 09:59:30 2020
Quant Method : R:\methods\SV14_090619_PAHR7.M
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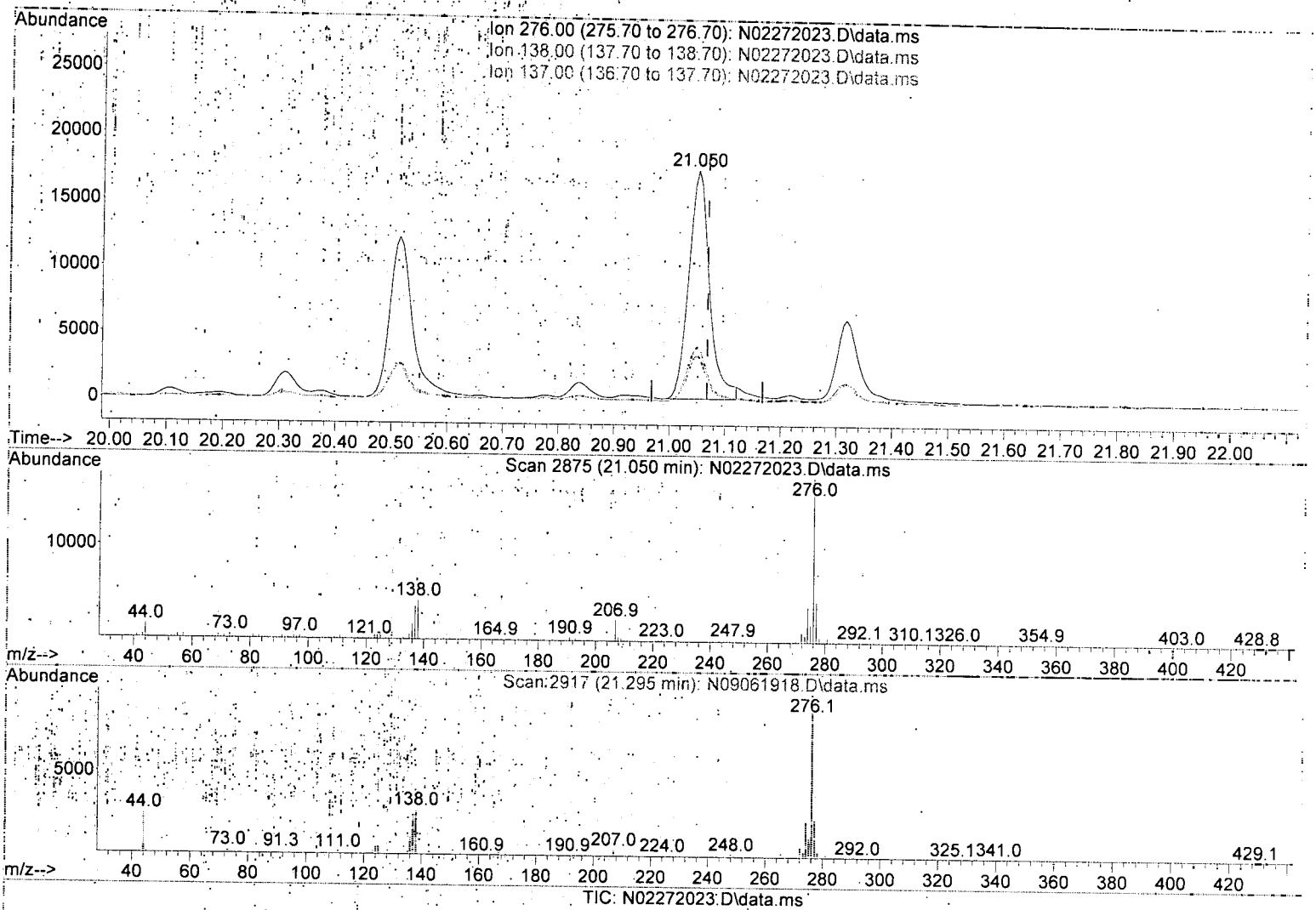
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration



TIC: N02272023.D\data.ms

(40) Benzo(g,h,i)perylene (T)

21.050min (-0.018) 28.50 ng/ml

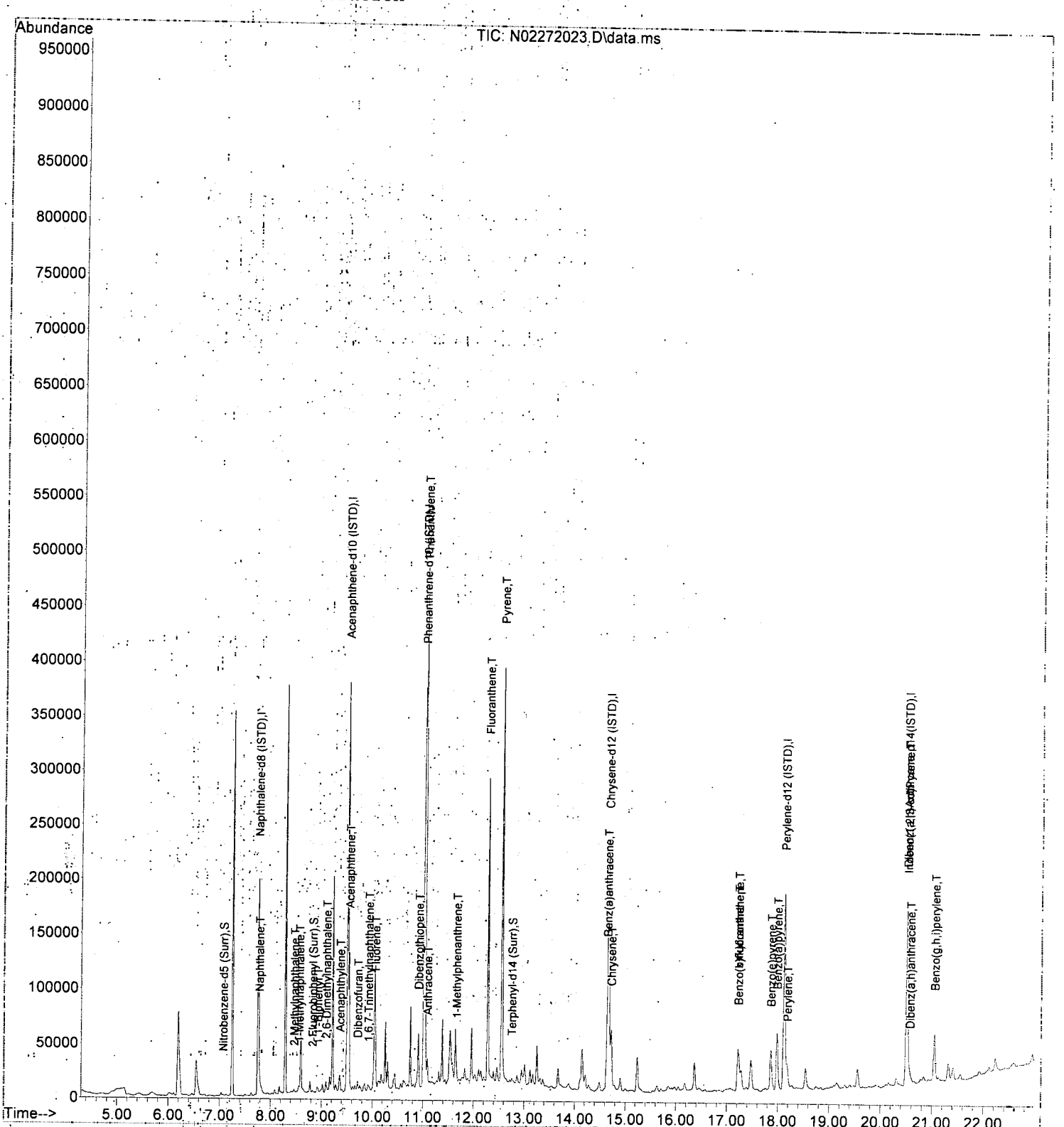
response 45176

Ion	Exp%	Act%
276.00	100.00	100.00
138.00	21.00	23.89
137.00	18.60	20.12
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-02\0B27023\
Data File : N02272023.D
Acq On : 27 Feb 2020 07:55 pm
Operator : JK/ AMS/ DTH
Sample : A0B0680-04RE1@100
Misc : 1000x, 8270D PAH Only
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Feb 28 09:59:30 2020
Quant Method : R:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration



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

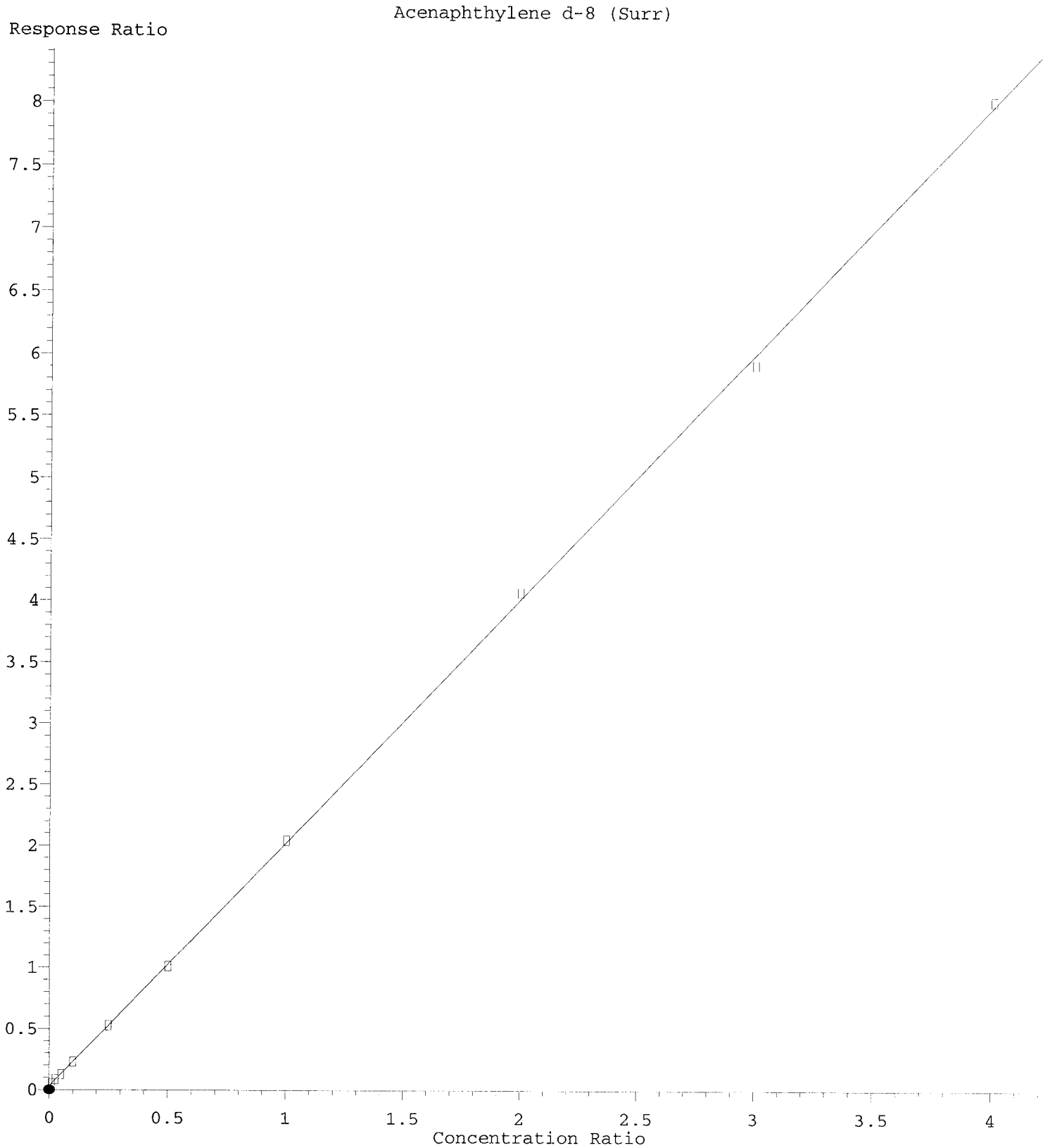
9/9/19

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

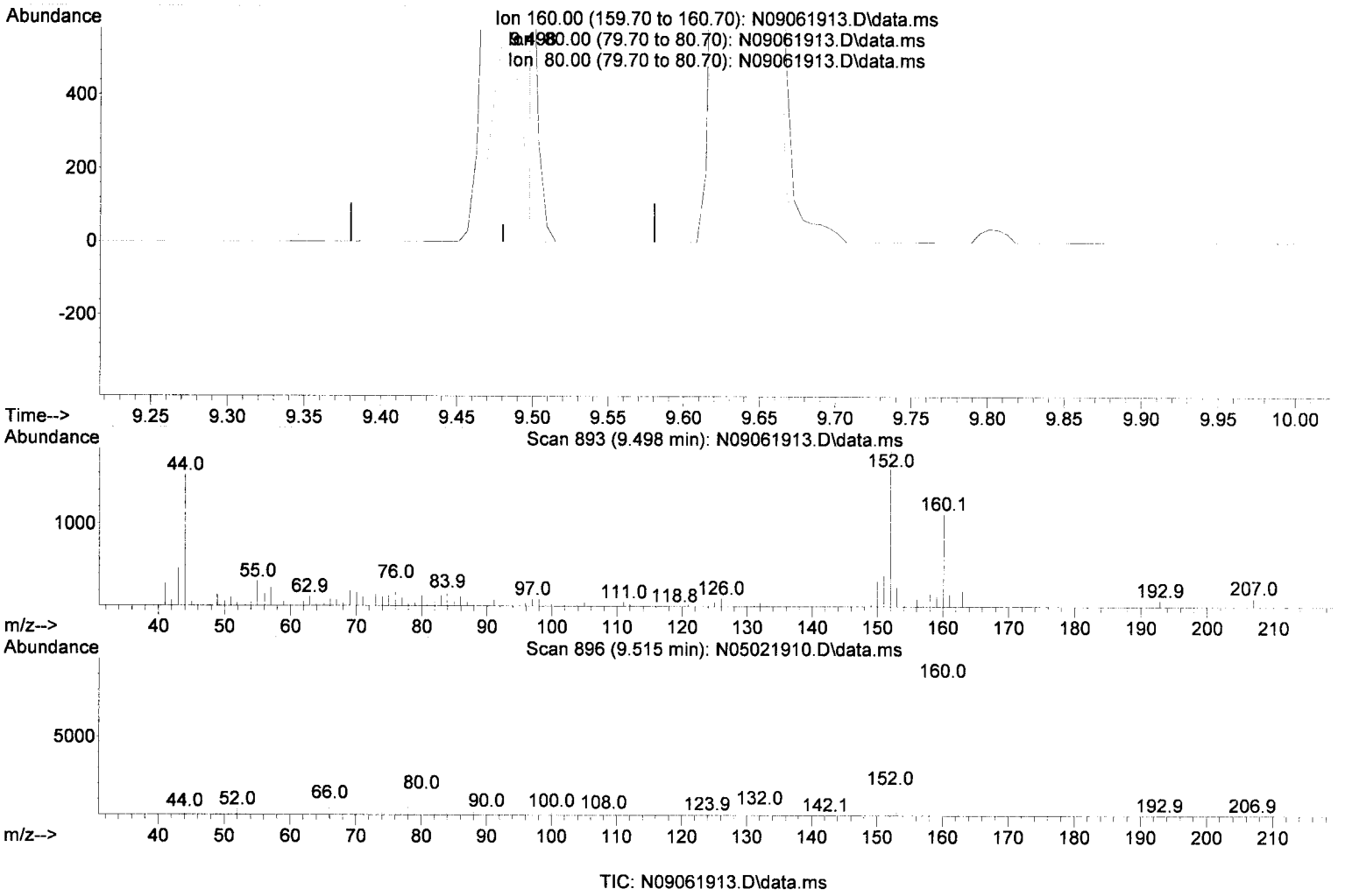


R = -2.27e-003 A*A + 2.00e+000 A + 2.92e-002
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a^2)
Method Name: N:\methods\SV14_090619_PAH.M_
Calibration Table Last Updated: Mon Sep 09 15:00:15 2019

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

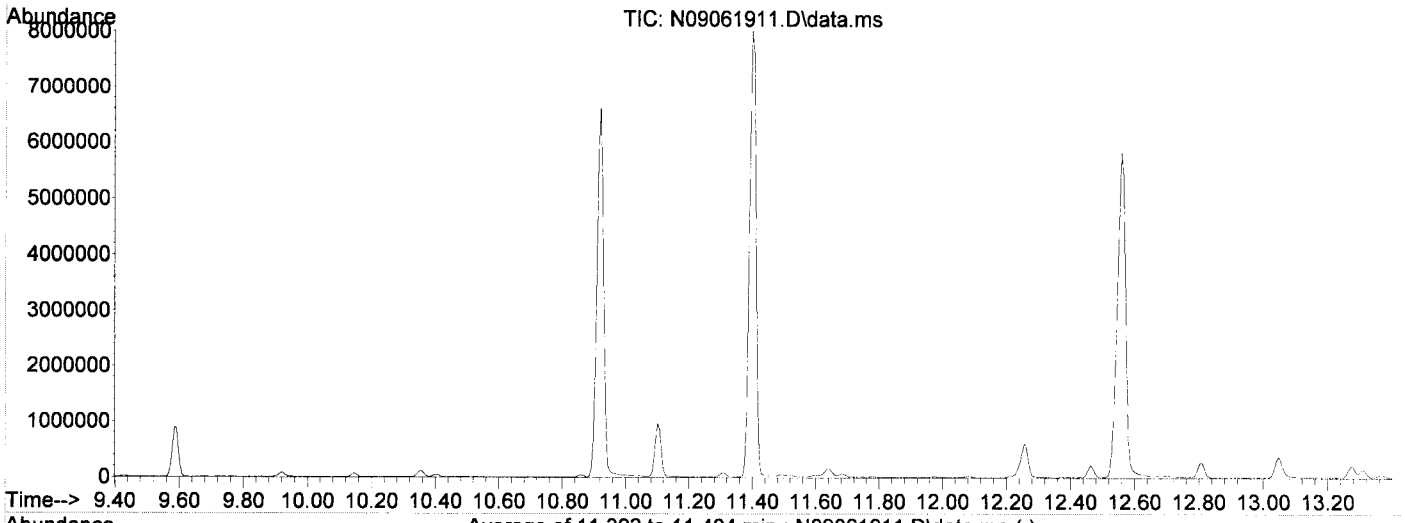
(#) = qualifier out of range (m) = manual integration (+) = signals summed

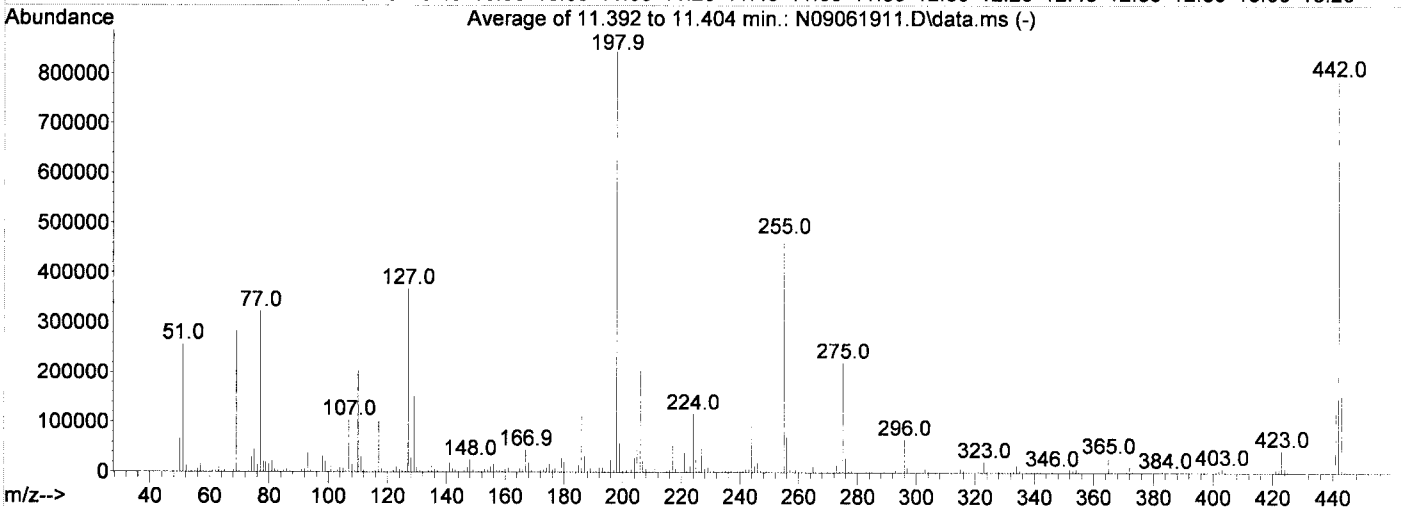
Data Path : N:\data\2019-09\9I06028\
Data File : N09061911.D
Acq On : 06 Sep 2019 03:51 pm
Operator :
Sample : 9I06028-TUN1
Misc : 1x, A19H414 DFTPP@45
ALS Vial : 1 Sample Multiplier: 1

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





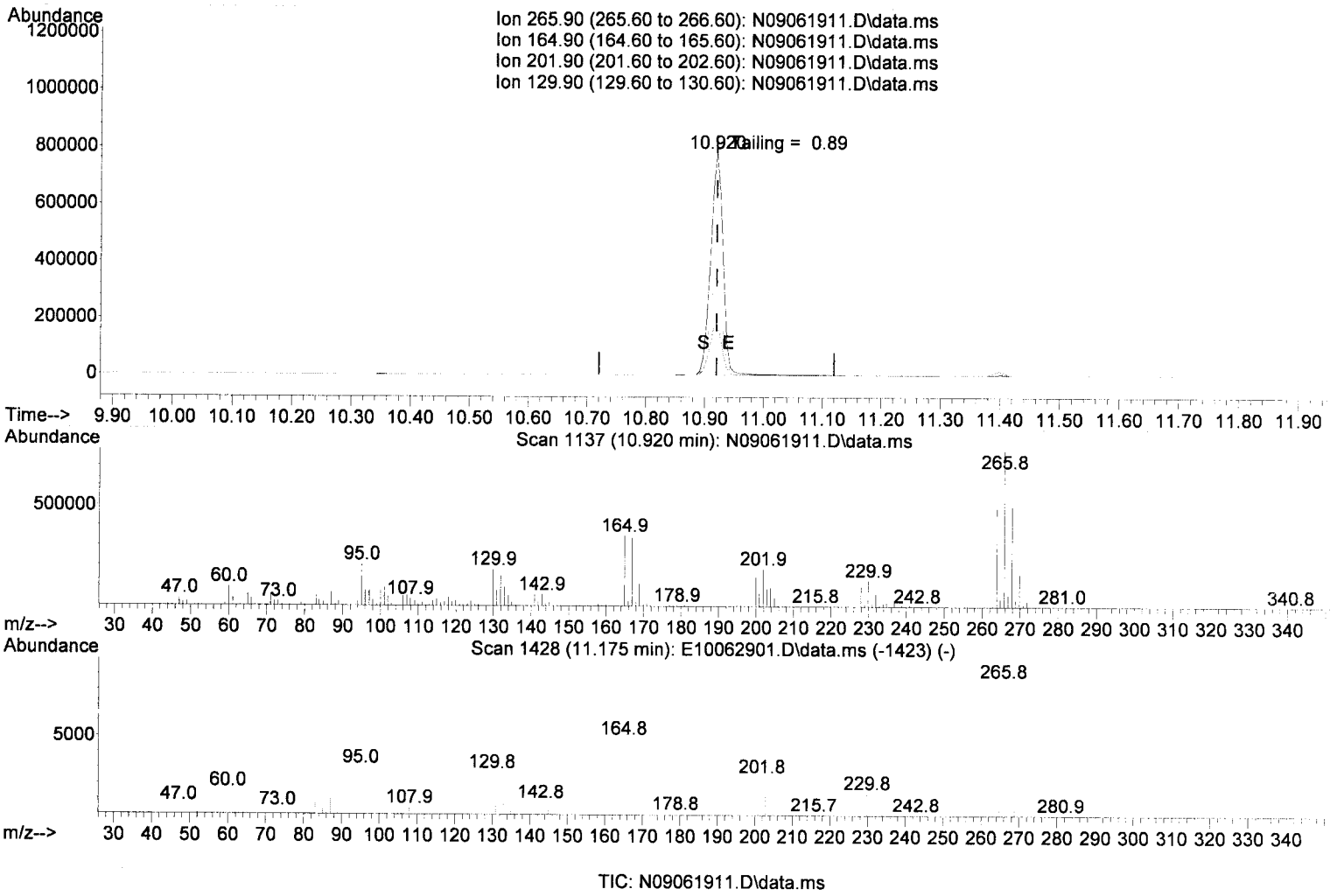
AutoFind: Scans 1218, 1219, 1220; Background Corrected with Scan 1212

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

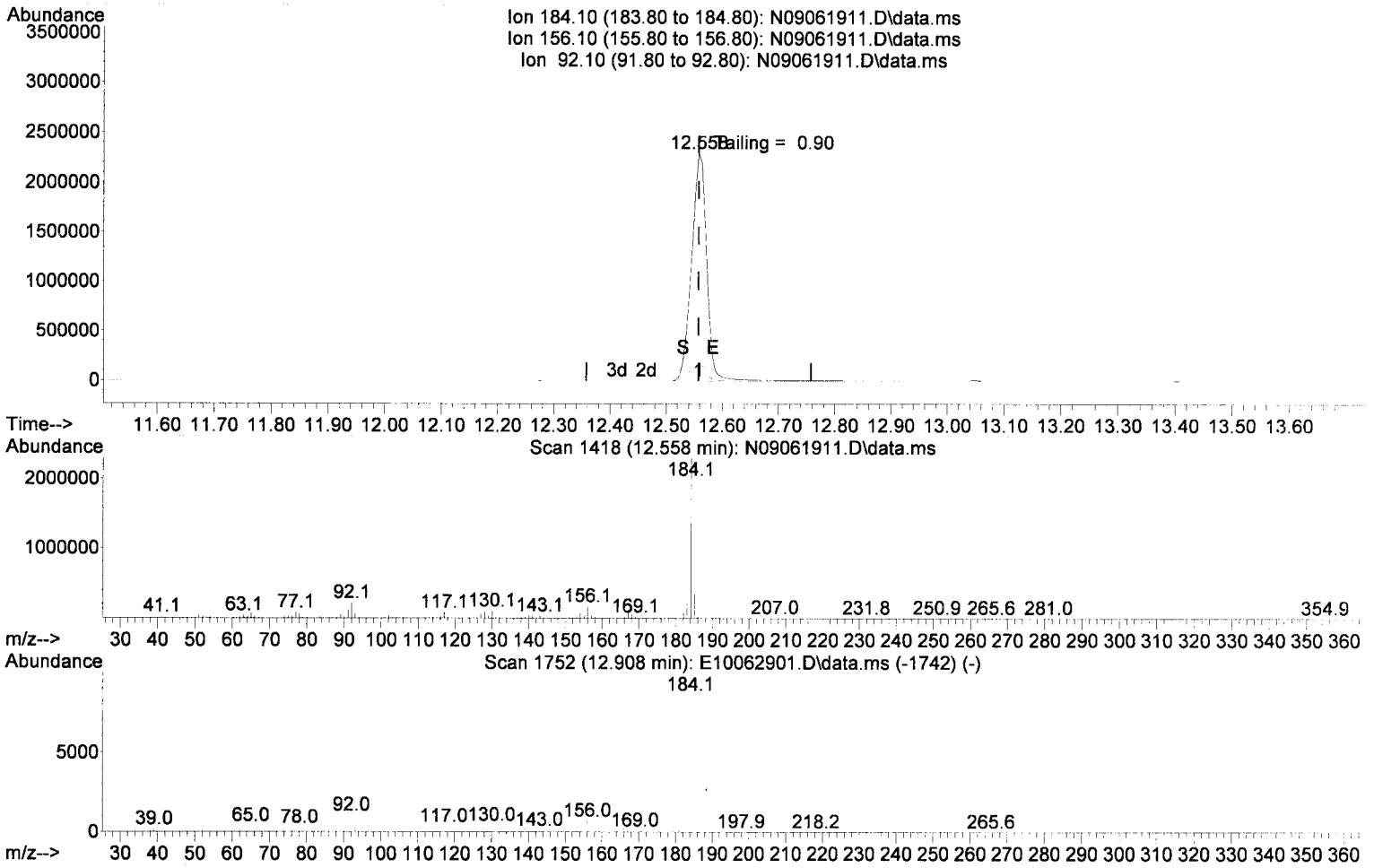
Ion	Exp%	Act%
265.90	100.00	100.00
164.90	50.60	44.95
201.90	25.80	23.85
129.90	27.30	23.19

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

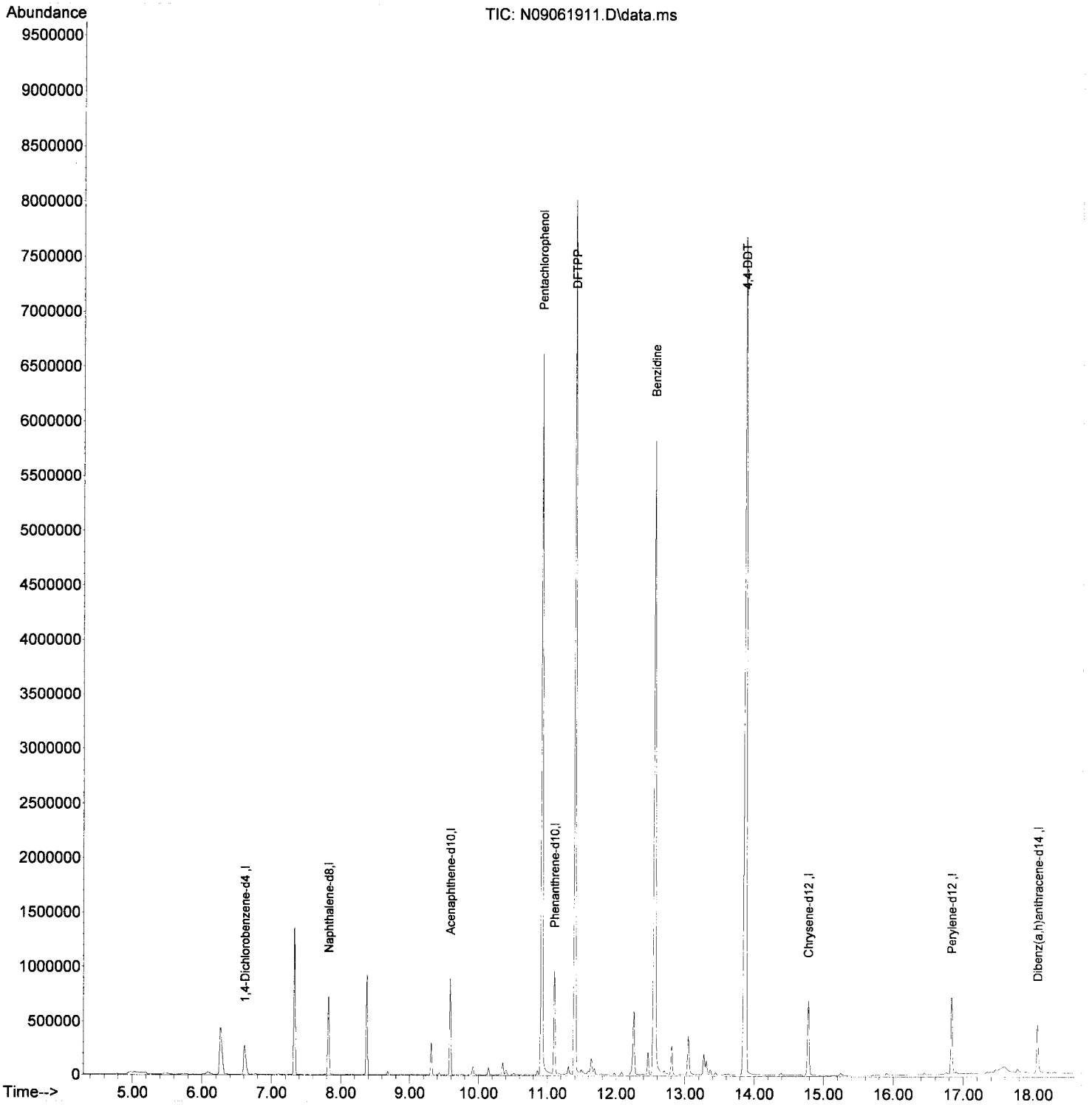
First Column Area Counts		Percent Breakdown	
DDE	375170		
DDD	188617		
DDT	15944082	**3.42**	**PASS**

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

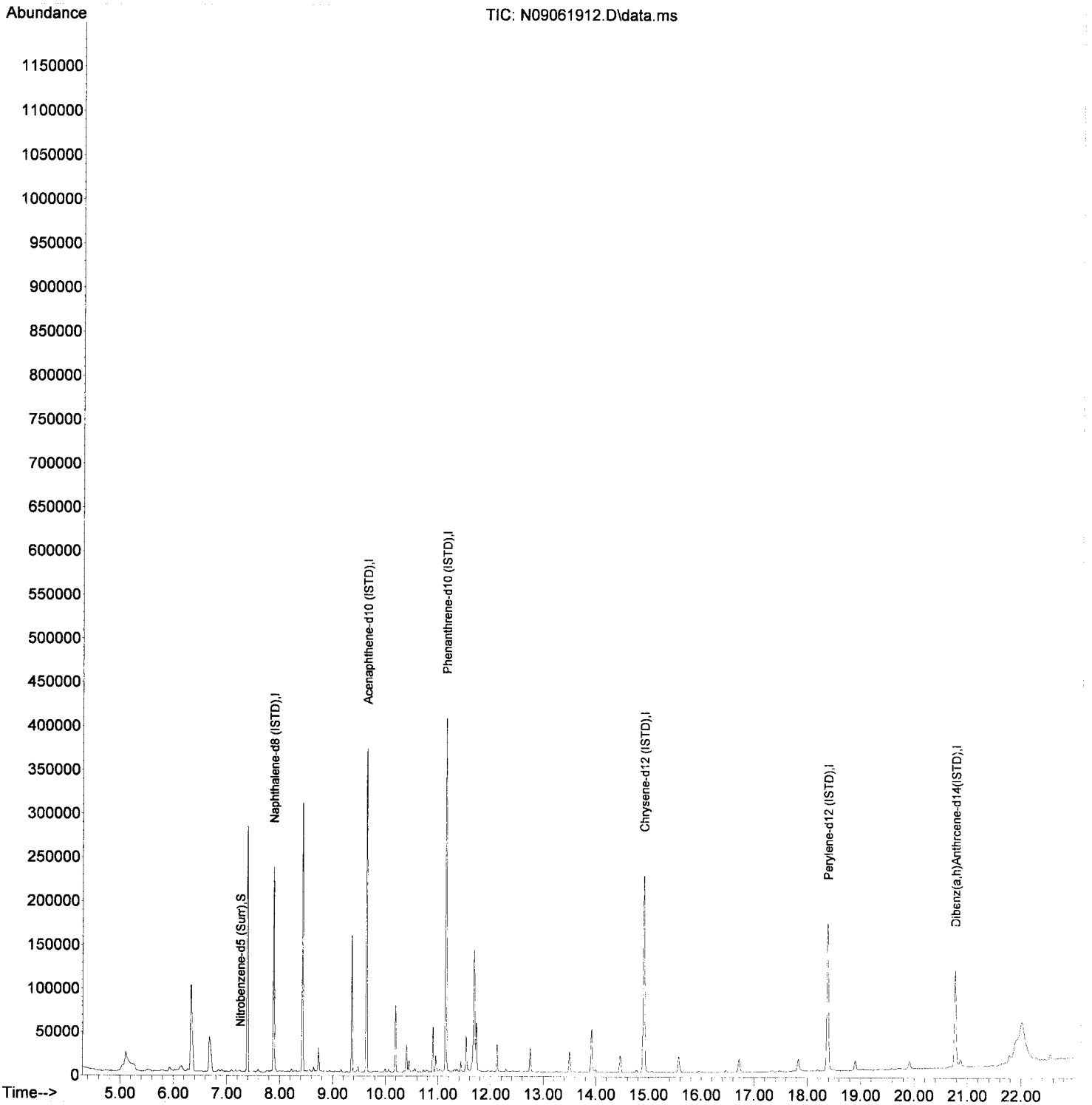
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.883	136	153621	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.643	162	109411	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.147	188	203705	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.907	240	156122	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

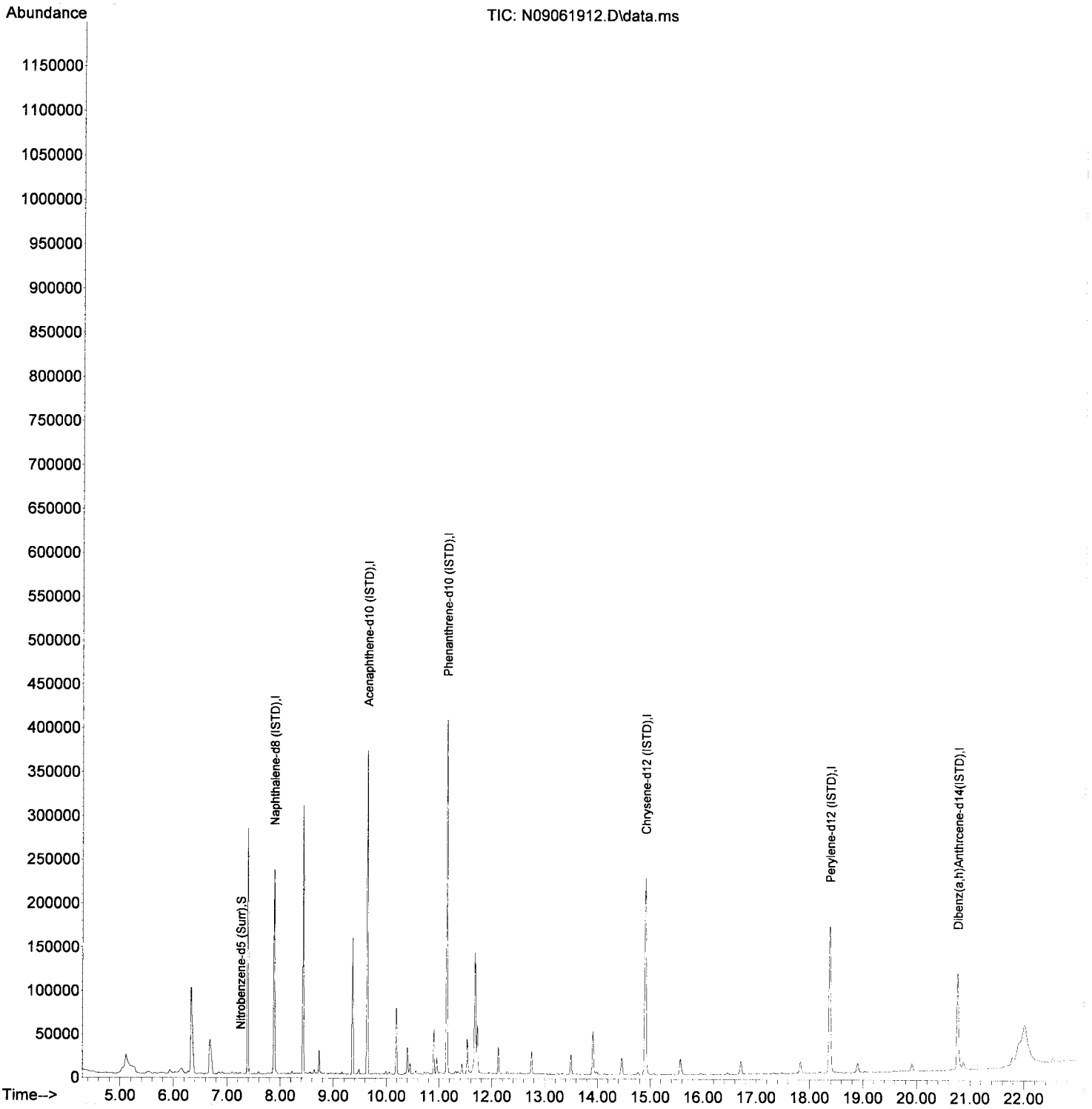
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.883	136	153621	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.643	162	109411	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.147	188	203705	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.907	240	156122	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

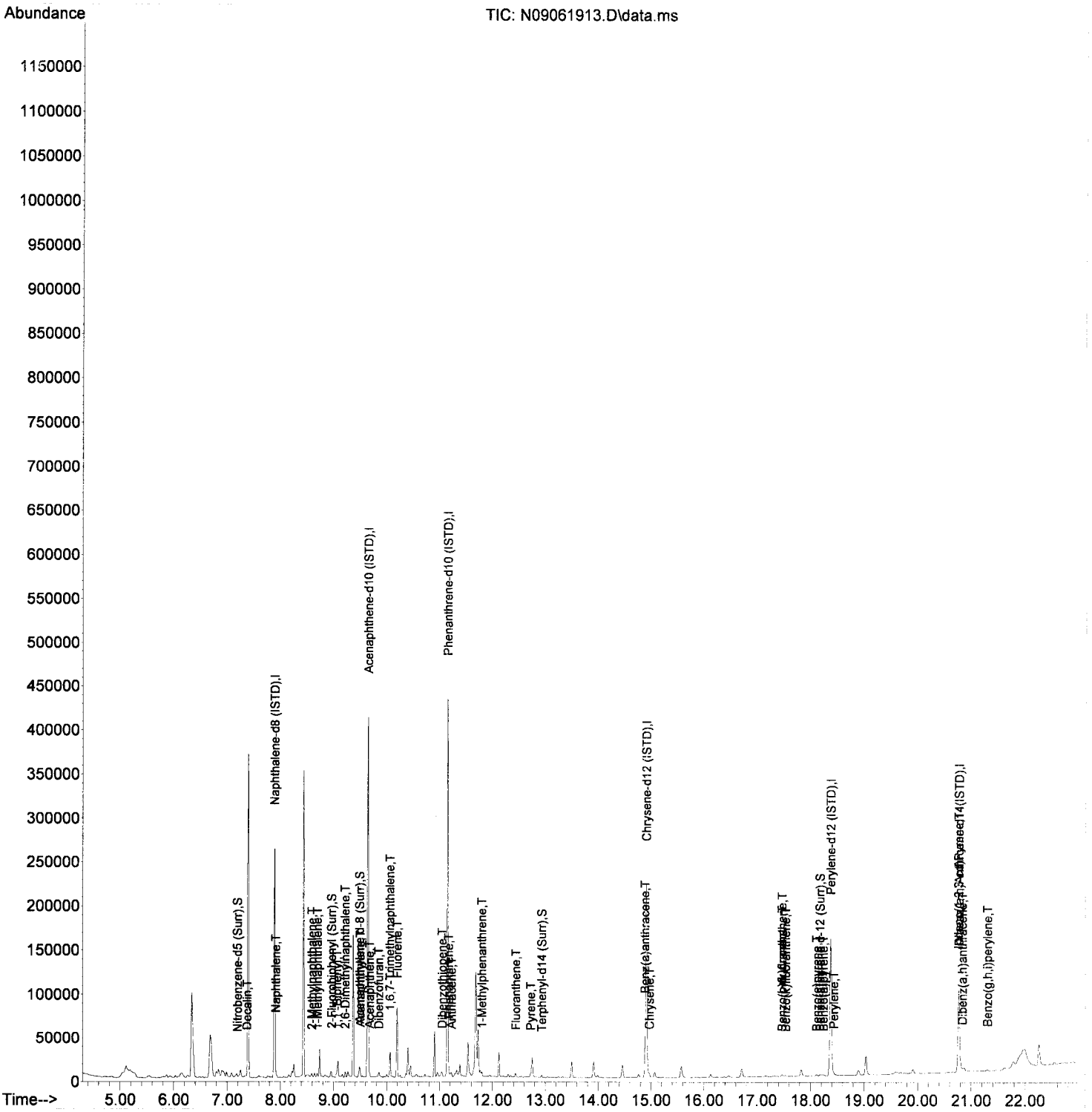
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.883	136	173610	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.643	162	119749	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.147	188	214815	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.907	240	149008	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

GK 9/9/19

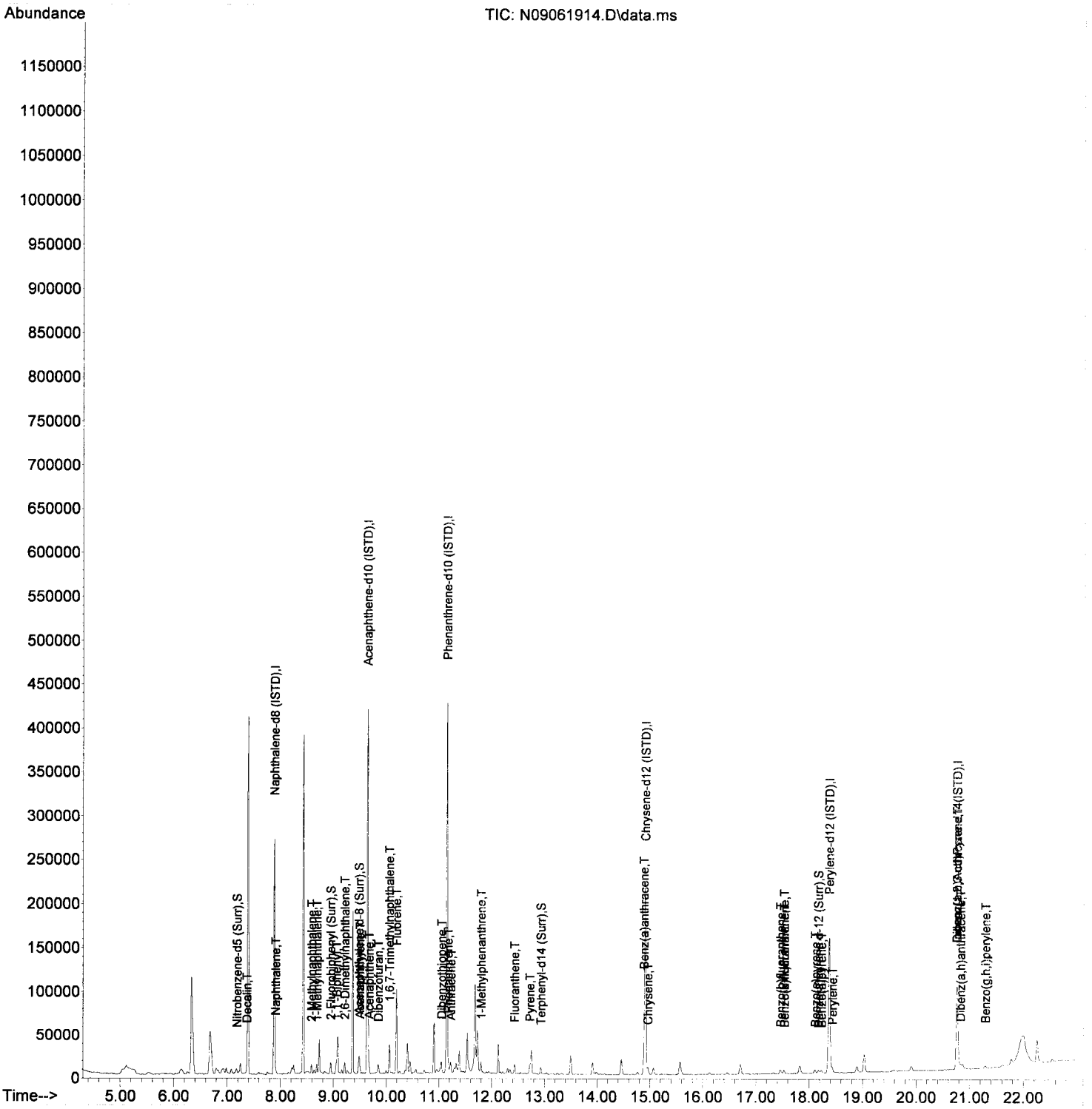
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.883	136	170471	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.638	162	119278	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.147	188	215482	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.907	240	151986	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

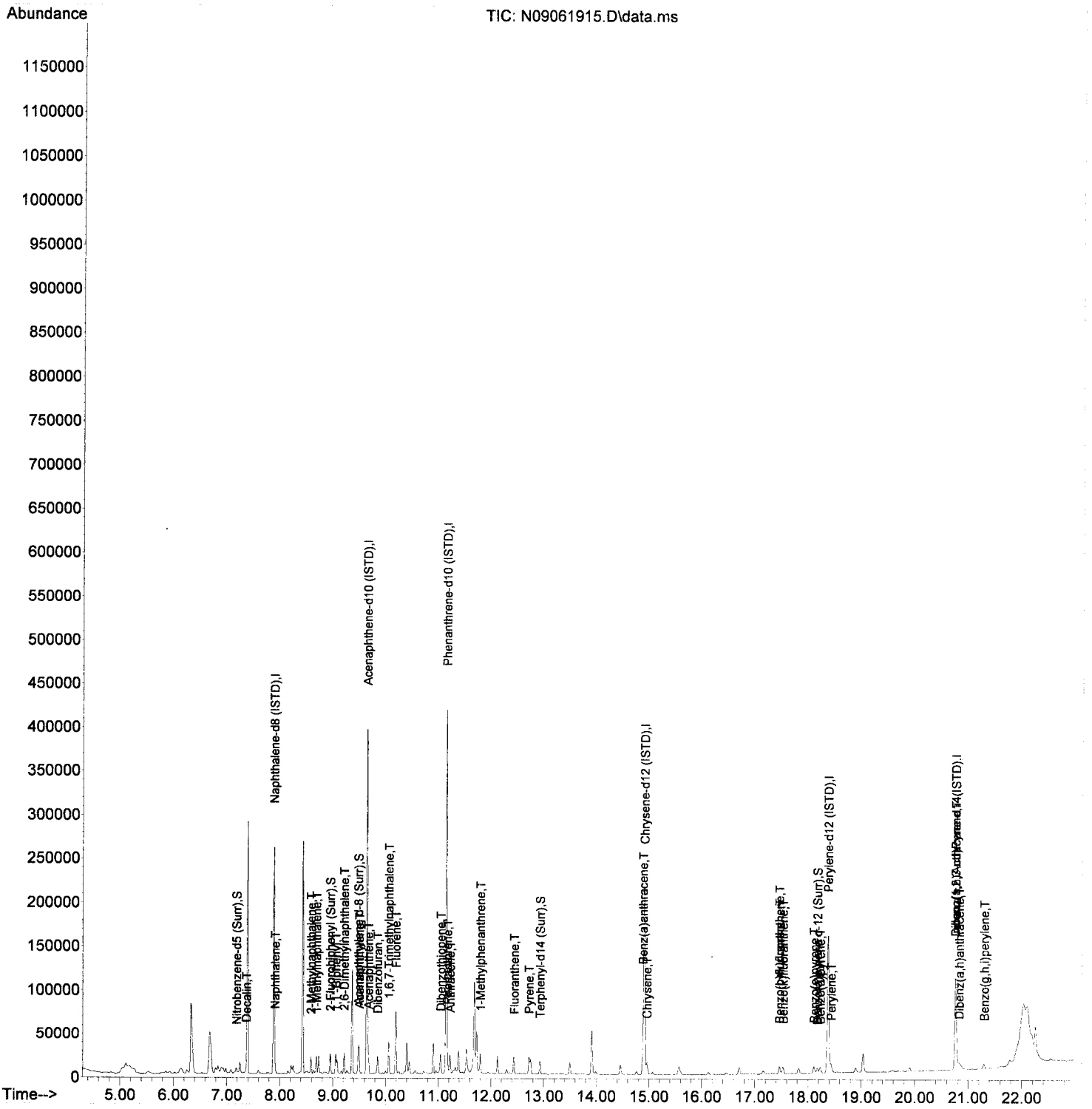
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.883	136	165670	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.638	162	115422	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.147	188	210311	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.907	240	150233	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

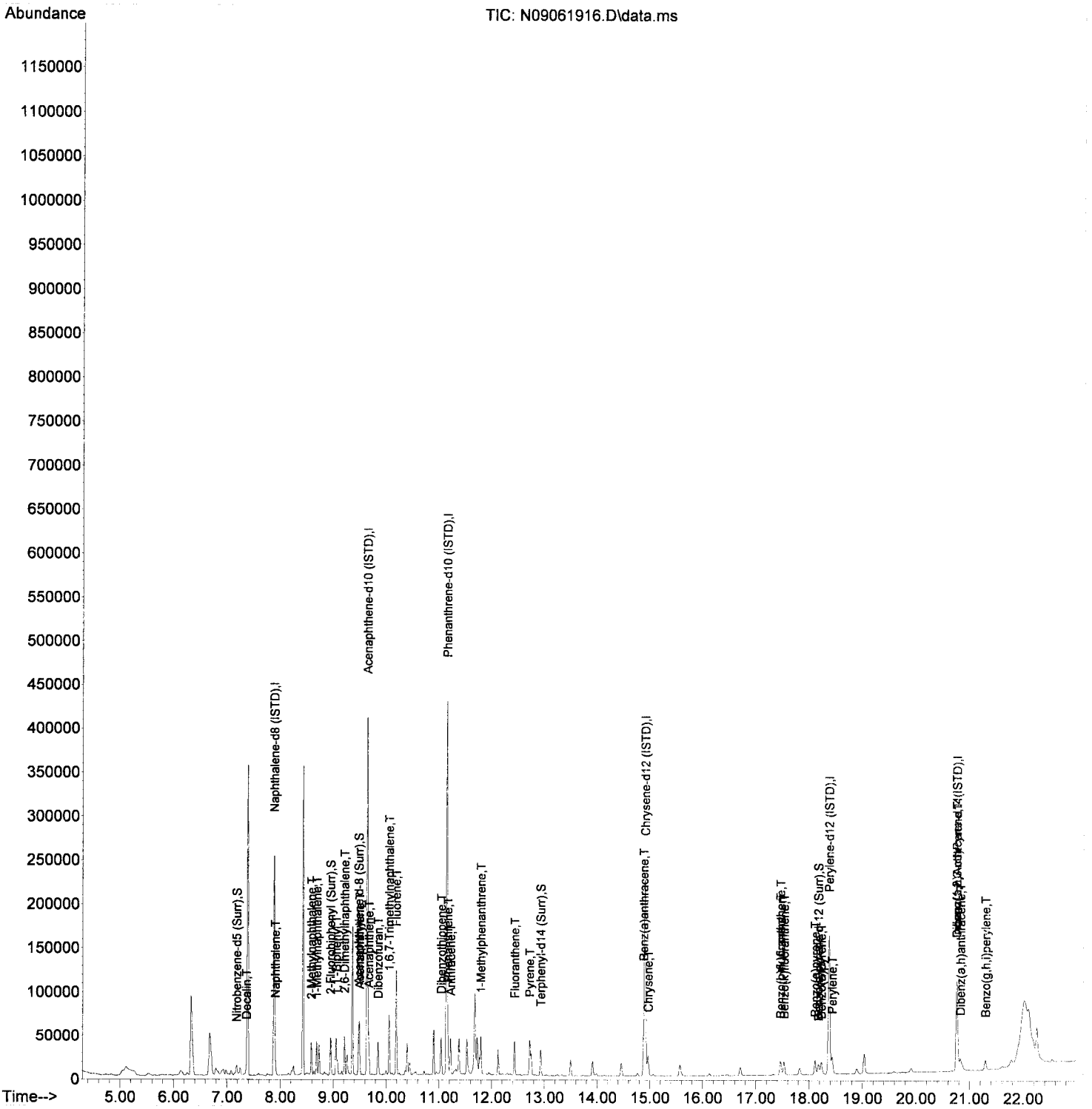
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.883	136	160906	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.638	162	118305	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.147	188	216396	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.907	240	153303	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

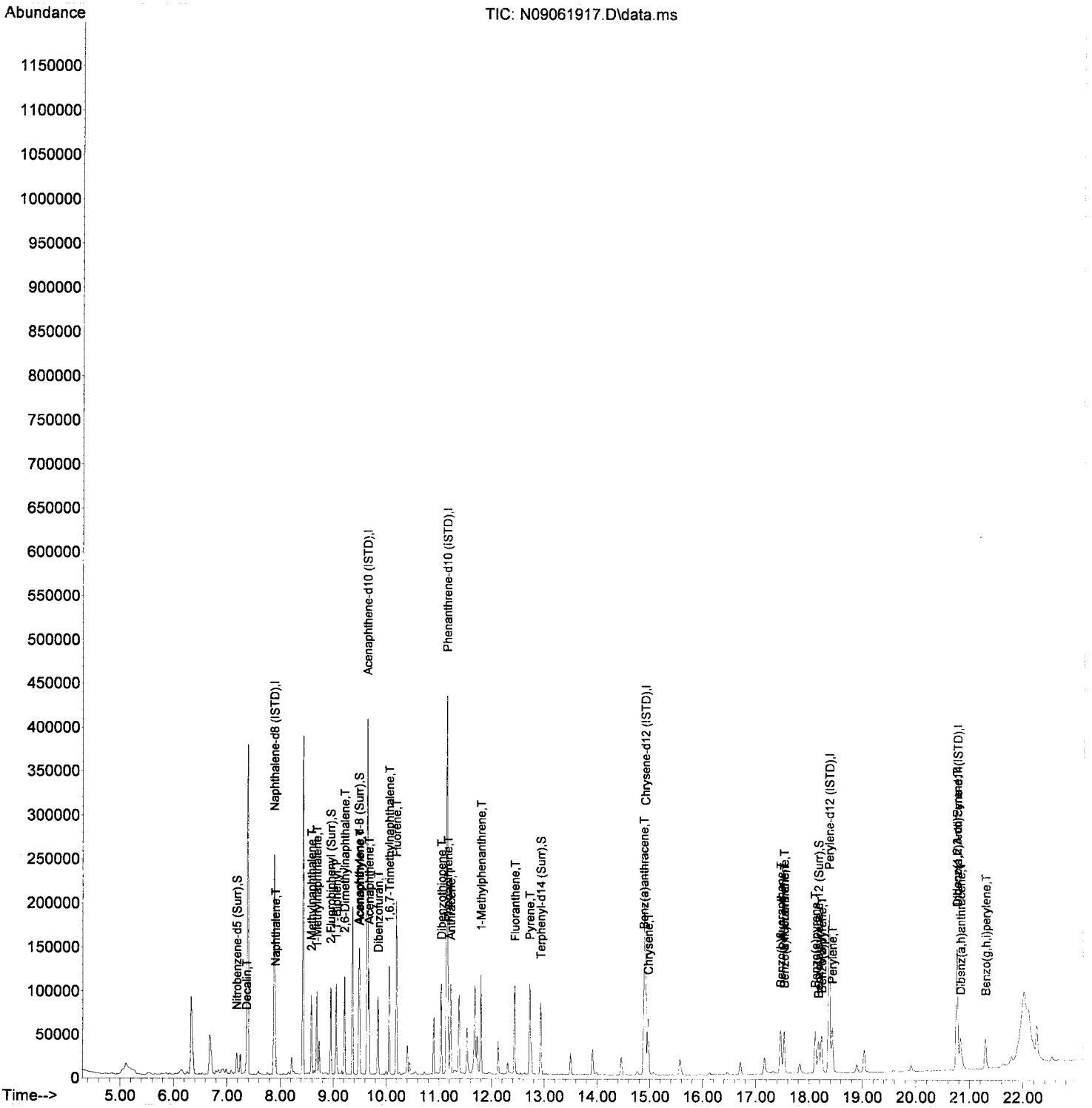
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.883	136	158689	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.638	162	118239	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.147	188	219818	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.907	240	167298	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

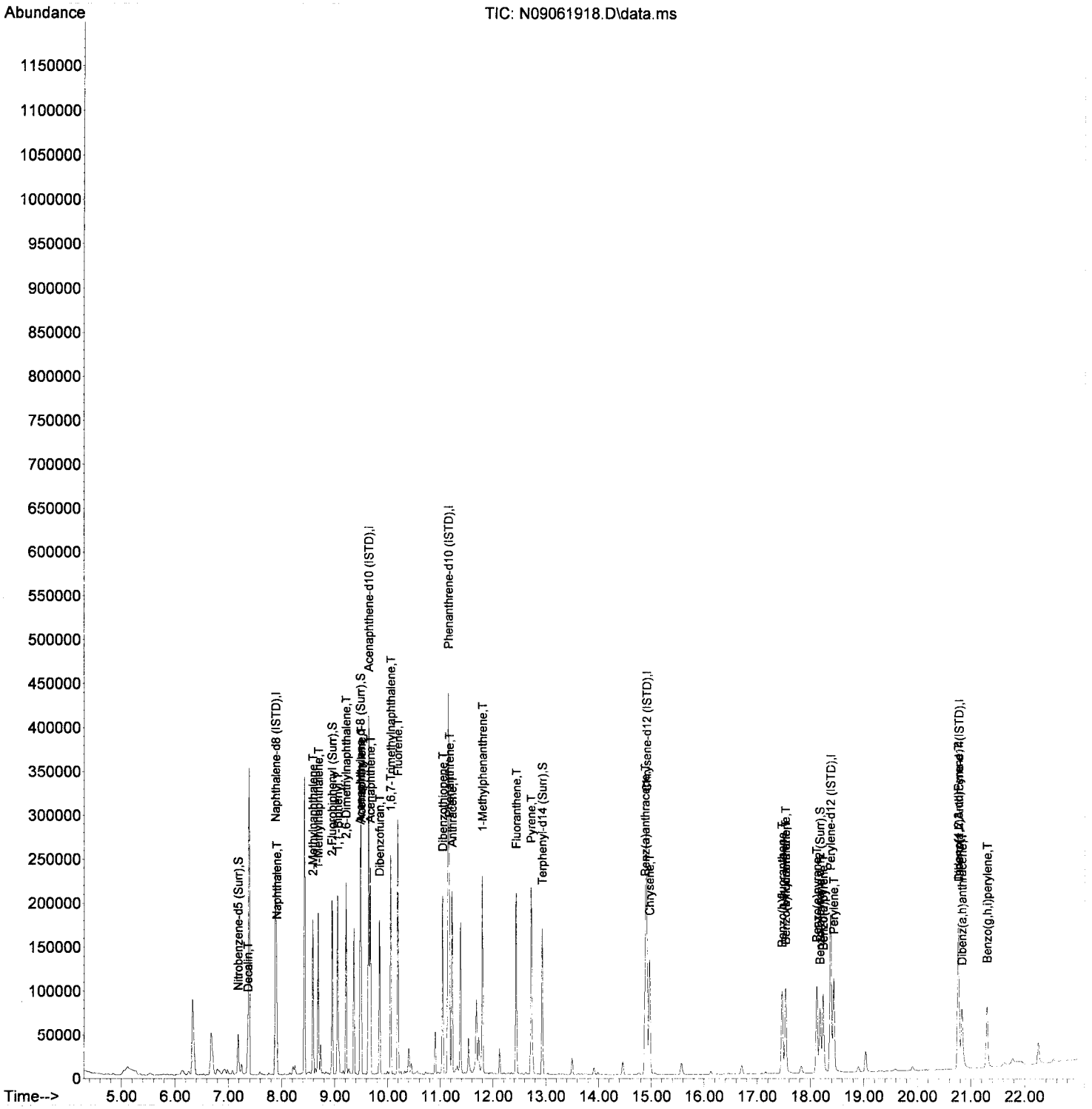
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.883	136	148351	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.638	162	117951	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.147	188	219661	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.907	240	169841	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

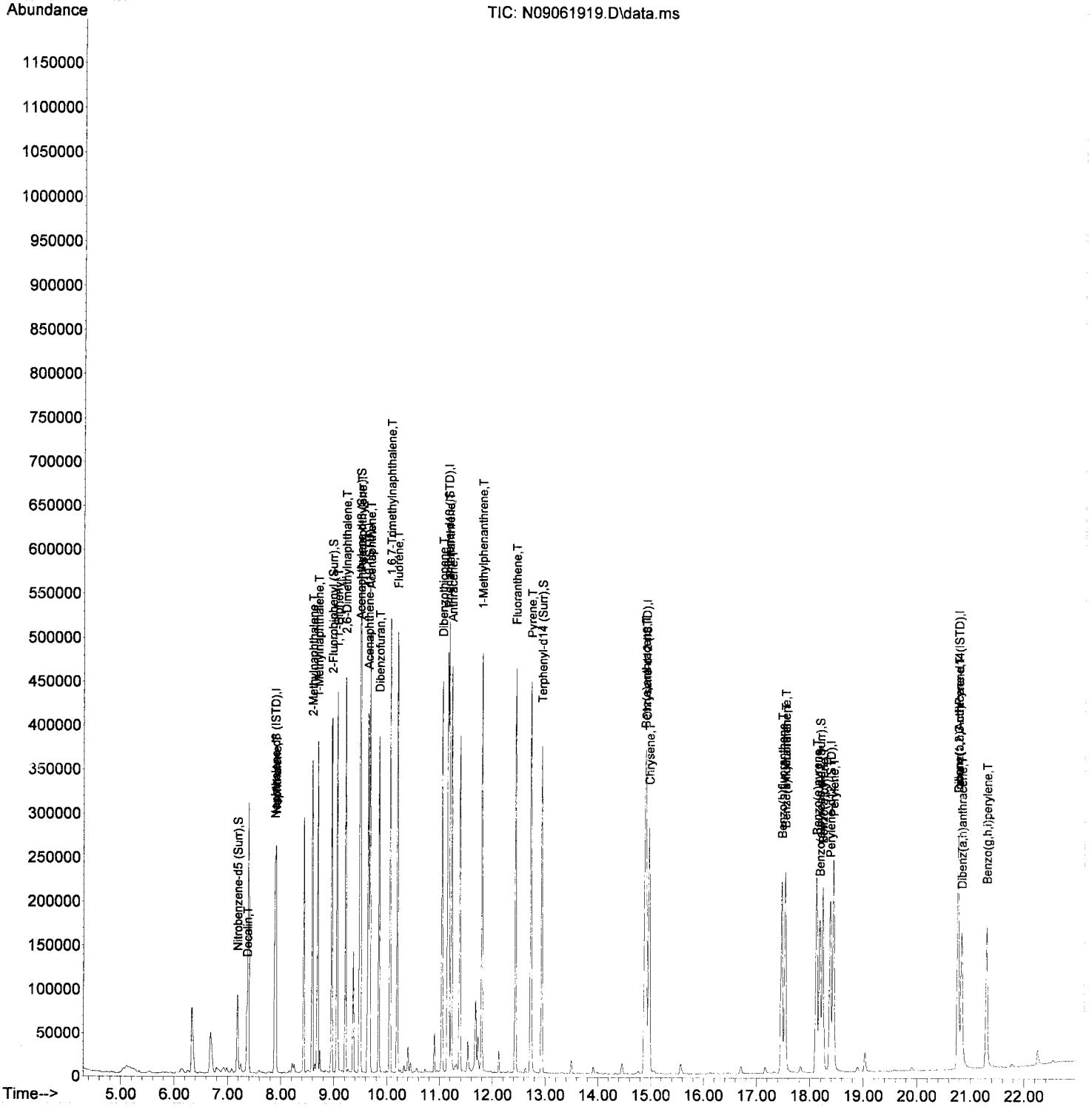
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.883	136	148917	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.638	162	121411	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.147	188	233582	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.907	240	187274	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

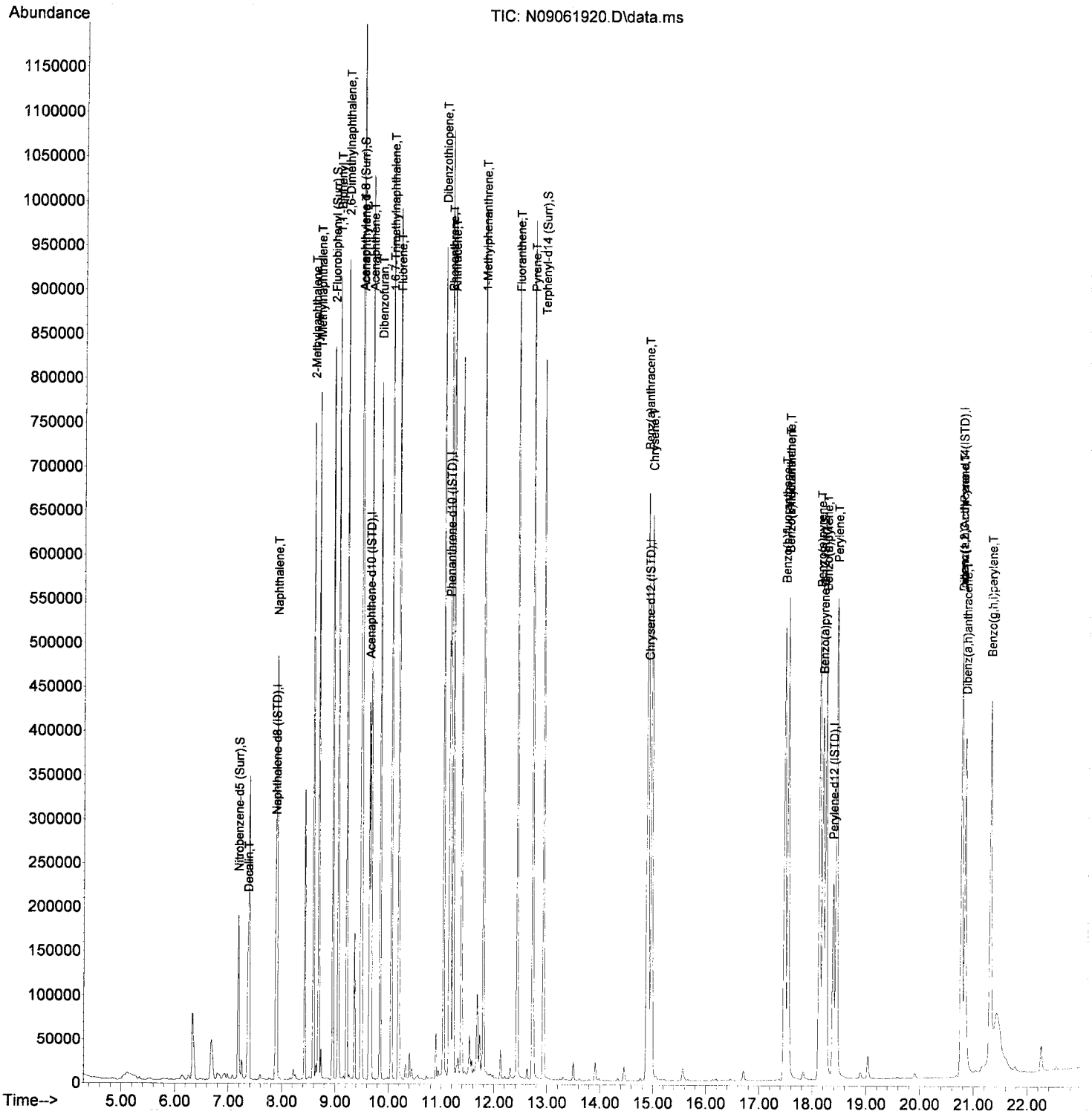
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.883	136	148783	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.638	162	126650	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.147	188	244292	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.913	240	211033	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

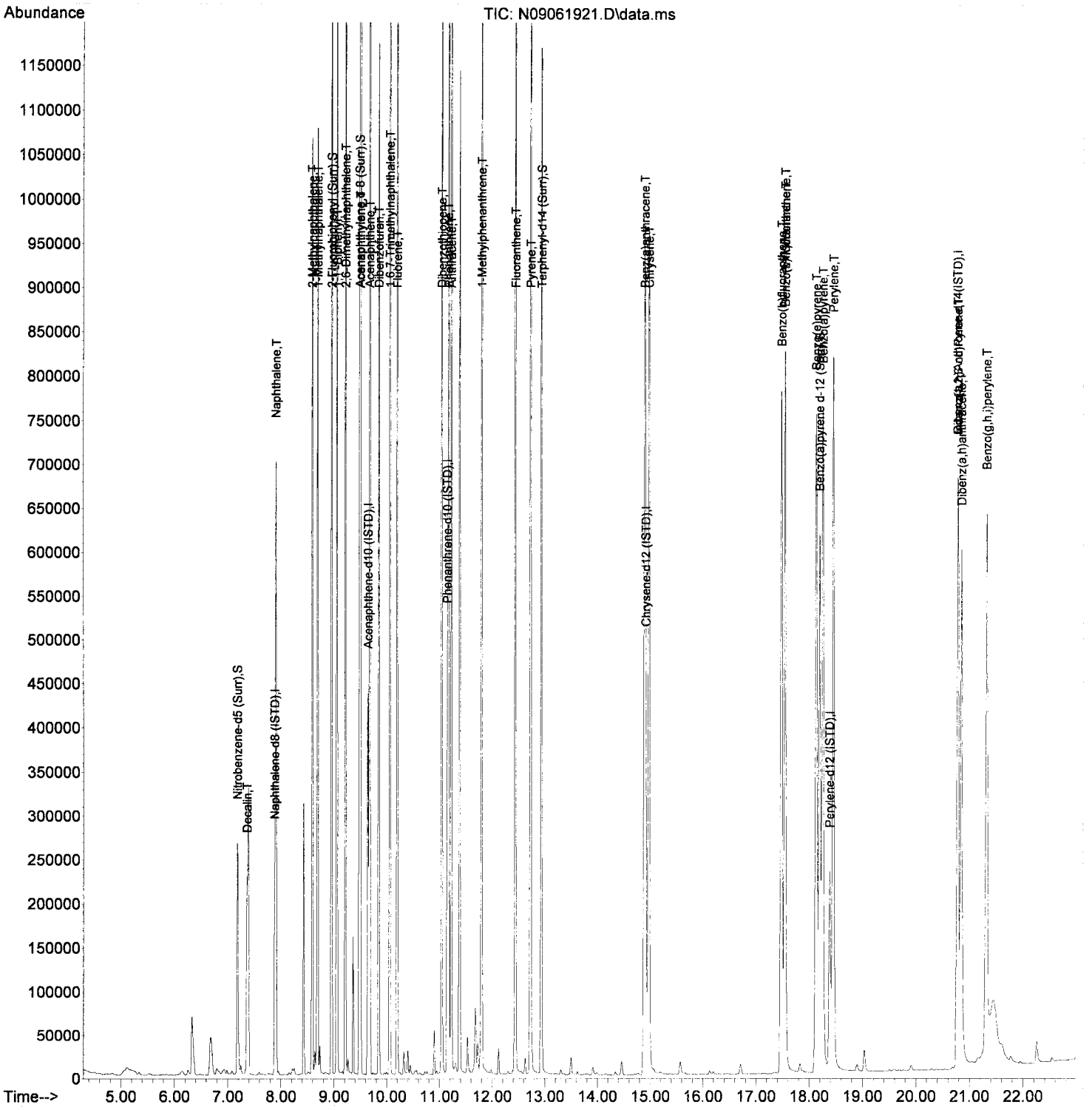
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.883	136	144322	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.643	162	126204	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.147	188	242216	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.918	240	215566	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

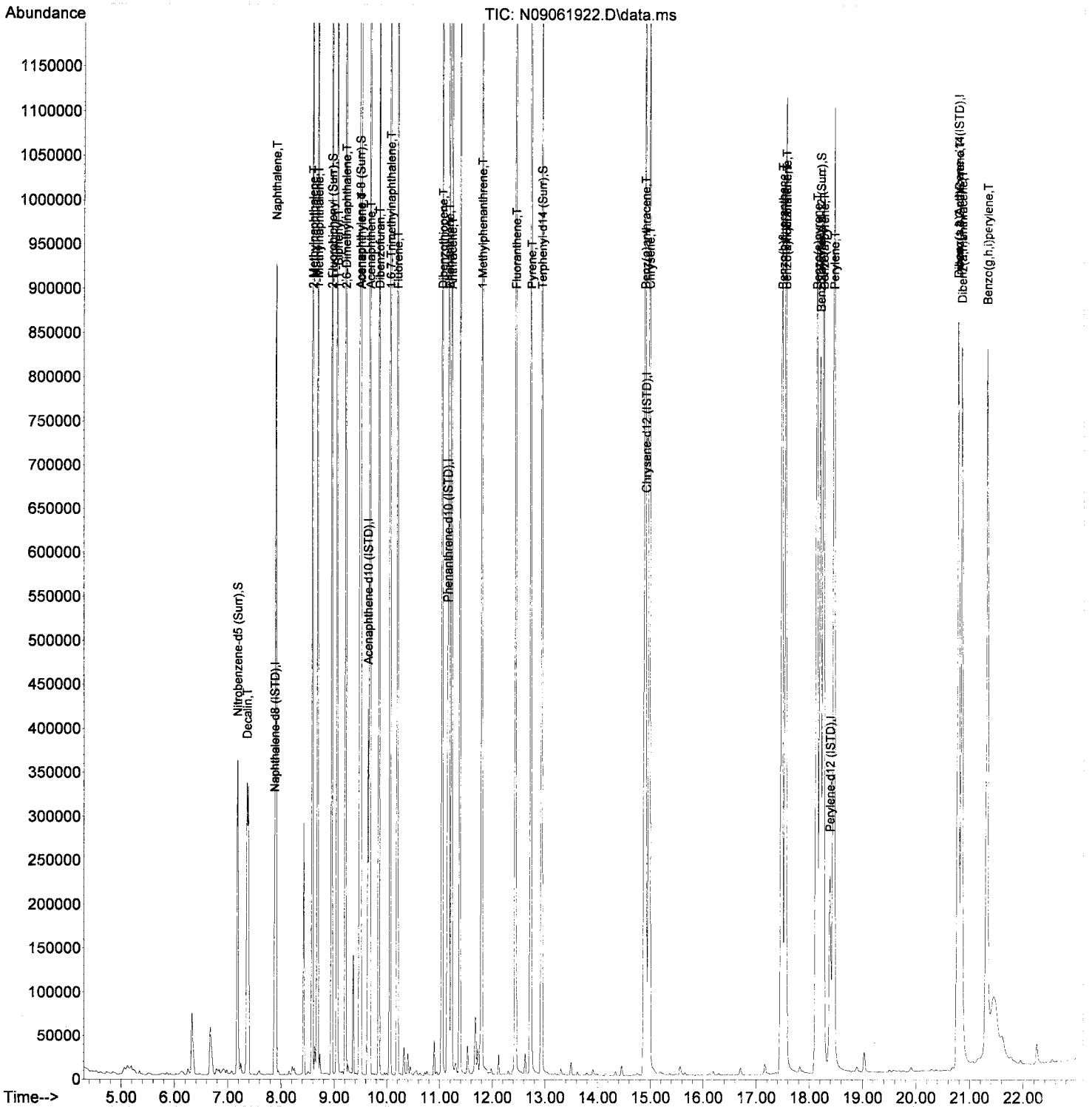
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.877	136	151798	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.638	162	120378	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.147	188	227701	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.913	240	211373	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

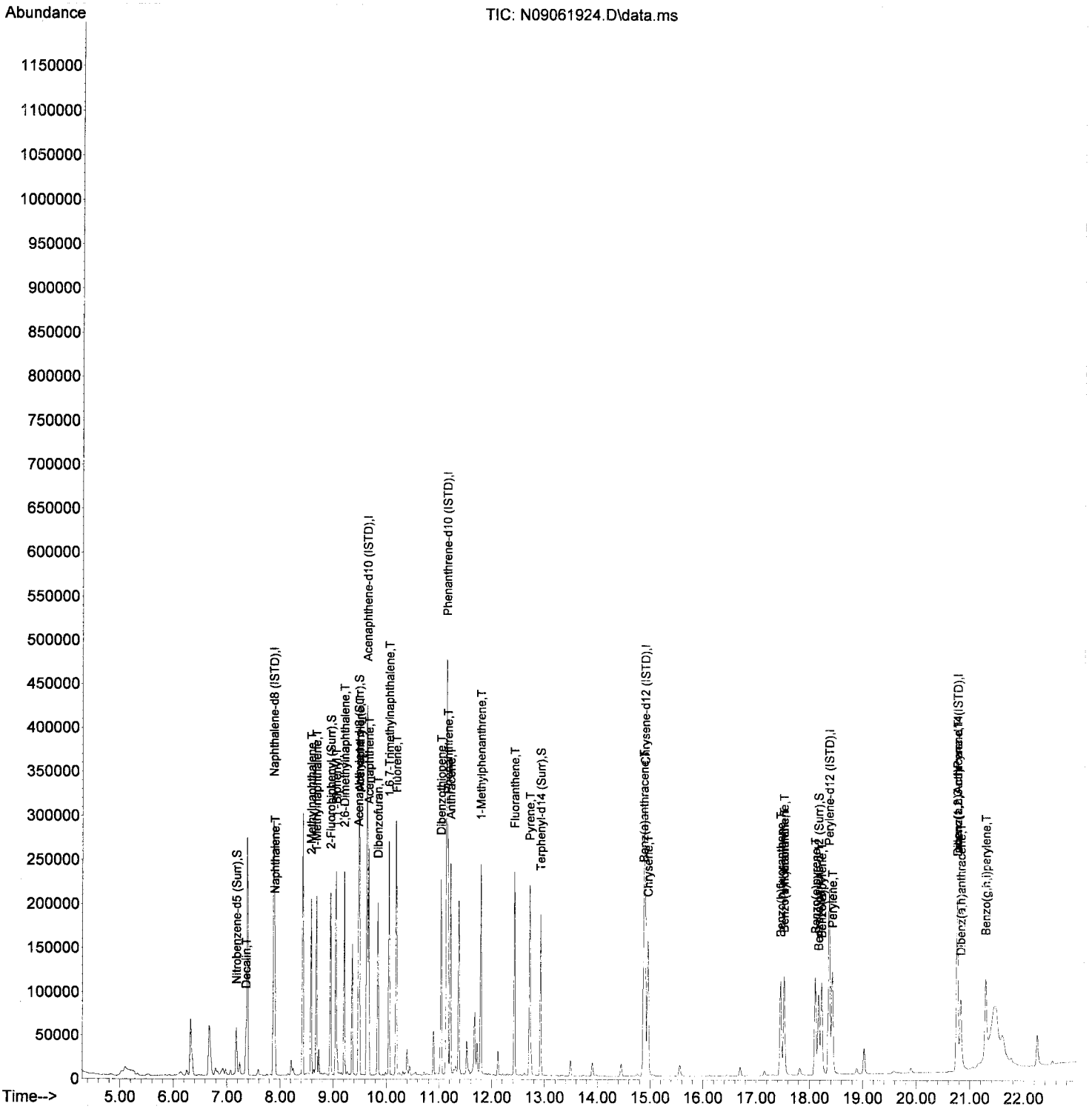
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.877	136	181748	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.638	162	125177	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.141	188	235054	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.901	240	188693	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

9/10/19

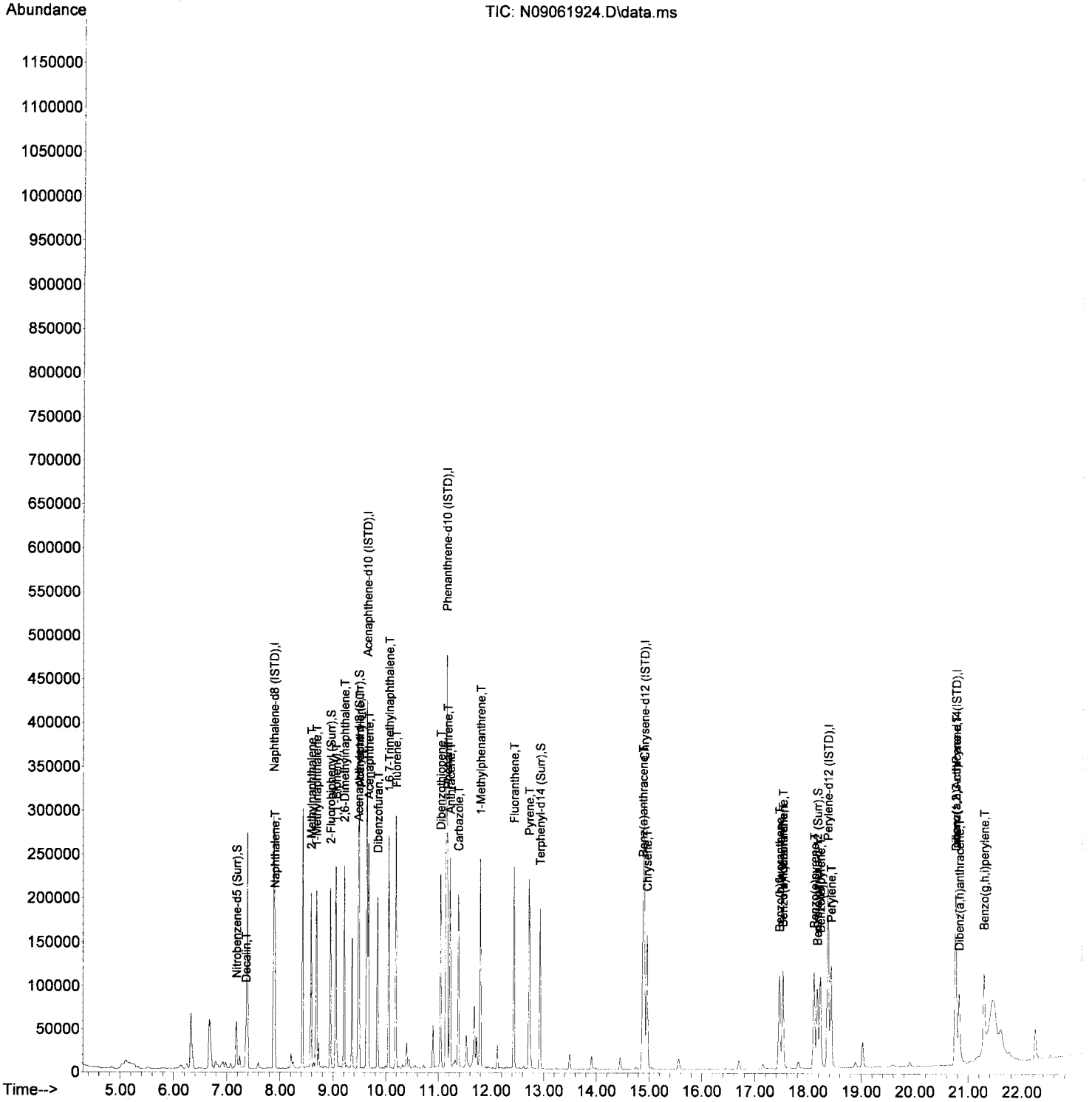
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.877	136	181748	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.638	162	125177	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.141	188	235054	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.901	240	188693	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 0020837
Sequence 0B27057 (A0B0680-01,02,03,04,05)

APEX LABORATORIES

Apex Laboratories

PREPARATION BENCH SHEET

FEB 2 8 2020

BATCH #: 0020837 (Sediment)

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
	0020837-BLK1		QC	02/26/20 12:20	0.2	0.2									
	0020837-BS1		QC	02/26/20 12:20	0.2	0.2	A19K246		1						
	A0B0680-01	A	Total Organic Carbon - Soil (5310 B)	02/26/20 17:00	0.2	0.2					PDI-049SC-A-03 -04-191015				
	0020837-DUP1		QC	02/26/20 17:00	0.2	0.2		A0B0680-01							
	0020837-DUP2		QC	02/26/20 17:00	0.2	0.2		A0B0680-01							
	A0B0680-02	A	Total Organic Carbon - Soil (5310 B)	02/26/20 17:00	0.2	0.2					PDI-049SC-A-04 -05-191015				
	A0B0680-03	A	Total Organic Carbon - Soil (5310 B)	02/26/20 17:00	0.2	0.2					PDI-049SC-A-05 -06-191015				
	A0B0680-04	A	Total Organic Carbon - Soil (5310 B)	02/26/20 17:00	0.2	0.2					PDI-049SC-A-06 -07-191015				
	A0B0680-05	A	Total Organic Carbon - Soil (5310 B)	02/26/20 17:00	0.2	0.2					PDI-049SC-A-07 -08-191015				
	A0B0681-01	A	Total Organic Carbon - Soil (5310 B)	02/26/20 12:20	0.2	0.2					PDI-022SC-A-03 -04-191016				
	0020837-DUP3		QC	02/26/20 12:20	0.2	0.2		A0B0681-01				triplicate			
	A0B0681-02	A	Total Organic Carbon - Soil (5310 B)	02/26/20 12:20	0.2	0.2					PDI-022SC-A-04 -05-191016				
	A0B0681-03	A	Total Organic Carbon - Soil (5310 B)	02/26/20 12:20	0.2	0.2					PDI-022SC-A-05 -06-191016				
	A0B0681-04	A	Total Organic Carbon - Soil (5310 B)	02/26/20 12:20	0.2	0.2					PDI-022SC-A-06 -07-191016				
	A0B0681-05	A	Total Organic Carbon - Soil (5310 B)	02/26/20 12:20	0.2	0.2					PDI-059SC-A-11 -12-191016				

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

Prepared By: 2/28/2020 Date

Reviewed By: 2/28/20 Date

Printed: 2/27/2020 9:37:35AM

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0020837 (Sediment)

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

Prepared By: Date

Reviewed By: Date

Batch 0020837 TOC PSEP preweigh Analyst DAS

Date/Time:	2-27-20/10:40	2-27-20/14:09			Effervesces?	Comments
T(°C) IN / OUT:	71.8 / 71.2	71.7 / 69.8	/	/		
Sample ID	Wt 1(g)	Wt 2(g)	Wt 3(g)	Wt 4(g)	(yes/no)	
A0B0680-01	5.6906	5.6893 -			N	
0020837-DUP1	4.4972	4.4974 -			N	
A0B0680-02	5.0495	5.0523 -			N	
A0B0680-03	5.1924	5.1931 -			N	
A0B0680-04	7.7518	7.7506 -			N	
A0B0680-05	5.6295	5.6267 -			N	
A0B0681-01	7.9433	7.9435 -			N	
0020837-DUP3	6.7000	6.7000 -			N	
A0B0681-02	7.2241	7.2239 -			N	
A0B0681-03	5.8378	5.8356 -			N	
A0B0681-04	5.4237	5.4221 -			N	
A0B0681-05	5.6466	5.6455 -			N	

A0B0680-01 → OF in oven @ 12:20 2/26/2020 @ 71.8°C.
A0B0680-01 → OF in oven @ 17:00 2/26/2020 @ 70.8°C.
VM 2/27/2020

ELEMENT SEQUENCE LOG

Apex Laboratories

FEB 2 8 2020

Sequence: 0B27057 Instrument: TOC6

Date: 02/27/20 17:34 Calibration: A0A0805

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0B27057-CCV1	Sediment	QC	QC				A20B041
2	0B27057-CCB1	Sediment	QC	QC				
3	0020836-BLK1	Sediment	QC	QC		0020836		
4	0020836-BS1	Sediment	QC	QC		0020836		
5	A0B0679-01	Sediment	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	02/28/20	0020836		
6	0020836-DUP1	Sediment	QC	QC		0020836		
7	0020836-DUP2	Sediment	QC	QC		0020836		
8	A0B0679-02	Sediment	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	02/28/20	0020836		
9	A0B0679-03	Sediment	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	02/28/20	0020836		
10	A0B0679-04	Sediment	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	02/28/20	0020836		
11	A0B0679-05	Sediment	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	02/28/20	0020836		
12	A0B0679-06	Sediment	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	02/28/20	0020836		
13	0B27057-CCV2	Sediment	QC	QC				A20B041
14	0B27057-CCB2	Sediment	QC	QC				
15	A0B0679-07	Sediment	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	02/28/20	0020836		
16	A0B0679-08	Sediment	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	02/28/20	0020836		
17	A0B0679-09	Sediment	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	02/28/20	0020836		
18	A0B0679-10	Sediment	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	02/28/20	0020836		
19	A0B0679-11	Sediment	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	02/28/20	0020836		
20	0020836-DUP3	Sediment	QC	QC		0020836		
21	A0B0679-12	Sediment	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	02/28/20	0020836		
22	A0B0679-13	Sediment	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	02/28/20	0020836		
23	A0B0679-14	Sediment	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	02/28/20	0020836		
24	A0B0679-15	Sediment	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	02/28/20	0020836		
25	0B27057-CCV3	Sediment	QC	QC				A20B041
26	0B27057-CCB3	Sediment	QC	QC				
27	0020837-BLK1	Sediment	QC	QC		0020837		
28	0020837-BS1	Sediment	QC	QC		0020837		
29	A0B0680-01	Sediment	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	02/28/20	0020837		
30	0020837-DUP1	Sediment	QC	QC		0020837		
31	0020837-DUP2	Sediment	QC	QC		0020837		
32	A0B0680-02	Sediment	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	02/28/20	0020837		
33	A0B0680-03	Sediment	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	02/28/20	0020837		
34	A0B0680-04	Sediment	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	02/28/20	0020837		
35	A0B0680-05	Sediment	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	02/28/20	0020837		
36	A0B0681-01	Sediment	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	02/28/20	0020837		
37	0B27057-CCV4	Sediment	QC	QC				A20B041
38	0B27057-CCB4	Sediment	QC	QC				
39	0020837-DUP3	Sediment	QC	QC		0020837		
40	A0B0681-02	Sediment	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	02/28/20	0020837		
41	A0B0681-03	Sediment	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	02/28/20	0020837		
42	A0B0681-04	Sediment	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	02/28/20	0020837		
43	A0B0681-05	Sediment	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	02/28/20	0020837		
44	0B27057-CCV5	Sediment	QC	QC				A20B041
45	0B27057-CCB5	Sediment	QC	QC				

Comments:

Data Entered By: 2/28/2020

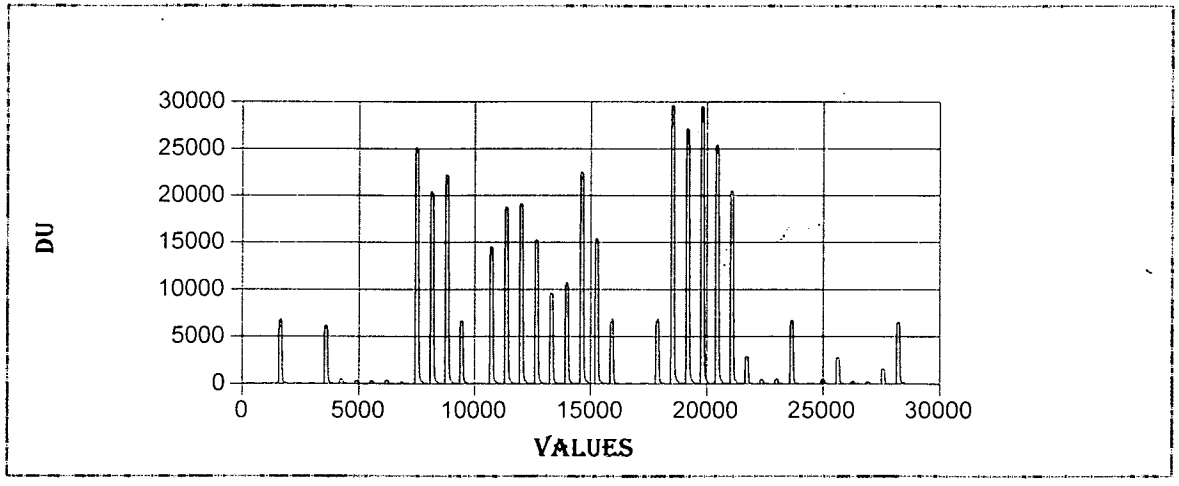
Data Reviewed By: 2/28/20

Method:	TCDirect	Run Start Time:	2/27/2020 6:55:38 P
Method Type:	TC_DIRECT	Run End Time:	2/28/2020 3:07:29 A
Table:	0B27057	Device ID:	TOC6
Analyst:	Administrator	Run Name:	SN10020200227A0

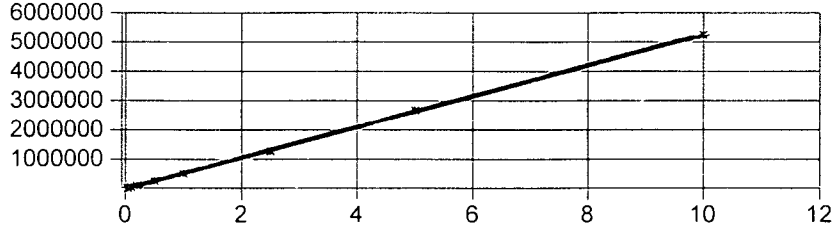
Cup Position	Sample ID	Weight (mg)	Final Result (mg/kg)	Result mg C abs	Peak Area	Analysed Date and time
A99	prime	200	67.096	0.013	6160.725	2/27/2020 6:55:55 PM
A2	blank	200	25.814	0.005	1817.07	2/27/2020 7:06:55 PM
A1	0B27057-CCV1	200	9545.832	1.909	1003506.625	2/27/2020 7:17:48 PM
A2	0B27057-CCB1	200	47.038	0.009	4050.22	2/27/2020 7:28:34 PM
A3	0020836-BLK1	213.9	52.74	0.011	5035.885	2/27/2020 7:39:20 PM
A4	0020836-BS1	200	8934.441 RE-1	1.787	939176.49	2/27/2020 7:50:07 PM
A5	A0B0679-01	201.5	667.19	0.134	69828.665	2/27/2020 8:00:53 PM
A6	0020836-DUP1	200.3	491.409	0.098	50884.175	2/27/2020 8:11:39 PM
A7	0020836-DUP2	201.3	432.652	0.087	44920.14	2/27/2020 8:22:26 PM
A8	A0B0679-02	202.7	552.764	0.112	58047.52	2/27/2020 8:33:13 PM
A9	A0B0679-03	202.1	287.619	0.058	29681.7	2/27/2020 8:44:00 PM
A10	A0B0679-04	201.6	36025.009	7.263	3819951.03	2/27/2020 8:54:46 PM
A11	A0B0679-05	201.4	29296.422	5.9	3103227.54	2/27/2020 9:05:33 PM
A12	A0B0679-06	200.5	32207.233	6.458	3396395.195	2/27/2020 9:16:20 PM
A13	0B27057-CCV2	200	9782.898	1.957	1028450.495	2/27/2020 9:27:06 PM
A2	0B27057-CCB2	200	77.105	0.015	7213.83	2/27/2020 9:37:53 PM
A14	A0B0679-07	205.7	20411.791	4.199	2208024.955	2/27/2020 9:48:47 PM
A15	A0B0679-08	202	26854.261	5.425	2852943.13	2/27/2020 9:59:40 PM
A16	A0B0679-09	201.2	27488.899	5.531	2908817.555	2/27/2020 10:10:27 PM
A17	A0B0679-10	201.6	21941.826	4.423	2326273.95	2/27/2020 10:21:14 PM
A20	A0B0679-12	200.7	13937.559	2.797	1470733.75	2/27/2020 10:32:00 PM
A21	A0B0679-13	202.6	14926.415	3.024	1590064.84	2/27/2020 10:42:54 PM
A22	A0B0679-14	101.6	64039.7	6.506	3422112.54	2/27/2020 10:53:40 PM
A23	A0B0679-15	103.9	42677.469	4.434	2331912.05	2/27/2020 11:04:27 PM
A24	0B27057-CCV3	200	9764.636	1.953	1026528.98	2/27/2020 11:15:14 PM
A2	0B27057-CCB3	200	75.211	0.015	7014.52	2/27/2020 11:26:00 PM
A25	0020837-BLK1	213.9	77.196	0.017	7787.91	2/27/2020 11:36:54 PM
A26	0020837-BS1	200	9739.25	1.948	1023857.94	2/27/2020 11:47:48 PM
A27	A0B0680-01	200.2	43083.28	8.625	4536826.29	2/27/2020 11:58:35 PM
A28	0020837-DUP1	201.7	39240.833	7.915	4163089.22	2/28/2020 12:09:22 AM
A29	0020837-DUP2	201.9	42392.25	8.559	4501958.095	2/28/2020 12:20:08 AM
A30	A0B0680-02	202.8	36341.701	7.37	3876482.84	2/28/2020 12:30:55 AM
A31	A0B0680-03	204.8	28891.649	5.917	3112018.78	2/28/2020 12:41:42 AM

A32	A0B0680-04	203.9	4144.876	0.845	443726.16	2/28/2020 12:52:28 AM
A33	A0B0680-05	202.2	678.77	0.137	71306.19	2/28/2020 1:03:15 AM
A34	A0B0681-01	202.2	740.353	0.15	77857.255	2/28/2020 1:14:02 AM
A35	0B27057-CCV4	200	9658.217	1.932	1015331.68	2/28/2020 1:24:48 AM
A2	0B27057-CCB4	200	61.722	0.012	5595.23	2/28/2020 1:35:35 AM
A36	0020837-DUP3	200.4	681.821	0.137	70985.15	2/28/2020 1:46:29 AM
A37	A0B0681-~~01~~02	205.9	3970.987	0.818	429251.19	2/28/2020 1:57:23 AM
A38	A0B0681-03	202.7	375.609	0.076	39155.79	2/28/2020 2:08:10 AM
A39	A0B0681-04	201.3	354.568	0.071	36650.825	2/28/2020 2:18:56 AM
A40	A0B0681-05	16.5	28177.495	0.465	243698.22	2/28/2020 2:29:43 AM
A41	0B27057-CCV~~4~~5	200	9579.587	1.916	1007058.29	2/28/2020 2:40:30 AM
A2	0B27057-CCB~~4~~5	200	51.632	0.01	4533.53	2/28/2020 2:51:31 AM

2/28/2020



SNACCESS
RUN NAME : SN100202001081A1 METHOD NAME : TCDIRECT CALIBRATION TYPE : ISO FIRST ORDER GROUP : 1
A = -899.10605459823300 B = 526096.46424181900000 R = 0.99994117364848 R-SQUARED = 0.99988235075750



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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				

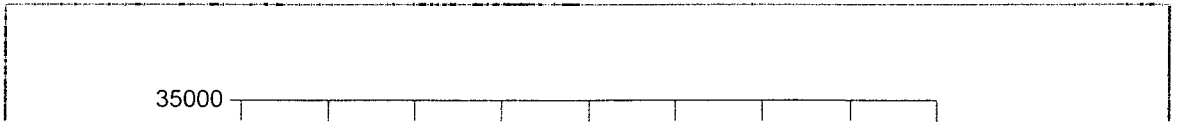
Data Entered By: CMF 1/9/2020

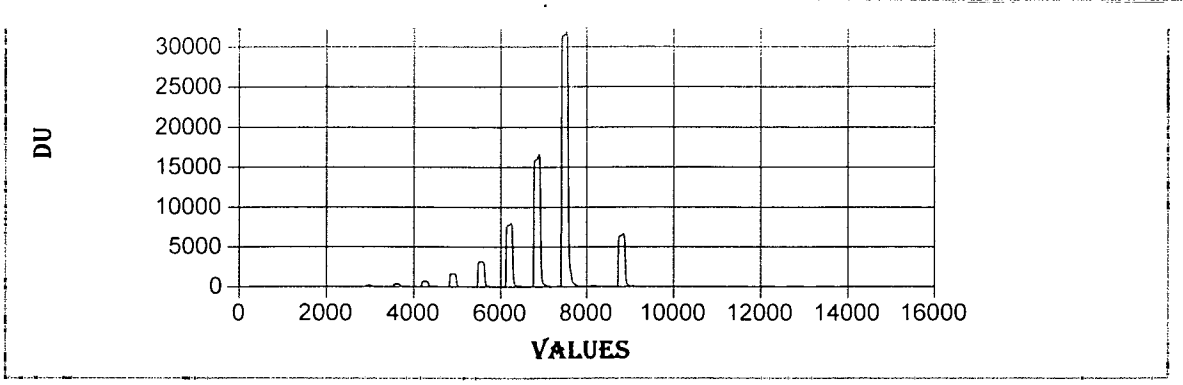
Data Reviewed By: CMF 1/10/20

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

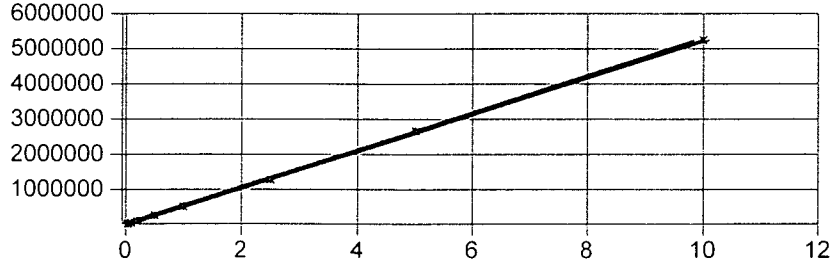




SNACCESS

METHOD NAME : TCDIRECT CALIBRATION TYPE : ISO FIRST ORDER GROUP : 1

A = -899.10605459823300 B = 526096.46424181900000 R = 0.99994117364848 R-SQUARED = 0.99988235075750



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Total Solids by SM2540G
Benchsheet Data

Batch 0020800 (A0B0680-01,02,03,04,05)

APEX LABORATORIES

Apex Laboratories

PREPARATION BENCH SHEET

Percent Solids + Dry Weight Worksheet

BATCH #: 0020800 (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
A0B0680-01	Dry Weight		02/26/20 10:29		1.26	27.67	16.09	56.2	Use Results from TS.. Make NR once completed.
A0B0680-01	Solids, Total (SM 254		02/26/20 10:29		1.26	27.67	16.09	56.2	Use Results for Dry Weight (Not for Waters)
0020800-DUP1	QC	A0B0680-01	02/26/20 10:29		1.27	29.205	17.35	57.6	
A0B0680-02	Dry Weight		02/26/20 10:29		1.27	27.285	15.97	56.5	Use Results from TS.. Make NR once completed.
A0B0680-02	Solids, Total (SM 254		02/26/20 10:29		1.27	27.285	15.97	56.5	Use Results for Dry Weight (Not for Waters)
A0B0680-03	Dry Weight		02/26/20 10:29		1.27	28.685	18.26	62.0	Use Results from TS.. Make NR once completed.
A0B0680-03	Solids, Total (SM 254		02/26/20 10:29		1.27	28.685	18.26	62.0	Use Results for Dry Weight (Not for Waters)
A0B0680-04	Dry Weight		02/26/20 10:29		1.27	28.12	21.07	73.7	Use Results from TS.. Make NR once completed.
A0B0680-04	Solids, Total (SM 254		02/26/20 10:29		1.27	28.12	21.07	73.7	Use Results for Dry Weight (Not for Waters)
A0B0680-05	Dry Weight		02/26/20 10:29		1.28	28.31	22.9	80.0	Use Results from TS.. Make NR once completed.
A0B0680-05	Solids, Total (SM 254		02/26/20 10:29		1.28	28.31	22.9	80.0	Use Results for Dry Weight (Not for Waters)

NAP 2/27/20
Prepared By: Date

James A. Johnson 02/29/20
Reviewed By: Date

Batch #: 0020800

Analyst: nrp

Total Solids Worksheet

Method: SM 2540 G

Date: 2/26/2020

Sample ID	Tare Wt. (g)	Vessel ID	Initial (wet) Wt. (g)	Final Weight (g)			Comments
				1st weighing	2nd Weighing	3rd Weighing	
A0B0680-01	1.260	680-01	27.670	16.100	16.090		
0020800-DUP1	1.270	680-01Dup	29.205	17.360	17.350		source: A0B0680-01
A0B0680-02	1.270	680-02	27.285	15.980	15.970		
A0B0680-03	1.270	680-03	28.685	18.270	18.260		
A0B0680-04	1.270	680-04	28.120	21.070	21.070		
A0B0680-05	1.280	680-05	28.310	22.910	22.900		
Date/time first in oven: 2/26/20@17:40		**Oven temp. (°C; in/out):**		**99.8/103.5**	**96.1/103.0**	/	
		Time of weighing:		2/27@14:52	2/27@18:10		

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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 0210 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 10:10	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							