Analytical Data Package

Prepared by:

Pace Analytical Services

Pace Project No.: 40157825

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Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

May 07, 2018

Jim Ryan
Anchor QEA
290 Elwood Davis Road
Suite 340
Liverpool, NY 13088

RE: Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157825

Dear Jim Ryan:
Enclosed are the analytical results for sample(s) received by the laboratory on October 03, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tod Noltemeyer

Tod Noltemeyer
tod.noltemeyer@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: David Blye, Environmental Standards Inc.
Mark Meyers, Anchor QEA, LLC
Meg Michell, Environmental Standards Inc.

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CERTIFICATIONS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157825

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

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SAMPLE SUMMARY

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157825

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40157825001	**TD5-170619-01-YB-02**	Tissue	06/19/17 13:30	10/03/17 10:20
40157825002	**TD2-170619-01-YP-10**	Tissue	06/19/17 14:00	10/03/17 10:20
40157825003	**TD2-170619-01-YP-09**	Tissue	06/19/17 13:59	10/03/17 10:20
40157825004	**TD2-170619-01-YP-08**	Tissue	06/19/17 13:58	10/03/17 10:20
40157825005	**TD2-170619-01-YP-07**	Tissue	06/19/17 13:57	10/03/17 10:20
40157825006	**TD2-170619-01-YP-06**	Tissue	06/19/17 13:55	10/03/17 10:20
40157825007	**TD1-170619-01-YP-10**	Tissue	06/19/17 14:16	10/03/17 10:20
40157825008	**TD1-170619-01-YP-09**	Tissue	06/19/17 14:15	10/03/17 10:20
40157825009	**TD1-170619-01-YP-08**	Tissue	06/19/17 14:14	10/03/17 10:20
40157825010	**TD1-170619-01-YP-07**	Tissue	06/19/17 14:13	10/03/17 10:20
40157825011	**TD1-170619-01-YP-06**	Tissue	06/19/17 14:12	10/03/17 10:20

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SAMPLE ANALYTE COUNT

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157825

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40157825001	TD5-170619-01-YB-02	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	ETB	1
40157825002	TD2-170619-01-YP-10	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157825003	TD2-170619-01-YP-09	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157825004	TD2-170619-01-YP-08	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157825005	TD2-170619-01-YP-07	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157825006	TD2-170619-01-YP-06	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157825007	TD1-170619-01-YP-10	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157825008	TD1-170619-01-YP-09	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157825009	TD1-170619-01-YP-08	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157825010	TD1-170619-01-YP-07	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157825011	TD1-170619-01-YP-06	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1

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PROJECT NARRATIVE

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157825

Method: **EPA 8082A Mod**
Description: 8082A Modified GCT PCB
Client: General Electric
Date: May 07, 2018

General Information:
11 samples were analyzed for EPA 8082A Mod. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3541 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 284601

1q: Sample was re-analyzed due to incorrect dilution.

- TD1-170619-01-YP-07 (Lab ID: 40157825010)
  - PCB-1016 (Aroclor 1016)
- TD2-170619-01-YP-07 (Lab ID: 40157825005)
  - PCB-1016 (Aroclor 1016)

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PROJECT NARRATIVE

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157825

Method: **Pace Gender Typing**
Description: Fish Gender Typing
Client: General Electric
Date: May 07, 2018

General Information:
11 samples were analyzed for Pace Gender Typing. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157825

Method: **Pace Lipid**
Description: Lipid
Client: General Electric
Date: May 07, 2018

General Information:
11 samples were analyzed for Pace Lipid. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157825

Sample: TD5-170619-01-YB-02 **Lab ID: 40157825001** Collected: 06/19/17 13:30 Received: 10/03/17 10:20 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	50.1	11.4	1	03/28/18 08:09	03/30/18 23:27	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.1	11.4	1	03/28/18 08:09	03/30/18 23:27	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.1	11.4	1	03/28/18 08:09	03/30/18 23:27	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.1	11.4	1	03/28/18 08:09	03/30/18 23:27	53469-21-9	
PCB-1248 (Aroclor 1248)	**272**	ug/kg	50.1	11.4	1	03/28/18 08:09	03/30/18 23:27	12672-29-6	
PCB-1254 (Aroclor 1254)	**114**	ug/kg	50.1	11.4	1	03/28/18 08:09	03/30/18 23:27	11097-69-1	
PCB-1260 (Aroclor 1260)	**20.1J**	ug/kg	50.1	11.4	1	03/28/18 08:09	03/30/18 23:27	11096-82-5	
PCB, Total	**406**	ug/kg	50.1	11.4	1	03/28/18 08:09	03/30/18 23:27	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	86	%	60-140		1	03/28/18 08:09	03/30/18 23:27	877-09-8	
Decachlorobiphenyl (S)	90	%	60-140		1	03/28/18 08:09	03/30/18 23:27	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		03/26/18 13:39		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.39**	%	0.030	0.030	1		03/29/18 07:11		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157825

Sample: TD2-170619-01-YP-10 **Lab ID: 40157825002** Collected: 06/19/17 14:00 Received: 10/03/17 10:20 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	50.1	11.4	1	03/29/18 07:15	03/31/18 04:12	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.1	11.4	1	03/29/18 07:15	03/31/18 04:12	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.1	11.4	1	03/29/18 07:15	03/31/18 04:12	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.1	11.4	1	03/29/18 07:15	03/31/18 04:12	53469-21-9	
PCB-1248 (Aroclor 1248)	**176**	ug/kg	50.1	11.4	1	03/29/18 07:15	03/31/18 04:12	12672-29-6	
PCB-1254 (Aroclor 1254)	**119**	ug/kg	50.1	11.4	1	03/29/18 07:15	03/31/18 04:12	11097-69-1	
PCB-1260 (Aroclor 1260)	**20.0J**	ug/kg	50.1	11.4	1	03/29/18 07:15	03/31/18 04:12	11096-82-5	
PCB, Total	**315**	ug/kg	50.1	11.4	1	03/29/18 07:15	03/31/18 04:12	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	95	%	60-140		1	03/29/18 07:15	03/31/18 04:12	877-09-8	
Decachlorobiphenyl (S)	99	%	60-140		1	03/29/18 07:15	03/31/18 04:12	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/26/18 13:39		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.72**	%	0.030	0.030	1		03/30/18 06:40		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157825

Sample: TD2-170619-01-YP-09 **Lab ID: 40157825003** Collected: 06/19/17 13:59 Received: 10/03/17 10:20 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	50.2	11.4	1	03/29/18 07:15	03/31/18 05:00	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.2	11.4	1	03/29/18 07:15	03/31/18 05:00	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.2	11.4	1	03/29/18 07:15	03/31/18 05:00	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.2	11.4	1	03/29/18 07:15	03/31/18 05:00	53469-21-9	
PCB-1248 (Aroclor 1248)	**118**	ug/kg	50.2	11.4	1	03/29/18 07:15	03/31/18 05:00	12672-29-6	
PCB-1254 (Aroclor 1254)	**57.0**	ug/kg	50.2	11.4	1	03/29/18 07:15	03/31/18 05:00	11097-69-1	
PCB-1260 (Aroclor 1260)	**<11.4**	ug/kg	50.2	11.4	1	03/29/18 07:15	03/31/18 05:00	11096-82-5	
PCB, Total	**175**	ug/kg	50.2	11.4	1	03/29/18 07:15	03/31/18 05:00	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	87	%	60-140		1	03/29/18 07:15	03/31/18 05:00	877-09-8	
Decachlorobiphenyl (S)	93	%	60-140		1	03/29/18 07:15	03/31/18 05:00	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/26/18 13:39		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.52**	%	0.030	0.030	1		03/30/18 06:40		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157825

Sample: TD2-170619-01-YP-08 **Lab ID: 40157825004** Collected: 06/19/17 13:58 Received: 10/03/17 10:20 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	49.8	11.4	1	03/29/18 07:15	03/31/18 05:16	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	49.8	11.4	1	03/29/18 07:15	03/31/18 05:16	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	49.8	11.4	1	03/29/18 07:15	03/31/18 05:16	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	49.8	11.4	1	03/29/18 07:15	03/31/18 05:16	53469-21-9	
PCB-1248 (Aroclor 1248)	**266**	ug/kg	49.8	11.4	1	03/29/18 07:15	03/31/18 05:16	12672-29-6	
PCB-1254 (Aroclor 1254)	**145**	ug/kg	49.8	11.4	1	03/29/18 07:15	03/31/18 05:16	11097-69-1	
PCB-1260 (Aroclor 1260)	**24.5J**	ug/kg	49.8	11.4	1	03/29/18 07:15	03/31/18 05:16	11096-82-5	
PCB, Total	**436**	ug/kg	49.8	11.4	1	03/29/18 07:15	03/31/18 05:16	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	89	%	60-140		1	03/29/18 07:15	03/31/18 05:16	877-09-8	
Decachlorobiphenyl (S)	91	%	60-140		1	03/29/18 07:15	03/31/18 05:16	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/26/18 13:39		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.75**	%	0.030	0.030	1		03/30/18 06:40		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157825

Sample: TD2-170619-01-YP-07 **Lab ID: 40157825005** Collected: 06/19/17 13:57 Received: 10/03/17 10:20 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<22.9**	ug/kg	100	22.9	2	03/29/18 07:15	04/03/18 15:32	12674-11-2	1q
PCB-1221 (Aroclor 1221)	**<22.9**	ug/kg	100	22.9	2	03/29/18 07:15	04/03/18 15:32	11104-28-2	
PCB-1232 (Aroclor 1232)	**<22.9**	ug/kg	100	22.9	2	03/29/18 07:15	04/03/18 15:32	11141-16-5	
PCB-1242 (Aroclor 1242)	**<22.9**	ug/kg	100	22.9	2	03/29/18 07:15	04/03/18 15:32	53469-21-9	
PCB-1248 (Aroclor 1248)	**507**	ug/kg	100	22.9	2	03/29/18 07:15	04/03/18 15:32	12672-29-6	
PCB-1254 (Aroclor 1254)	**235**	ug/kg	100	22.9	2	03/29/18 07:15	04/03/18 15:32	11097-69-1	
PCB-1260 (Aroclor 1260)	**26.8J**	ug/kg	100	22.9	2	03/29/18 07:15	04/03/18 15:32	11096-82-5	
PCB, Total	**769**	ug/kg	100	22.9	2	03/29/18 07:15	04/03/18 15:32	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	89	%	60-140		2	03/29/18 07:15	04/03/18 15:32	877-09-8	
Decachlorobiphenyl (S)	95	%	60-140		2	03/29/18 07:15	04/03/18 15:32	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/26/18 13:40		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.4**	%	0.030	0.030	1		03/30/18 06:40		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157825

Sample: TD2-170619-01-YP-06 **Lab ID: 40157825006** Collected: 06/19/17 13:55 Received: 10/03/17 10:20 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	49.9	11.4	1	03/29/18 07:15	03/31/18 05:48	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	49.9	11.4	1	03/29/18 07:15	03/31/18 05:48	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	49.9	11.4	1	03/29/18 07:15	03/31/18 05:48	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	49.9	11.4	1	03/29/18 07:15	03/31/18 05:48	53469-21-9	
PCB-1248 (Aroclor 1248)	**121**	ug/kg	49.9	11.4	1	03/29/18 07:15	03/31/18 05:48	12672-29-6	
PCB-1254 (Aroclor 1254)	**73.8**	ug/kg	49.9	11.4	1	03/29/18 07:15	03/31/18 05:48	11097-69-1	
PCB-1260 (Aroclor 1260)	**19.9J**	ug/kg	49.9	11.4	1	03/29/18 07:15	03/31/18 05:48	11096-82-5	
PCB, Total	**215**	ug/kg	49.9	11.4	1	03/29/18 07:15	03/31/18 05:48	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	90	%	60-140		1	03/29/18 07:15	03/31/18 05:48	877-09-8	
Decachlorobiphenyl (S)	93	%	60-140		1	03/29/18 07:15	03/31/18 05:48	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/26/18 13:40		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.97**	%	0.030	0.030	1		03/30/18 06:40		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157825

Sample: TD1-170619-01-YP-10 **Lab ID: 40157825007** Collected: 06/19/17 14:16 Received: 10/03/17 10:20 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<22.8**	ug/kg	99.8	22.8	2	03/29/18 07:15	03/31/18 06:20	12674-11-2	
PCB-1221 (Aroclor 1221)	**<22.8**	ug/kg	99.8	22.8	2	03/29/18 07:15	03/31/18 06:20	11104-28-2	
PCB-1232 (Aroclor 1232)	**<22.8**	ug/kg	99.8	22.8	2	03/29/18 07:15	03/31/18 06:20	11141-16-5	
PCB-1242 (Aroclor 1242)	**<22.8**	ug/kg	99.8	22.8	2	03/29/18 07:15	03/31/18 06:20	53469-21-9	
PCB-1248 (Aroclor 1248)	**465**	ug/kg	99.8	22.8	2	03/29/18 07:15	03/31/18 06:20	12672-29-6	
PCB-1254 (Aroclor 1254)	**242**	ug/kg	99.8	22.8	2	03/29/18 07:15	03/31/18 06:20	11097-69-1	
PCB-1260 (Aroclor 1260)	**29.0J**	ug/kg	99.8	22.8	2	03/29/18 07:15	03/31/18 06:20	11096-82-5	
PCB, Total	**736**	ug/kg	99.8	22.8	2	03/29/18 07:15	03/31/18 06:20	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	85	%	60-140		2	03/29/18 07:15	03/31/18 06:20	877-09-8	
Decachlorobiphenyl (S)	92	%	60-140		2	03/29/18 07:15	03/31/18 06:20	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/26/18 13:40		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.94**	%	0.030	0.030	1		03/30/18 06:40		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157825

Sample: TD1-170619-01-YP-09 **Lab ID: 40157825008** Collected: 06/19/17 14:15 Received: 10/03/17 10:20 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<34.2**	ug/kg	150	34.2	3	03/29/18 07:15	03/31/18 06:35	12674-11-2	
PCB-1221 (Aroclor 1221)	**<34.2**	ug/kg	150	34.2	3	03/29/18 07:15	03/31/18 06:35	11104-28-2	
PCB-1232 (Aroclor 1232)	**<34.2**	ug/kg	150	34.2	3	03/29/18 07:15	03/31/18 06:35	11141-16-5	
PCB-1242 (Aroclor 1242)	**<34.2**	ug/kg	150	34.2	3	03/29/18 07:15	03/31/18 06:35	53469-21-9	
PCB-1248 (Aroclor 1248)	**815**	ug/kg	150	34.2	3	03/29/18 07:15	03/31/18 06:35	12672-29-6	
PCB-1254 (Aroclor 1254)	**453**	ug/kg	150	34.2	3	03/29/18 07:15	03/31/18 06:35	11097-69-1	
PCB-1260 (Aroclor 1260)	**67.4J**	ug/kg	150	34.2	3	03/29/18 07:15	03/31/18 06:35	11096-82-5	
PCB, Total	**1340**	ug/kg	150	34.2	3	03/29/18 07:15	03/31/18 06:35	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	84	%	60-140		3	03/29/18 07:15	03/31/18 06:35	877-09-8	
Decachlorobiphenyl (S)	95	%	60-140		3	03/29/18 07:15	03/31/18 06:35	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/26/18 13:40		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.0**	%	0.030	0.030	1		03/30/18 06:40		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157825

Sample: TD1-170619-01-YP-08 **Lab ID: 40157825009** Collected: 06/19/17 14:14 Received: 10/03/17 10:20 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<56.9**	ug/kg	249	56.9	5	03/29/18 07:15	03/31/18 06:51	12674-11-2	
PCB-1221 (Aroclor 1221)	**<56.9**	ug/kg	249	56.9	5	03/29/18 07:15	03/31/18 06:51	11104-28-2	
PCB-1232 (Aroclor 1232)	**<56.9**	ug/kg	249	56.9	5	03/29/18 07:15	03/31/18 06:51	11141-16-5	
PCB-1242 (Aroclor 1242)	**<56.9**	ug/kg	249	56.9	5	03/29/18 07:15	03/31/18 06:51	53469-21-9	
PCB-1248 (Aroclor 1248)	**1170**	ug/kg	249	56.9	5	03/29/18 07:15	03/31/18 06:51	12672-29-6	
PCB-1254 (Aroclor 1254)	**558**	ug/kg	249	56.9	5	03/29/18 07:15	03/31/18 06:51	11097-69-1	
PCB-1260 (Aroclor 1260)	**<56.9**	ug/kg	249	56.9	5	03/29/18 07:15	03/31/18 06:51	11096-82-5	
PCB, Total	**1730**	ug/kg	249	56.9	5	03/29/18 07:15	03/31/18 06:51	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	94	%	60-140		5	03/29/18 07:15	03/31/18 06:51	877-09-8	
Decachlorobiphenyl (S)	113	%	60-140		5	03/29/18 07:15	03/31/18 06:51	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/26/18 13:40		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.88**	%	0.030	0.030	1		03/30/18 06:40		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157825

Sample: TD1-170619-01-YP-07 **Lab ID: 40157825010** Collected: 06/19/17 14:13 Received: 10/03/17 10:20 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<22.7**	ug/kg	99.7	22.7	2	03/29/18 07:15	04/03/18 15:48	12674-11-2	1q
PCB-1221 (Aroclor 1221)	**<22.7**	ug/kg	99.7	22.7	2	03/29/18 07:15	04/03/18 15:48	11104-28-2	
PCB-1232 (Aroclor 1232)	**<22.7**	ug/kg	99.7	22.7	2	03/29/18 07:15	04/03/18 15:48	11141-16-5	
PCB-1242 (Aroclor 1242)	**<22.7**	ug/kg	99.7	22.7	2	03/29/18 07:15	04/03/18 15:48	53469-21-9	
PCB-1248 (Aroclor 1248)	**474**	ug/kg	99.7	22.7	2	03/29/18 07:15	04/03/18 15:48	12672-29-6	
PCB-1254 (Aroclor 1254)	**316**	ug/kg	99.7	22.7	2	03/29/18 07:15	04/03/18 15:48	11097-69-1	
PCB-1260 (Aroclor 1260)	**37.1J**	ug/kg	99.7	22.7	2	03/29/18 07:15	04/03/18 15:48	11096-82-5	
PCB, Total	**827**	ug/kg	99.7	22.7	2	03/29/18 07:15	04/03/18 15:48	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	89	%	60-140		2	03/29/18 07:15	04/03/18 15:48	877-09-8	
Decachlorobiphenyl (S)	96	%	60-140		2	03/29/18 07:15	04/03/18 15:48	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/26/18 13:40		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.1**	%	0.030	0.030	1		03/30/18 06:40		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157825

Sample: TD1-170619-01-YP-06 **Lab ID: 40157825011** Collected: 06/19/17 14:12 Received: 10/03/17 10:20 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	49.8	11.4	1	04/09/18 07:13	04/11/18 03:03	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	49.8	11.4	1	04/09/18 07:13	04/11/18 03:03	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	49.8	11.4	1	04/09/18 07:13	04/11/18 03:03	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	49.8	11.4	1	04/09/18 07:13	04/11/18 03:03	53469-21-9	
PCB-1248 (Aroclor 1248)	**144**	ug/kg	49.8	11.4	1	04/09/18 07:13	04/11/18 03:03	12672-29-6	
PCB-1254 (Aroclor 1254)	**82.1**	ug/kg	49.8	11.4	1	04/09/18 07:13	04/11/18 03:03	11097-69-1	
PCB-1260 (Aroclor 1260)	**13.4J**	ug/kg	49.8	11.4	1	04/09/18 07:13	04/11/18 03:03	11096-82-5	
PCB, Total	**240**	ug/kg	49.8	11.4	1	04/09/18 07:13	04/11/18 03:03	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	80	%	60-140		1	04/09/18 07:13	04/11/18 03:03	877-09-8	
Decachlorobiphenyl (S)	97	%	60-140		1	04/09/18 07:13	04/11/18 03:03	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/26/18 13:40		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.33**	%	0.030	0.030	1		04/10/18 06:28		

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157825

QC Batch: 284454 | Analysis Method: EPA 8082A Mod
QC Batch Method: EPA 3541 | Analysis Description: 8082 GCS PCB
Associated Lab Samples: 40157825001

METHOD BLANK: 1664793 | Matrix: Tissue
Associated Lab Samples: 40157825001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<11.4	50.0	11.4	03/30/18 17:22	
PCB-1221 (Aroclor 1221)	ug/kg	<11.4	50.0	11.4	03/30/18 17:22	
PCB-1232 (Aroclor 1232)	ug/kg	<11.4	50.0	11.4	03/30/18 17:22	
PCB-1242 (Aroclor 1242)	ug/kg	<11.4	50.0	11.4	03/30/18 17:22	
PCB-1248 (Aroclor 1248)	ug/kg	<11.4	50.0	11.4	03/30/18 17:22	
PCB-1254 (Aroclor 1254)	ug/kg	<11.4	50.0	11.4	03/30/18 17:22	
PCB-1260 (Aroclor 1260)	ug/kg	<11.4	50.0	11.4	03/30/18 17:22	
Decachlorobiphenyl (S)	%	89	60-140		03/30/18 17:22	
Tetrachloro-m-xylene (S)	%	76	60-140		03/30/18 17:22	

LABORATORY CONTROL SAMPLE: 1664794

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg		<11.4			
PCB-1221 (Aroclor 1221)	ug/kg		<11.4			
PCB-1232 (Aroclor 1232)	ug/kg		<11.4			
PCB-1242 (Aroclor 1242)	ug/kg	250	236	95	70-130	
PCB-1248 (Aroclor 1248)	ug/kg		<11.4			
PCB-1254 (Aroclor 1254)	ug/kg		<11.4			
PCB-1260 (Aroclor 1260)	ug/kg		<11.4			
Decachlorobiphenyl (S)	%			92	60-140	
Tetrachloro-m-xylene (S)	%			81	60-140	

MATRIX SPIKE SAMPLE: 1664795

Parameter	Units	40151613001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<11.4		<11.4			
PCB-1221 (Aroclor 1221)	ug/kg	<11.4		<11.4			
PCB-1232 (Aroclor 1232)	ug/kg	<11.4		<11.4			
PCB-1242 (Aroclor 1242)	ug/kg	<11.4	251	238	95	70-130	
PCB-1248 (Aroclor 1248)	ug/kg	11.8J		<11.4			
PCB-1254 (Aroclor 1254)	ug/kg	16.9J		43.4J			
PCB-1260 (Aroclor 1260)	ug/kg	39.1J		35.7J			
Decachlorobiphenyl (S)	%				82	60-140	
Tetrachloro-m-xylene (S)	%				79	60-140	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157825

SAMPLE DUPLICATE: 1664796

Parameter	Units	40151613001 Result	Dup Result	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<11.4	<11.4		40	
PCB-1221 (Aroclor 1221)	ug/kg	<11.4	<11.4		40	
PCB-1232 (Aroclor 1232)	ug/kg	<11.4	<11.4		40	
PCB-1242 (Aroclor 1242)	ug/kg	<11.4	<11.4		40	
PCB-1248 (Aroclor 1248)	ug/kg	11.8J	11.4J		40	
PCB-1254 (Aroclor 1254)	ug/kg	16.9J	16.6J		40	
PCB-1260 (Aroclor 1260)	ug/kg	39.1J	36.6J		40	
Decachlorobiphenyl (S)	%	85	90	5		
Tetrachloro-m-xylene (S)	%	82	81	1		

SAMPLE DUPLICATE: 1664809

Parameter	Units	40157825001 Result	Dup Result	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<11.4	<11.4		40	
PCB-1221 (Aroclor 1221)	ug/kg	<11.4	<11.4		40	
PCB-1232 (Aroclor 1232)	ug/kg	<11.4	<11.4		40	
PCB-1242 (Aroclor 1242)	ug/kg	<11.4	<11.4		40	
PCB-1248 (Aroclor 1248)	ug/kg	272	344	23	40	
PCB-1254 (Aroclor 1254)	ug/kg	114	147	25	40	
PCB-1260 (Aroclor 1260)	ug/kg	20.1J	26.4J		40	
Decachlorobiphenyl (S)	%	90	93	2		
Tetrachloro-m-xylene (S)	%	86	85	1		

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157825

QC Batch: 284601 | Analysis Method: EPA 8082A Mod
QC Batch Method: EPA 3541 | Analysis Description: 8082 GCS PCB
Associated Lab Samples: 40157825002, 40157825003, 40157825004, 40157825005, 40157825006, 40157825007, 40157825008, 40157825009, 40157825010

METHOD BLANK: 1665641 | Matrix: Tissue
Associated Lab Samples: 40157825002, 40157825003, 40157825004, 40157825005, 40157825006, 40157825007, 40157825008, 40157825009, 40157825010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<11.4	50.0	11.4	03/30/18 23:59	
PCB-1221 (Aroclor 1221)	ug/kg	<11.4	50.0	11.4	03/30/18 23:59	
PCB-1232 (Aroclor 1232)	ug/kg	<11.4	50.0	11.4	03/30/18 23:59	
PCB-1242 (Aroclor 1242)	ug/kg	<11.4	50.0	11.4	03/30/18 23:59	
PCB-1248 (Aroclor 1248)	ug/kg	<11.4	50.0	11.4	03/30/18 23:59	
PCB-1254 (Aroclor 1254)	ug/kg	<11.4	50.0	11.4	03/30/18 23:59	
PCB-1260 (Aroclor 1260)	ug/kg	<11.4	50.0	11.4	03/30/18 23:59	
Decachlorobiphenyl (S)	%	91	60-140		03/30/18 23:59	
Tetrachloro-m-xylene (S)	%	74	60-140		03/30/18 23:59	

LABORATORY CONTROL SAMPLE: 1665642

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg		<11.4			
PCB-1221 (Aroclor 1221)	ug/kg		<11.4			
PCB-1232 (Aroclor 1232)	ug/kg		<11.4			
PCB-1242 (Aroclor 1242)	ug/kg	250	235	94	70-130	
PCB-1248 (Aroclor 1248)	ug/kg		<11.4			
PCB-1254 (Aroclor 1254)	ug/kg		<11.4			
PCB-1260 (Aroclor 1260)	ug/kg		<11.4			
Decachlorobiphenyl (S)	%			93	60-140	
Tetrachloro-m-xylene (S)	%			77	60-140	

MATRIX SPIKE SAMPLE: 1665643

Parameter	Units	40157488005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<11.4		<22.8			
PCB-1221 (Aroclor 1221)	ug/kg	35.6J		119			
PCB-1232 (Aroclor 1232)	ug/kg	<11.4		<22.8			
PCB-1242 (Aroclor 1242)	ug/kg	<11.4	250	284	113	70-130	
PCB-1248 (Aroclor 1248)	ug/kg	218		340			
PCB-1254 (Aroclor 1254)	ug/kg	147		148			
PCB-1260 (Aroclor 1260)	ug/kg	54.9		47.6J			
Decachlorobiphenyl (S)	%				91	60-140	
Tetrachloro-m-xylene (S)	%				80	60-140	

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REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157825

SAMPLE DUPLICATE: 1665644

Parameter	Units	40157488005 Result	Dup Result	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<11.4	<11.4		40	
PCB-1221 (Aroclor 1221)	ug/kg	35.6J	37.9J		40	
PCB-1232 (Aroclor 1232)	ug/kg	<11.4	<11.4		40	
PCB-1242 (Aroclor 1242)	ug/kg	<11.4	<11.4		40	
PCB-1248 (Aroclor 1248)	ug/kg	218	240	10	40	
PCB-1254 (Aroclor 1254)	ug/kg	147	163	10	40	
PCB-1260 (Aroclor 1260)	ug/kg	54.9	60.5	10	40	
Decachlorobiphenyl (S)	%	88	91	4		
Tetrachloro-m-xylene (S)	%	81	86	5		

SAMPLE DUPLICATE: 1665645

Parameter	Units	40157825006 Result	Dup Result	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<11.4	<11.4		40	
PCB-1221 (Aroclor 1221)	ug/kg	<11.4	<11.4		40	
PCB-1232 (Aroclor 1232)	ug/kg	<11.4	<11.4		40	
PCB-1242 (Aroclor 1242)	ug/kg	<11.4	<11.4		40	
PCB-1248 (Aroclor 1248)	ug/kg	121	120	0	40	
PCB-1254 (Aroclor 1254)	ug/kg	73.8	73.4	1	40	
PCB-1260 (Aroclor 1260)	ug/kg	19.9J	20.7J		40	
Decachlorobiphenyl (S)	%	93	90	3		
Tetrachloro-m-xylene (S)	%	90	86	5		

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157825

QC Batch: 285467 | Analysis Method: EPA 8082A Mod
QC Batch Method: EPA 3541 | Analysis Description: 8082 GCS PCB
Associated Lab Samples: 40157825011

METHOD BLANK: 1670714 | Matrix: Tissue
Associated Lab Samples: 40157825011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<11.4	50.0	11.4	04/10/18 21:46	
PCB-1221 (Aroclor 1221)	ug/kg	<11.4	50.0	11.4	04/10/18 21:46	
PCB-1232 (Aroclor 1232)	ug/kg	<11.4	50.0	11.4	04/10/18 21:46	
PCB-1242 (Aroclor 1242)	ug/kg	<11.4	50.0	11.4	04/10/18 21:46	
PCB-1248 (Aroclor 1248)	ug/kg	<11.4	50.0	11.4	04/10/18 21:46	
PCB-1254 (Aroclor 1254)	ug/kg	<11.4	50.0	11.4	04/10/18 21:46	
PCB-1260 (Aroclor 1260)	ug/kg	<11.4	50.0	11.4	04/10/18 21:46	
Decachlorobiphenyl (S)	%	93	60-140		04/10/18 21:46	
Tetrachloro-m-xylene (S)	%	76	60-140		04/10/18 21:46	

LABORATORY CONTROL SAMPLE: 1670715

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg		<11.4			
PCB-1221 (Aroclor 1221)	ug/kg		<11.4			
PCB-1232 (Aroclor 1232)	ug/kg		<11.4			
PCB-1242 (Aroclor 1242)	ug/kg	250	220	88	70-130	
PCB-1248 (Aroclor 1248)	ug/kg		<11.4			
PCB-1254 (Aroclor 1254)	ug/kg		<11.4			
PCB-1260 (Aroclor 1260)	ug/kg		<11.4			
Decachlorobiphenyl (S)	%			90	60-140	
Tetrachloro-m-xylene (S)	%			76	60-140	

MATRIX SPIKE SAMPLE: 1670716

Parameter	Units	40157832003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<22.8		<22.8			
PCB-1221 (Aroclor 1221)	ug/kg	<22.8		<22.8			
PCB-1232 (Aroclor 1232)	ug/kg	<22.8		<22.8			
PCB-1242 (Aroclor 1242)	ug/kg	<22.8	250	312	125	70-130	
PCB-1248 (Aroclor 1248)	ug/kg	195		327			
PCB-1254 (Aroclor 1254)	ug/kg	132		139			
PCB-1260 (Aroclor 1260)	ug/kg	105		87.7J			
Decachlorobiphenyl (S)	%				101	60-140	
Tetrachloro-m-xylene (S)	%				91	60-140	

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REPORT OF LABORATORY ANALYSIS

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(920)469-2436

QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157825

SAMPLE DUPLICATE: 1670717

Parameter	Units	40157832003 Result	Dup Result	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<22.8	<22.8		40	
PCB-1221 (Aroclor 1221)	ug/kg	<22.8	<22.8		40	
PCB-1232 (Aroclor 1232)	ug/kg	<22.8	<22.8		40	
PCB-1242 (Aroclor 1242)	ug/kg	<22.8	<22.8		40	
PCB-1248 (Aroclor 1248)	ug/kg	195	252	25	40	
PCB-1254 (Aroclor 1254)	ug/kg	132	170	25	40	
PCB-1260 (Aroclor 1260)	ug/kg	105	133	24	40	
Decachlorobiphenyl (S)	%	97	103	6		
Tetrachloro-m-xylene (S)	%	86	95	10		

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157825

QC Batch: 284607 | Analysis Method: Pace Lipid
QC Batch Method: Pace Lipid | Analysis Description: LIPID
Associated Lab Samples: 40157825001

METHOD BLANK: 1665662 | Matrix: Tissue
Associated Lab Samples: 40157825001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lipid	%	<0.030	0.030	0.030	03/29/18 07:08	

MATRIX SPIKE SAMPLE: 1682554

Parameter	Units	40151613001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lipid	%	0.30		0.27			

SAMPLE DUPLICATE: 1665665

Parameter	Units	40151613001 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	0.30	0.28	7	40	

SAMPLE DUPLICATE: 1665666

Parameter	Units	40157825001 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	0.39	0.44	13	40	

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157825

QC Batch: 284721 | Analysis Method: Pace Lipid
QC Batch Method: Pace Lipid | Analysis Description: LIPID
Associated Lab Samples: 40157825002, 40157825003, 40157825004, 40157825005, 40157825006, 40157825007, 40157825008, 40157825009, 40157825010

METHOD BLANK: 1666462 | Matrix: Tissue
Associated Lab Samples: 40157825002, 40157825003, 40157825004, 40157825005, 40157825006, 40157825007, 40157825008, 40157825009, 40157825010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lipid	%	<0.030	0.030	0.030	03/30/18 06:40	

MATRIX SPIKE SAMPLE: 1682550

Parameter	Units	40157488005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lipid	%	0.65		0.54			

SAMPLE DUPLICATE: 1666465

Parameter	Units	40157488005 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	0.65	0.75	14	40	

SAMPLE DUPLICATE: 1666466

Parameter	Units	40157825006 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	0.97	0.93	4	40	

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157825

QC Batch: 285570 | Analysis Method: Pace Lipid
QC Batch Method: Pace Lipid | Analysis Description: LIPID
Associated Lab Samples: 40157825011

METHOD BLANK: 1671073 | Matrix: Tissue
Associated Lab Samples: 40157825011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lipid	%	<0.030	0.030	0.030	04/10/18 06:28	

MATRIX SPIKE SAMPLE: 1682835

Parameter	Units	40157832003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lipid	%	0.71		0.66			

SAMPLE DUPLICATE: 1671076

Parameter	Units	40157832003 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	0.71	0.86	19	40	

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(920)469-2436

QUALIFIERS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157825

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

1q Sample was re-analyzed due to incorrect dilution.

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Green Bay, WI 54302
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157825

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40157825001	**TD5-170619-01-YB-02**	EPA 3541	284454	EPA 8082A Mod	284630
40157825002	**TD2-170619-01-YP-10**	EPA 3541	284601	EPA 8082A Mod	284746
40157825003	**TD2-170619-01-YP-09**	EPA 3541	284601	EPA 8082A Mod	284746
40157825004	**TD2-170619-01-YP-08**	EPA 3541	284601	EPA 8082A Mod	284746
40157825005	**TD2-170619-01-YP-07**	EPA 3541	284601	EPA 8082A Mod	284746
40157825006	**TD2-170619-01-YP-06**	EPA 3541	284601	EPA 8082A Mod	284746
40157825007	**TD1-170619-01-YP-10**	EPA 3541	284601	EPA 8082A Mod	284746
40157825008	**TD1-170619-01-YP-09**	EPA 3541	284601	EPA 8082A Mod	284746
40157825009	**TD1-170619-01-YP-08**	EPA 3541	284601	EPA 8082A Mod	284746
40157825010	**TD1-170619-01-YP-07**	EPA 3541	284601	EPA 8082A Mod	284746
40157825011	**TD1-170619-01-YP-06**	EPA 3541	285467	EPA 8082A Mod	285591
40157825001	**TD5-170619-01-YB-02**	Pace Gender Typing	284296		
40157825002	**TD2-170619-01-YP-10**	Pace Gender Typing	284296		
40157825003	**TD2-170619-01-YP-09**	Pace Gender Typing	284296		
40157825004	**TD2-170619-01-YP-08**	Pace Gender Typing	284296		
40157825005	**TD2-170619-01-YP-07**	Pace Gender Typing	284296		
40157825006	**TD2-170619-01-YP-06**	Pace Gender Typing	284296		
40157825007	**TD1-170619-01-YP-10**	Pace Gender Typing	284296		
40157825008	**TD1-170619-01-YP-09**	Pace Gender Typing	284296		
40157825009	**TD1-170619-01-YP-08**	Pace Gender Typing	284296		
40157825010	**TD1-170619-01-YP-07**	Pace Gender Typing	284296		
40157825011	**TD1-170619-01-YP-06**	Pace Gender Typing	284296		
40157825001	**TD5-170619-01-YB-02**	Pace Lipid	284607		
40157825002	**TD2-170619-01-YP-10**	Pace Lipid	284721		
40157825003	**TD2-170619-01-YP-09**	Pace Lipid	284721		
40157825004	**TD2-170619-01-YP-08**	Pace Lipid	284721		
40157825005	**TD2-170619-01-YP-07**	Pace Lipid	284721		
40157825006	**TD2-170619-01-YP-06**	Pace Lipid	284721		
40157825007	**TD1-170619-01-YP-10**	Pace Lipid	284721		
40157825008	**TD1-170619-01-YP-09**	Pace Lipid	284721		
40157825009	**TD1-170619-01-YP-08**	Pace Lipid	284721		
40157825010	**TD1-170619-01-YP-07**	Pace Lipid	284721		
40157825011	**TD1-170619-01-YP-06**	Pace Lipid	285570		

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ANCHOR QEA

305 West Grand Avenue Montvale, NJ 07645 Ph: 201-930-9890

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: COC170619-T11-02
Sample Custodian: JER
Lab: Pace - Green Bay

JVD

Client: General Electric Company

Project: Hudson River Remedial Action Monitoring Program

COC Sample Number	Sampling Event ID	Field Sample ID	Sample Date	Sample Time	MS/LD	# CONTAINERS	Media*	Prep**	Composite	EPA Split	Total PCBs NE013_09	Total PCBs SW846 8082A	Percent Lipid (S-GB-O-068)	Fillet Weight (S-GB-L-009)	
001	TD5-170619-01	TD5-170619-01-YB-02	6/19/2017	13:30	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	1-ziplock A
002	TD2-170619-01	TD2-170619-01-YP-10	6/19/2017	14:00	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
003	TD2-170619-01	TD2-170619-01-YP-09	6/19/2017	13:59	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
004	TD2-170619-01	TD2-170619-01-YP-08	6/19/2017	13:58	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
005	TD2-170619-01	TD2-170619-01-YP-07	6/19/2017	13:57	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
006	TD2-170619-01	TD2-170619-01-YP-06	6/19/2017	13:55	☑	1	F	FLRC	☐	☐	☐	☑	☑	☑	
007	TD1-170619-01	TD1-170619-01-YP-10	6/19/2017	14:16	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
008	TD1-170619-01	TD1-170619-01-YP-09	6/19/2017	14:15	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
009	TD1-170619-01	TD1-170619-01-YP-08	6/19/2017	14:14	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
010	TD1-170619-01	TD1-170619-01-YP-07	6/19/2017	14:13	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	

OK 10/3/17 SKW

Comments:

Relinquished by:	Received by:	Relinquished by:	Received by:	Relinquished by:	Received by:
Signature [signature]	Signature [signature] (PACE)	Signature [signature] VIA FED EX →	Signature Fed Ex	Signature [signature]	Signature
Print Name Jim Ryan	Print Name A. BITTNER	Print Name A. BITTNER	Print Name	Print Name Susan Kuhlke	Print Name
Company Anchor QEA	Company PACE Temp: -0.4C	Company PACE	Company	Company Pace	Company
Date/Time 6/20/17 8:00	Date/Time 6/20/17 08:00	Date/Time 10/3/17 16:00	Date/Time 10/3/17 1020	Date/Time 10/3/17 1020	Date/Time

Date Printed: 6/19/2017 * F= FISH **F=Fillet, WH=Whole Body, O=Offal **COC TYPE:** TPCB-LIPD-PEST-MERCURY

40157825

ANCHOR QEA

305 West Grand Avenue Montvale, NJ 07645 Ph: 201-930-9890

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: COC170619-T11-02
Sample Custodian: JER
Lab: Pace - Green Bay

Client: General Electric Company
Project: Hudson River Remedial Action Monitoring Program

BK 10/2/17 SKW

COC Sample Number	Sampling Event ID	Field Sample ID	Sample Date	Sample Time	MS/LD	# CONTAINERS	Media*	Prep**	Composite	EPA Split	Total PCBs NE013_09	Total PCBs SW846 8082A	Percent Lipid (S-GB-O-068)	Fillet Weight (S-GB-L-009)	
011	TD1-170619-01	TD1-170619-01-YP-06	6/19/2017	14:12	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	Replace A

Comments:

Relinquished by:	Received by:	Relinquished by:	Received by:	Relinquished by:	Received by:
Signature [signature]	Signature [signature]	Signature [signature] VIA FEDEX	Signature [signature]	Signature [signature]	Signature
Print Name Jim Ryan	Print Name A. Bittner	Print Name A. Bittner	Print Name	Print Name Susan Kilgie	Print Name
Company Anchor QEA	Company PACE Temp: -0.4C	Company PACE	Company	Company Pace	Company
Date/Time 6/20/17 8:00	Date/Time 6/20/17 08:00	Date/Time 10/2/17 16:00	Date/Time 10/3/17 1020	Date/Time 10/3/17 1020	Date/Time

Date Printed: 6/19/2017 * F= FISH **F=Fillet, WH=Whole Body, O=Offal **COC TYPE:** TPCB-LIPD-PEST-MERCURY **Page 2 of 2**

Pace Analytical

Sample Condition Upon Receipt

Pace Analytical Services, LLC. - Green Bay WI
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Project #: **WO#: 40157825**

40157825

Client Name: General Electric

Courier: ☒ Fed Ex ☐ UPS ☐ Client ☐ Pace Other: _____

Tracking #: 4099 9470 4700

Custody Seal on Cooler/Box Present: ☒ yes ☐ no Seals intact: ☒ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ None ☐ Other _____

Thermometer Used SR68 **Type of Ice:** (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 2.1,0,0 /Corr: 2.1,0,0 **Biological Tissue is Frozen:** ☒ yes ☐ no

Temp Blank Present: ☐ yes ☒ no

Person examining contents:
Date: 10-3-17
Initials: SKW

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

				Comments:
Chain of Custody Present:	☑ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out:	☑ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished:	☑ Yes	☐ No	☐ N/A	3.
Sampler Name & Signature on COC:	☐ Yes	☑ No	☐ N/A	4.
Samples Arrived within Hold Time:	☑ Yes	☐ No	☐ N/A	5.
- VOA Samples frozen upon receipt	☐ Yes	☐ No		Date/Time:
Short Hold Time Analysis (<72hr):	☐ Yes	☑ No	☐ N/A	6.
Rush Turn Around Time Requested:	☐ Yes	☑ No	☐ N/A	7.
Sufficient Volume:	☑ Yes	☐ No	☐ N/A	8.
Correct Containers Used:	☑ Yes	☐ No	☐ N/A	9.
-Pace Containers Used:	☐ Yes	☑ No	☐ N/A	
-Pace IR Containers Used:	☐ Yes	☐ No	☑ N/A	
Containers Intact:	☑ Yes	☐ No	☐ N/A	10.
Filtered volume received for Dissolved tests	☐ Yes	☐ No	☑ N/A	11.
Sample Labels match COC:	☑ Yes	☐ No	☐ N/A	12.
-Includes date/time/ID/Analysis Matrix: B				
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	☐ Yes	☐ No	☑ N/A	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	☐ Yes	☐ No	☑ N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	☐ Yes	☑ No		Initial when completed / Lab Std #ID of preservative / Date/Time:
Headspace in VOA Vials (>6mm):	☐ Yes	☐ No	☑ N/A	14.
Trip Blank Present:	☐ Yes	☐ No	☑ N/A	15.
Trip Blank Custody Seals Present	☐ Yes	☐ No	☑ N/A	
Pace Trip Blank Lot # (if purchased): _____				

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: _____ Date/Time: _____

Comments/ Resolution:

Tracking # 4099 9470 4696
4099 9470 4685
4099 9470 4711

10-3-17 SKW

Project Manager Review: AL for TN **Date:** 10-3-17

F-GB-C-031-Rev.04 (12Dec2016) SCUR.xls
Pace Analytical Services LLC. - Green Bay WI

CASE NARRATIVE - PCB ANALYSIS

Lab Report Number (SDG): 40157825
Client: GENERAL ELECTRIC COMPANY
Project Name: HUDSON RIVER REMEDIAL ACTION MONITORING PROGRAM
Project Number: N/A

1. RECEIPT

Samples were received on ice at or below 2°C. Following homogenization, tissue samples were kept frozen at less than -10°C until time of preparation for analysis.

2. HOLDING TIMES

A. Sample Preparation: All method and QAPP specified holding times were met.
B. Sample Analysis: All method and QAPP specified holding times were met.

3. METHOD

Preparation: SW-846 3541
Analysis: SW-846 8082A Modified

4. PREPARATION

Sample preparation proceeded normally. All samples went through florisil and acid clean-up procedures prior to analysis.

5. ANALYSIS

A. Calibration:
1. **Initial verification:** All method acceptance criteria were met.
2. **Continuing verification:** All method acceptance criteria were met.

B. Blanks:
1. **Method:** All acceptance criteria were met for the associated method blanks.

C. Surrogates: All QAPP specified acceptance criteria were met.

D. Spikes:
1. **Lab Control Spike (LCS):** The control spikes were fortified with Aroclor 1242 and met the QAPP specified accuracy criteria.
2. **Matrix Spike (MS):** Batch QC was analyzed with this SDG and one portion of each parent sample was fortified with Aroclor 1242. The QAPP specified accuracy criteria were met.

E. Samples: Sample analyses proceeded normally. ZB-1ms is the quantitation column.

F. Sample Duplicate: Samples TD5-170619-01-YB-02 and TD2-170619-01-YP-06 were designated as the duplicates for this SDG. The QAPP specified precision criteria were met. Batch duplicates were also analyzed with this SDG. Duplicate results are not evaluated below the reporting limit.

G. Dilutions:

Sample ID	Reason for dilution
TD2-170619-01-YP-07	To bring Aroclors within instrument calibration range
TD1-170619-01-YP-10	To bring Aroclors within instrument calibration range
TD1-170619-01-YP-09	To bring Aroclors within instrument calibration range
TD1-170619-01-YP-08	To bring Aroclors within instrument calibration range
TD1-170619-01-YP-07	To bring Aroclors within instrument calibration range

H. Reanalysis: Samples TD2-170619-01-YP-07 and TD1-170619-01-YP-07 were initially analyzed straight based on screener data. Upon analysis, the samples were found to require reanalysis at a dilution to bring individual Aroclor peaks within instrument calibration range. The samples were reported with the “1q” data qualifier on the final report to note the occurrence.

I. Comments: Due to rounding differences in the software programs used, the values found on the quantitation reports may not match the values found on the sample Form 1s.

I certify that this data package is in compliance with the terms and conditions agreed to by **Pace Analytical Services, LLC**, and by the client, both technically and for completeness, except for the conditions detailed above. The Laboratory Manager or his designee, as verified by the following signature, has authorized release of the data contained in this completed data package:

Signed: Leigh A Begalske Date: 05/18/18

Name: Leigh A. Begalske Position: Quality Assurance Auditor

PCB - FORM II SVOA-1
TISSUE SEMI-VOLATILE SURROGATE RECOVERY

Lab Name: Pace Analytical - Green Bay SDG No.: 40157825 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ

LAB SAMPLE ID	SAMPLE NAME	DCBP	TCMX
1664793	1664793BLANK	89	76
1664794	1664794LCS	92	81
1664809	1664809DUP	93	85
40157825001	TD5-170619-01-YB-02	90	86

	QC LIMITS
(DCBP) = Decachlorobiphenyl (S)	(60-140)
(TCMX) = Tetrachloro-m-xylene (S)	(60-140)

* Values outside of QC Limits

PCB - FORM II SVOA-2
TISSUE SEMI-VOLATILE SURROGATE RECOVERY

Lab Name: Pace Analytical - Green Bay SDG No.: 40157825 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ

LAB SAMPLE ID	SAMPLE NAME	DCBP	TCMX
1665641	1665641BLANK	91	74
1665642	1665642LCS	93	77
1665645	1665645DUP	90	86
40157825002	TD2-170619-01-YP-10	99	95
40157825003	TD2-170619-01-YP-09	93	87
40157825004	TD2-170619-01-YP-08	91	89
40157825005	TD2-170619-01-YP-07	95	89
40157825006	TD2-170619-01-YP-06	93	90
40157825007	TD1-170619-01-YP-10	92	85
40157825008	TD1-170619-01-YP-09	95	84
40157825009	TD1-170619-01-YP-08	113	94
40157825010	TD1-170619-01-YP-07	96	89

	QC LIMITS
(DCBP) = Decachlorobiphenyl (S)	(60-140)
(TCMX) = Tetrachloro-m-xylene (S)	(60-140)

* Values outside of QC Limits

PCB - FORM II SVOA-3
TISSUE SEMI-VOLATILE SURROGATE RECOVERY

Lab Name: Pace Analytical - Green Bay SDG No.: 40157825 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ

LAB SAMPLE ID	SAMPLE NAME	DCBP	TCMX
1670714	1670714BLANK	93	76
1670715	1670715LCS	90	76
40157825011	TD1-170619-01-YP-06	97	80

	QC LIMITS
(DCBP) = Decachlorobiphenyl (S)	(60-140)
(TCMX) = Tetrachloro-m-xylene (S)	(60-140)

* Values outside of QC Limits

PCB - FORM III SVOA-1

TISSUE LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 03/28/2018

Instrument: 40GCSJ

Lab File ID: 033018.B\033018011.D

Lab Sample ID: 1664794LCS

Date Analyzed (1): 03/30/2018

LCS Lot No: 182336

SDG No.: 40157825

COMPOUND	AMOUNT ADDED (ug/kg)	LCS CONCENTRATION (ug/kg)	LCS %REC	QC LIMITS REC.
PCB-1242 (Aroclor 1242)	250	236	95	70-130

Spike Recovery: 0 out of 1 outside limits.

PCB - FORM III SVOA-1

TISSUE LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 03/29/2018

Instrument: 40GCSJ

Lab File ID: 033018.B\033018036.D

Lab Sample ID: 1665642LCS

Date Analyzed (1): 03/31/2018

LCS Lot No: 192096

SDG No.: 40157825

COMPOUND	AMOUNT ADDED (ug/kg)	LCS CONCENTRATION (ug/kg)	LCS %REC	QC LIMITS REC.
PCB-1242 (Aroclor 1242)	250	235	94	70-130

Spike Recovery: 0 out of 1 outside limits.

PCB - FORM III SVOA-1

TISSUE LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 04/09/2018

Instrument: 40GCSJ

Lab File ID: 041018.B\041018037.D

Lab Sample ID: 1670715LCS

Date Analyzed (1): 04/10/2018

LCS Lot No: 192096

SDG No.: 40157825

COMPOUND	AMOUNT ADDED (ug/kg)	LCS CONCENTRATION (ug/kg)	LCS %REC	QC LIMITS REC.
PCB-1242 (Aroclor 1242)	250	220	88	70-130

Spike Recovery: 0 out of 1 outside limits.

PCB - FORM III SVOA-1

TISSUE SEMI-VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 03/28/2018

Instrument: 40GCSJ

Parent Sample ID: 40151613001

Matrix Spike - Sample No: 1664795MS

Date Analyzed (1): 03/30/2018

Lab File ID: 033018.B\033018012.D

SDG No.: 40157825

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS %REC	QC LIMITS REC.
PCB-1242 (Aroclor 1242)	251	<11.4	238	95	70-130

Spike Recovery: 0 out of 1 outside limits.

PCB - FORM III SVOA-1

TISSUE SEMI-VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 03/29/2018

Instrument: 40GCSJ

Parent Sample ID: 40157488005

Matrix Spike - Sample No: 1665643MS

Date Analyzed (1): 03/31/2018

Lab File ID: 033018.B\033018037.D

SDG No.: 40157825

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS %REC	QC LIMITS REC.
PCB-1242 (Aroclor 1242)	250	<11.4	284	113	70-130

Spike Recovery: 0 out of 1 outside limits.

PCB - FORM III SVOA-1

TISSUE SEMI-VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 04/09/2018

Instrument: 40GCSJ

Parent Sample ID: 40157832003

Matrix Spike - Sample No: 1670716MS

Date Analyzed (1): 04/11/2018

Lab File ID: 041018.B\041018060.D

SDG No.: 40157825

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS %REC	QC LIMITS REC.
PCB-1242 (Aroclor 1242)	250	<22.8	312	125	70-130

Spike Recovery: 0 out of 1 outside limits.

PCB - FORM III SVOA-1

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 03/28/2018

Instrument 40GCSJ

Lab Sample ID: 40151613001

Duplicate Sample No: 40151613001DUP

Date Analyzed: 03/30/2018

Lab File ID: 033018.B\033018018.D

SDG No.: 40157825

COMPOUND	SAMPLE CONCENTRATION (ug/kg)	DUPLICATE CONCENTRATION (ug/kg)	RPD	RPD LIMITS
PCB-1016 (Aroclor 1016)	<11.4	<11.4		0-40
PCB-1221 (Aroclor 1221)	<11.4	<11.4		0-40
PCB-1232 (Aroclor 1232)	<11.4	<11.4		0-40
PCB-1242 (Aroclor 1242)	<11.4	<11.4		0-40
PCB-1248 (Aroclor 1248)	11.8J	11.4J		0-40
PCB-1254 (Aroclor 1254)	16.9J	16.6J		0-40
PCB-1260 (Aroclor 1260)	39.1J	36.6J		0-40

RPD: ____ out of __0__ outside limits.

PCB - FORM III SVOA-2

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 03/28/2018

Instrument 40GCSJ

Lab Sample ID: TD5-170619-01-YB-02

Duplicate Sample No: 40157825001DUP

Date Analyzed: 03/30/2018

Lab File ID: 033018.B\033018034.D

SDG No.: 40157825

COMPOUND	SAMPLE CONCENTRATION (ug/kg)	DUPLICATE CONCENTRATION (ug/kg)	RPD	RPD LIMITS
PCB-1016 (Aroclor 1016)	<11.4	<11.4		0-40
PCB-1221 (Aroclor 1221)	<11.4	<11.4		0-40
PCB-1232 (Aroclor 1232)	<11.4	<11.4		0-40
PCB-1242 (Aroclor 1242)	<11.4	<11.4		0-40
PCB-1248 (Aroclor 1248)	272	344	23	0-40
PCB-1254 (Aroclor 1254)	114	147	25	0-40
PCB-1260 (Aroclor 1260)	20.1J	26.4J		0-40

RPD: 0 out of 2 outside limits.

PCB - FORM III SVOA-1

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 03/29/2018

Instrument 40GCSJ

Lab Sample ID: 40157488005

Duplicate Sample No: 40157488005DUP

Date Analyzed: 03/31/2018

Lab File ID: 033018.B\033018045.D

SDG No.: 40157825

COMPOUND	SAMPLE CONCENTRATION (ug/kg)	DUPLICATE CONCENTRATION (ug/kg)	RPD	RPD LIMITS
PCB-1016 (Aroclor 1016)	<11.4	<11.4		0-40
PCB-1221 (Aroclor 1221)	35.6J	37.9J		0-40
PCB-1232 (Aroclor 1232)	<11.4	<11.4		0-40
PCB-1242 (Aroclor 1242)	<11.4	<11.4		0-40
PCB-1248 (Aroclor 1248)	218	240	10	0-40
PCB-1254 (Aroclor 1254)	147	163	10	0-40
PCB-1260 (Aroclor 1260)	54.9	60.5	10	0-40

RPD: 0 out of 3 outside limits.

PCB - FORM III SVOA-2

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 03/29/2018

Instrument 40GCSJ

Lab Sample ID: TD2-170619-01-YP-06

Duplicate Sample No: 40157825006DUP

Date Analyzed: 03/31/2018

Lab File ID: 033018.B\033018058.D

SDG No.: 40157825

COMPOUND	SAMPLE CONCENTRATION (ug/kg)	DUPLICATE CONCENTRATION (ug/kg)	RPD	RPD LIMITS
PCB-1016 (Aroclor 1016)	<11.4	<11.4		0-40
PCB-1221 (Aroclor 1221)	<11.4	<11.4		0-40
PCB-1232 (Aroclor 1232)	<11.4	<11.4		0-40
PCB-1242 (Aroclor 1242)	<11.4	<11.4		0-40
PCB-1248 (Aroclor 1248)	121	120	0	0-40
PCB-1254 (Aroclor 1254)	73.8	73.4	1	0-40
PCB-1260 (Aroclor 1260)	19.9J	20.7J		0-40

RPD: 0 out of 2 outside limits.

PCB - FORM III SVOA-1

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 04/09/2018

Instrument 40GCSJ

Lab Sample ID: 40157832003

Duplicate Sample No: 40157832003DUP

Date Analyzed: 04/11/2018

Lab File ID: 041018.B\041018061.D

SDG No.: 40157825

COMPOUND	SAMPLE CONCENTRATION (ug/kg)	DUPLICATE CONCENTRATION (ug/kg)	RPD	RPD LIMITS
PCB-1016 (Aroclor 1016)	<22.8	<22.8		0-40
PCB-1221 (Aroclor 1221)	<22.8	<22.8		0-40
PCB-1232 (Aroclor 1232)	<22.8	<22.8		0-40
PCB-1242 (Aroclor 1242)	<22.8	<22.8		0-40
PCB-1248 (Aroclor 1248)	195	252	25	0-40
PCB-1254 (Aroclor 1254)	132	170	25	0-40
PCB-1260 (Aroclor 1260)	105	133	24	0-40

RPD: 0 out of 3 outside limits.

SAMPLE NO.

1664793BLANK

PCB - FORM IV SVOA-1
SEMI-VOLATILE METHOD BLANK SUMMARY

Lab Name: Pace Analytical - Green Bay SDG No.: 40157825 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ Matrix: Tissue Lab Sample ID: 1664793

Lab File ID: 033018.B\033018010.D Date Analyzed: 03/30/2018 Time:17:22

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	ANALYZED
1664794LCS	1664794	033018.B\033018011.D	03/30/2018 17:38
1664796DUP	1664796	033018.B\033018018.D	03/30/2018 19:29
TD5-170619-01-YB-02	40157825001	033018.B\033018033.D	03/30/2018 23:27
1664809DUP	1664809	033018.B\033018034.D	03/30/2018 23:43

SAMPLE NO.

1665641BLANK

PCB - FORM IV SVOA-1
SEMI-VOLATILE METHOD BLANK SUMMARY

Lab Name: Pace Analytical - Green Bay SDG No.: 40157825 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ Matrix: Tissue Lab Sample ID: 1665641

Lab File ID: 033018.B\033018035.D Date Analyzed: 03/30/2018 Time:23:59

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	ANALYZED
1665642LCS	1665642	033018.B\033018036.D	03/31/2018 00:15
1665644DUP	1665644	033018.B\033018045.D	03/31/2018 02:37
TD2-170619-01-YP-10	40157825002	033018.B\033018051.D	03/31/2018 04:12
TD2-170619-01-YP-09	40157825003	033018.B\033018054.D	03/31/2018 05:00
TD2-170619-01-YP-08	40157825004	033018.B\033018055.D	03/31/2018 05:16
TD2-170619-01-YP-06	40157825006	033018.B\033018057.D	03/31/2018 05:48
1665645DUP	1665645	033018.B\033018058.D	03/31/2018 06:04
TD1-170619-01-YP-10	40157825007	033018.B\033018059.D	03/31/2018 06:20
TD1-170619-01-YP-09	40157825008	033018.B\033018060.D	03/31/2018 06:35
TD1-170619-01-YP-08	40157825009	033018.B\033018061.D	03/31/2018 06:51
TD2-170619-01-YP-07	40157825005	040318.B\040318006.D	04/03/2018 15:32
TD1-170619-01-YP-07	40157825010	040318.B\040318007.D	04/03/2018 15:48

SAMPLE NO.

1670714BLANK

PCB - FORM IV SVOA-1
SEMI-VOLATILE METHOD BLANK SUMMARY

Lab Name: Pace Analytical - Green Bay SDG No.: 40157825 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ Matrix: Tissue Lab Sample ID: 1670714

Lab File ID: 041018.B\041018036.D Date Analyzed: 04/10/2018 Time:21:46

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	ANALYZED
1670715LCS	1670715	041018.B\041018037.D	04/10/2018 22:02
TD1-170619-01-YP-06	40157825011	041018.B\041018056.D	04/11/2018 03:03
1670717DUP	1670717	041018.B\041018061.D	04/11/2018 04:22

SAMPLE NO.

TD5-170619-01-YB-02

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/03/2017 10:20
Matrix: Tissue SDG No.: 40157825
Date Extracted: 03/28/2018 08:09
Lab Sample ID: 40157825001
Date Analyzed: 03/30/2018 23:27
Lab File ID: 033018.B\033018033.D
Initial wt/vol: 9.9773 g Final wt/vol: 5 mL Dilution: 1
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<11.4	U
11104-28-2	PCB-1221 (Aroclor 1221)	<11.4	U
11141-16-5	PCB-1232 (Aroclor 1232)	<11.4	U
53469-21-9	PCB-1242 (Aroclor 1242)	<11.4	U
12672-29-6	PCB-1248 (Aroclor 1248)	272	
11097-69-1	PCB-1254 (Aroclor 1254)	114	
11096-82-5	PCB-1260 (Aroclor 1260)	20.1	J
1336-36-3	PCB, Total	406	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018033.D
Lab Smp Id: 40157825001 Client Smp ID: TD5-170619-01-YB-02
Inj Date : 30-MAR-2018 23:27
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157825001,
Misc Info : 17591,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 05-Apr-2018 14:48 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 33
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndV

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.977	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.028	9748	8790	0.902	0.01		
1.151	10675	7792	0.730	0.01		
1.182	21956	14700	0.670	0.03		
1.537	15812	10184	0.644	0.02		
1.771	9712	6962	0.717	0.01		
2.197	47859	29630	0.619	0.08		
2.294	11428	13069	1.144	0.01		
2.410	30990	20988	0.677	0.05		
2.484	10579516	10343573	0.978	18.66	$ 2 Tetrachloro-m-xylene	
2.787	28804	20651	0.717	0.04		
2.851	41113	30464	0.741	0.07		
2.975	35528	21683	0.610	0.06		
3.019	52395	51780	0.988	0.09		
3.055	36435	34001	0.933	0.06		
3.318	43492	39507	0.908	0.07		
3.342	41741	37028	0.887	0.07		
3.401	15609	13073	0.838	0.02		
3.434	33587	30160	0.898	0.05		
3.519	232042	216617	0.934	0.39		
3.644	29778	24756	0.831	0.05		
3.730	188419	182878	0.971	0.32		
3.756	35256	41558	1.179	0.06		
3.826	1820506	1340865	0.737	3.12		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.938	84882	56543	0.666	0.14	
3.993	295553	282798	0.957	0.50	
4.058	132460	109497	0.827	0.22	
4.135	24156	17089	0.707	0.04	
4.215	1740668	1609449	0.925	2.99	
4.260	1648182	1552890	0.942	2.83	6 Aroclor 1248
4.291	1985709	1615377	0.814	3.41	
4.417	1100670	1055754	0.959	1.89	
4.452	604614	554208	0.917	1.03	
4.545	1619906	1511171	0.933	2.78	6 Aroclor 1248
4.589	91883	77141	0.840	0.15	
4.615	57171	45005	0.787	0.09	
4.680	66089	57242	0.866	0.11	
4.736	95197	60841	0.639	0.16	
4.768	300757	283295	0.942	0.51	
4.812	1369872	1309233	0.956	2.35	6 Aroclor 1248
4.847	760291	737958	0.971	1.30	
4.878	3119529	2194428	0.703	5.36	6 Aroclor 1248
4.956	282537	235332	0.833	0.48	
5.035	1178885	1091436	0.926	2.02	6 Aroclor 1248
5.100	600744	525047	0.874	1.03	
5.160	1253575	1098885	0.877	2.15	7 Aroclor 1254
5.211	1105767	980854	0.887	1.90	
5.282	118949	104800	0.881	0.20	
5.308	204463	169528	0.829	0.35	
5.362	430893	358599	0.832	0.74	
5.405	969721	845306	0.872	1.66	7 Aroclor 1254
5.446	860147	723533	0.841	1.47	
5.509	1709477	1468921	0.859	2.93	7 Aroclor 1254
5.577	54971	42661	0.776	0.09	
5.604	85293	60317	0.707	0.14	
5.675	296242	266535	0.900	0.50	
5.712	220284	164699	0.748	0.37	
5.740	313555	227058	0.724	0.53	
5.789	1950665	1533955	0.786	3.35	
5.887	204814	128965	0.630	0.35	
5.930	106349	84408	0.794	0.18	
5.993	297153	277765	0.935	0.51	
6.023	1018002	907899	0.892	1.74	7 Aroclor 1254
6.055	828025	714897	0.863	1.42	
6.166	296572	204623	0.690	0.50	
6.226	222277	117533	0.529	0.38	
6.299	1579029	1313670	0.832	2.71	7 Aroclor 1254
6.333	169891	153595	0.904	0.29	
6.373	89080	68719	0.771	0.15	
6.432	144163	103421	0.717	0.24	
6.509	459098	421541	0.918	0.78	
6.535	421100	306429	0.728	0.72	
6.603	69053	49864	0.722	0.11	
6.660	36013	27702	0.769	0.06	
6.716	159100	133606	0.840	0.27	
6.757	104087	86841	0.834	0.17	
6.800	218977	194603	0.889	0.37	
6.839	91495	65344	0.714	0.15	
6.910	13562	14889	1.098	0.02	
6.941	119491	104544	0.875	0.20	
7.003	371405	348973	0.940	0.63	8 Aroclor 1260

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.033	46810	40707	0.870	0.08	
7.118	13757	14296	1.039	0.02	
7.249	188891	169459	0.897	0.32	8 Aroclor 1260
7.279	73179	59141	0.808	0.12	
7.331	16228	11394	0.702	0.02	
7.389	138544	121103	0.874	0.23	
7.441	129580	111769	0.863	0.22	8 Aroclor 1260
7.547	14092	12570	0.892	0.02	
7.689	36738	35149	0.957	0.06	
7.725	60653	49739	0.820	0.10	
7.806	49375	29323	0.594	0.08	
7.899	103955	89717	0.863	0.17	8 Aroclor 1260
7.957	18310	11249	0.614	0.03	
8.048	78541	71042	0.905	0.13	
8.142	12151	7020	0.578	0.02	
8.273	134616	115374	0.857	0.23	
8.378	13299	11422	0.859	0.02	
8.570	9906286	8236424	0.831	17.02	$ 12 Decachlorobiphenyl
8.720	10873	10632	0.978	0.01	
9.165	18221	15925	0.874	0.03	
	58188994	50621380		100.000	

Total unknown % area = 36

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018033.D
Lab Smp Id: 40157825001 Client Smp ID: TD5-170619-01-YB-02
Inj Date : 30-MAR-2018 23:27
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157825001,
Misc Info : 17591,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 05-Apr-2018 14:48 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 33
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndV

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.977	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	10579516	0.08581	43			
3 Aroclor 1242					CAS #: 53469-21-9			
Operator disabled compound identification.								
4 Aroclor 1232					CAS #: 1114-16-5			
Operator disabled compound identification.								

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	1648181	0.70346	350	0.00- 20.00	100.00(M)	BA
4.544	4.546	-0.002	1619906	0.39031	200	0.00- 20.00	98.28	BA
4.811	4.812	-0.001	1369871	0.67479	340	0.00- 20.00	83.11	BA
4.877	4.879	-0.002	3119529	0.61927	310	0.00- 20.00	189.27	BA
5.035	5.038	-0.003	1178884	0.32851	160	0.00- 20.00	71.53	BA
Average of Peak Concentrations =					270			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	1253575	0.23945	120	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	969721	0.22546	110	0.00- 20.00	77.36	BA
5.509	5.510	-0.001	1709477	0.22012	110	0.00- 20.00	136.37	BA
6.023	6.027	-0.004	1018001	0.20905	100	0.00- 20.00	81.21	BA
6.299	6.299	0.000	1579029	0.24266	120	0.00- 20.00	125.96	BA
Average of Peak Concentrations =					110			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
7.002	7.006	-0.004	371405	0.03709	18	0.00- 20.00	23.52	BA
7.249	7.251	-0.002	188890	0.03952	20	0.00- 20.00	11.96	BA
7.441	7.443	-0.002	129580	0.04445	22	0.00- 20.00	8.21	BA
7.899	7.901	-0.002	103954	0.03940	20	0.00- 20.00	6.58	BA
Average of Peak Concentrations =					20			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	9906285	0.09042	45			

QC Flag Legend

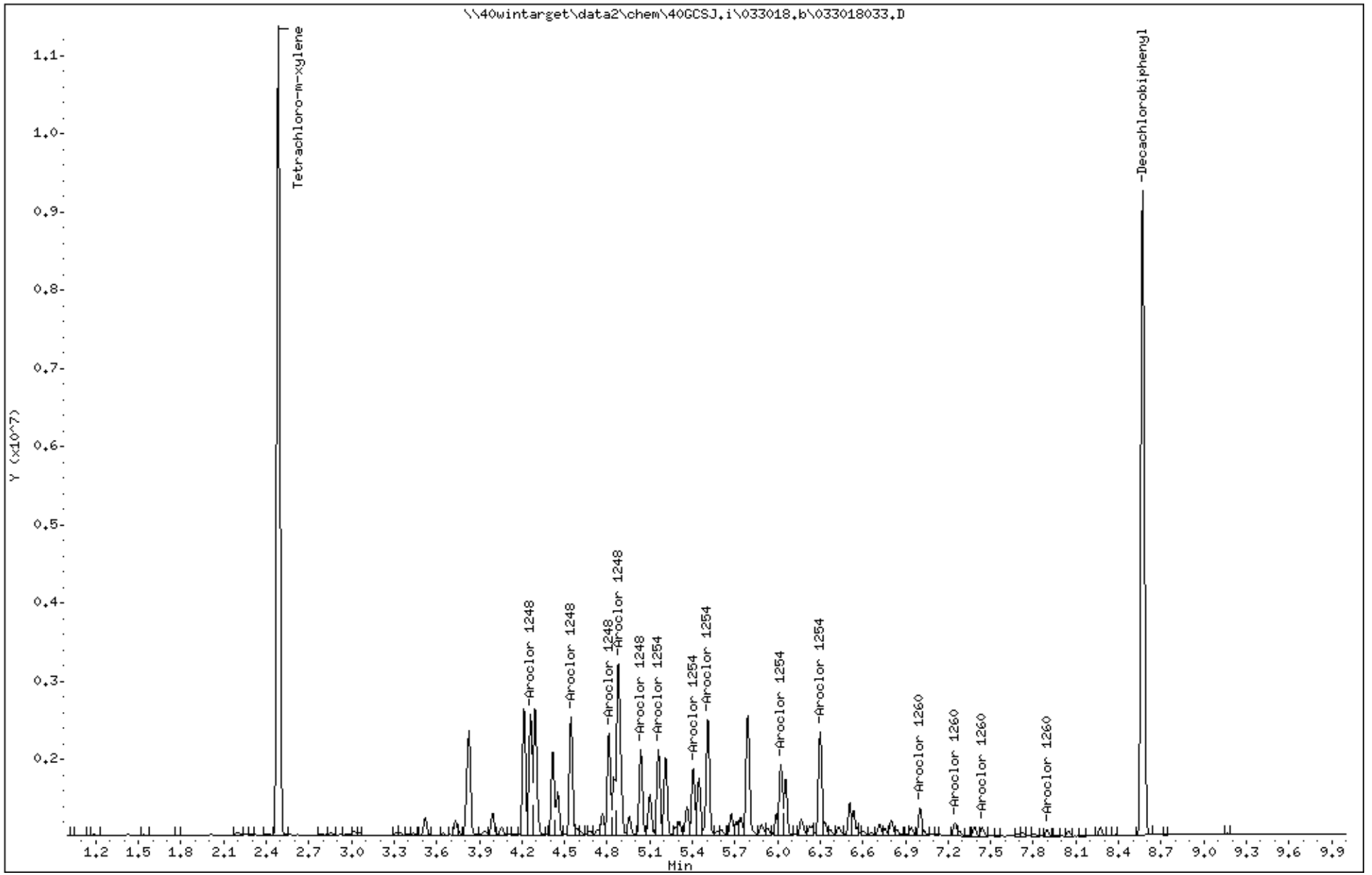
M - Compound response manually integrated.

Review Codes Legend

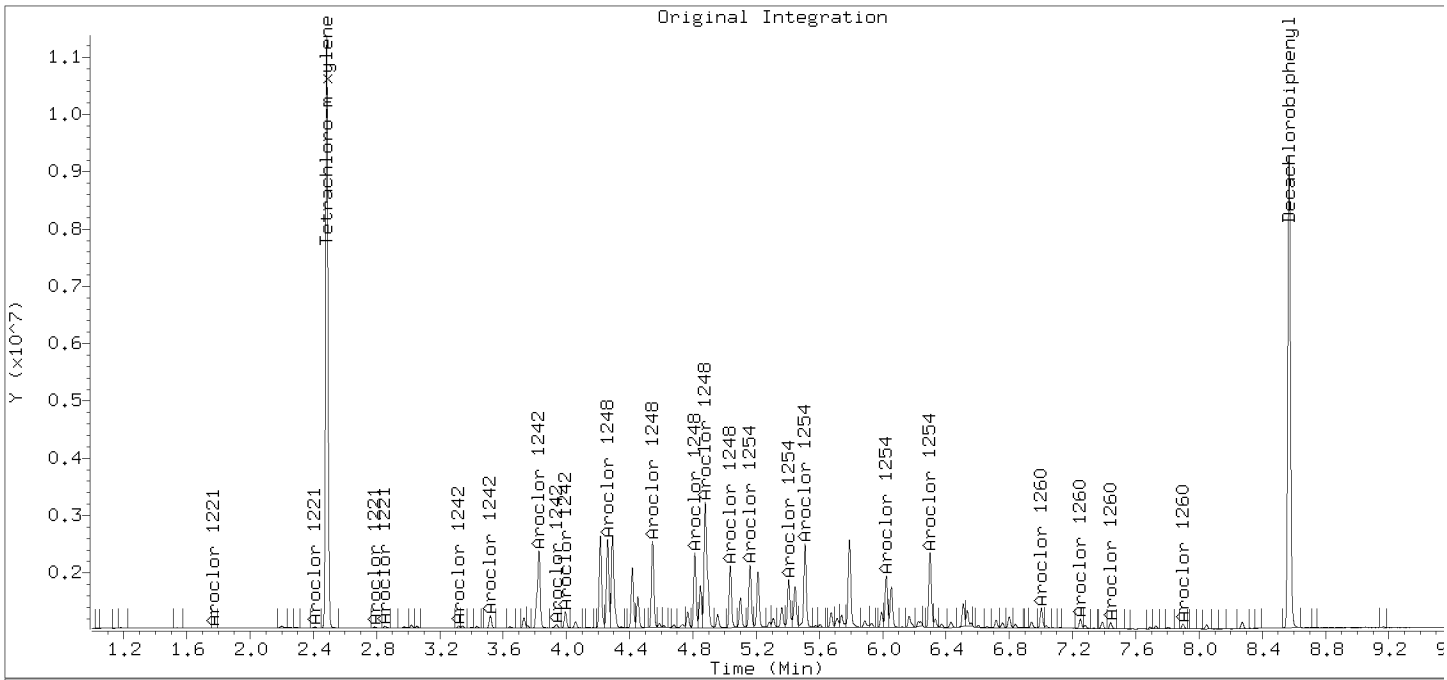
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

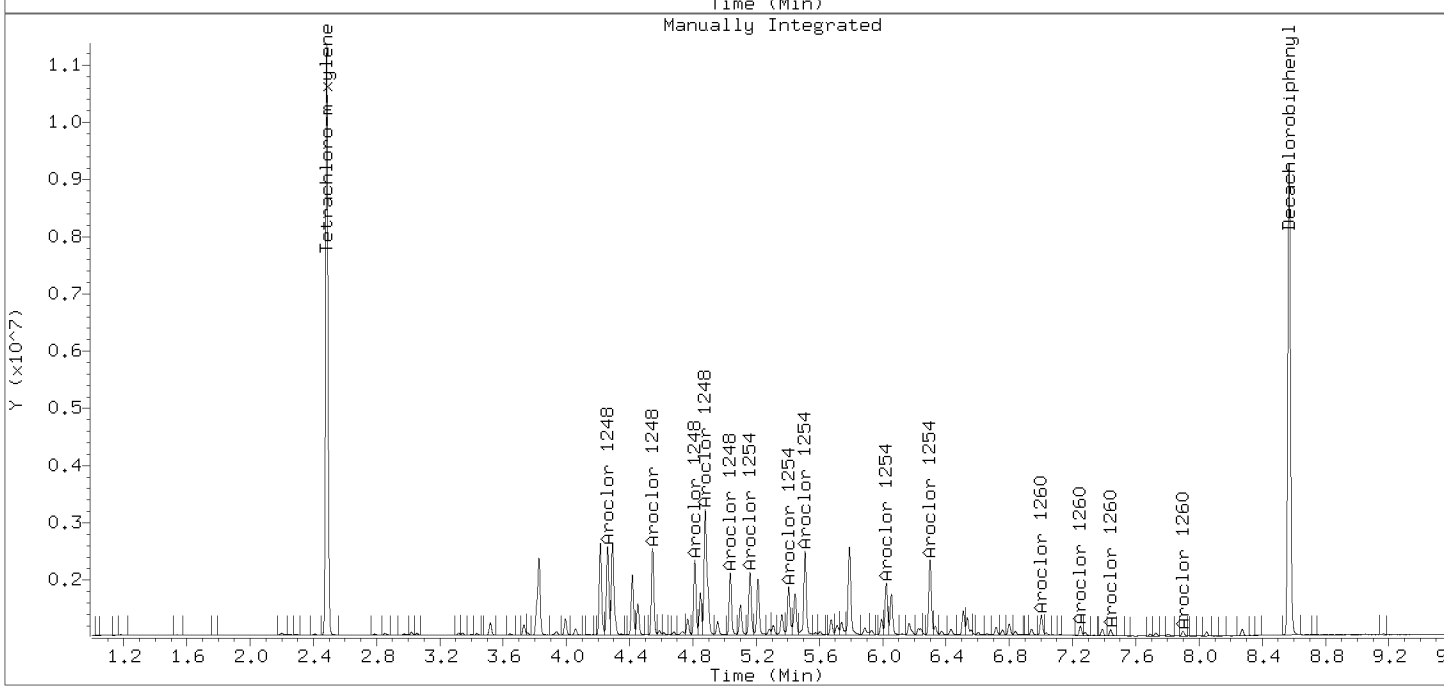
Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018033.D
Date : 30-MAR-2018 23:27
Client ID: TD5-170619-01-YB-02
Sample Info: 40157825001,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

Instrument: 40GCSJ.i
Operator: BLM
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b/033018033.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 30-MAR-2018 23:27 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157825001





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	43491	0	
Aroclor 1016	43491	0	
Aroclor 1016	43491	0	
Aroclor 1016	43491	0	
Aroclor 1016	43491	0	
Aroclor 1221	9712	0	
Aroclor 1221	9712	0	
Aroclor 1221	9712	0	
Aroclor 1221	9712	0	
Aroclor 1221	9712	0	
Aroclor 1232	41112	0	
Aroclor 1232	41112	0	
Aroclor 1232	41112	0	
Aroclor 1232	41112	0	

Aroclor 1232	41112	0	
Aroclor 1242	43491	0	
Aroclor 1242	43491	0	
Aroclor 1242	43491	0	
Aroclor 1242	43491	0	
Aroclor 1242	43491	0	
Aroclor 1248	1637440	1648181	BA
Aroclor 1248	1637440	1648181	BA
Aroclor 1248	1637440	1648181	BA
Aroclor 1248	1637440	1648181	BA
Aroclor 1248	1637440	1648181	BA
Aroclor 1254	1231629	1253575	BA
Aroclor 1254	1231629	1253575	BA
Aroclor 1254	1231629	1253575	BA
Aroclor 1254	1231629	1253575	BA
Aroclor 1254	1231629	1253575	BA
Aroclor 1260	1539228	0	BA
Aroclor 1260	1539228	0	BA
Aroclor 1260	1539228	0	BA
Aroclor 1260	1539228	0	BA
Aroclor 1260	1539228	0	BA
Tetrachloro-m-xylene	10579516	10579516	
Decachlorobiphenyl	9906285	9906285	

==========

SAMPLE NO.

TD2-170619-01-YP-10

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/03/2017 10:20
Matrix: Tissue SDG No.: 40157825
Date Extracted: 03/29/2018 07:15
Lab Sample ID: 40157825002
Date Analyzed: 03/31/2018 04:12
Lab File ID: 033018.B\033018051.D
Initial wt/vol: 9.9859 g Final wt/vol: 5 mL Dilution: 1
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<11.4	U
11104-28-2	PCB-1221 (Aroclor 1221)	<11.4	U
11141-16-5	PCB-1232 (Aroclor 1232)	<11.4	U
53469-21-9	PCB-1242 (Aroclor 1242)	<11.4	U
12672-29-6	PCB-1248 (Aroclor 1248)	176	
11097-69-1	PCB-1254 (Aroclor 1254)	119	
11096-82-5	PCB-1260 (Aroclor 1260)	20.0	J
1336-36-3	PCB, Total	315	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018051.D
Lab Smp Id: 40157825002 Client Smp ID: TD2-170619-01-YP-10
Inj Date : 31-MAR-2018 04:12
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157825002,
Misc Info : 17602,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 06-Apr-2018 14:21 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 51
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndV

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.986	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.097	9726	6202	0.638	0.01		
1.430	13890	10167	0.732	0.02		
1.805	16191	15024	0.928	0.02		
2.200	56708	33917	0.598	0.10		
2.295	13021	10182	0.782	0.02		
2.410	202903	152755	0.753	0.36		
2.485	11744003	10977059	0.935	21.84	$ 2 Tetrachloro-m-xylene	
2.786	24929	22865	0.917	0.04		
2.854	36695	26053	0.710	0.06		
2.975	66899	30412	0.455	0.12		
3.020	40770	39722	0.974	0.07		
3.054	109249	103260	0.945	0.19		
3.318	45962	43125	0.938	0.08		
3.344	42003	37120	0.884	0.07		
3.400	15025	16219	1.079	0.02		
3.433	69254	66161	0.955	0.12		
3.520	112908	100769	0.892	0.20		
3.648	15227	12511	0.822	0.02		
3.692	19316	18247	0.945	0.03		
3.732	59612	61228	1.027	0.10		
3.756	46702	40676	0.871	0.08		
3.826	708349	472451	0.667	1.28		
3.938	94709	64483	0.681	0.17		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.993	163353	152768	0.935	0.29	
4.058	81718	67892	0.831	0.14	
4.136	14942	13222	0.885	0.02	
4.214	875606	799064	0.913	1.59	
4.260	926186	884098	0.955	1.68	6 Aroclor 1248
4.292	911844	769450	0.844	1.65	
4.416	602014	574791	0.955	1.09	
4.452	463392	407160	0.879	0.84	
4.545	930798	871757	0.937	1.69	6 Aroclor 1248
4.589	49232	47985	0.975	0.08	
4.616	145022	119728	0.826	0.26	
4.681	63521	53444	0.841	0.11	
4.731	92565	60149	0.650	0.16	
4.767	238623	224520	0.941	0.43	
4.812	894212	865742	0.968	1.62	6 Aroclor 1248
4.846	778108	772733	0.993	1.41	
4.878	2125797	1404837	0.661	3.86	6 Aroclor 1248
4.957	314543	276089	0.878	0.57	
5.037	991265	930288	0.938	1.80	6 Aroclor 1248
5.099	604938	499231	0.825	1.09	
5.161	1180974	1037132	0.878	2.14	7 Aroclor 1254
5.211	1057462	964925	0.912	1.92	
5.282	110600	103071	0.932	0.20	
5.309	232478	193469	0.832	0.42	
5.362	517182	446165	0.863	0.93	
5.406	970004	894107	0.922	1.76	7 Aroclor 1254
5.446	1049815	886519	0.844	1.90	
5.478	91212	87711	0.962	0.16	
5.509	1660684	1457222	0.877	3.01	7 Aroclor 1254
5.575	55535	43453	0.782	0.10	
5.603	344088	291773	0.848	0.62	
5.675	286616	254401	0.888	0.52	
5.711	231222	166516	0.720	0.41	
5.740	330703	241622	0.731	0.60	
5.790	1952725	1585191	0.812	3.54	
5.839	99834	84824	0.850	0.18	
5.887	242307	168356	0.695	0.44	
5.930	123216	89415	0.726	0.22	
5.993	241836	220823	0.913	0.43	
6.023	1292477	1121053	0.867	2.34	7 Aroclor 1254
6.054	949453	825091	0.869	1.72	
6.166	297532	187491	0.630	0.54	
6.227	109648	125581	1.145	0.19	
6.241	193834	148526	0.766	0.35	
6.298	1685945	1407311	0.835	3.06	7 Aroclor 1254
6.332	223982	201820	0.901	0.40	
6.373	111101	81208	0.731	0.20	
6.432	169181	118018	0.698	0.30	
6.509	329383	300592	0.913	0.59	
6.534	426234	377962	0.887	0.77	
6.560	124909	109959	0.880	0.22	
6.604	57489	40907	0.712	0.10	
6.657	44354	32324	0.729	0.08	
6.718	146375	114190	0.780	0.26	
6.758	217181	169321	0.780	0.39	
6.801	257208	224941	0.875	0.46	
6.839	97615	73665	0.755	0.17	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.909	21052	18627	0.885	0.03	
6.940	195909	175562	0.896	0.35	
7.004	316572	288731	0.912	0.57	8 Aroclor 1260
7.033	24175	27454	1.136	0.04	
7.075	21717	12102	0.557	0.03	
7.123	47390	22675	0.478	0.08	
7.250	218189	187218	0.858	0.39	8 Aroclor 1260
7.281	97551	71823	0.736	0.17	
7.338	23896	16926	0.708	0.04	
7.388	105310	98090	0.931	0.19	
7.440	138629	110034	0.794	0.25	8 Aroclor 1260
7.545	12265	12194	0.994	0.02	
7.583	13434	12520	0.932	0.02	
7.690	42991	40524	0.943	0.07	
7.726	64922	53281	0.821	0.11	
7.811	77627	48038	0.619	0.14	
7.900	92891	66120	0.712	0.16	8 Aroclor 1260
8.049	39246	35432	0.903	0.07	
8.275	140085	122915	0.877	0.25	
8.378	22977	17121	0.745	0.04	
8.570	10873550	9882489	0.909	19.75	$ 12 Decachlorobiphenyl
8.726	14282	12159	0.851	0.02	
8.945	12918	11232	0.869	0.02	
9.051	11801	6933	0.587	0.02	
9.167	65255	56128	0.860	0.11	
9.958	14684	12044	0.820	0.02	
	55053441	48450583		100.000	

Total unknown % area = 34

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018051.D
Lab Smp Id: 40157825002 Client Smp ID: TD2-170619-01-YP-10
Inj Date : 31-MAR-2018 04:12
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157825002,
Misc Info : 17602,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 06-Apr-2018 14:21 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 51
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndV

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.986	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	11744003	0.09525	48			
3 Aroclor 1242					CAS #: 53469-21-9			
Operator disabled compound identification.								
4 Aroclor 1232					CAS #: 1114-16-5			
Operator disabled compound identification.								

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	926185	0.39530	200	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	930797	0.22427	110	0.00- 20.00	100.50	BA
4.812	4.812	0.000	894211	0.44048	220	0.00- 20.00	96.55	BA
4.877	4.879	-0.002	2125797	0.42200	210	0.00- 20.00	229.52	BA
5.036	5.038	-0.002	991265	0.27623	140	0.00- 20.00	107.03	BA
Average of Peak Concentrations =					180			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	1180973	0.22558	110	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	970004	0.22553	110	0.00- 20.00	82.14	BA
5.509	5.510	-0.001	1660684	0.21384	110	0.00- 20.00	140.62	BA
6.023	6.027	-0.004	1292477	0.26541	130	0.00- 20.00	109.44	BA
6.298	6.299	-0.001	1685945	0.25909	130	0.00- 20.00	142.76	BA
Average of Peak Concentrations =					120			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	CO
7.004	7.006	-0.002	316572	0.03161	16	0.00- 20.00	20.19	CO
7.249	7.251	-0.002	218189	0.04565	23	0.00- 20.00	12.94	CO
7.440	7.443	-0.003	138629	0.04756	24	0.00- 20.00	8.22	CO
7.899	7.901	-0.002	92890	0.03520	18	0.00- 20.00	5.51	CO
Average of Peak Concentrations =					20			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	10873549	0.09925	50			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018051.D

Date : 31-MAR-2018 04:12

Client ID: TD2-170619-01-YP-10

Instrument: 40GCSJ.i

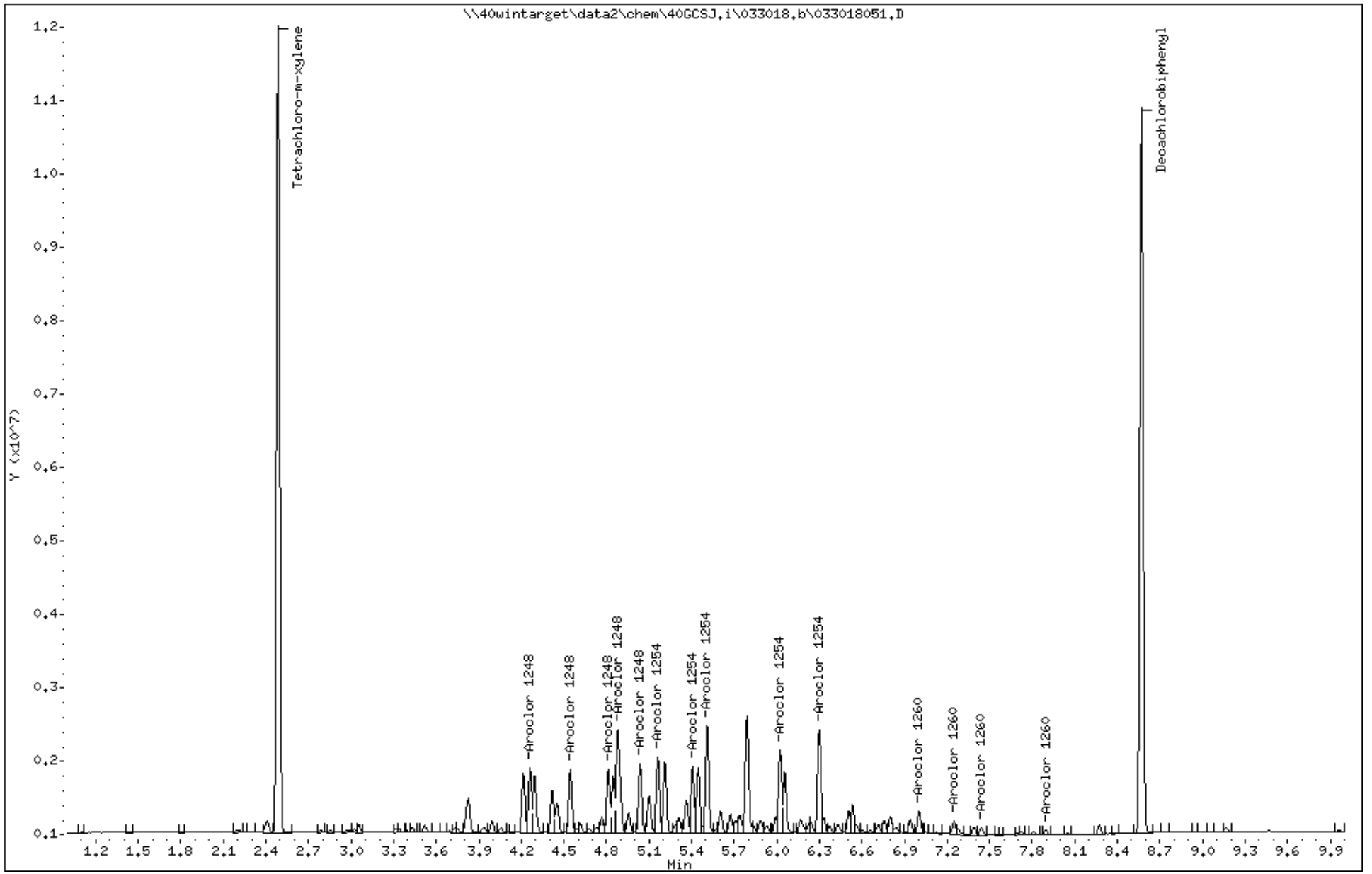
Sample Info: 40157825002,

Volume Injected (uL): 1.0

Operator: BLM

Column phase: ZB-1ms

Column diameter: 0.18



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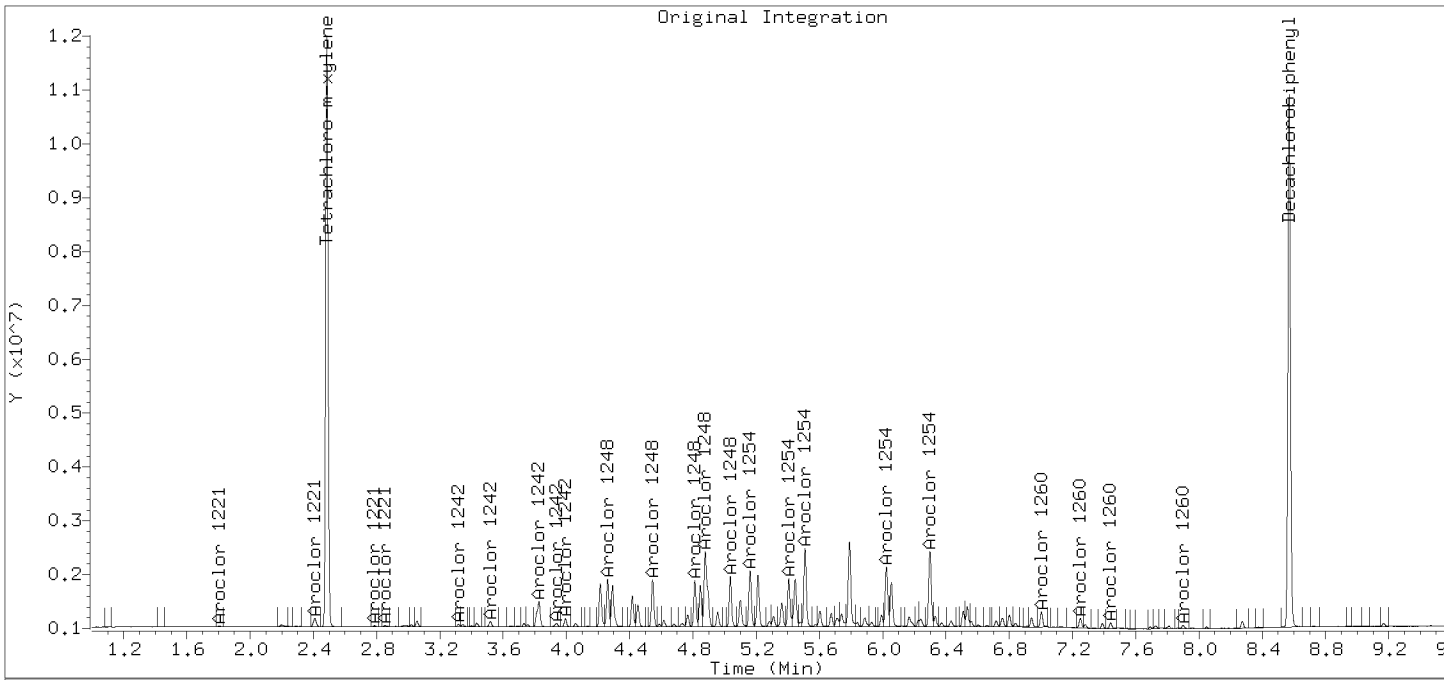
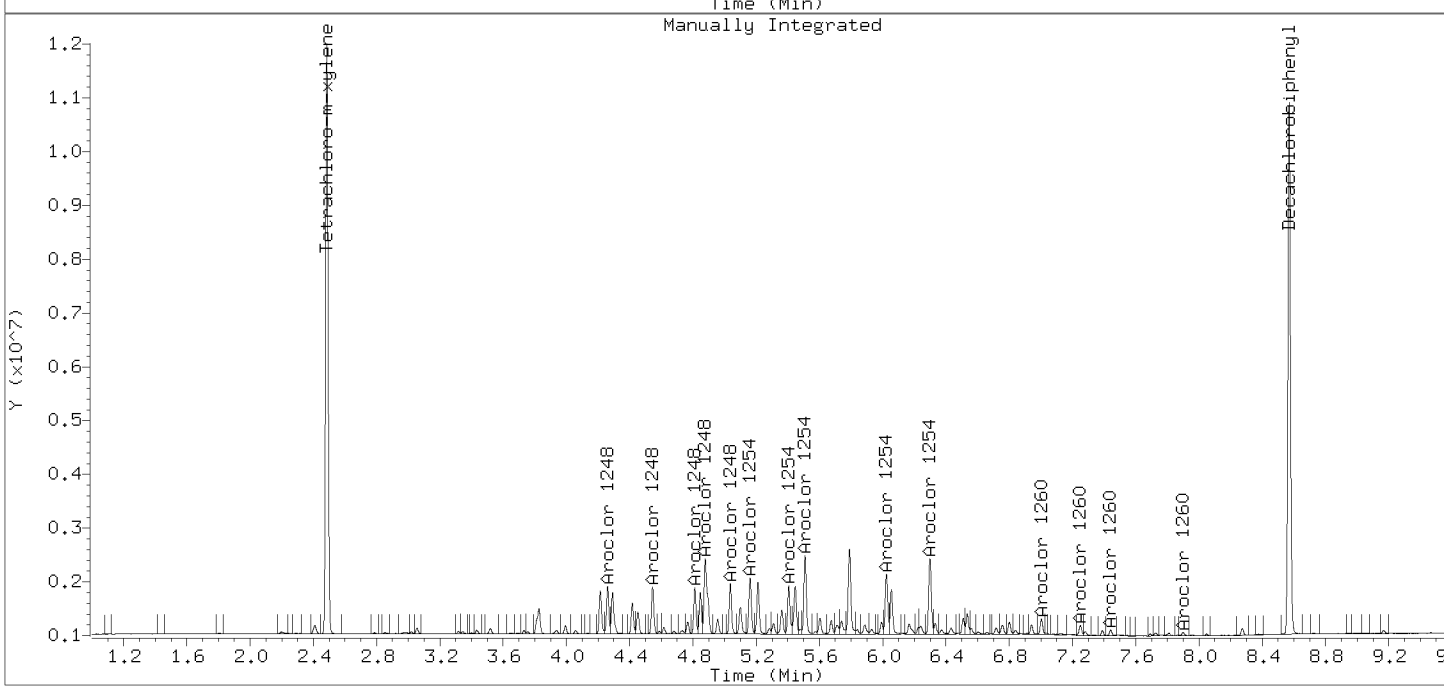
Injection Date: 31-MAR-2018 04:12 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157825002





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	45961	0	
Aroclor 1016	45961	0	
Aroclor 1016	45961	0	
Aroclor 1016	45961	0	
Aroclor 1016	45961	0	
Aroclor 1221	16191	0	
Aroclor 1221	16191	0	
Aroclor 1221	16191	0	
Aroclor 1221	16191	0	
Aroclor 1221	16191	0	
Aroclor 1232	36695	0	
Aroclor 1232	36695	0	
Aroclor 1232	36695	0	
Aroclor 1232	36695	0	

Aroclor 1232	36695	0	
Aroclor 1242	45961	0	
Aroclor 1242	45961	0	
Aroclor 1242	45961	0	
Aroclor 1242	45961	0	
Aroclor 1242	45961	0	
Aroclor 1248	914640	926185	BA
Aroclor 1248	914640	926185	BA
Aroclor 1248	914640	926185	BA
Aroclor 1248	914640	926185	BA
Aroclor 1248	914640	926185	BA
Aroclor 1254	1157069	1180973	BA
Aroclor 1254	1157069	1180973	BA
Aroclor 1254	1157069	1180973	BA
Aroclor 1254	1157069	1180973	BA
Aroclor 1254	1157069	1180973	BA
Aroclor 1260	1654538	0	CO
Aroclor 1260	1654538	0	CO
Aroclor 1260	1654538	0	CO
Aroclor 1260	1654538	0	CO
Aroclor 1260	1654538	0	CO
Tetrachloro-m-xylene	11744003	11744003	
Decachlorobiphenyl	10873549	10873549	

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SAMPLE NO.

TD2-170619-01-YP-09

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/03/2017 10:20
Matrix: Tissue SDG No.: 40157825
Date Extracted: 03/29/2018 07:15
Lab Sample ID: 40157825003
Date Analyzed: 03/31/2018 05:00
Lab File ID: 033018.B\033018054.D
Initial wt/vol: 9.9633 g Final wt/vol: 5 mL Dilution: 1
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<11.4	U
11104-28-2	PCB-1221 (Aroclor 1221)	<11.4	U
11141-16-5	PCB-1232 (Aroclor 1232)	<11.4	U
53469-21-9	PCB-1242 (Aroclor 1242)	<11.4	U
12672-29-6	PCB-1248 (Aroclor 1248)	118	
11097-69-1	PCB-1254 (Aroclor 1254)	57.0	
11096-82-5	PCB-1260 (Aroclor 1260)	<11.4	U
1336-36-3	PCB, Total	175	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018054.D
Lab Smp Id: 40157825003 Client Smp ID: TD2-170619-01-YP-09
Inj Date : 31-MAR-2018 05:00
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157825003,
Misc Info : 17602,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 06-Apr-2018 14:21 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 54
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndV

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.963	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.032	10828	6333	0.585	0.02		
1.182	9736	10983	1.128	0.02		
1.432	10587	7863	0.743	0.02		
1.539	10449	8784	0.841	0.02		
2.196	91438	55411	0.606	0.23		
2.411	46610	36680	0.787	0.11		
2.485	10776522	10420022	0.967	27.76	$ 2 Tetrachloro-m-xylene	
2.788	23313	21115	0.906	0.05		
2.853	32312	24863	0.769	0.08		
2.975	42991	18332	0.426	0.10		
3.017	29121	28194	0.968	0.07		
3.055	49902	46885	0.940	0.12		
3.318	66574	61393	0.922	0.16		
3.345	62828	61121	0.973	0.15		
3.434	74260	68043	0.916	0.18		
3.519	119749	103160	0.861	0.30		
3.731	96959	62363	0.643	0.24		
3.827	647141	428528	0.662	1.63		
3.935	141653	88980	0.628	0.35		
3.994	163543	146812	0.898	0.41		
4.059	82054	71404	0.870	0.20		
4.136	32976	18314	0.555	0.08		
4.215	562238	498346	0.886	1.42		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.261	584099	555043	0.950	1.47	6 Aroclor 1248
4.292	518131	379752	0.733	1.31	
4.417	457525	425601	0.930	1.15	
4.452	338866	301196	0.889	0.85	
4.546	671631	617598	0.920	1.69	6 Aroclor 1248
4.590	26766	27668	1.034	0.06	
4.618	123848	105046	0.848	0.31	
4.682	34486	26274	0.762	0.08	
4.729	61514	41118	0.668	0.15	
4.767	114517	105548	0.922	0.28	
4.812	550211	535139	0.973	1.39	6 Aroclor 1248
4.847	620656	603151	0.972	1.56	
4.878	1426667	1027508	0.720	3.60	6 Aroclor 1248
4.957	168306	132917	0.790	0.42	
5.037	740145	682166	0.922	1.87	6 Aroclor 1248
5.100	309047	242466	0.785	0.78	
5.161	581551	516334	0.888	1.47	7 Aroclor 1254
5.212	477773	419051	0.877	1.20	
5.282	49863	42978	0.862	0.12	
5.308	99244	81281	0.819	0.25	
5.362	285172	235011	0.824	0.72	
5.406	450608	391513	0.869	1.13	7 Aroclor 1254
5.447	438173	360587	0.823	1.10	
5.489	56571	57501	1.016	0.14	
5.509	828660	751701	0.907	2.09	7 Aroclor 1254
5.575	31392	22023	0.702	0.07	
5.604	181793	149002	0.820	0.45	
5.674	135502	113024	0.834	0.34	
5.713	115828	82448	0.712	0.29	
5.740	131108	109968	0.839	0.33	
5.791	1093701	810511	0.741	2.76	
5.886	130519	76675	0.587	0.33	
5.928	46885	37431	0.798	0.11	
5.994	124598	107910	0.866	0.31	
6.024	631157	556716	0.882	1.59	7 Aroclor 1254
6.054	449215	353456	0.787	1.13	
6.168	151845	91803	0.605	0.38	
6.226	112011	62579	0.559	0.28	
6.299	752990	628316	0.834	1.90	7 Aroclor 1254
6.333	100566	84645	0.842	0.25	
6.371	61903	45907	0.742	0.15	
6.433	86482	46751	0.541	0.21	
6.508	258610	232539	0.899	0.65	
6.534	220415	165787	0.752	0.55	
6.605	40980	20753	0.506	0.10	
6.659	25215	18451	0.732	0.06	
6.718	86248	62716	0.727	0.21	
6.757	88344	62187	0.704	0.22	
6.800	114796	99263	0.865	0.29	
6.841	57198	36593	0.640	0.14	
6.907	15765	14434	0.916	0.03	
6.942	83929	65356	0.779	0.21	
7.004	133665	120120	0.899	0.33	8 Aroclor 1260
7.034	18208	20413	1.121	0.04	
7.121	50922	19265	0.378	0.12	
7.249	100962	80823	0.801	0.25	8 Aroclor 1260
7.283	56768	37463	0.660	0.14	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.340	25395	15529	0.611	0.06	
7.389	49062	46563	0.949	0.12	
7.441	57869	51373	0.888	0.14	8 Aroclor 1260
7.580	16928	14053	0.830	0.04	
7.692	20023	21949	1.096	0.05	
7.727	55290	45078	0.815	0.13	
7.798	36964	21721	0.588	0.09	
7.898	37074	29551	0.797	0.09	8 Aroclor 1260
8.051	20470	16985	0.830	0.05	
8.274	109020	96229	0.883	0.27	
8.377	13982	12266	0.877	0.03	
8.570	10151030	8954222	0.882	25.66	$ 12 Decachlorobiphenyl
8.946	13798	10249	0.743	0.03	
9.169	23443	20295	0.866	0.05	
9.464	14265	11207	0.786	0.03	
9.954	13848	11155	0.806	0.03	
	39545793	34771830		100.000	

Total unknown % area = 28

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018054.D
Lab Smp Id: 40157825003 Client Smp ID: TD2-170619-01-YP-09
Inj Date : 31-MAR-2018 05:00
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157825003,
Misc Info : 17602,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 06-Apr-2018 14:21 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 54
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndV

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.963	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE

1 Aroclor 1221 CAS #: 11104-28-2

Operator disabled compound identification.

$	2 Tetrachloro-m-xylene					CAS #: 877-09-8		
2.484	2.484	0.000	10776522	0.08740	44			

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	584099	0.24930	120	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	671630	0.16183	81	0.00- 20.00	114.99	BA
4.811	4.812	-0.001	550210	0.27103	140	0.00- 20.00	94.20	BA
4.878	4.879	-0.001	1426667	0.28321	140	0.00- 20.00	244.25	BA
5.036	5.038	-0.002	740144	0.20625	100	0.00- 20.00	126.72	BA
Average of Peak Concentrations =					120			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	581551	0.11108	56	0.00- 20.00	100.00(M)	CO
5.405	5.408	-0.003	450607	0.10477	52	0.00- 20.00	77.48	CO
5.508	5.510	-0.002	828659	0.10670	54	0.00- 20.00	142.49	CO
6.024	6.027	-0.003	631157	0.12961	65	0.00- 20.00	108.53	CO
6.299	6.299	0.000	752990	0.11572	58	0.00- 20.00	129.48	CO
Average of Peak Concentrations =					57			
8 Aroclor 1260					CAS #: 11096-82-5			
Qualifier signal(s) failed ratio test.								CO
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	10151030	0.09265	46			

QC Flag Legend

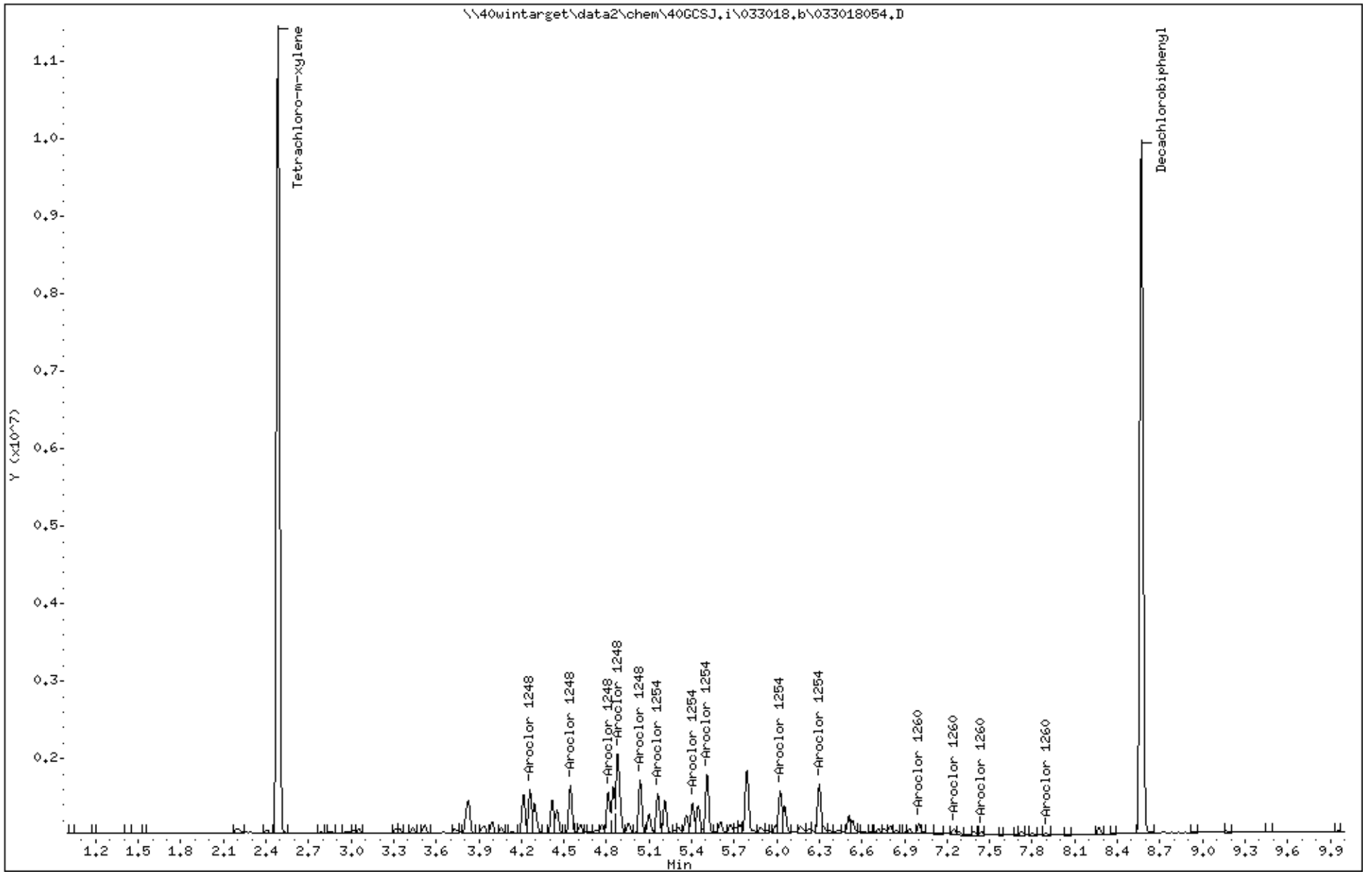
M - Compound response manually integrated.

Review Codes Legend

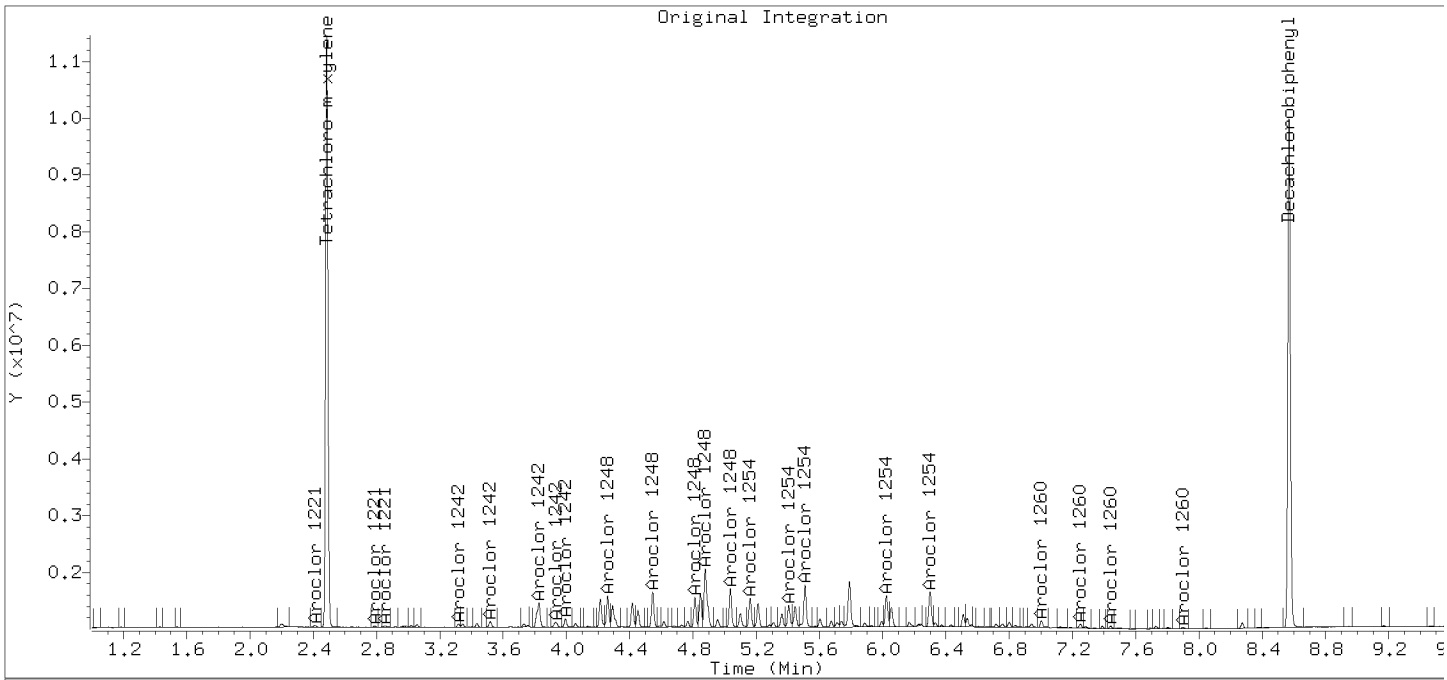
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

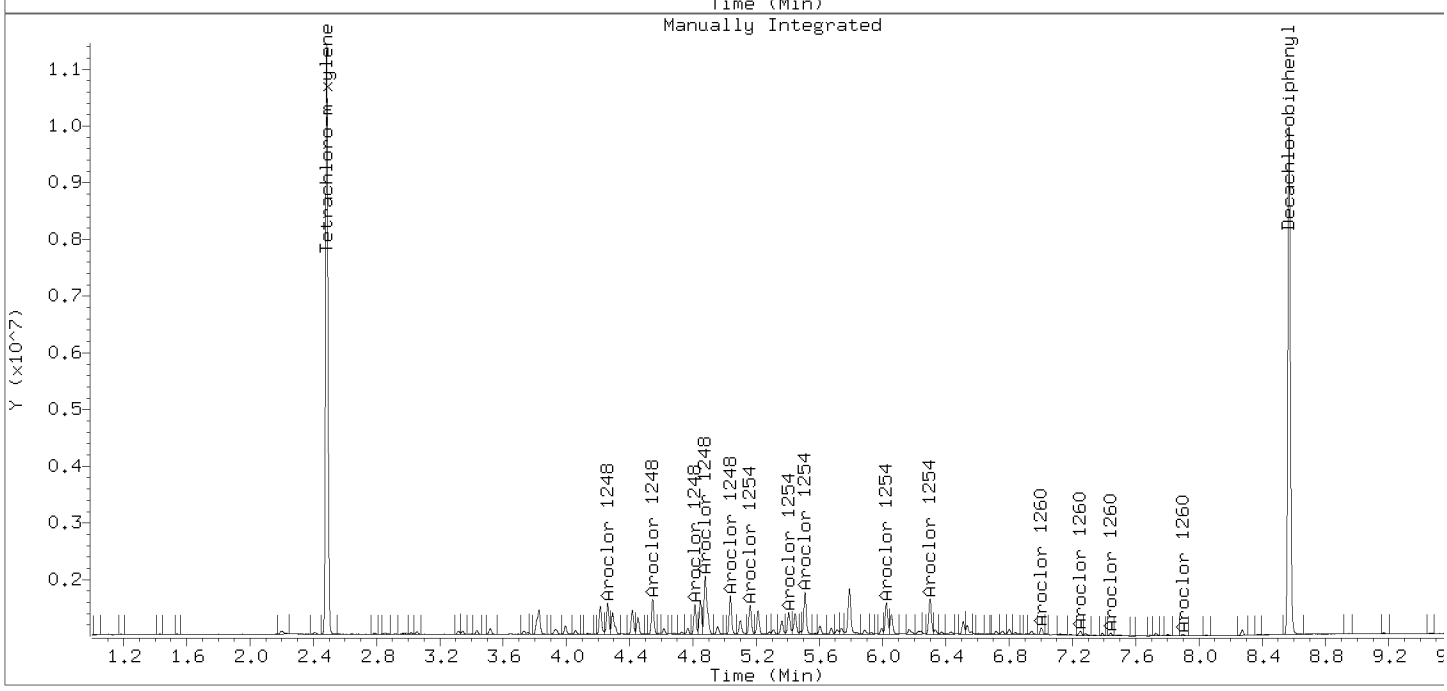
Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018054.D
Date : 31-MAR-2018 05:00
Client ID: TD2-170619-01-YP-09
Sample Info: 40157825003,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

Instrument: 40GCSJ.i
Operator: BLM
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b/033018054.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 31-MAR-2018 05:00 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157825003





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	66574	0	
Aroclor 1016	66574	0	
Aroclor 1016	66574	0	
Aroclor 1016	66574	0	
Aroclor 1016	66574	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	32311	0	
Aroclor 1232	32311	0	
Aroclor 1232	32311	0	
Aroclor 1232	32311	0	

Aroclor 1232	32311	0	
Aroclor 1242	66574	0	
Aroclor 1242	66574	0	
Aroclor 1242	66574	0	
Aroclor 1242	66574	0	
Aroclor 1242	66574	0	
Aroclor 1248	574022	584099	BA
Aroclor 1248	574022	584099	BA
Aroclor 1248	574022	584099	BA
Aroclor 1248	574022	584099	BA
Aroclor 1248	574022	584099	BA
Aroclor 1254	560797	581551	CO
Aroclor 1254	560797	581551	CO
Aroclor 1254	560797	581551	CO
Aroclor 1254	560797	581551	CO
Aroclor 1254	560797	581551	CO
Aroclor 1260	725002	0	CO
Aroclor 1260	725002	0	CO
Aroclor 1260	725002	0	CO
Aroclor 1260	725002	0	CO
Aroclor 1260	725002	0	CO
Tetrachloro-m-xylene	10776522	10776522	
Decachlorobiphenyl	10151030	10151030	

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SAMPLE NO.

TD2-170619-01-YP-08

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/03/2017 10:20
Matrix: Tissue SDG No.: 40157825
Date Extracted: 03/29/2018 07:15
Lab Sample ID: 40157825004
Date Analyzed: 03/31/2018 05:16
Lab File ID: 033018.B\033018055.D
Initial wt/vol: 10.0359 Final wt/vol: 5 mL Dilution: 1
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<11.4	U
11104-28-2	PCB-1221 (Aroclor 1221)	<11.4	U
11141-16-5	PCB-1232 (Aroclor 1232)	<11.4	U
53469-21-9	PCB-1242 (Aroclor 1242)	<11.4	U
12672-29-6	PCB-1248 (Aroclor 1248)	266	
11097-69-1	PCB-1254 (Aroclor 1254)	145	
11096-82-5	PCB-1260 (Aroclor 1260)	24.5	J
1336-36-3	PCB, Total	436	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018055.D
Lab Smp Id: 40157825004 Client Smp ID: TD2-170619-01-YP-08
Inj Date : 31-MAR-2018 05:16
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157825004,
Misc Info : 17602,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 06-Apr-2018 14:21 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 55
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndV

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.036	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.036	11912	8851	0.743	0.01		
1.156	10300	13214	1.283	0.01		
1.185	22157	11847	0.535	0.03		
1.424	12355	9194	0.744	0.01		
2.200	66317	41351	0.624	0.10		
2.409	77101	62669	0.813	0.12		
2.485	10925247	10560749	0.967	17.63	$ 2 Tetrachloro-m-xylene	
2.787	24600	20857	0.848	0.03		
2.855	36477	26226	0.719	0.05		
2.972	12908	14626	1.133	0.02		
3.018	42098	43421	1.031	0.06		
3.055	70108	67021	0.956	0.10		
3.316	79333	73932	0.932	0.12		
3.344	72384	65412	0.904	0.11		
3.401	13853	11721	0.846	0.02		
3.432	108150	96066	0.888	0.16		
3.519	167988	145603	0.867	0.26		
3.644	22682	17391	0.767	0.03		
3.693	9402	9267	0.986	0.01		
3.731	101444	102495	1.010	0.15		
3.754	73214	68713	0.939	0.11		
3.826	1206011	828360	0.687	1.88		
3.938	168027	119013	0.708	0.26		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.993	264197	247715	0.938	0.41	
4.057	131159	116901	0.891	0.20	
4.133	26693	20591	0.771	0.04	
4.214	1479811	1370011	0.926	2.31	
4.260	1489137	1390804	0.934	2.32	6 Aroclor 1248
4.291	1321830	1075396	0.814	2.06	
4.416	1029231	978984	0.951	1.60	
4.451	719284	650011	0.904	1.12	
4.545	1451474	1348270	0.929	2.26	6 Aroclor 1248
4.589	62109	59717	0.961	0.09	
4.616	201605	181940	0.902	0.31	
4.678	87839	71254	0.811	0.13	
4.727	138104	95184	0.689	0.21	
4.766	244806	228934	0.935	0.38	
4.811	1222398	1161150	0.950	1.91	6 Aroclor 1248
4.846	1275701	1192433	0.935	1.99	
4.878	3233273	2147298	0.664	5.05	6 Aroclor 1248
4.956	429977	369388	0.859	0.67	
5.035	1594511	1504311	0.943	2.49	6 Aroclor 1248
5.099	845333	713082	0.844	1.32	
5.160	1532512	1359739	0.887	2.39	7 Aroclor 1254
5.211	1276802	1147350	0.899	1.99	
5.282	133195	123804	0.929	0.20	
5.308	259646	219915	0.847	0.40	
5.362	674783	597608	0.886	1.05	
5.405	1182166	1045791	0.885	1.84	7 Aroclor 1254
5.445	1028205	861268	0.838	1.60	
5.482	92799	112840	1.216	0.14	
5.509	2316765	1938711	0.837	3.62	7 Aroclor 1254
5.575	77365	57531	0.744	0.12	
5.603	439548	368202	0.838	0.68	
5.674	409110	365425	0.893	0.63	
5.711	323885	234597	0.724	0.50	
5.740	375112	272980	0.728	0.58	
5.789	2446771	1915951	0.783	3.82	
5.886	300646	192931	0.642	0.47	
5.930	163160	113339	0.695	0.25	
5.992	331053	302876	0.915	0.51	
6.023	1471878	1293005	0.878	2.30	7 Aroclor 1254
6.055	1120623	983038	0.877	1.75	
6.126	53772	26630	0.495	0.08	
6.168	339130	227900	0.672	0.53	
6.225	271542	146724	0.540	0.42	
6.299	1899002	1580771	0.832	2.96	7 Aroclor 1254
6.332	227694	203989	0.896	0.35	
6.373	136225	98123	0.720	0.21	
6.430	208985	161034	0.771	0.32	
6.508	665331	619764	0.932	1.04	
6.534	372812	337314	0.905	0.58	
6.559	139641	133200	0.954	0.21	
6.606	82065	50921	0.620	0.12	
6.660	42135	35814	0.850	0.06	
6.718	181688	146565	0.807	0.28	
6.756	220368	176346	0.800	0.34	
6.800	273805	236786	0.865	0.42	
6.839	134449	94055	0.700	0.21	
6.913	25181	20815	0.827	0.03	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.942	160721	148191	0.922	0.25	
7.003	411319	392031	0.953	0.64	8 Aroclor 1260
7.035	51169	43623	0.853	0.08	
7.124	52172	23788	0.456	0.08	
7.249	238605	211479	0.886	0.37	8 Aroclor 1260
7.279	109114	79399	0.728	0.17	
7.336	25478	18658	0.732	0.03	
7.389	167819	144221	0.859	0.26	
7.442	171958	147945	0.860	0.26	8 Aroclor 1260
7.544	17938	15216	0.848	0.02	
7.585	13446	11936	0.888	0.02	
7.661	13860	14174	1.023	0.02	
7.691	50100	47468	0.947	0.07	
7.726	74559	59191	0.794	0.11	
7.767	15667	13878	0.886	0.02	
7.808	76718	39862	0.520	0.11	
7.860	8724	9444	1.082	0.01	
7.899	122964	100537	0.818	0.19	8 Aroclor 1260
7.962	26999	13855	0.513	0.04	
8.047	39493	36160	0.916	0.06	
8.274	157895	137810	0.873	0.24	
8.378	18109	13744	0.759	0.02	
8.570	10019600	8568372	0.855	15.66	$ 12 Decachlorobiphenyl
8.722	11561	11794	1.020	0.01	
8.943	14937	9439	0.632	0.02	
9.167	39356	34685	0.881	0.06	
9.961	19840	13336	0.672	0.03	
	63942511	55505261		100.000	

Total unknown % area = 38

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018055.D
Lab Smp Id: 40157825004 Client Smp ID: TD2-170619-01-YP-08
Inj Date : 31-MAR-2018 05:16
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157825004,
Misc Info : 17602,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 06-Apr-2018 14:21 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 55
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndV

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.036	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE

1 Aroclor 1221 CAS #: 11104-28-2

Operator disabled compound identification.

$	2 Tetrachloro-m-xylene					CAS #: 877-09-8		
2.484	2.484	0.000	10925247	0.08861	44			

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	1489137	0.63558	320	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1451473	0.34973	170	0.00- 20.00	97.47	BA
4.811	4.812	-0.001	1222398	0.60214	300	0.00- 20.00	82.09	BA
4.878	4.879	-0.001	3233272	0.64185	320	0.00- 20.00	217.12	BA
5.035	5.038	-0.003	1594511	0.44433	220	0.00- 20.00	107.08	BA
Average of Peak Concentrations =					270			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	1532511	0.29273	140	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	1182166	0.27485	140	0.00- 20.00	77.14	BA
5.508	5.510	-0.002	2316765	0.29832	150	0.00- 20.00	151.17	BA
6.023	6.027	-0.004	1471878	0.30225	150	0.00- 20.00	96.04	BA
6.298	6.299	-0.001	1899001	0.29184	140	0.00- 20.00	123.91	BA
Average of Peak Concentrations =					140			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
7.003	7.006	-0.003	411319	0.04107	20	0.00- 20.00	21.66	BA
7.249	7.251	-0.002	238605	0.04992	25	0.00- 20.00	12.56	BA
7.442	7.443	-0.001	171958	0.05899	29	0.00- 20.00	9.06	BA
7.899	7.901	-0.002	122963	0.04660	23	0.00- 20.00	6.48	BA
Average of Peak Concentrations =					24			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	10019599	0.09145	46			

QC Flag Legend

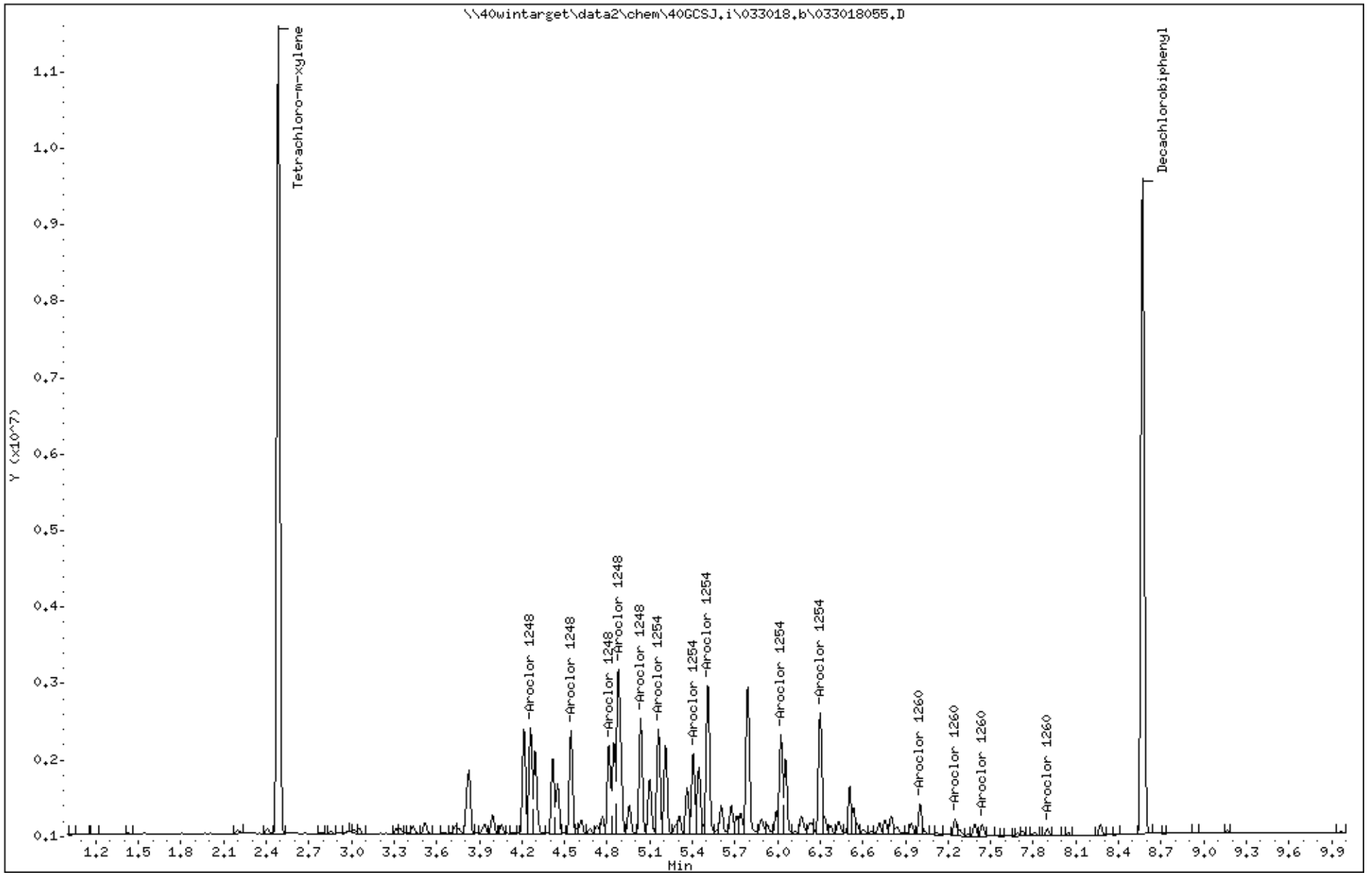
M - Compound response manually integrated.

Review Codes Legend

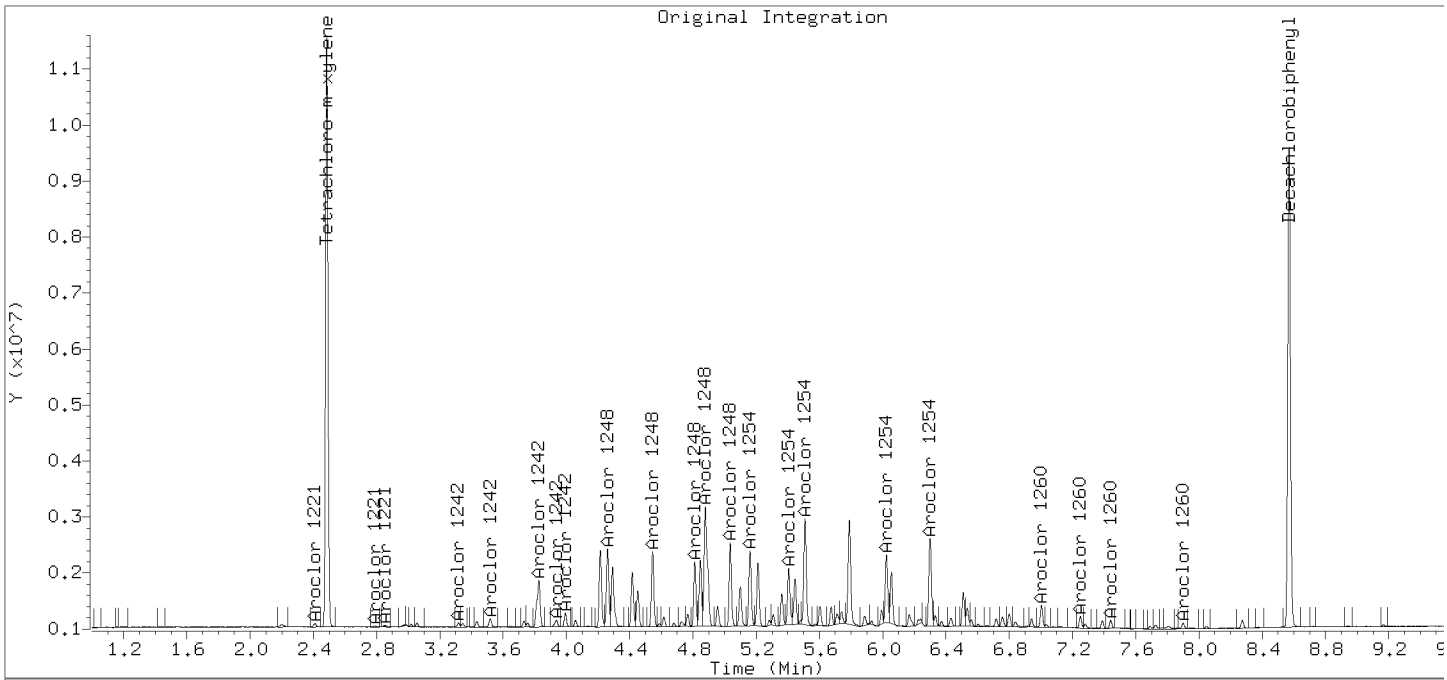
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

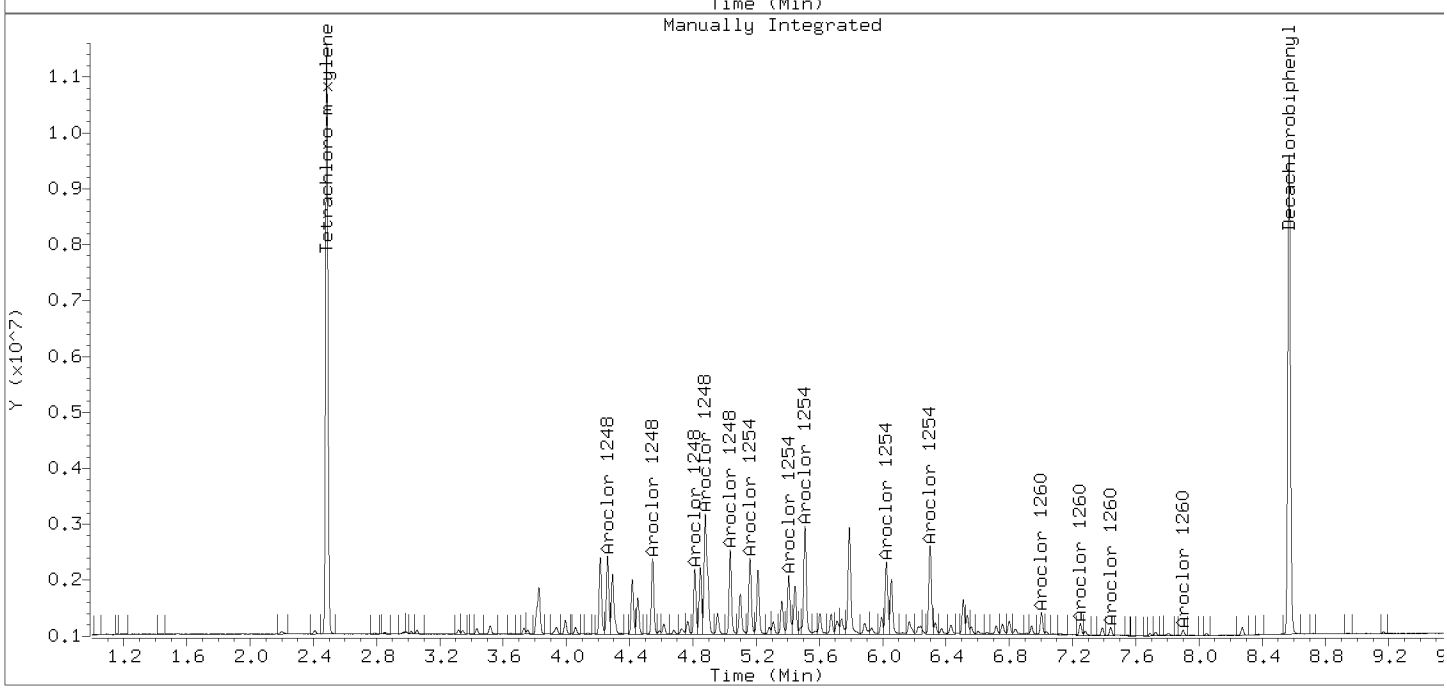
Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018055.D
Date : 31-MAR-2018 05:16
Client ID: TD2-170619-01-YP-08
Sample Info: 40157825004,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

Instrument: 40GCSJ.i
Operator: BLM
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b/033018055.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 31-MAR-2018 05:16 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157825004





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	79333	0	
Aroclor 1016	79333	0	
Aroclor 1016	79333	0	
Aroclor 1016	79333	0	
Aroclor 1016	79333	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	36476	0	
Aroclor 1232	36476	0	
Aroclor 1232	36476	0	
Aroclor 1232	36476	0	

Aroclor 1232	36476	0	
Aroclor 1242	79333	0	
Aroclor 1242	79333	0	
Aroclor 1242	79333	0	
Aroclor 1242	79333	0	
Aroclor 1242	79333	0	
Aroclor 1248	1479524	1489137	BA
Aroclor 1248	1479524	1489137	BA
Aroclor 1248	1479524	1489137	BA
Aroclor 1248	1479524	1489137	BA
Aroclor 1248	1479524	1489137	BA
Aroclor 1254	1447211	1532511	BA
Aroclor 1254	1447211	1532511	BA
Aroclor 1254	1447211	1532511	BA
Aroclor 1254	1447211	1532511	BA
Aroclor 1254	1447211	1532511	BA
Aroclor 1260	1855567	0	BA
Aroclor 1260	1855567	0	BA
Aroclor 1260	1855567	0	BA
Aroclor 1260	1855567	0	BA
Aroclor 1260	1855567	0	BA
Tetrachloro-m-xylene	10925247	10925247	
Decachlorobiphenyl	10019599	10019599	

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SAMPLE NO.

TD2-170619-01-YP-07

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/03/2017 10:20
Matrix: Tissue SDG No.: 40157825
Date Extracted: 03/29/2018 07:15
Lab Sample ID: 40157825005
Date Analyzed: 04/03/2018 15:32
Lab File ID: 040318.B\040318006.D
Initial wt/vol: 9.9722 g Final wt/vol: 5 mL Dilution: 2
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<22.9	U
11104-28-2	PCB-1221 (Aroclor 1221)	<22.9	U
11141-16-5	PCB-1232 (Aroclor 1232)	<22.9	U
53469-21-9	PCB-1242 (Aroclor 1242)	<22.9	U
12672-29-6	PCB-1248 (Aroclor 1248)	507	
11097-69-1	PCB-1254 (Aroclor 1254)	235	
11096-82-5	PCB-1260 (Aroclor 1260)	26.8	J
1336-36-3	PCB, Total	769	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318006.D
Lab Smp Id: 40157825005 Client Smp ID: TD2-170619-01-YP-07
Inj Date : 03-APR-2018 15:32
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157825005 x2,
Misc Info : 17602,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040318.b\pcba030618.m
Meth Date : 06-Apr-2018 14:26 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 6
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndV

Name	Value	Description
DF	2.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.972	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.186	43100	35285	0.819	0.09		
1.686	10470	12717	1.215	0.02		
1.771	23309	19063	0.818	0.04		
2.010	25446	20560	0.808	0.05		
2.411	63688	51535	0.809	0.13		
2.485	5503529	5295838	0.962	12.07	$ 2 Tetrachloro-m-xylene	
2.787	14783	13420	0.908	0.03		
2.853	31783	26006	0.818	0.06		
2.973	65426	28274	0.432	0.13		
3.021	50058	43373	0.866	0.10		
3.056	85496	76736	0.898	0.17		
3.318	90063	85214	0.946	0.18		
3.343	89175	84909	0.952	0.18		
3.435	111465	107329	0.963	0.23		
3.519	192994	169977	0.881	0.40		
3.646	23214	18218	0.785	0.04		
3.732	95112	96123	1.011	0.19		
3.757	79778	70158	0.879	0.16		
3.827	1248825	829417	0.664	2.62		
3.935	219351	149518	0.682	0.46		
3.994	266135	245839	0.924	0.55		
4.058	123154	108780	0.883	0.25		
4.136	29711	22370	0.753	0.06		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.215	1399549	1290616	0.922	2.93	
4.261	1393928	1324159	0.950	2.92	6 Aroclor 1248
4.292	1150110	893966	0.777	2.41	
4.417	960100	921035	0.959	2.01	
4.452	636413	571512	0.898	1.33	
4.509	39308	34842	0.886	0.08	
4.546	1410234	1296134	0.919	2.96	6 Aroclor 1248
4.590	64194	55854	0.870	0.13	
4.618	176334	158016	0.896	0.37	
4.679	77462	61790	0.798	0.16	
4.729	125330	87812	0.701	0.26	
4.768	212512	194095	0.913	0.44	
4.814	1136583	1065846	0.938	2.38	6 Aroclor 1248
4.848	1351946	1280964	0.947	2.83	
4.879	3118774	1993971	0.639	6.54	6 Aroclor 1248
4.957	387401	320873	0.828	0.81	
5.038	1494510	1351069	0.904	3.13	6 Aroclor 1248
5.101	726525	587516	0.809	1.52	
5.162	1325743	1165659	0.879	2.78	7 Aroclor 1254
5.212	1077120	937249	0.870	2.26	
5.283	106331	98906	0.930	0.22	
5.309	221618	179372	0.809	0.46	
5.363	555377	498831	0.898	1.16	
5.407	987245	866551	0.878	2.07	7 Aroclor 1254
5.447	845965	715906	0.846	1.77	
5.483	78059	94673	1.213	0.16	
5.510	1957144	1667968	0.852	4.11	7 Aroclor 1254
5.575	52302	42973	0.822	0.10	
5.604	359194	288237	0.802	0.75	
5.676	277842	250087	0.900	0.58	
5.712	267427	186931	0.699	0.56	
5.743	301858	211747	0.701	0.63	
5.791	1967222	1476042	0.750	4.13	
5.887	254511	148694	0.584	0.53	
5.932	116985	74206	0.634	0.24	
5.994	225586	203100	0.900	0.47	
6.025	1141908	1016140	0.890	2.39	7 Aroclor 1254
6.056	855748	719547	0.841	1.79	
6.130	39650	24851	0.627	0.08	
6.169	261702	172894	0.661	0.54	
6.227	100651	97567	0.969	0.21	
6.241	131134	104664	0.798	0.27	
6.300	1307991	1057912	0.809	2.74	7 Aroclor 1254
6.334	173083	141798	0.819	0.36	
6.373	108500	74577	0.687	0.22	
6.432	151776	94481	0.623	0.31	
6.510	391857	353767	0.903	0.82	
6.536	253498	217081	0.856	0.53	
6.561	97702	81419	0.833	0.20	
6.605	63747	35476	0.557	0.13	
6.661	36108	25910	0.718	0.07	
6.718	134227	105143	0.783	0.28	
6.758	153598	111042	0.723	0.32	
6.802	178029	149835	0.842	0.37	
6.841	86992	56149	0.645	0.18	
6.943	128536	107839	0.839	0.26	
7.004	230660	207198	0.898	0.48	8 Aroclor 1260

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.035	23845	27470	1.152	0.05	
7.126	49147	24085	0.490	0.10	
7.253	137910	117894	0.855	0.28	8 Aroclor 1260
7.282	70653	50027	0.708	0.14	
7.338	19595	15095	0.770	0.04	
7.389	95805	84072	0.878	0.20	
7.443	94534	75054	0.794	0.19	8 Aroclor 1260
7.614	12485	8240	0.660	0.02	
7.694	33107	28070	0.848	0.06	
7.728	52578	39770	0.756	0.11	
7.776	28129	18781	0.668	0.05	
7.808	58121	32834	0.565	0.12	
7.899	60072	44847	0.747	0.12	8 Aroclor 1260
8.050	66892	54496	0.815	0.14	
8.275	83659	69565	0.832	0.17	
8.377	24681	18841	0.763	0.05	
8.571	5226876	4475157	0.856	10.97	$ 12 Decachlorobiphenyl
8.728	18664	13718	0.735	0.03	
8.943	26095	19740	0.756	0.05	
9.171	20423	18576	0.910	0.04	
9.471	36575	21491	0.588	0.07	
9.964	26983	17695	0.656	0.05	
	47618733	40438669		100.000	

Total unknown % area = 44

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318006.D
Lab Smp Id: 40157825005 Client Smp ID: TD2-170619-01-YP-07
Inj Date : 03-APR-2018 15:32
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157825005 x2,
Misc Info : 17602,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040318.b\pcba030618.m
Meth Date : 06-Apr-2018 14:26 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 6
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndV

Name	Value	Description
DF	2.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.972	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221						CAS #: 11104-28-2		
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.484	2.484	0.000	5503528	0.04464	45			
3 Aroclor 1242						CAS #: 53469-21-9		
Operator disabled compound identification.								
4 Aroclor 1232						CAS #: 1114-16-5		
Operator disabled compound identification.								

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	1393927	0.59494	600	0.00- 20.00	100.00(M)	BA
4.546	4.546	0.000	1410234	0.33979	340	0.00- 20.00	101.17	BA
4.813	4.812	0.001	1136582	0.55987	560	0.00- 20.00	81.54	BA
4.879	4.879	0.000	3118774	0.61912	620	0.00- 20.00	223.74	BA
5.038	5.038	0.000	1494510	0.41647	420	0.00- 20.00	107.22	BA
Average of Peak Concentrations =					510			
7 Aroclor 1254					CAS #: 11097-69-1			
5.162	5.162	0.000	1325742	0.25323	250	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	987245	0.22954	230	0.00- 20.00	74.47	BA
5.510	5.510	0.000	1957144	0.25201	250	0.00- 20.00	147.63	BA
6.024	6.027	-0.003	1141908	0.23449	240	0.00- 20.00	86.13	BA
6.300	6.299	0.001	1307991	0.20101	200	0.00- 20.00	98.66	BA
Average of Peak Concentrations =					230			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	CO
7.004	7.006	-0.002	230659	0.02303	23	0.00- 20.00	19.43	CO
7.252	7.251	0.001	137909	0.02885	29	0.00- 20.00	10.54	CO
7.443	7.443	0.000	94534	0.03243	32	0.00- 20.00	7.23	CO
7.899	7.901	-0.002	60071	0.02277	23	0.00- 20.00	4.59	CO
Average of Peak Concentrations =					27			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	5226876	0.04771	48			

QC Flag Legend

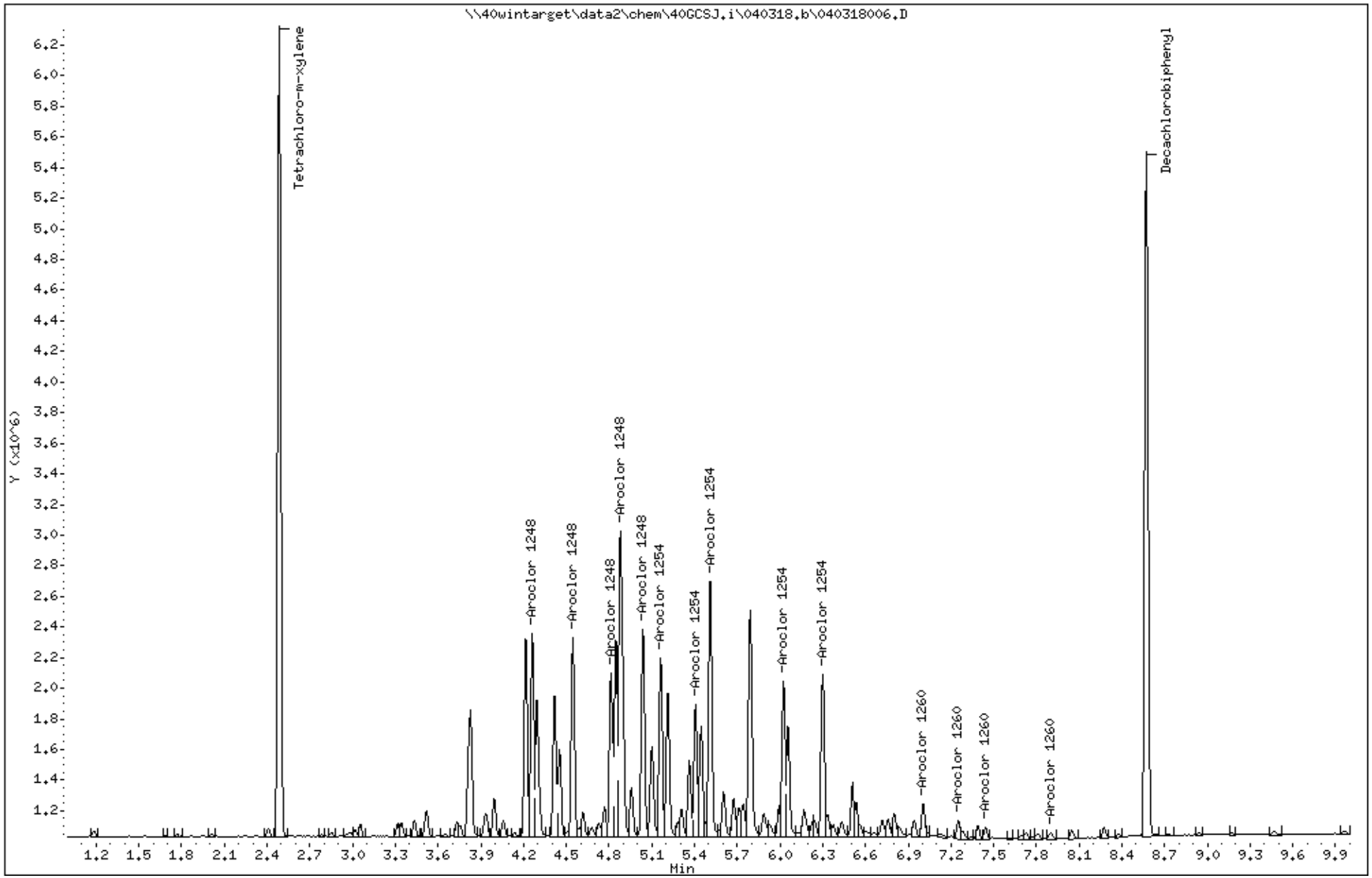
M - Compound response manually integrated.

Review Codes Legend

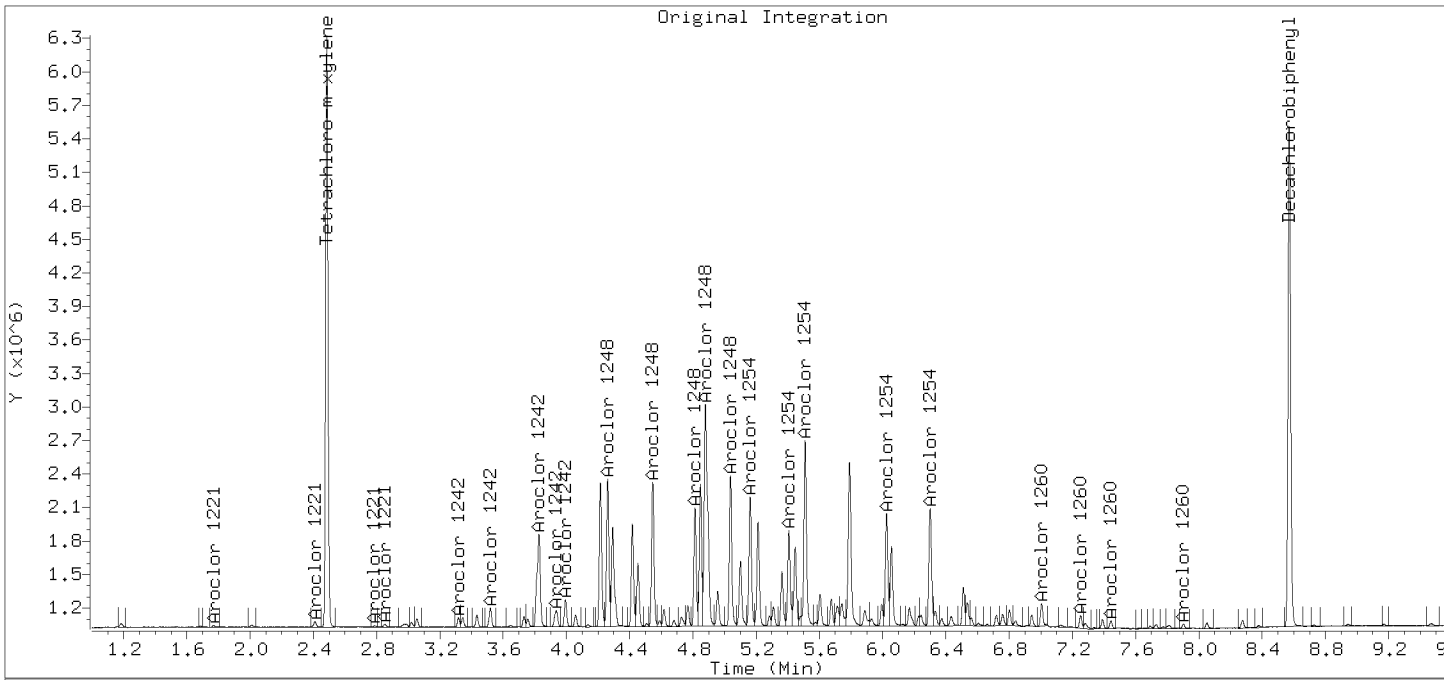
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

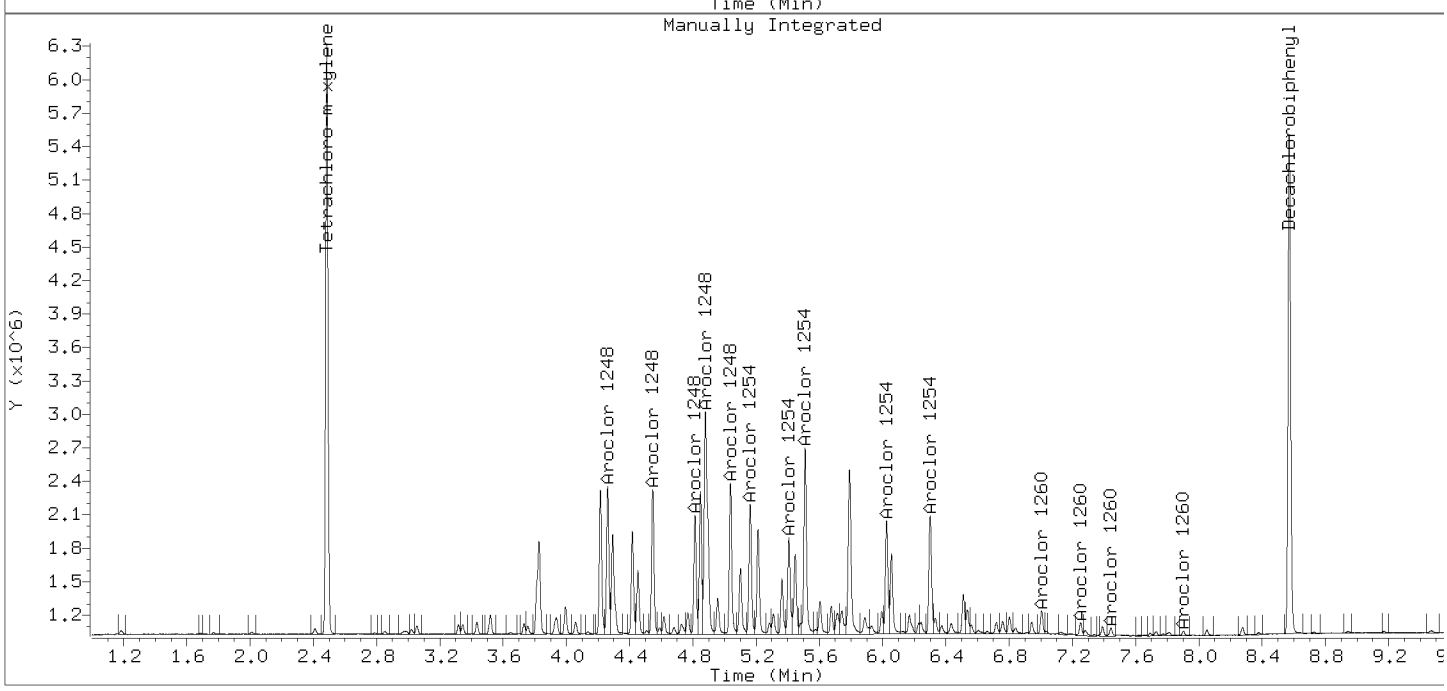
Data File: \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318006.D
Date : 03-APR-2018 15:32
Client ID: TD2-170619-01-YP-07
Sample Info: 40157825005 x2,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

Instrument: 40GCSJ.i
Operator: BLM
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\040318.b/040318006.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 03-APR-2018 15:32 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157825005





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	90062	0	
Aroclor 1016	90062	0	
Aroclor 1016	90062	0	
Aroclor 1016	90062	0	
Aroclor 1016	90062	0	
Aroclor 1221	23309	0	
Aroclor 1221	23309	0	
Aroclor 1221	23309	0	
Aroclor 1221	23309	0	
Aroclor 1221	23309	0	
Aroclor 1232	31782	0	
Aroclor 1232	31782	0	
Aroclor 1232	31782	0	
Aroclor 1232	31782	0	

Aroclor 1232	31782	0	
Aroclor 1242	90062	0	
Aroclor 1242	90062	0	
Aroclor 1242	90062	0	
Aroclor 1242	90062	0	
Aroclor 1242	90062	0	
Aroclor 1248	1381552	1393927	BA
Aroclor 1248	1381552	1393927	BA
Aroclor 1248	1381552	1393927	BA
Aroclor 1248	1381552	1393927	BA
Aroclor 1248	1381552	1393927	BA
Aroclor 1254	1302251	1325742	BA
Aroclor 1254	1302251	1325742	BA
Aroclor 1254	1302251	1325742	BA
Aroclor 1254	1302251	1325742	BA
Aroclor 1254	1302251	1325742	BA
Aroclor 1260	1276009	0	CO
Aroclor 1260	1276009	0	CO
Aroclor 1260	1276009	0	CO
Aroclor 1260	1276009	0	CO
Aroclor 1260	1276009	0	CO
Tetrachloro-m-xylene	5503528	5503528	
Decachlorobiphenyl	5226876	5226876	

==========

SAMPLE NO.

TD2-170619-01-YP-06

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/03/2017 10:20
Matrix: Tissue SDG No.: 40157825
Date Extracted: 03/29/2018 07:15
Lab Sample ID: 40157825006
Date Analyzed: 03/31/2018 05:48
Lab File ID: 033018.B\033018057.D
Initial wt/vol: 10.0264 Final wt/vol: 5 mL Dilution: 1
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<11.4	U
11104-28-2	PCB-1221 (Aroclor 1221)	<11.4	U
11141-16-5	PCB-1232 (Aroclor 1232)	<11.4	U
53469-21-9	PCB-1242 (Aroclor 1242)	<11.4	U
12672-29-6	PCB-1248 (Aroclor 1248)	121	
11097-69-1	PCB-1254 (Aroclor 1254)	73.8	
11096-82-5	PCB-1260 (Aroclor 1260)	19.9	J
1336-36-3	PCB, Total	215	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018057.D
Lab Smp Id: 40157825006 Client Smp ID: TD2-170619-01-YP-06
Inj Date : 31-MAR-2018 05:48
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157825006,
Misc Info : 17602,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 06-Apr-2018 14:21 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 57
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndV

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.026	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.069	14863	10835	0.729	0.03		
1.107	17423	10728	0.616	0.04		
1.154	10005	9943	0.994	0.02		
1.185	15799	13135	0.831	0.03		
1.431	11318	11294	0.998	0.02		
1.538	9828	8855	0.901	0.02		
2.011	10862	9125	0.840	0.02		
2.199	85991	43706	0.508	0.19		
2.410	55337	47062	0.850	0.12		
2.485	11135239	10794359	0.969	26.14	$ 2 Tetrachloro-m-xylene	
2.787	21663	20243	0.934	0.04		
2.856	27960	17812	0.637	0.06		
2.974	23218	21809	0.939	0.05		
2.988	28448	28915	1.016	0.06		
3.020	33768	34587	1.024	0.07		
3.055	29615	28163	0.951	0.06		
3.319	31196	28383	0.910	0.07		
3.343	31074	30600	0.985	0.07		
3.403	10451	11017	1.054	0.02		
3.432	36082	35251	0.977	0.08		
3.520	106158	96677	0.911	0.24		
3.686	9909	8219	0.829	0.02		
3.733	48141	47534	0.987	0.11		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.756	34363	31474	0.916	0.07	
3.826	536601	346787	0.646	1.23	
3.937	66988	41739	0.623	0.15	
3.993	137631	127025	0.923	0.31	
4.058	68970	56785	0.823	0.15	
4.214	641185	598879	0.934	1.47	
4.261	682095	638568	0.936	1.56	6 Aroclor 1248
4.292	576513	484486	0.840	1.32	
4.417	436205	418487	0.959	1.00	
4.452	327587	289824	0.885	0.75	
4.545	668289	636498	0.952	1.53	6 Aroclor 1248
4.588	34513	32850	0.952	0.07	
4.617	101558	88968	0.876	0.23	
4.680	49177	38275	0.778	0.11	
4.732	66365	43484	0.655	0.15	
4.767	132101	117122	0.887	0.30	
4.813	589085	567180	0.963	1.35	6 Aroclor 1248
4.848	501175	487474	0.973	1.15	
4.879	1413512	958415	0.678	3.24	6 Aroclor 1248
4.958	214538	172057	0.802	0.49	
5.037	677334	632674	0.934	1.55	6 Aroclor 1248
5.100	380196	320222	0.842	0.87	
5.162	845113	758837	0.898	1.94	7 Aroclor 1254
5.212	615388	559145	0.909	1.41	
5.282	69194	62968	0.910	0.15	
5.311	153820	127788	0.831	0.35	
5.362	308638	261157	0.846	0.70	
5.407	595271	528648	0.888	1.36	7 Aroclor 1254
5.448	563427	455683	0.809	1.29	
5.481	55774	57892	1.038	0.12	
5.509	978331	880857	0.900	2.24	7 Aroclor 1254
5.575	41070	31771	0.774	0.09	
5.604	183837	153938	0.837	0.42	
5.674	196156	165633	0.844	0.45	
5.713	150848	107923	0.715	0.34	
5.742	209149	145703	0.697	0.48	
5.791	1327078	1051225	0.792	3.04	
5.888	168567	106840	0.634	0.38	
5.930	80167	58517	0.730	0.18	
5.993	194052	168175	0.867	0.44	
6.025	738131	659054	0.893	1.69	7 Aroclor 1254
6.055	737162	621447	0.843	1.69	
6.168	230381	154325	0.670	0.52	
6.228	95545	89256	0.934	0.21	
6.243	121596	92085	0.757	0.27	
6.299	1058270	872601	0.825	2.43	7 Aroclor 1254
6.333	152343	126173	0.828	0.35	
6.374	90257	59768	0.662	0.20	
6.432	120915	83844	0.693	0.27	
6.509	299904	278408	0.928	0.68	
6.535	296051	187796	0.634	0.68	
6.603	60609	38877	0.641	0.13	
6.658	46638	30014	0.644	0.10	
6.718	131634	98483	0.748	0.30	
6.757	157886	118532	0.751	0.36	
6.801	190724	158152	0.829	0.43	
6.841	93876	58845	0.627	0.21	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.913	22024	20628	0.937	0.05	
6.941	185955	162279	0.873	0.42	
7.004	299757	278687	0.930	0.68	8 Aroclor 1260
7.031	24495	24592	1.004	0.05	
7.071	11365	10102	0.889	0.02	
7.123	52526	20313	0.387	0.12	
7.250	170629	145562	0.853	0.39	8 Aroclor 1260
7.282	90150	56857	0.631	0.20	
7.338	32376	21965	0.678	0.07	
7.388	120330	109465	0.910	0.27	
7.442	165363	116834	0.707	0.38	8 Aroclor 1260
7.549	15610	11765	0.754	0.03	
7.583	11381	12048	1.059	0.02	
7.693	37609	32715	0.870	0.08	
7.728	72795	58365	0.802	0.16	
7.763	17479	13914	0.796	0.04	
7.811	78261	45663	0.583	0.17	
7.862	12005	10834	0.902	0.02	
7.898	97506	77614	0.796	0.22	8 Aroclor 1260
7.959	22380	12917	0.577	0.05	
8.048	43233	38180	0.883	0.09	
8.273	150787	135093	0.896	0.34	
8.379	15155	13907	0.918	0.03	
8.570	10186042	8908109	0.875	23.40	$ 12 Decachlorobiphenyl
8.727	20839	15791	0.758	0.04	
8.941	13586	9816	0.722	0.03	
9.170	27594	25281	0.916	0.06	
9.960	18865	13913	0.738	0.04	
	43514228	38311094		100.000	

Total unknown % area = 30

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018057.D
Lab Smp Id: 40157825006 Client Smp ID: TD2-170619-01-YP-06
Inj Date : 31-MAR-2018 05:48
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157825006,
Misc Info : 17602,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 06-Apr-2018 14:21 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 57
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndV

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.026	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE

1 Aroclor 1221 CAS #: 11104-28-2

Operator disabled compound identification.

$	2 Tetrachloro-m-xylene					CAS #: 877-09-8		
2.484	2.484	0.000	11135239	0.09031	45			

---

3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

---

4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	682095	0.29112	140	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	668288	0.16102	80	0.00- 20.00	97.98	BA
4.813	4.812	0.001	589084	0.29018	140	0.00- 20.00	86.36	BA
4.879	4.879	0.000	1413511	0.28060	140	0.00- 20.00	207.23	BA
5.037	5.038	-0.001	677334	0.18875	94	0.00- 20.00	99.30	BA
Average of Peak Concentrations =					120			
7 Aroclor 1254					CAS #: 11097-69-1			
5.162	5.162	0.000	845112	0.16143	80	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	595271	0.13840	69	0.00- 20.00	70.44	BA
5.509	5.510	-0.001	978330	0.12598	63	0.00- 20.00	115.76	BA
6.025	6.027	-0.002	738131	0.15158	76	0.00- 20.00	87.34	BA
6.299	6.299	0.000	1058270	0.16263	81	0.00- 20.00	125.22	BA
Average of Peak Concentrations =					74			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	CO
7.003	7.006	-0.003	299757	0.02993	15	0.00- 20.00	30.60	CO
7.250	7.251	-0.001	170628	0.03570	18	0.00- 20.00	16.12	CO
7.441	7.443	-0.002	165363	0.05673	28	0.00- 20.00	15.63	CO
7.898	7.901	-0.003	97506	0.03695	18	0.00- 20.00	9.21	CO
Average of Peak Concentrations =					20			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	10186042	0.09297	46			

QC Flag Legend

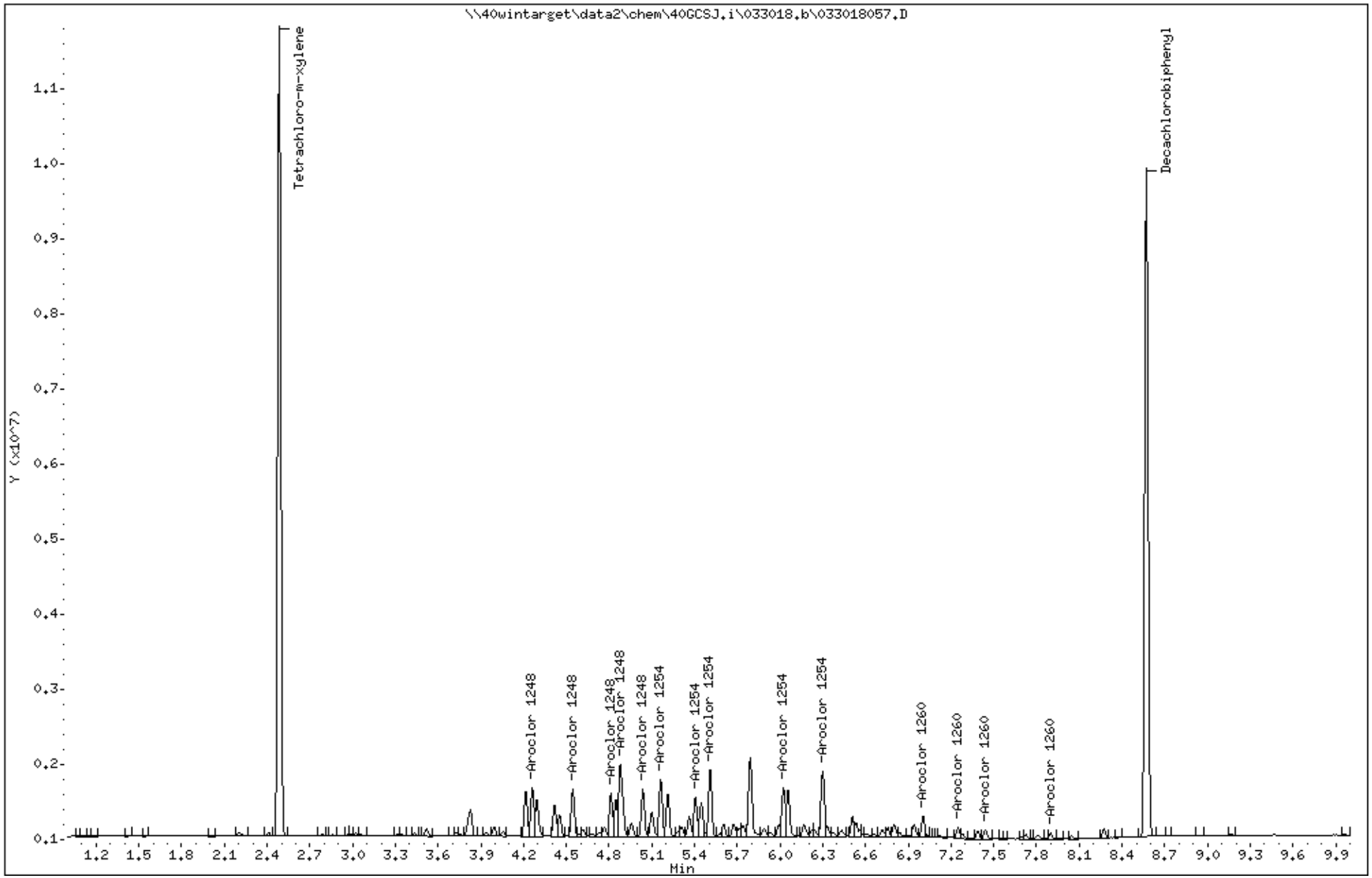
M - Compound response manually integrated.

Review Codes Legend

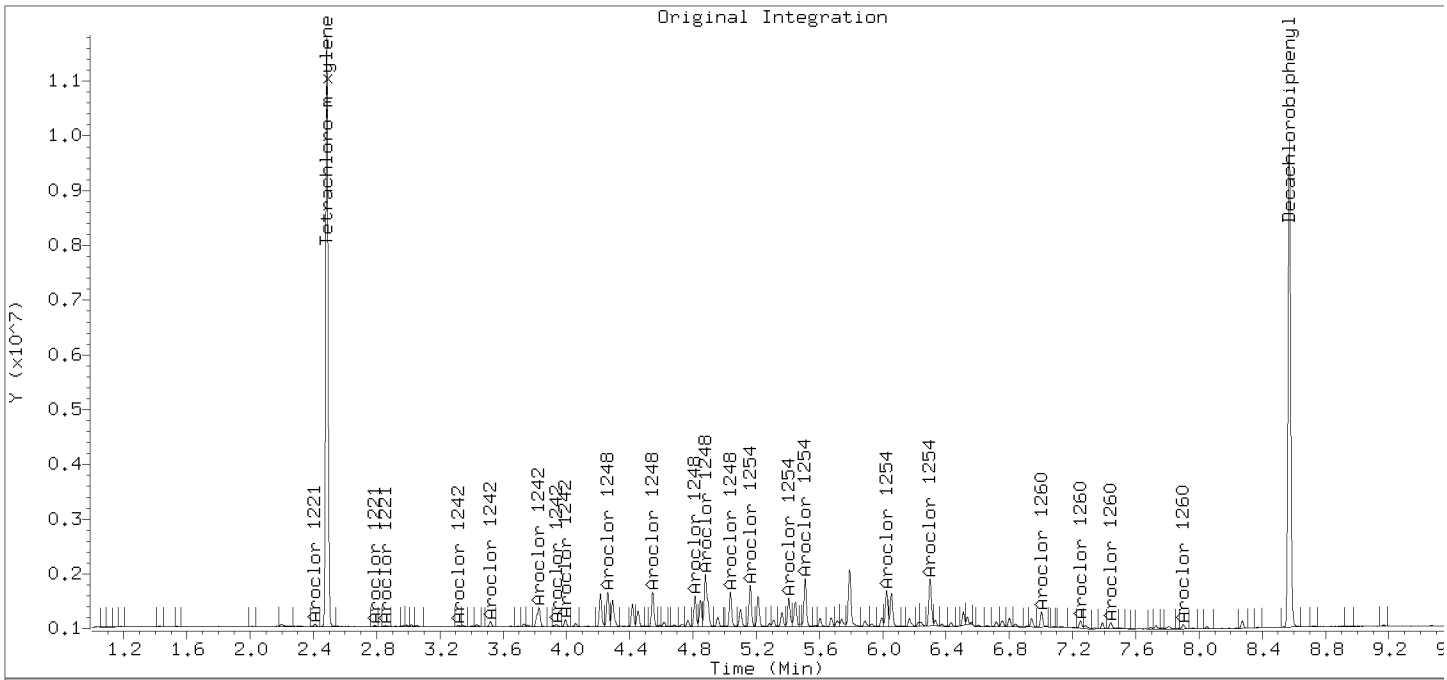
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

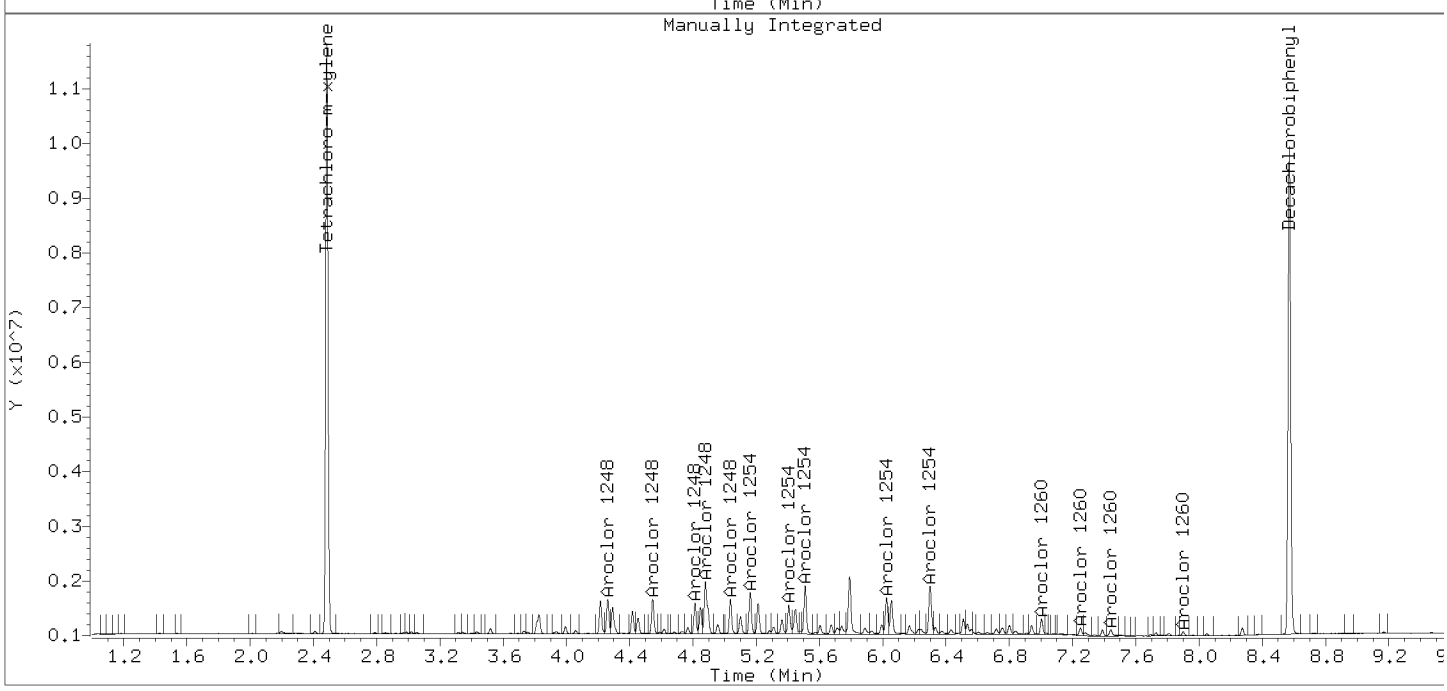
Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018057.D
Date : 31-MAR-2018 05:48
Client ID: TD2-170619-01-YP-06
Sample Info: 40157825006,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

Instrument: 40GCSJ.i
Operator: BLM
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b/033018057.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 31-MAR-2018 05:48 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157825006





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	31196	0	
Aroclor 1016	31196	0	
Aroclor 1016	31196	0	
Aroclor 1016	31196	0	
Aroclor 1016	31196	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	27959	0	
Aroclor 1232	27959	0	
Aroclor 1232	27959	0	
Aroclor 1232	27959	0	

Aroclor 1232	27959	0	
Aroclor 1242	31196	0	
Aroclor 1242	31196	0	
Aroclor 1242	31196	0	
Aroclor 1242	31196	0	
Aroclor 1242	31196	0	
Aroclor 1248	671282	682095	BA
Aroclor 1248	671282	682095	BA
Aroclor 1248	671282	682095	BA
Aroclor 1248	671282	682095	BA
Aroclor 1248	671282	682095	BA
Aroclor 1254	818761	845112	BA
Aroclor 1254	818761	845112	BA
Aroclor 1254	818761	845112	BA
Aroclor 1254	818761	845112	BA
Aroclor 1254	818761	845112	BA
Aroclor 1260	995502	0	CO
Aroclor 1260	995502	0	CO
Aroclor 1260	995502	0	CO
Aroclor 1260	995502	0	CO
Aroclor 1260	995502	0	CO
Tetrachloro-m-xylene	11135239	11135239	
Decachlorobiphenyl	10186042	10186042	

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SAMPLE NO.

TD1-170619-01-YP-10

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/03/2017 10:20
Matrix: Tissue SDG No.: 40157825
Date Extracted: 03/29/2018 07:15
Lab Sample ID: 40157825007
Date Analyzed: 03/31/2018 06:20
Lab File ID: 033018.B\033018059.D
Initial wt/vol: 10.0166 Final wt/vol: 5 mL Dilution: 2
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<22.8	U
11104-28-2	PCB-1221 (Aroclor 1221)	<22.8	U
11141-16-5	PCB-1232 (Aroclor 1232)	<22.8	U
53469-21-9	PCB-1242 (Aroclor 1242)	<22.8	U
12672-29-6	PCB-1248 (Aroclor 1248)	465	
11097-69-1	PCB-1254 (Aroclor 1254)	242	
11096-82-5	PCB-1260 (Aroclor 1260)	29.0	J
1336-36-3	PCB, Total	736	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018059.D
Lab Smp Id: 40157825007 Client Smp ID: TD1-170619-01-YP-10
Inj Date : 31-MAR-2018 06:20
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157825007 x2,
Misc Info : 17602,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 06-Apr-2018 14:21 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 59
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndV

Name	Value	Description
DF	2.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.017	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.149	9843	6649	0.676	0.02		
1.181	12303	11330	0.921	0.02		
1.421	9300	6531	0.702	0.01		
1.803	12738	8466	0.665	0.02		
2.015	10962	7027	0.641	0.02		
2.171	14559	10602	0.728	0.03		
2.410	86765	68517	0.790	0.18		
2.485	5209559	5029988	0.966	11.70	$ 2 Tetrachloro-m-xylene	
2.787	18835	16228	0.862	0.04		
2.852	50372	39490	0.784	0.10		
2.974	54849	24193	0.441	0.11		
3.019	36273	34638	0.955	0.07		
3.055	124447	110057	0.884	0.26		
3.317	94854	94848	1.000	0.20		
3.344	126567	117822	0.931	0.27		
3.433	192820	176934	0.918	0.41		
3.519	266420	231091	0.867	0.57		
3.645	27382	23703	0.866	0.05		
3.732	117204	117405	1.002	0.25		
3.755	64703	62724	0.969	0.13		
3.827	1020899	653147	0.640	2.18		
3.935	237982	160571	0.675	0.51		
3.993	265803	249933	0.940	0.57		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.058	147381	134592	0.913	0.31	
4.135	36781	30808	0.838	0.07	
4.214	1357785	1241744	0.915	2.91	
4.261	1353033	1291390	0.954	2.90	6 Aroclor 1248
4.292	1373866	1115495	0.812	2.94	
4.417	945641	910221	0.963	2.02	
4.452	673933	619288	0.919	1.44	
4.546	1509064	1412820	0.936	3.23	6 Aroclor 1248
4.589	75222	65761	0.874	0.16	
4.618	197737	175818	0.889	0.42	
4.682	72240	60989	0.844	0.15	
4.731	112002	74700	0.667	0.24	
4.768	206446	196247	0.951	0.44	
4.813	1064795	1013509	0.952	2.28	6 Aroclor 1248
4.847	865658	851471	0.984	1.85	
4.878	2580039	1705080	0.661	5.53	6 Aroclor 1248
4.957	367401	307376	0.837	0.78	
5.037	1256205	1176489	0.937	2.69	6 Aroclor 1248
5.101	708048	591324	0.835	1.51	
5.162	1292736	1168271	0.904	2.77	7 Aroclor 1254
5.211	1043220	932093	0.893	2.23	
5.283	113094	101555	0.898	0.24	
5.308	216144	183738	0.850	0.46	
5.363	518385	466667	0.900	1.11	
5.406	1013905	888665	0.876	2.17	7 Aroclor 1254
5.447	787433	703461	0.893	1.68	
5.481	93967	93423	0.994	0.20	
5.510	1821968	1607288	0.882	3.90	7 Aroclor 1254
5.577	56092	47820	0.853	0.12	
5.604	331578	289300	0.872	0.71	
5.675	264706	240906	0.910	0.56	
5.710	243982	175668	0.720	0.52	
5.741	336687	236030	0.701	0.72	
5.791	2054376	1622765	0.790	4.40	
5.887	243635	167498	0.687	0.52	
5.930	108707	67959	0.625	0.23	
5.993	218282	211146	0.967	0.46	
6.024	1294103	1153907	0.892	2.77	7 Aroclor 1254
6.056	903485	774333	0.857	1.93	
6.169	281243	192863	0.686	0.60	
6.226	110419	117905	1.068	0.23	
6.241	161049	129077	0.801	0.34	
6.299	1488195	1235815	0.830	3.19	7 Aroclor 1254
6.333	198434	183185	0.923	0.42	
6.373	104830	77981	0.744	0.22	
6.432	117322	80943	0.690	0.25	
6.509	292101	259495	0.888	0.62	
6.534	319532	300750	0.941	0.68	
6.561	111818	91734	0.820	0.23	
6.602	56216	40514	0.721	0.12	
6.659	42213	29203	0.692	0.09	
6.716	136619	109189	0.799	0.29	
6.757	195569	149169	0.763	0.41	
6.800	240763	209118	0.869	0.51	
6.842	89343	58091	0.650	0.19	
6.942	321287	280490	0.873	0.68	
7.004	267426	238332	0.891	0.57	8 Aroclor 1260

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.031	22844	26532	1.161	0.04	
7.100	20246	20153	0.995	0.04	
7.251	163917	141980	0.866	0.35	8 Aroclor 1260
7.279	76395	54189	0.709	0.16	
7.340	23292	14331	0.615	0.04	
7.387	69774	66534	0.954	0.14	
7.442	101564	79018	0.778	0.21	8 Aroclor 1260
7.545	12049	10850	0.900	0.02	
7.692	26312	26303	1.000	0.05	
7.725	40646	29603	0.728	0.08	
7.775	23223	14298	0.616	0.04	
7.811	79568	61532	0.773	0.17	
7.860	13911	10006	0.719	0.02	
7.898	53369	42708	0.800	0.11	8 Aroclor 1260
8.049	96081	86123	0.896	0.20	
8.144	10403	7479	0.719	0.02	
8.274	67939	61231	0.901	0.14	
8.378	26455	20461	0.773	0.05	
8.570	5059823	4230468	0.836	10.85	$ 12 Decachlorobiphenyl
8.726	15289	13196	0.863	0.03	
8.943	36423	22970	0.631	0.07	
9.166	15067	12864	0.854	0.03	
9.465	49405	31961	0.647	0.10	
9.961	55751	35524	0.637	0.11	
	46619320	40273677		100.000	

Total unknown % area = 45

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018059.D
Lab Smp Id: 40157825007 Client Smp ID: TD1-170619-01-YP-10
Inj Date : 31-MAR-2018 06:20
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157825007 x2,
Misc Info : 17602,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 06-Apr-2018 14:21 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 59
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndV

Name	Value	Description
DF	2.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.017	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE

1 Aroclor 1221 CAS #: 11104-28-2

Operator disabled compound identification.

$ 2 Tetrachloro-m-xylene CAS #: 877-09-8

2.484	2.484	0.000	5209559	0.04225	42			

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	1353032	0.57748	580	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1509064	0.36360	360	0.00- 20.00	111.53	BA
4.812	4.812	0.000	1064795	0.52451	520	0.00- 20.00	78.70	BA
4.878	4.879	-0.001	2580038	0.51217	510	0.00- 20.00	190.69	BA
5.036	5.038	-0.002	1256204	0.35006	350	0.00- 20.00	92.84	BA
Average of Peak Concentrations =					460			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	1292736	0.24693	250	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	1013904	0.23573	240	0.00- 20.00	78.43	BA
5.509	5.510	-0.001	1821968	0.23461	230	0.00- 20.00	140.94	BA
6.023	6.027	-0.004	1294103	0.26575	260	0.00- 20.00	100.11	BA
6.298	6.299	-0.001	1488195	0.22870	230	0.00- 20.00	115.12	BA
Average of Peak Concentrations =					240			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	CO
7.003	7.006	-0.003	267426	0.02670	27	0.00- 20.00	19.48	CO
7.251	7.251	0.000	163917	0.03429	34	0.00- 20.00	11.01	CO
7.442	7.443	-0.001	101564	0.03484	35	0.00- 20.00	6.82	CO
7.897	7.901	-0.004	53368	0.02022	20	0.00- 20.00	3.59	CO
Average of Peak Concentrations =					29			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	5059823	0.04618	46			

QC Flag Legend

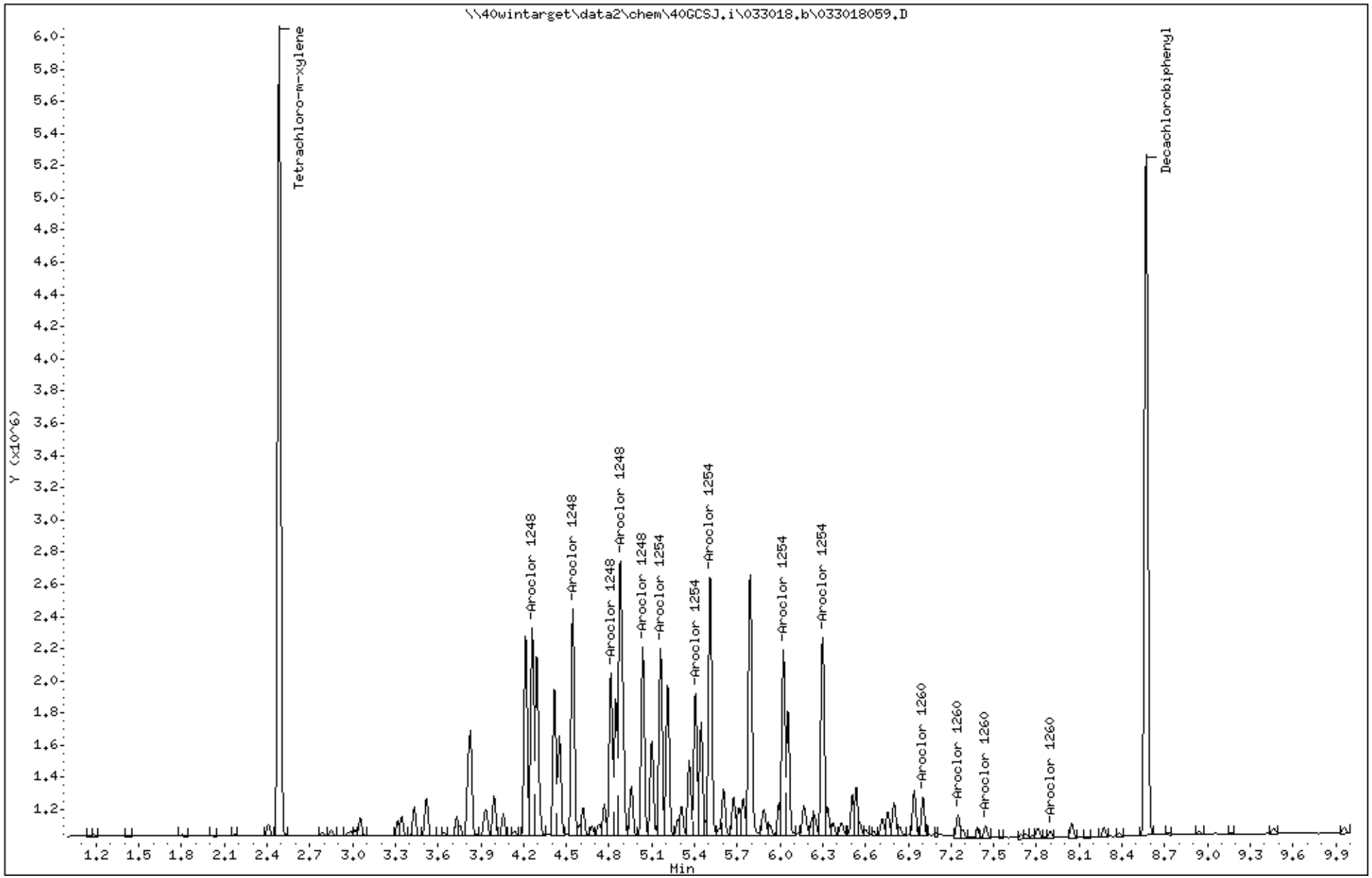
M - Compound response manually integrated.

Review Codes Legend

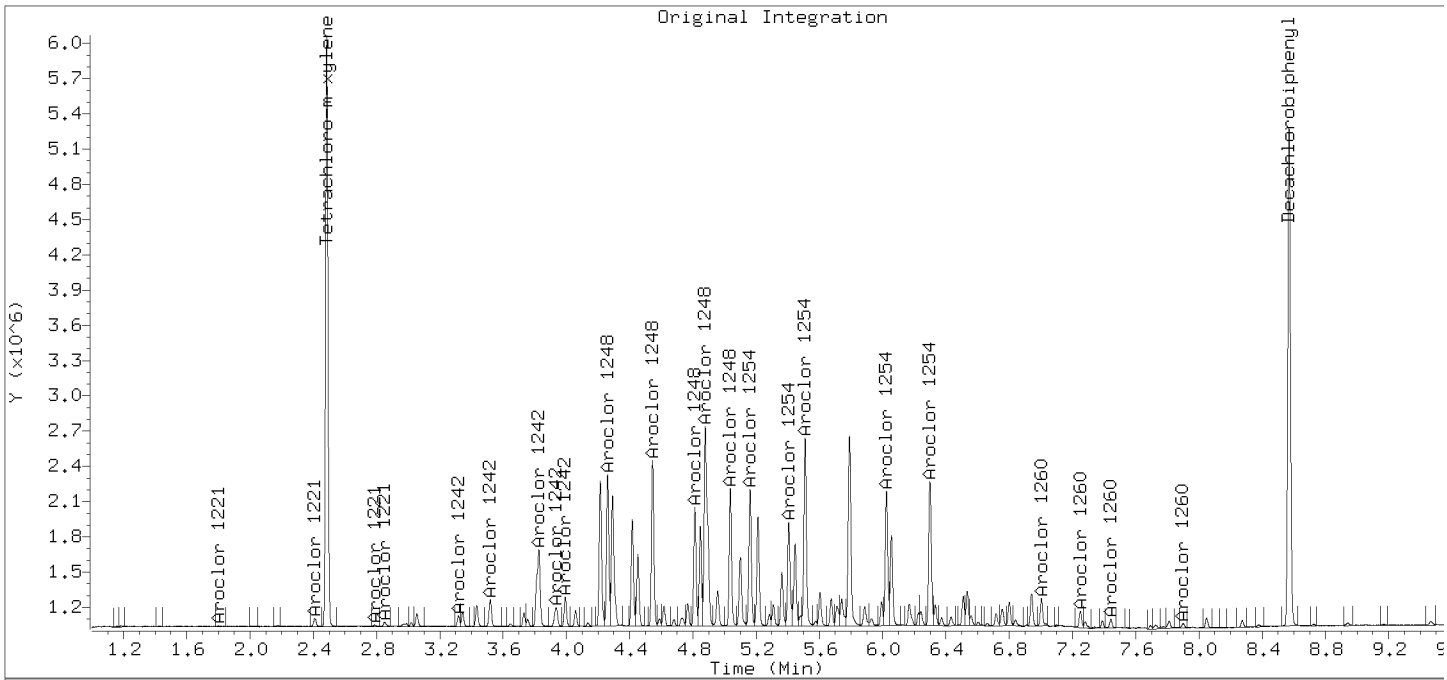
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

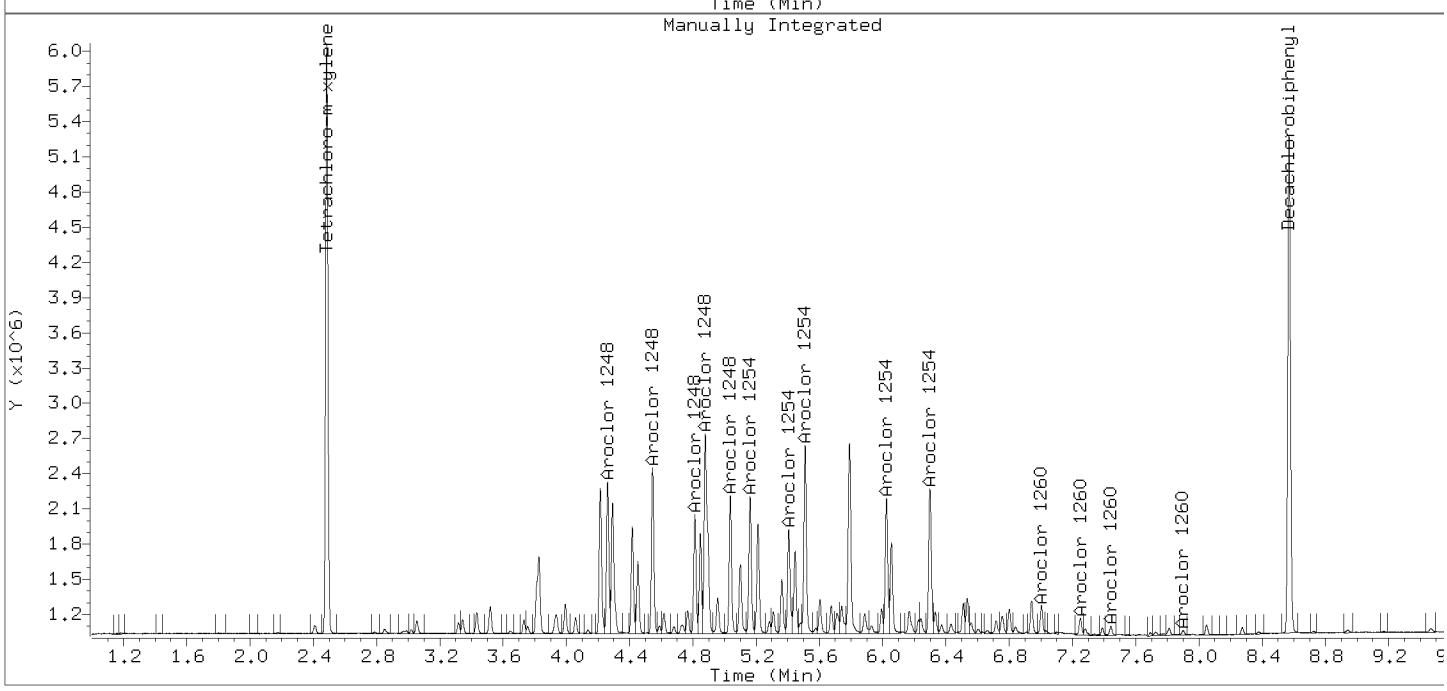
Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018059.D
Date : 31-MAR-2018 06:20
Client ID: TD1-170619-01-YP-10
Sample Info: 40157825007 x2,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

Instrument: 40GCSJ.i
Operator: BLM
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b/033018059.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 31-MAR-2018 06:20 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157825007





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	94853	0	
Aroclor 1016	94853	0	
Aroclor 1016	94853	0	
Aroclor 1016	94853	0	
Aroclor 1016	94853	0	
Aroclor 1221	12737	0	
Aroclor 1221	12737	0	
Aroclor 1221	12737	0	
Aroclor 1221	12737	0	
Aroclor 1221	12737	0	
Aroclor 1232	50371	0	
Aroclor 1232	50371	0	
Aroclor 1232	50371	0	
Aroclor 1232	50371	0	

Aroclor 1232	50371	0	
Aroclor 1242	94853	0	
Aroclor 1242	94853	0	
Aroclor 1242	94853	0	
Aroclor 1242	94853	0	
Aroclor 1242	94853	0	
Aroclor 1248	1339320	1353032	BA
Aroclor 1248	1339320	1353032	BA
Aroclor 1248	1339320	1353032	BA
Aroclor 1248	1339320	1353032	BA
Aroclor 1248	1339320	1353032	BA
Aroclor 1254	1272668	1292736	BA
Aroclor 1254	1272668	1292736	BA
Aroclor 1254	1272668	1292736	BA
Aroclor 1254	1272668	1292736	BA
Aroclor 1254	1272668	1292736	BA
Aroclor 1260	1461724	0	CO
Aroclor 1260	1461724	0	CO
Aroclor 1260	1461724	0	CO
Aroclor 1260	1461724	0	CO
Aroclor 1260	1461724	0	CO
Tetrachloro-m-xylene	5209559	5209559	
Decachlorobiphenyl	5059823	5059823	

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SAMPLE NO.

TD1-170619-01-YP-09

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/03/2017 10:20
Matrix: Tissue SDG No.: 40157825
Date Extracted: 03/29/2018 07:15
Lab Sample ID: 40157825008
Date Analyzed: 03/31/2018 06:35
Lab File ID: 033018.B\033018060.D
Initial wt/vol: 9.9926 g Final wt/vol: 5 mL Dilution: 3
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<34.2	U
11104-28-2	PCB-1221 (Aroclor 1221)	<34.2	U
11141-16-5	PCB-1232 (Aroclor 1232)	<34.2	U
53469-21-9	PCB-1242 (Aroclor 1242)	<34.2	U
12672-29-6	PCB-1248 (Aroclor 1248)	815	
11097-69-1	PCB-1254 (Aroclor 1254)	453	
11096-82-5	PCB-1260 (Aroclor 1260)	67.4	J
1336-36-3	PCB, Total	1340	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018060.D
Lab Smp Id: 40157825008 Client Smp ID: TD1-170619-01-YP-09
Inj Date : 31-MAR-2018 06:35
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157825008 x3,
Misc Info : 17602,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 06-Apr-2018 14:21 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 60
Dil Factor: 3.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndV

Name	Value	Description
DF	3.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.993	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.411	62847	50894	0.810	0.12		
2.485	3434760	3234736	0.942	6.81	$ 2 Tetrachloro-m-xylene	
2.788	10938	9695	0.886	0.02		
2.851	33565	25631	0.764	0.06		
2.974	40019	19379	0.484	0.07		
3.018	25038	23281	0.930	0.04		
3.055	71428	65993	0.924	0.14		
3.317	63235	64485	1.020	0.12		
3.343	74674	68280	0.914	0.14		
3.432	115437	109144	0.945	0.22		
3.519	206715	194112	0.939	0.41		
3.644	19131	15563	0.813	0.03		
3.733	107224	103004	0.961	0.21		
3.754	63259	63056	0.997	0.12		
3.826	1106908	740315	0.669	2.19		
3.936	159683	109593	0.686	0.31		
3.994	262207	251490	0.959	0.52		
4.059	135690	125149	0.922	0.26		
4.133	28817	21219	0.736	0.05		
4.214	1698106	1588988	0.936	3.36		
4.261	1659834	1566397	0.944	3.29	6 Aroclor 1248	BA
4.292	1499740	1242621	0.829	2.97		
4.417	1336624	1289980	0.965	2.65		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.452	922522	843666	0.915	1.83	
4.545	1550139	1461556	0.943	3.07	6 Aroclor 1248
4.589	48002	47993	1.000	0.09	
4.616	232260	208032	0.896	0.46	
4.680	63002	55518	0.881	0.12	
4.729	118091	89209	0.755	0.23	
4.767	208263	196298	0.943	0.41	
4.812	1181450	1168174	0.989	2.34	6 Aroclor 1248
4.848	1187125	1110404	0.935	2.35	
4.878	3111187	2004167	0.644	6.17	6 Aroclor 1248
4.957	392921	347940	0.886	0.77	
5.037	1556425	1422558	0.914	3.08	6 Aroclor 1248
5.099	782424	674623	0.862	1.55	
5.161	1590840	1384416	0.870	3.15	7 Aroclor 1254
5.212	1322070	1194263	0.903	2.62	
5.283	99768	101411	1.016	0.19	
5.308	224122	185232	0.826	0.44	
5.362	702996	656962	0.935	1.39	
5.406	1231043	1096263	0.891	2.44	7 Aroclor 1254
5.445	904279	785078	0.868	1.79	
5.483	77486	93673	1.209	0.15	
5.508	2296421	1970164	0.858	4.55	7 Aroclor 1254
5.576	56319	41737	0.741	0.11	
5.603	452822	386129	0.853	0.89	
5.674	372317	349440	0.939	0.73	
5.714	306992	215405	0.702	0.60	
5.740	365188	271224	0.743	0.72	
5.789	2568373	2048403	0.798	5.09	
5.887	272875	182409	0.668	0.54	
5.927	98185	64695	0.659	0.19	
5.992	273631	258288	0.944	0.54	
6.023	1470776	1263184	0.859	2.91	7 Aroclor 1254
6.055	1173312	1019056	0.869	2.32	
6.124	23963	17441	0.728	0.04	
6.169	388175	287237	0.740	0.77	
6.226	155405	145135	0.934	0.30	
6.241	164279	155826	0.949	0.32	
6.298	2090216	1763194	0.844	4.14	7 Aroclor 1254
6.333	245517	219187	0.893	0.48	
6.371	133872	111940	0.836	0.26	
6.432	113370	85287	0.752	0.22	
6.509	827989	762504	0.921	1.64	
6.535	414836	388530	0.937	0.82	
6.559	139100	129634	0.932	0.27	
6.605	67438	48995	0.727	0.13	
6.660	37888	34770	0.918	0.07	
6.717	232473	214365	0.922	0.46	
6.757	213607	176490	0.826	0.42	
6.801	301512	279600	0.927	0.59	
6.839	88045	69410	0.788	0.17	
6.905	10629	11097	1.044	0.02	
6.940	186584	176368	0.945	0.37	
7.004	353655	325421	0.920	0.70	8 Aroclor 1260
7.034	69284	66634	0.962	0.13	
7.118	24090	16166	0.671	0.04	
7.250	260420	237361	0.911	0.51	8 Aroclor 1260
7.280	106902	82210	0.769	0.21	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.334	19180	14852	0.774	0.03	
7.388	219344	189181	0.862	0.43	
7.441	140572	119177	0.848	0.27	8 Aroclor 1260
7.551	13620	12476	0.916	0.02	
7.690	49381	46996	0.952	0.09	
7.726	42451	33224	0.783	0.08	
7.811	58047	38492	0.663	0.11	
7.900	109808	87961	0.801	0.21	8 Aroclor 1260
7.963	15677	13505	0.861	0.03	
8.048	53000	45541	0.859	0.10	
8.275	81901	74259	0.907	0.16	
8.381	12813	10407	0.812	0.02	
8.570	3481143	2974504	0.854	7.37	$ 12 Decachlorobiphenyl
9.170	21098	15959	0.756	0.04	
9.959	12064	10442	0.866	0.02	
	50408852	43672353		100.000	

Total unknown % area = 49

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018060.D
Lab Smp Id: 40157825008 Client Smp ID: TD1-170619-01-YP-09
Inj Date : 31-MAR-2018 06:35
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157825008 x3,
Misc Info : 17602,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 06-Apr-2018 14:21 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 60
Dil Factor: 3.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndV

Name	Value	Description
DF	3.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.993	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	3434760	0.02786	42			
3 Aroclor 1242					CAS #: 53469-21-9			
Operator disabled compound identification.								
4 Aroclor 1232					CAS #: 1114-16-5			
Operator disabled compound identification.								

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	1659834	0.70843	1100	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1550139	0.37350	560	0.00- 20.00	93.39	BA
4.811	4.812	-0.001	1181449	0.58197	870	0.00- 20.00	71.18	BA
4.877	4.879	-0.002	3111187	0.61761	930	0.00- 20.00	187.44	BA
5.037	5.038	-0.001	1556424	0.43372	650	0.00- 20.00	93.77	BA
Average of Peak Concentrations =					820			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	1590840	0.30387	460	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	1231043	0.28622	430	0.00- 20.00	77.38	BA
5.508	5.510	-0.002	2296421	0.29570	440	0.00- 20.00	144.35	BA
6.023	6.027	-0.004	1470776	0.30203	450	0.00- 20.00	92.45	BA
6.298	6.299	-0.001	2090215	0.32122	480	0.00- 20.00	131.39	BA
Average of Peak Concentrations =					450			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
7.004	7.006	-0.002	353654	0.03531	53	0.00- 20.00	16.92	BA
7.250	7.251	-0.001	260419	0.05448	82	0.00- 20.00	12.46	BA
7.440	7.443	-0.003	140571	0.04822	72	0.00- 20.00	6.73	BA
7.900	7.901	-0.001	109807	0.04161	62	0.00- 20.00	5.25	BA
Average of Peak Concentrations =					67			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	3481143	0.03177	48			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018060.D

Date : 31-MAR-2018 06:35

Client ID: TD1-170619-01-YP-09

Instrument: 40GCSJ.i

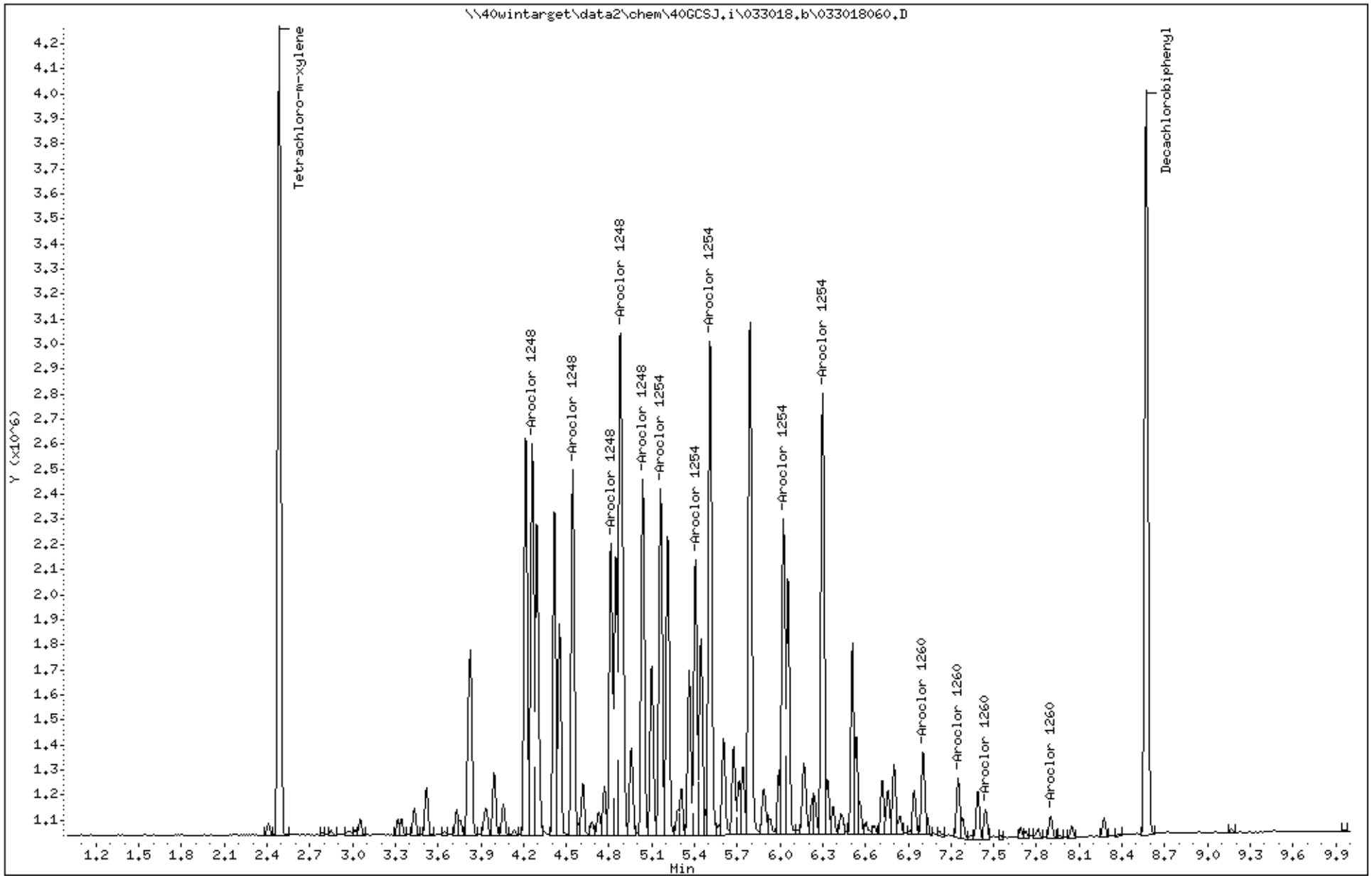
Sample Info: 40157825008 x3,

Volume Injected (uL): 1.0

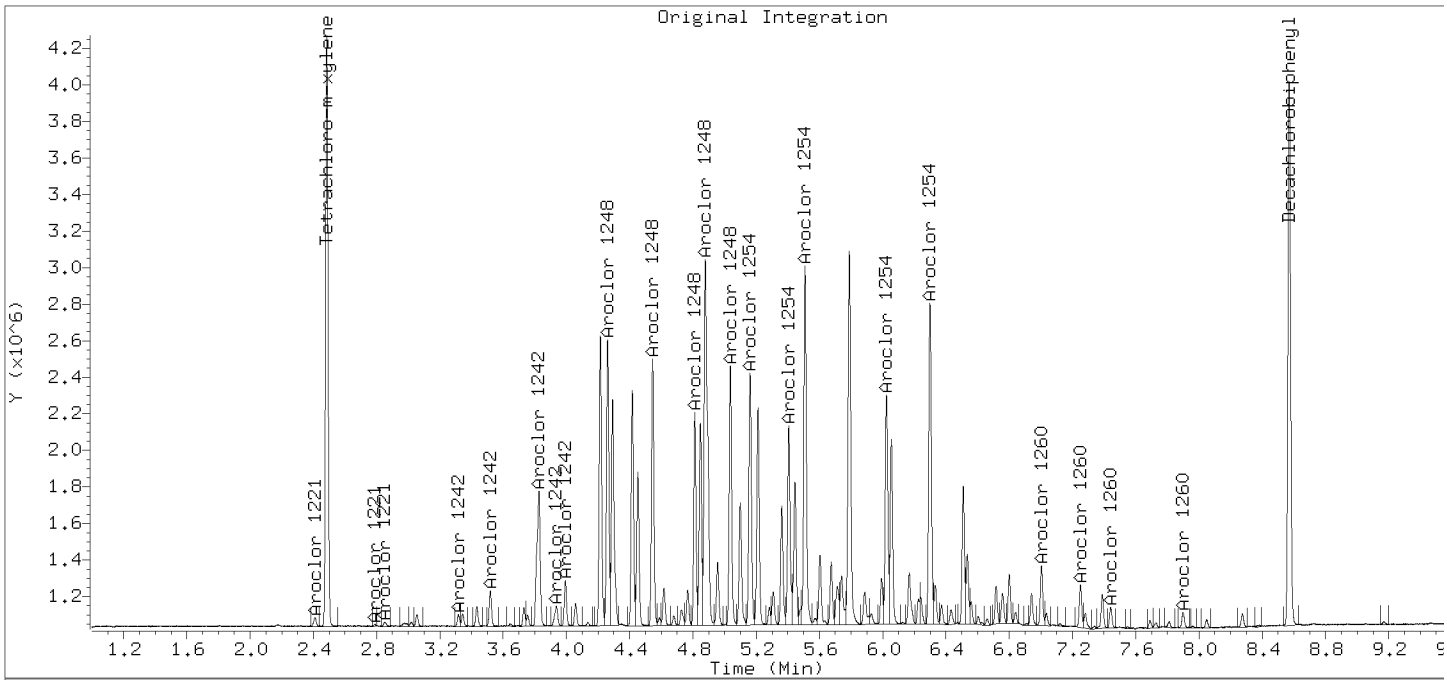
Operator: BLM

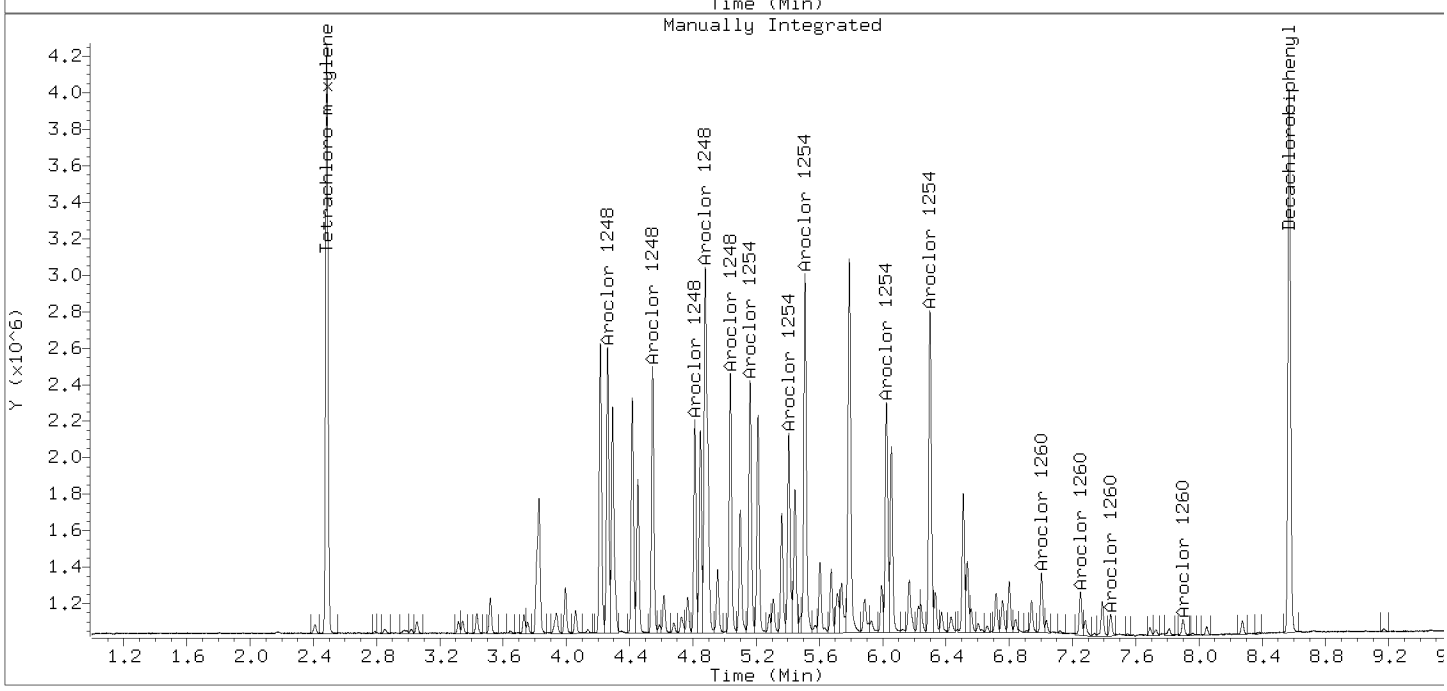
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b/033018060.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 31-MAR-2018 06:35 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157825008





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	63235	0	
Aroclor 1016	63235	0	
Aroclor 1016	63235	0	
Aroclor 1016	63235	0	
Aroclor 1016	63235	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	33564	0	
Aroclor 1232	33564	0	
Aroclor 1232	33564	0	
Aroclor 1232	33564	0	

Aroclor 1232	33564	0	
Aroclor 1242	63235	0	
Aroclor 1242	63235	0	
Aroclor 1242	63235	0	
Aroclor 1242	63235	0	
Aroclor 1242	63235	0	
Aroclor 1248	1648132	1659834	BA
Aroclor 1248	1648132	1659834	BA
Aroclor 1248	1648132	1659834	BA
Aroclor 1248	1648132	1659834	BA
Aroclor 1248	1648132	1659834	BA
Aroclor 1254	1574984	1590840	BA
Aroclor 1254	1574984	1590840	BA
Aroclor 1254	1574984	1590840	BA
Aroclor 1254	1574984	1590840	BA
Aroclor 1254	1574984	1590840	BA
Aroclor 1260	2066731	0	BA
Aroclor 1260	2066731	0	BA
Aroclor 1260	2066731	0	BA
Aroclor 1260	2066731	0	BA
Aroclor 1260	2066731	0	BA
Tetrachloro-m-xylene	3434760	3434760	
Decachlorobiphenyl	3481143	3481143	

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SAMPLE NO.

TD1-170619-01-YP-08

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/03/2017 10:20
Matrix: Tissue SDG No.: 40157825
Date Extracted: 03/29/2018 07:15
Lab Sample ID: 40157825009
Date Analyzed: 03/31/2018 06:51
Lab File ID: 033018.B\033018061.D
Initial wt/vol: 10.0203 Final wt/vol: 5 mL Dilution: 5
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<56.9	U
11104-28-2	PCB-1221 (Aroclor 1221)	<56.9	U
11141-16-5	PCB-1232 (Aroclor 1232)	<56.9	U
53469-21-9	PCB-1242 (Aroclor 1242)	<56.9	U
12672-29-6	PCB-1248 (Aroclor 1248)	1170	
11097-69-1	PCB-1254 (Aroclor 1254)	558	
11096-82-5	PCB-1260 (Aroclor 1260)	<56.9	U
1336-36-3	PCB, Total	1730	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018061.D
Lab Smp Id: 40157825009 Client Smp ID: TD1-170619-01-YP-08
Inj Date : 31-MAR-2018 06:51
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157825009 x5,
Misc Info : 17602,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 06-Apr-2018 14:21 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 61
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndV

Name	Value	Description
DF	5.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.020	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.169	14725	9718	0.660	0.03		
2.412	55997	44800	0.800	0.14		
2.484	2315323	2210518	0.955	6.07	$ 2 Tetrachloro-m-xylene	
2.849	14115	14689	1.041	0.03		
3.021	13974	14671	1.050	0.03		
3.054	94740	93036	0.982	0.24		
3.319	42191	41269	0.978	0.11		
3.344	51493	45773	0.889	0.13		
3.434	159981	148846	0.930	0.41		
3.519	276994	262042	0.946	0.72		
3.646	31476	25778	0.819	0.08		
3.732	99014	98681	0.997	0.25		
3.757	54807	52979	0.967	0.14		
3.827	920720	605113	0.657	2.41		
3.938	178454	133034	0.745	0.46		
3.993	304661	293089	0.962	0.79		
4.059	153236	137380	0.897	0.40		
4.136	19430	17992	0.926	0.05		
4.215	1344064	1230398	0.915	3.52		
4.261	1353786	1271615	0.939	3.54	6 Aroclor 1248	BA
4.292	1439083	1187124	0.825	3.77		
4.417	1000651	967018	0.966	2.62		
4.452	747941	680186	0.909	1.96		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.545	1435463	1358139	0.946	3.76	6 Aroclor 1248
4.589	62559	60896	0.973	0.16	
4.617	198489	179961	0.907	0.52	
4.680	77137	63652	0.825	0.20	
4.728	125561	87107	0.694	0.32	
4.768	213436	204173	0.957	0.55	
4.813	1060499	1015215	0.957	2.78	6 Aroclor 1248
4.847	865423	855648	0.989	2.26	
4.879	2668451	1719957	0.645	7.44	6 Aroclor 1248
4.957	383186	330539	0.863	1.00	
5.036	1354455	1277951	0.944	3.55	6 Aroclor 1248
5.100	668085	584296	0.875	1.75	
5.162	1222432	1098996	0.899	3.20	7 Aroclor 1254
5.212	967388	878032	0.908	2.53	
5.283	95955	88879	0.926	0.25	
5.309	190024	162444	0.855	0.49	
5.363	480843	440739	0.917	1.26	
5.407	985772	837190	0.849	2.58	7 Aroclor 1254
5.446	624919	540433	0.865	1.63	
5.482	97191	96896	0.997	0.25	
5.510	1820002	1596507	0.877	4.77	7 Aroclor 1254
5.577	40969	35230	0.860	0.10	
5.603	314563	277083	0.881	0.82	
5.674	232375	210234	0.905	0.60	
5.712	231215	161575	0.699	0.60	
5.741	256185	215968	0.843	0.67	
5.790	1903165	1506109	0.791	4.99	
5.886	214503	144922	0.676	0.56	
5.928	74164	50977	0.687	0.19	
5.994	182567	170471	0.934	0.47	
6.024	1163418	1012318	0.870	3.05	7 Aroclor 1254
6.056	724489	619059	0.854	1.89	
6.169	247260	179449	0.726	0.64	
6.226	182381	99221	0.544	0.47	
6.300	1190034	982919	0.826	3.12	7 Aroclor 1254
6.333	173273	151930	0.877	0.45	
6.373	90023	69730	0.775	0.23	
6.432	82509	57971	0.703	0.21	
6.509	241108	219978	0.912	0.63	
6.536	301719	214725	0.712	0.79	
6.602	48463	32651	0.674	0.12	
6.660	26504	23516	0.887	0.06	
6.719	122320	107724	0.881	0.32	
6.759	114356	96917	0.848	0.29	
6.801	192397	171932	0.894	0.50	
6.842	62975	46020	0.731	0.16	
6.906	12540	12714	1.014	0.03	
6.942	82233	71644	0.871	0.21	
7.004	189499	182472	0.963	0.49	8 Aroclor 1260
7.034	17337	20639	1.190	0.04	
7.071	13964	9528	0.682	0.03	
7.125	32894	14242	0.433	0.08	
7.251	115941	101991	0.880	0.30	8 Aroclor 1260
7.280	60403	42452	0.703	0.15	
7.389	70987	55248	0.778	0.18	
7.441	68818	56495	0.821	0.18	8 Aroclor 1260
7.616	13102	7974	0.609	0.03	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.691	19840	17977	0.906	0.05	
7.728	26945	20840	0.773	0.07	
7.810	27866	17537	0.629	0.07	
7.900	42090	25653	0.609	0.11	8 Aroclor 1260
8.049	29659	21348	0.720	0.07	
8.272	41177	33730	0.819	0.10	
8.373	13138	9282	0.707	0.03	
8.570	2467537	2115469	0.857	6.47	$ 12 Decachlorobiphenyl
8.940	21005	15221	0.725	0.05	
9.469	27990	19266	0.688	0.07	
9.963	42829	27831	0.650	0.11	
	38134857	32821581		100.000	

Total unknown % area = 48

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018061.D
Lab Smp Id: 40157825009 Client Smp ID: TD1-170619-01-YP-08
Inj Date : 31-MAR-2018 06:51
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157825009 x5,
Misc Info : 17602,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 06-Apr-2018 14:21 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 61
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndV

Name	Value	Description
DF	5.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.020	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE

1 Aroclor 1221 CAS #: 11104-28-2

Peaks not detected for Quant. or Qual. signal(s).

$ 2 Tetrachloro-m-xylene CAS #: 877-09-8

RT	EXP RT	DLT RT	RESPONSE	ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
2.484	2.484	0.000	2315322	0.01878	47			

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	1353786	0.57781	1400	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1435462	0.34587	860	0.00- 20.00	106.03	BA
4.812	4.812	0.000	1060499	0.52239	1300	0.00- 20.00	78.34	BA
4.878	4.879	-0.001	2668450	0.52972	1300	0.00- 20.00	197.11	BA
5.036	5.038	-0.002	1354454	0.37744	940	0.00- 20.00	100.05	BA
Average of Peak Concentrations =					1200			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	1222431	0.23350	580	0.00- 20.00	100.00(M)	BA
5.407	5.408	-0.001	985771	0.22919	570	0.00- 20.00	80.64	BA
5.509	5.510	-0.001	1820001	0.23435	580	0.00- 20.00	148.88	BA
6.023	6.027	-0.004	1163417	0.23891	600	0.00- 20.00	95.17	BA
6.299	6.299	0.000	1190034	0.18288	460	0.00- 20.00	97.35	BA
Average of Peak Concentrations =					560			
8 Aroclor 1260					CAS #: 11096-82-5			
Qualifier signal(s) failed ratio test.								CO
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	2467537	0.02252	56			

QC Flag Legend

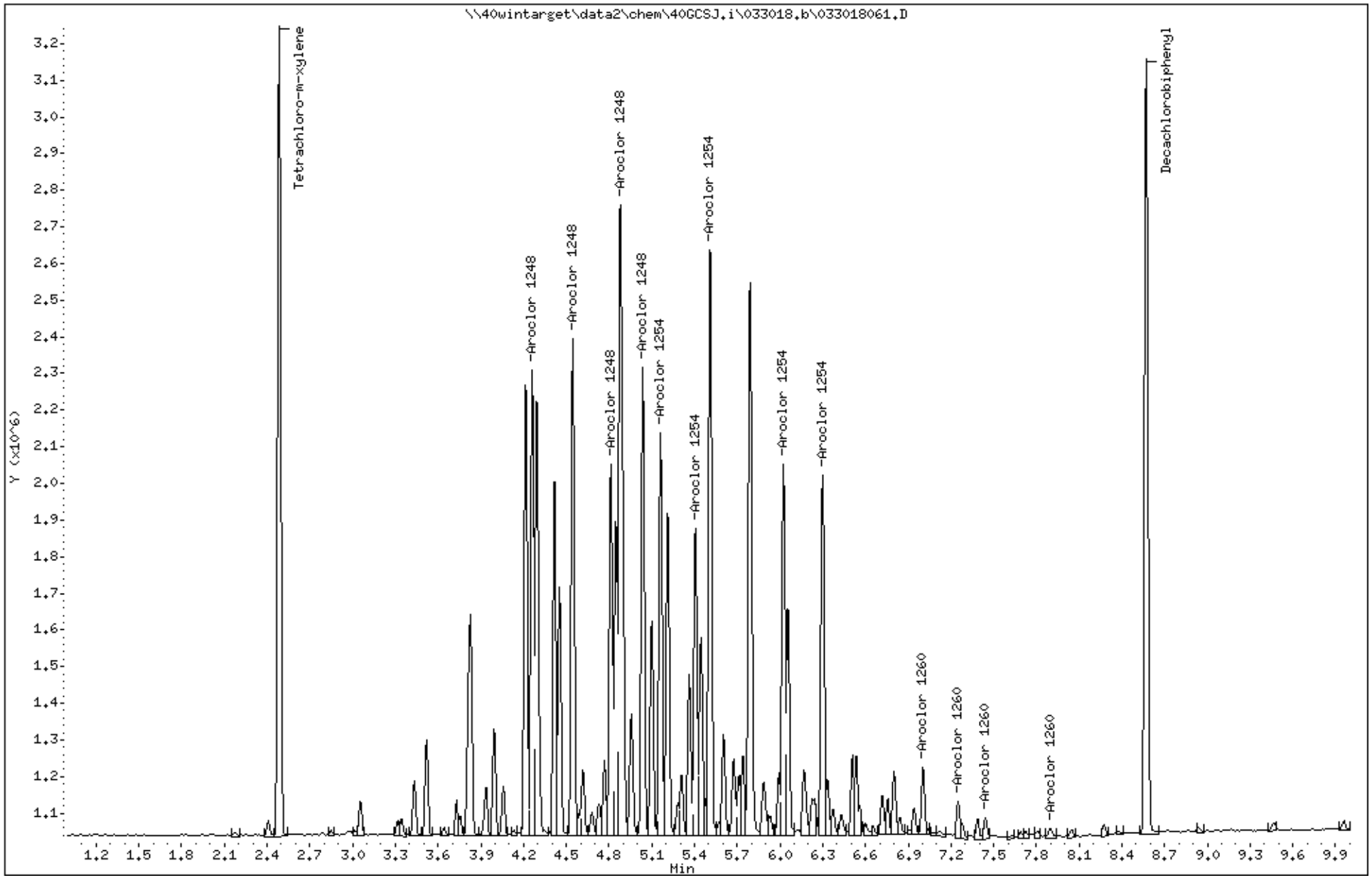
M - Compound response manually integrated.

Review Codes Legend

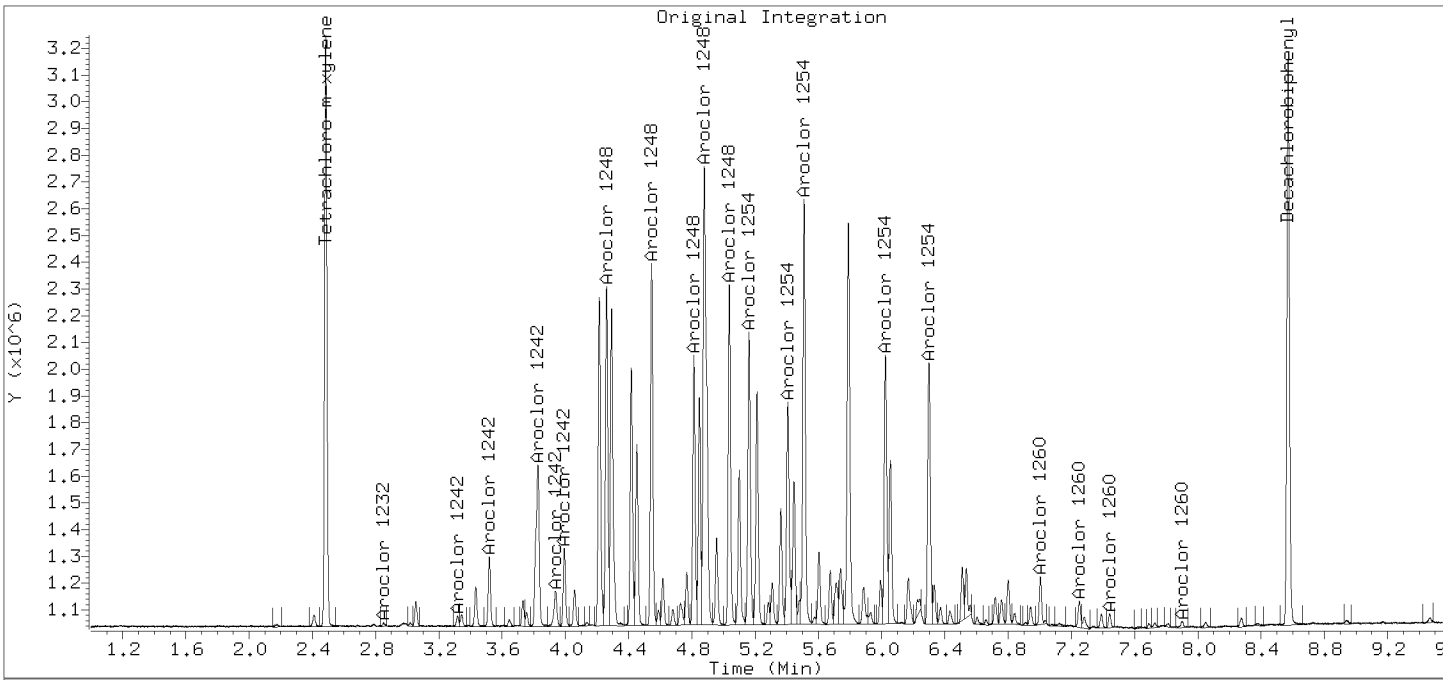
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

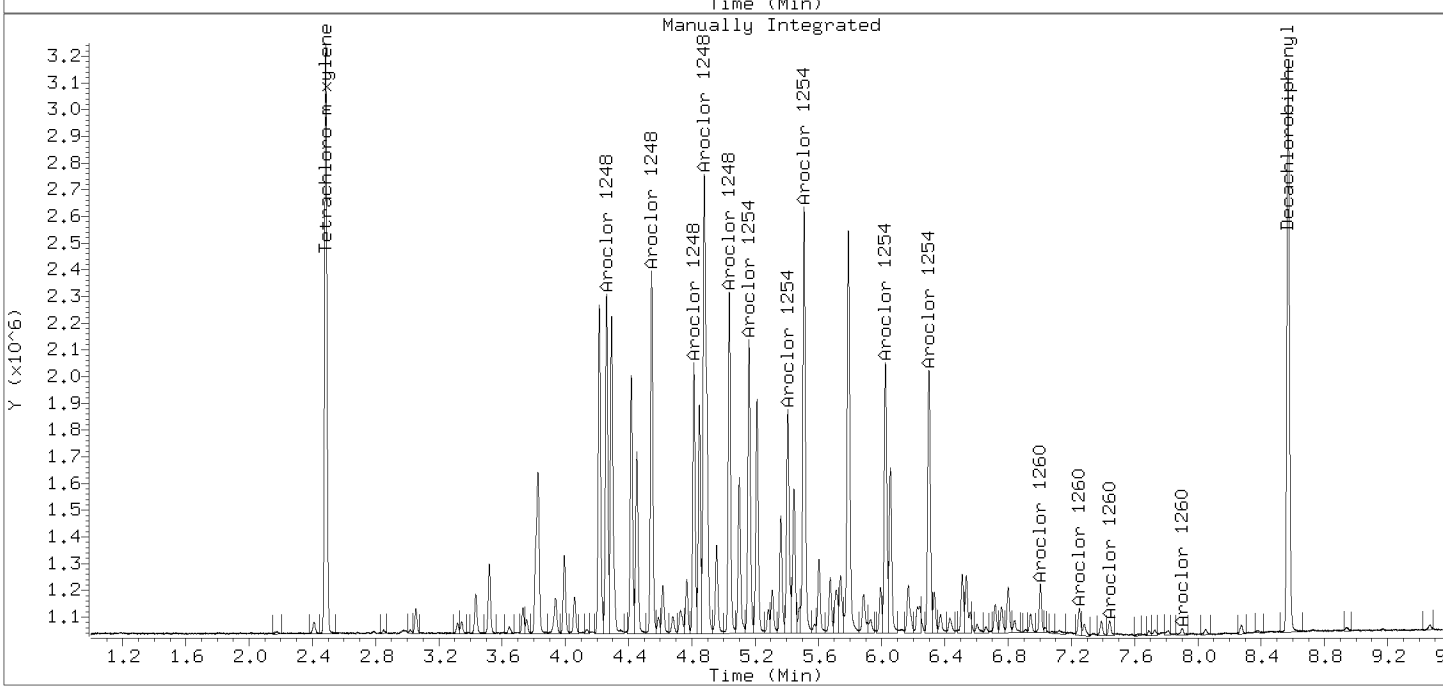
Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018061.D
Date : 31-MAR-2018 06:51
Client ID: TD1-170619-01-YP-08
Sample Info: 40157825009 x5,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

Instrument: 40GCSJ.i
Operator: BLM
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b/033018061.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 31-MAR-2018 06:51 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157825009





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	42191	0	
Aroclor 1016	42191	0	
Aroclor 1016	42191	0	
Aroclor 1016	42191	0	
Aroclor 1016	42191	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	14114	0	
Aroclor 1232	14114	0	
Aroclor 1232	14114	0	
Aroclor 1232	14114	0	

Aroclor 1232	14114	0	
Aroclor 1242	42191	0	
Aroclor 1242	42191	0	
Aroclor 1242	42191	0	
Aroclor 1242	42191	0	
Aroclor 1242	42191	0	
Aroclor 1248	1342049	1353786	BA
Aroclor 1248	1342049	1353786	BA
Aroclor 1248	1342049	1353786	BA
Aroclor 1248	1342049	1353786	BA
Aroclor 1248	1342049	1353786	BA
Aroclor 1254	1203306	1222431	BA
Aroclor 1254	1203306	1222431	BA
Aroclor 1254	1203306	1222431	BA
Aroclor 1254	1203306	1222431	BA
Aroclor 1254	1203306	1222431	BA
Aroclor 1260	1171142	0	CO
Aroclor 1260	1171142	0	CO
Aroclor 1260	1171142	0	CO
Aroclor 1260	1171142	0	CO
Aroclor 1260	1171142	0	CO
Tetrachloro-m-xylene	2315322	2315322	
Decachlorobiphenyl	2467537	2467537	

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SAMPLE NO.

TD1-170619-01-YP-07

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/03/2017 10:20
Matrix: Tissue SDG No.: 40157825
Date Extracted: 03/29/2018 07:15
Lab Sample ID: 40157825010
Date Analyzed: 04/03/2018 15:48
Lab File ID: 040318.B\040318007.D
Initial wt/vol: 10.0283 Final wt/vol: 5 mL Dilution: 2
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<22.7	U
11104-28-2	PCB-1221 (Aroclor 1221)	<22.7	U
11141-16-5	PCB-1232 (Aroclor 1232)	<22.7	U
53469-21-9	PCB-1242 (Aroclor 1242)	<22.7	U
12672-29-6	PCB-1248 (Aroclor 1248)	474	
11097-69-1	PCB-1254 (Aroclor 1254)	316	
11096-82-5	PCB-1260 (Aroclor 1260)	37.1	J
1336-36-3	PCB, Total	827	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318007.D
Lab Smp Id: 40157825010 Client Smp ID: TD1-170619-01-YP-07
Inj Date : 03-APR-2018 15:48
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157825010 x2,
Misc Info : 17602,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040318.b\pcba030618.m
Meth Date : 06-Apr-2018 14:26 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 7
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndV

Name	Value	Description
DF	2.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.028	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.185	17965	13062	0.727	0.03		
1.690	20775	16718	0.805	0.03		
2.008	10478	8095	0.773	0.02		
2.410	74044	58539	0.791	0.14		
2.485	5473268	5203618	0.951	10.96	$ 2 Tetrachloro-m-xylene	
2.788	16577	14607	0.881	0.03		
2.850	40660	29152	0.717	0.07		
2.974	34636	18678	0.539	0.06		
3.018	29030	26591	0.916	0.05		
3.056	97348	89465	0.919	0.18		
3.319	74097	69720	0.941	0.14		
3.345	84158	76050	0.904	0.16		
3.434	135722	121920	0.898	0.25		
3.521	196631	179353	0.912	0.37		
3.647	22446	17288	0.770	0.04		
3.732	94901	93371	0.984	0.18		
3.758	60723	55086	0.907	0.11		
3.828	939353	591530	0.630	1.79		
3.937	138682	92432	0.667	0.26		
3.994	241170	226291	0.938	0.46		
4.059	130490	111984	0.858	0.24		
4.134	21821	22089	1.012	0.04		
4.215	1240030	1141695	0.921	2.37		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.261	1287282	1211782	0.941	2.46	6 Aroclor 1248
4.293	1240071	1013174	0.817	2.37	
4.345	22169	14810	0.668	0.04	
4.417	899674	862228	0.958	1.72	
4.453	661356	595522	0.900	1.26	
4.545	1365037	1251729	0.917	2.60	6 Aroclor 1248
4.589	57193	53787	0.940	0.10	
4.617	190256	165452	0.870	0.36	
4.681	71831	62218	0.866	0.13	
4.728	106587	69106	0.648	0.20	
4.768	219679	201469	0.917	0.42	
4.813	1164144	1126758	0.968	2.22	6 Aroclor 1248
4.849	977874	930355	0.951	1.86	
4.879	2848976	1762307	0.619	5.44	6 Aroclor 1248
4.958	432871	354746	0.820	0.82	
5.037	1286118	1169168	0.909	2.45	6 Aroclor 1248
5.101	813301	697327	0.857	1.55	
5.162	1663790	1479150	0.889	3.18	7 Aroclor 1254
5.213	1377553	1219444	0.885	2.63	
5.284	132936	125871	0.947	0.25	
5.309	265962	220034	0.827	0.50	
5.363	667065	613317	0.919	1.27	
5.407	1316228	1123566	0.854	2.51	7 Aroclor 1254
5.447	1079248	924090	0.856	2.06	
5.480	113789	108200	0.951	0.21	
5.510	2331663	2008248	0.861	4.45	7 Aroclor 1254
5.576	59619	54038	0.906	0.11	
5.603	422883	349704	0.827	0.80	
5.675	313634	289314	0.922	0.59	
5.713	304767	219631	0.721	0.58	
5.742	430845	302047	0.701	0.82	
5.791	2739894	2066565	0.754	5.23	
5.888	304672	221331	0.726	0.58	
5.930	120349	81404	0.676	0.23	
5.994	274842	262171	0.954	0.52	
6.025	1688143	1469451	0.870	3.22	7 Aroclor 1254
6.056	1263064	1035898	0.820	2.41	
6.169	385290	265887	0.690	0.73	
6.227	144404	160545	1.112	0.27	
6.241	227309	171354	0.754	0.43	
6.300	2039889	1637979	0.803	3.90	7 Aroclor 1254
6.333	303667	264617	0.871	0.58	
6.373	144855	108660	0.750	0.27	
6.433	141539	92053	0.650	0.27	
6.511	361057	332396	0.921	0.69	
6.536	464086	419967	0.905	0.88	
6.560	156214	135507	0.867	0.29	
6.606	78080	54619	0.700	0.14	
6.661	50072	40446	0.808	0.09	
6.719	185791	157567	0.848	0.35	
6.758	262403	203883	0.777	0.50	
6.802	324726	287284	0.885	0.62	
6.841	110854	76383	0.689	0.21	
6.911	16487	16411	0.995	0.03	
6.943	363148	314666	0.866	0.69	
7.005	363360	309577	0.852	0.69	8 Aroclor 1260
7.032	39072	35290	0.903	0.07	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.078	17762	11383	0.641	0.03	
7.125	32268	18754	0.581	0.06	
7.251	226225	194642	0.860	0.43	8 Aroclor 1260
7.283	91891	73257	0.797	0.17	
7.335	14864	11626	0.782	0.02	
7.389	109214	96397	0.883	0.20	
7.443	121062	101728	0.840	0.23	8 Aroclor 1260
7.491	19971	11434	0.573	0.03	
7.692	45071	37275	0.827	0.08	
7.728	43108	34633	0.803	0.08	
7.813	107163	77204	0.720	0.20	
7.901	62389	51481	0.825	0.11	8 Aroclor 1260
8.049	82837	66353	0.801	0.15	
8.274	83633	70756	0.846	0.15	
8.374	14437	10904	0.755	0.02	
8.572	5263980	4423596	0.840	10.06	$ 12 Decachlorobiphenyl
8.727	23569	18863	0.800	0.04	
8.941	13662	9863	0.722	0.02	
9.170	19240	15370	0.799	0.03	
9.464	22980	12978	0.565	0.04	
9.957	12542	10560	0.842	0.02	
	52300543	44436894		100.000	

Total unknown % area = 45

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318007.D
Lab Smp Id: 40157825010 Client Smp ID: TD1-170619-01-YP-07
Inj Date : 03-APR-2018 15:48
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157825010 x2,
Misc Info : 17602,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040318.b\pcba030618.m
Meth Date : 06-Apr-2018 14:26 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 7
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndV

Name	Value	Description
DF	2.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.028	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE

1 Aroclor 1221 CAS #: 11104-28-2

Operator disabled compound identification.

$	2 Tetrachloro-m-xylene					CAS #: 877-09-8		
2.484	2.484	0.000	5473267	0.04439	44			

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	1287281	0.54942	550	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1365036	0.32890	330	0.00- 20.00	106.04	BA
4.812	4.812	0.000	1164144	0.57345	570	0.00- 20.00	90.43	BA
4.878	4.879	-0.001	2848976	0.56556	560	0.00- 20.00	221.32	BA
5.036	5.038	-0.002	1286118	0.35840	360	0.00- 20.00	99.91	BA
Average of Peak Concentrations =					470			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	1663789	0.31781	320	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	1316228	0.30602	300	0.00- 20.00	79.11	BA
5.510	5.510	0.000	2331663	0.30024	300	0.00- 20.00	140.14	BA
6.024	6.027	-0.003	1688143	0.34666	340	0.00- 20.00	101.46	BA
6.299	6.299	0.000	2039889	0.31349	310	0.00- 20.00	122.61	BA
Average of Peak Concentrations =					320			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
7.004	7.006	-0.002	363360	0.03628	36	0.00- 20.00	17.81	BA
7.250	7.251	-0.001	226225	0.04733	47	0.00- 20.00	11.09	BA
7.442	7.443	-0.001	121062	0.04153	41	0.00- 20.00	5.93	BA
7.900	7.901	-0.001	62389	0.02364	24	0.00- 20.00	3.06	BA
Average of Peak Concentrations =					37			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	5263979	0.04805	48			

QC Flag Legend

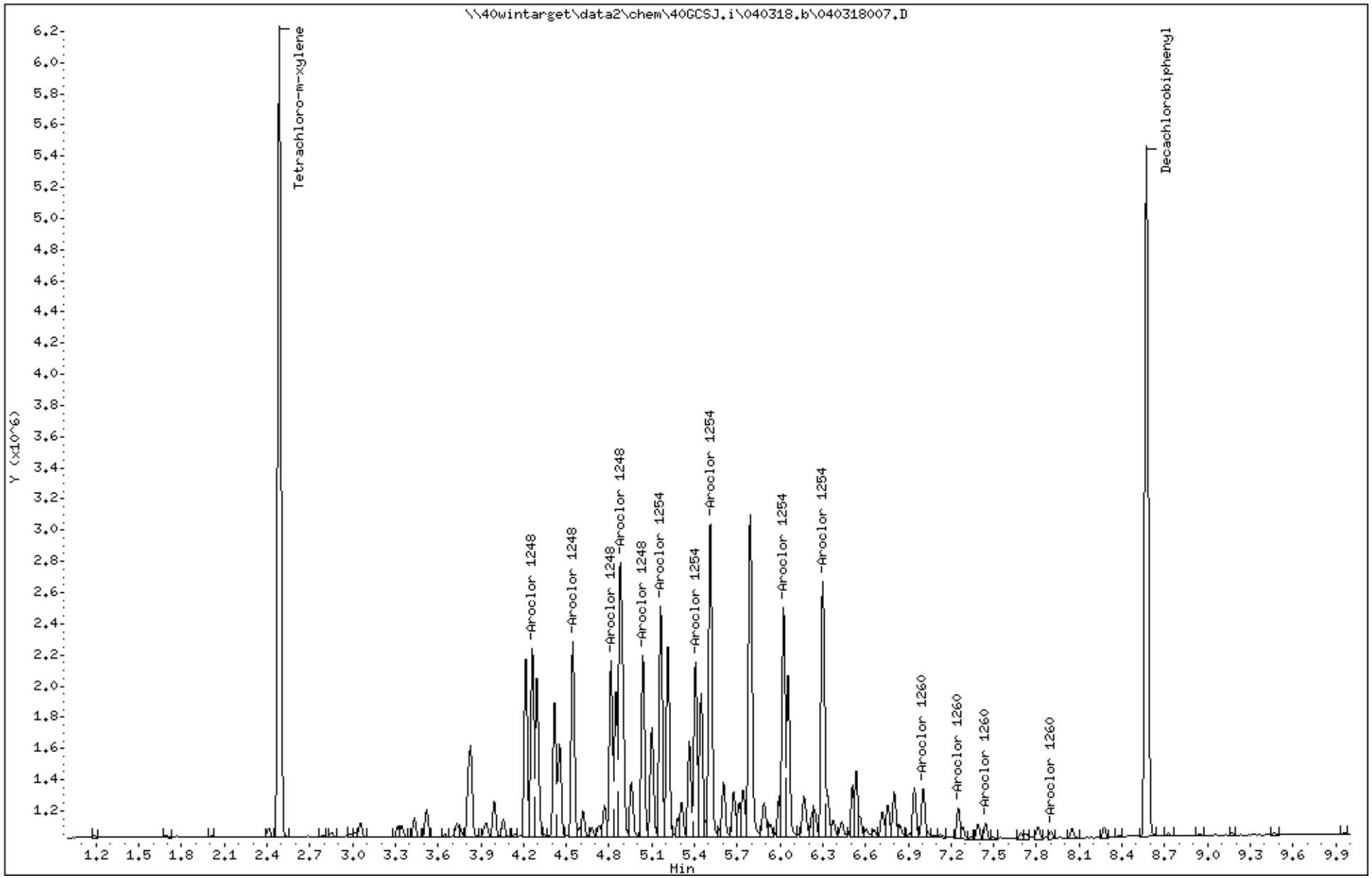
M - Compound response manually integrated.

Review Codes Legend

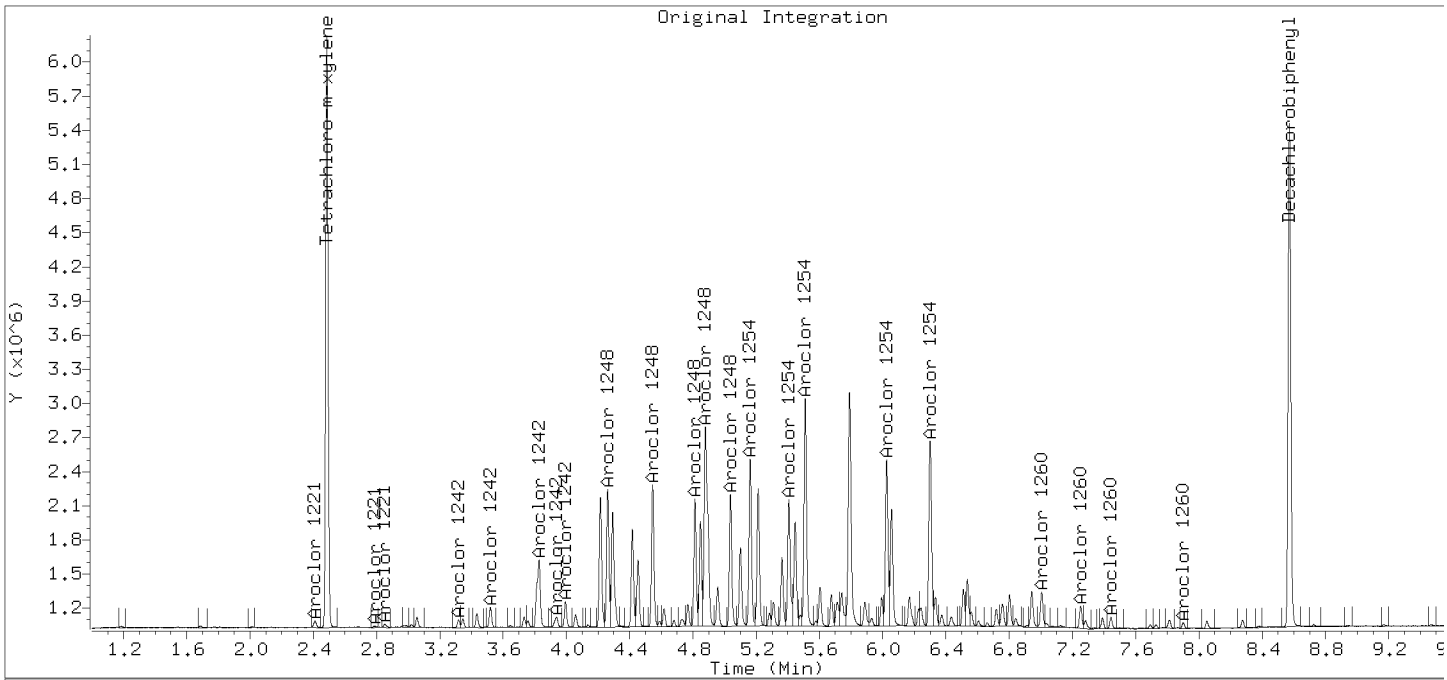
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

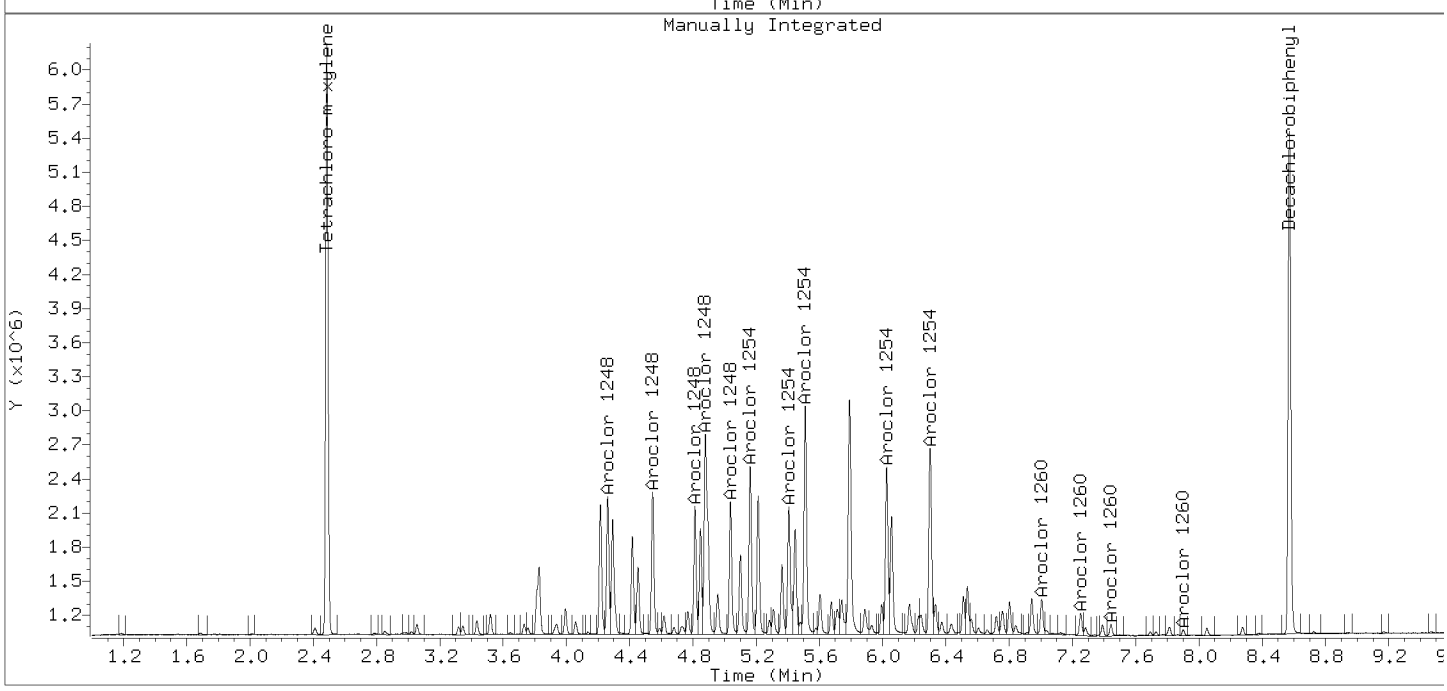
Data File: \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318007.D
Date : 03-APR-2018 15:48
Client ID: TD1-170619-01-YP-07
Sample Info: 40157825010 x2,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

Instrument: 40GCSJ.i
Operator: BLM
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\040318.b/040318007.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 03-APR-2018 15:48 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157825010





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	74096	0	
Aroclor 1016	74096	0	
Aroclor 1016	74096	0	
Aroclor 1016	74096	0	
Aroclor 1016	74096	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	40660	0	
Aroclor 1232	40660	0	
Aroclor 1232	40660	0	
Aroclor 1232	40660	0	

Aroclor 1232	40660	0	
Aroclor 1242	74096	0	
Aroclor 1242	74096	0	
Aroclor 1242	74096	0	
Aroclor 1242	74096	0	
Aroclor 1242	74096	0	
Aroclor 1248	1279682	1287281	BA
Aroclor 1248	1279682	1287281	BA
Aroclor 1248	1279682	1287281	BA
Aroclor 1248	1279682	1287281	BA
Aroclor 1248	1279682	1287281	BA
Aroclor 1254	1618606	1663789	BA
Aroclor 1254	1618606	1663789	BA
Aroclor 1254	1618606	1663789	BA
Aroclor 1254	1618606	1663789	BA
Aroclor 1254	1618606	1663789	BA
Aroclor 1260	2009417	0	BA
Aroclor 1260	2009417	0	BA
Aroclor 1260	2009417	0	BA
Aroclor 1260	2009417	0	BA
Aroclor 1260	2009417	0	BA
Tetrachloro-m-xylene	5473267	5473267	
Decachlorobiphenyl	5263979	5263979	

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SAMPLE NO.

TD1-170619-01-YP-06

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/03/2017 10:20
Matrix: Tissue SDG No.: 40157825
Date Extracted: 04/09/2018 07:13
Lab Sample ID: 40157825011
Date Analyzed: 04/11/2018 03:03
Lab File ID: 041018.B\041018056.D
Initial wt/vol: 10.0369 Final wt/vol: 5 mL Dilution: 1
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<11.4	U
11104-28-2	PCB-1221 (Aroclor 1221)	<11.4	U
11141-16-5	PCB-1232 (Aroclor 1232)	<11.4	U
53469-21-9	PCB-1242 (Aroclor 1242)	<11.4	U
12672-29-6	PCB-1248 (Aroclor 1248)	144	
11097-69-1	PCB-1254 (Aroclor 1254)	82.1	
11096-82-5	PCB-1260 (Aroclor 1260)	13.4	J
1336-36-3	PCB, Total	240	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018056.D
Lab Smp Id: 40157825011 Client Smp ID: TD1-170619-01-YP-06
Inj Date : 11-APR-2018 03:03
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157825011,
Misc Info : 17645,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 17-Apr-2018 14:35 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 56
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndV

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.037	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.186	14049	12476	0.888	0.03		
2.196	69661	33716	0.484	0.15		
2.253	9955	6706	0.674	0.02		
2.410	63108	47690	0.756	0.14		
2.484	9810355	9100606	0.928	21.90	$ 2 Tetrachloro-m-xylene	
2.789	23222	19815	0.853	0.05		
2.853	41618	27510	0.661	0.09		
2.923	12182	8195	0.673	0.02		
2.976	34676	16948	0.489	0.07		
3.019	26592	23493	0.883	0.05		
3.054	84810	76432	0.901	0.18		
3.317	56201	53592	0.954	0.12		
3.343	65507	58223	0.889	0.14		
3.402	13002	10297	0.792	0.02		
3.432	137168	121261	0.884	0.30		
3.518	147149	131181	0.891	0.32		
3.645	24168	18299	0.757	0.05		
3.694	9171	8448	0.921	0.02		
3.730	77792	77085	0.991	0.17		
3.756	39331	38551	0.980	0.08		
3.827	548582	329543	0.601	1.22		
3.936	135169	100303	0.742	0.30		
3.994	156608	145506	0.929	0.34		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.057	100775	84980	0.843	0.22	
4.133	25458	19203	0.754	0.05	
4.214	896252	816080	0.911	2.00	
4.260	838741	793350	0.946	1.87	6 Aroclor 1248
4.292	807855	644479	0.798	1.80	
4.416	634121	605411	0.955	1.41	
4.451	445354	397115	0.892	0.99	
4.545	948267	874086	0.922	2.11	6 Aroclor 1248
4.587	49606	45725	0.922	0.11	
4.615	140327	123222	0.878	0.31	
4.679	47085	39016	0.829	0.10	
4.730	77211	48125	0.623	0.17	
4.767	188981	177268	0.938	0.42	
4.812	621960	598218	0.962	1.38	6 Aroclor 1248
4.846	529996	512322	0.967	1.18	
4.878	1659504	1051740	0.634	3.70	6 Aroclor 1248
4.955	243712	203018	0.833	0.54	
5.036	808354	744056	0.920	1.80	6 Aroclor 1248
5.099	486391	403689	0.830	1.08	
5.161	819616	748539	0.913	1.83	7 Aroclor 1254
5.211	662187	587632	0.887	1.47	
5.282	77805	69824	0.897	0.17	
5.307	154221	131675	0.854	0.34	
5.361	379374	324207	0.855	0.84	
5.406	671066	585765	0.873	1.49	7 Aroclor 1254
5.446	498497	426588	0.856	1.11	
5.478	61947	65108	1.051	0.13	
5.509	1296368	1122285	0.866	2.89	7 Aroclor 1254
5.577	39327	34430	0.875	0.08	
5.603	233921	193817	0.829	0.52	
5.674	206709	187561	0.907	0.46	
5.709	175538	124160	0.707	0.39	
5.740	217760	154906	0.711	0.48	
5.789	1324551	1075086	0.812	2.95	
5.840	89331	71715	0.803	0.19	
5.886	179578	120153	0.669	0.40	
5.929	74333	52272	0.703	0.16	
5.993	149046	142753	0.958	0.33	
6.023	879460	780763	0.888	1.96	7 Aroclor 1254
6.055	586733	481843	0.821	1.31	
6.167	203332	135897	0.668	0.45	
6.226	160182	88713	0.554	0.35	
6.299	1067663	899740	0.843	2.38	7 Aroclor 1254
6.333	150089	131380	0.875	0.33	
6.373	76497	57067	0.746	0.17	
6.432	99809	74782	0.749	0.22	
6.509	241572	218061	0.903	0.53	
6.535	238631	212295	0.890	0.53	
6.560	84387	78402	0.929	0.18	
6.604	31526	23959	0.760	0.07	
6.658	28893	21419	0.741	0.06	
6.717	95221	81502	0.856	0.21	
6.757	128299	106165	0.827	0.28	
6.800	171178	151212	0.883	0.38	
6.839	69662	49507	0.711	0.15	
6.942	195041	177452	0.910	0.43	
7.003	194952	180478	0.926	0.43	8 Aroclor 1260

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.032	15682	19224	1.226	0.03	
7.250	134808	121018	0.898	0.30	8 Aroclor 1260
7.282	67609	48963	0.724	0.15	
7.342	17692	13104	0.741	0.03	
7.388	79555	75303	0.947	0.17	
7.442	108922	86986	0.799	0.24	8 Aroclor 1260
7.586	10462	10846	1.037	0.02	
7.625	27607	13581	0.492	0.06	
7.691	27799	29823	1.073	0.06	
7.726	57965	50199	0.866	0.12	
7.812	73667	46383	0.630	0.16	
7.899	58679	47213	0.805	0.13	8 Aroclor 1260
7.963	15472	8897	0.575	0.03	
8.049	68215	60697	0.890	0.15	
8.273	133206	116117	0.872	0.29	
8.371	12508	10496	0.839	0.02	
8.569	10596358	8894280	0.839	24.16	$ 12 Decachlorobiphenyl
8.726	14077	12928	0.918	0.03	
8.938	16964	11418	0.673	0.03	
9.168	25953	21484	0.828	0.05	
9.469	23379	16380	0.701	0.05	
9.963	24857	18448	0.742	0.05	
	44775762	38549880		100.000	

Total unknown % area = 31

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018056.D
Lab Smp Id: 40157825011 Client Smp ID: TD1-170619-01-YP-06
Inj Date : 11-APR-2018 03:03
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157825011,
Misc Info : 17645,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 17-Apr-2018 14:35 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 56
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndV

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.037	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE

1 Aroclor 1221 CAS #: 11104-28-2

Operator disabled compound identification.

$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.484	2.484	0.000	9810354	0.07957	40			

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	838740	0.35798	180	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	948267	0.22848	110	0.00- 20.00	113.06	BA
4.812	4.812	0.000	621960	0.30637	150	0.00- 20.00	74.15	BA
4.878	4.879	-0.001	1659503	0.32943	160	0.00- 20.00	197.86	BA
5.036	5.038	-0.002	808353	0.22526	110	0.00- 20.00	96.38	BA
Average of Peak Concentrations =					140			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	819615	0.15656	78	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	671065	0.15602	78	0.00- 20.00	81.88	BA
5.509	5.510	-0.001	1296368	0.16693	83	0.00- 20.00	158.17	BA
6.022	6.027	-0.005	879459	0.18060	90	0.00- 20.00	107.30	BA
6.299	6.299	0.000	1067663	0.16408	82	0.00- 20.00	130.26	BA
Average of Peak Concentrations =					82			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	CO
7.003	7.006	-0.003	194952	0.01947	9.7	0.00- 20.00	19.71	CO
7.250	7.251	-0.001	134807	0.02820	14	0.00- 20.00	12.63	CO
7.442	7.443	-0.001	108921	0.03736	19	0.00- 20.00	10.20	CO
7.898	7.901	-0.003	58678	0.02224	11	0.00- 20.00	5.50	CO
Average of Peak Concentrations =					13			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	10596358	0.09672	48			

QC Flag Legend

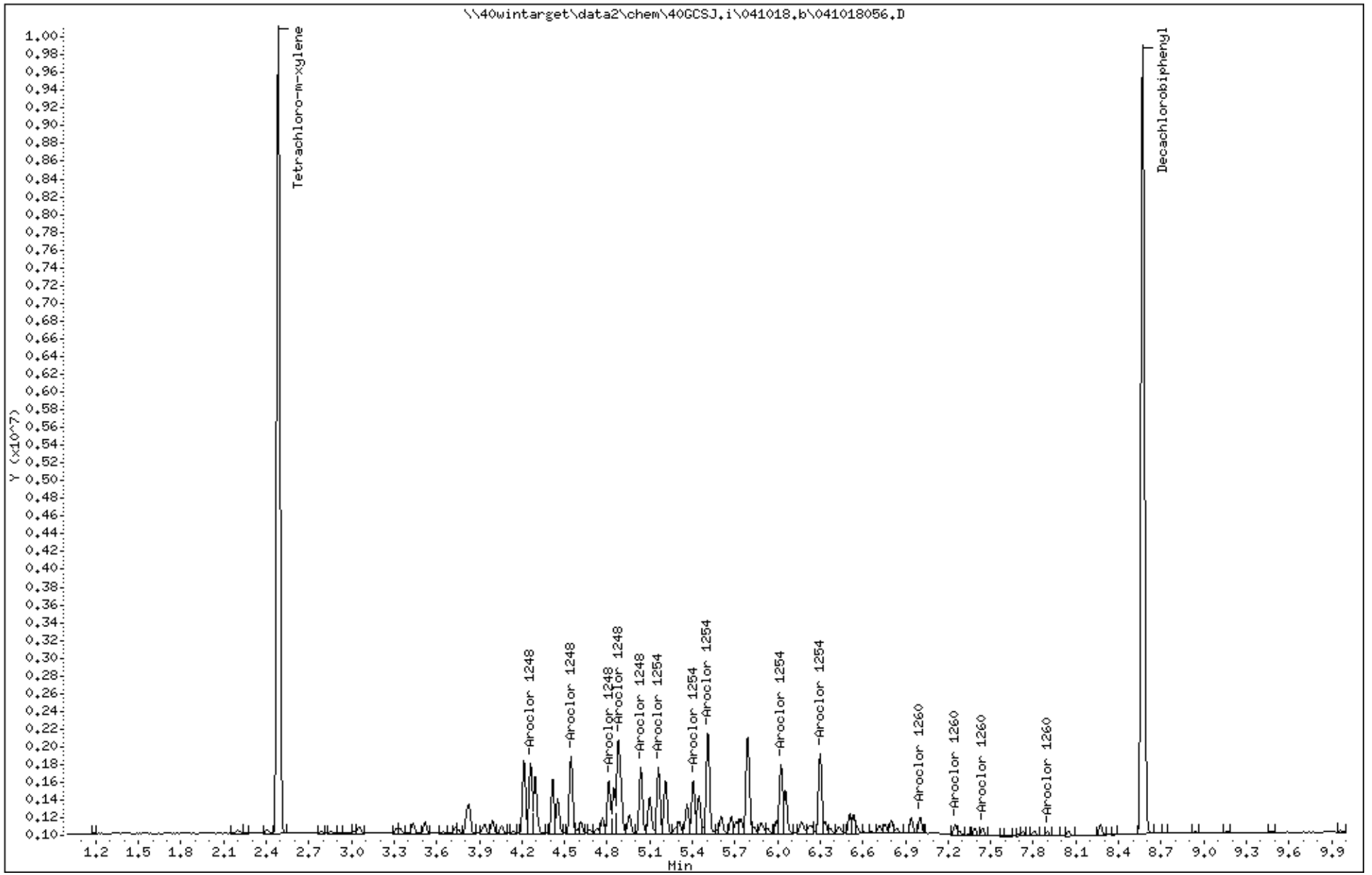
M - Compound response manually integrated.

Review Codes Legend

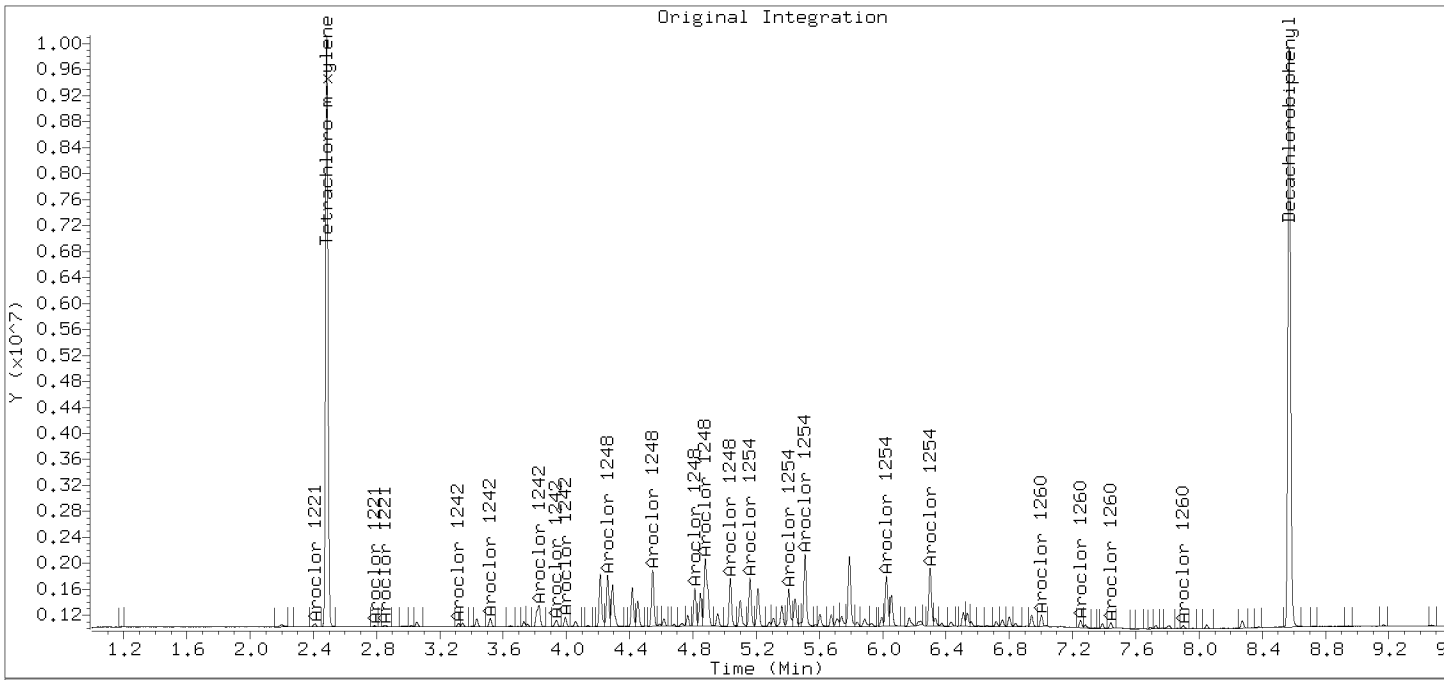
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

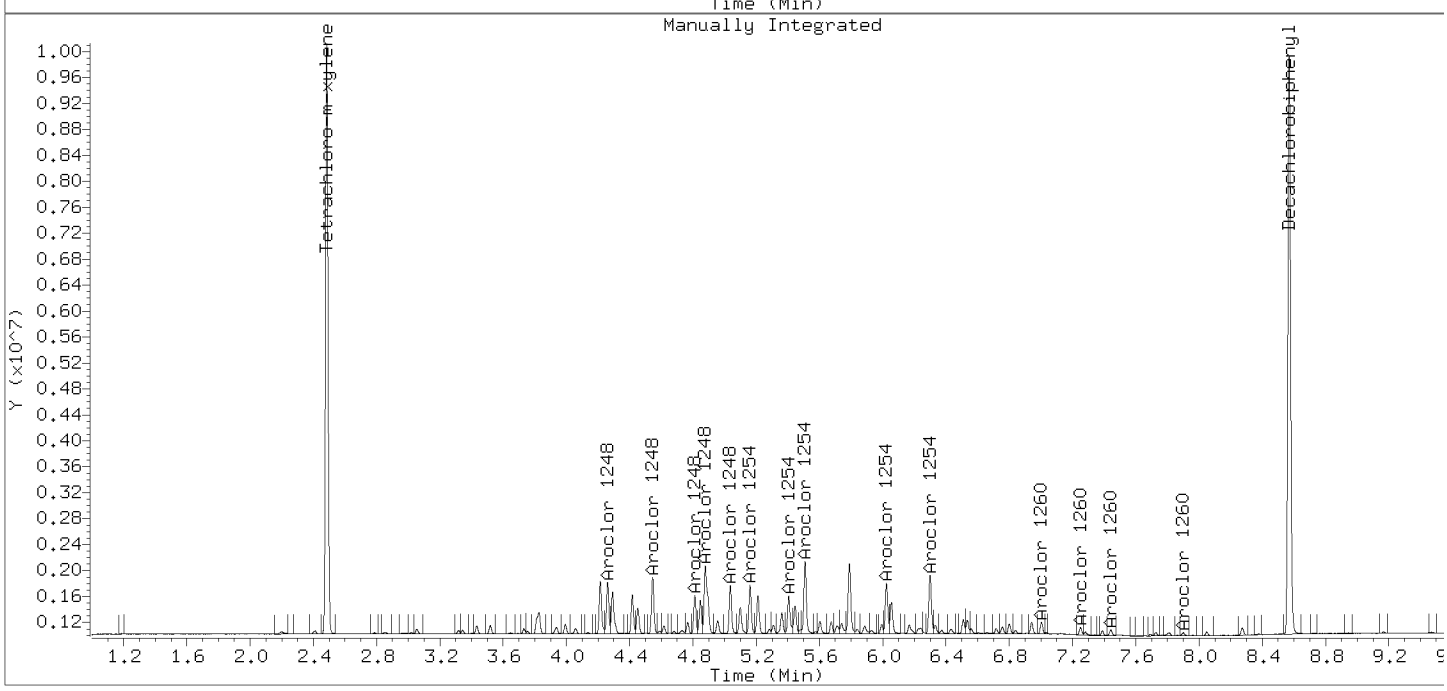
Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018056.D
Date : 11-APR-2018 03:03
Client ID: TD1-170619-01-YP-06
Sample Info: 40157825011,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

Instrument: 40GCSJ.i
Operator: BLM
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b/041018056.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 11-APR-2018 03:03 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157825011





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	56201	0	
Aroclor 1016	56201	0	
Aroclor 1016	56201	0	
Aroclor 1016	56201	0	
Aroclor 1016	56201	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	41617	0	
Aroclor 1232	41617	0	
Aroclor 1232	41617	0	
Aroclor 1232	41617	0	

Aroclor 1232	41617	0	
Aroclor 1242	56201	0	
Aroclor 1242	56201	0	
Aroclor 1242	56201	0	
Aroclor 1242	56201	0	
Aroclor 1242	56201	0	
Aroclor 1248	829832	838740	BA
Aroclor 1248	829832	838740	BA
Aroclor 1248	829832	838740	BA
Aroclor 1248	829832	838740	BA
Aroclor 1248	829832	838740	BA
Aroclor 1254	800072	819615	BA
Aroclor 1254	800072	819615	BA
Aroclor 1254	800072	819615	BA
Aroclor 1254	800072	819615	BA
Aroclor 1254	800072	819615	BA
Aroclor 1260	1047714	0	CO
Aroclor 1260	1047714	0	CO
Aroclor 1260	1047714	0	CO
Aroclor 1260	1047714	0	CO
Aroclor 1260	1047714	0	CO
Tetrachloro-m-xylene	9810354	9810354	
Decachlorobiphenyl	10596358	10596358	

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PCB - FORM VI SVOA-1

PCB INITIAL CALIBRATION (MULTIPOINT)

Lab Name: Pace Analytical - Green Bay Instrument ID: 40GCSJ GC Column: Col 1 SDG No.: 40157825

Calibration Date(s): 03/06/2018 03/06/2018 Calibration Time(s): 12:07 19:39

LAB FILE ID

CAL1A =	030618.B\030618058.D	CAL1B =	030618.B\030618022.D	CAL1C =	030618.B\030618046.D
CAL1D =	030618.B\030618034.D	CAL1F =	030618.B\030618010.D	CAL2A =	030618.B\030618060.D
CAL2B =	030618.B\030618024.D	CAL2C =	030618.B\030618048.D	CAL2D =	030618.B\030618036.D
CAL2F =	030618.B\030618012.D	CAL3A =	030618.B\030618062.D	CAL3B =	030618.B\030618026.D
CAL3C =	030618.B\030618050.D	CAL3D =	030618.B\030618038.D	CAL3F =	030618.B\030618014.D
CAL4A =	030618.B\030618064.D	CAL4B =	030618.B\030618028.D	CAL4C =	030618.B\030618052.D
CAL4D =	030618.B\030618040.D	CAL4F =	030618.B\030618016.D	CAL5A =	030618.B\030618066.D
CAL5B =	030618.B\030618030.D	CAL5C =	030618.B\030618054.D	CAL5D =	030618.B\030618042.D
CAL5F =	030618.B\030618018.D				

COMPOUND	PEAK	CURVE TYPE	CAL1	CAL2	CAL3	CAL4	CAL5
Aroclor 1016	1	Averaged	3346700.00	3270300.00	3026998.00	2916970.00	2843185.00
Aroclor 1016	2	Averaged	3361310.00	3225075.00	3064774.00	2953430.00	2890423.00
Aroclor 1016	3	Averaged	9619090.00	9294970.00	8629258.00	8432580.00	8333033.00
Aroclor 1016	4	Averaged	4072990.00	3972810.00	3750126.00	3581221.25	3523970.00
Aroclor 1016	5	Averaged	2912980.00	2694260.00	2551278.00	2433447.50	2424781.00
Aroclor 1221	1	Averaged	1168840.00	1110755.00	980478.000	981937.500	964273.000
Aroclor 1221	2	Averaged	612180.000	587450.000	526622.000	511427.500	501535.000
Aroclor 1221	3	Averaged	1505110.00	1446635.00	1316246.00	1333917.50	1314775.00
Aroclor 1221	4	Averaged	1181440.00	1150255.00	1038526.00	1067413.75	1091213.00
Aroclor 1221	5	Averaged	3492190.00	3470535.00	3167038.00	3088411.25	3058814.00
Aroclor 1242	1	Averaged	2772560.00	2688000.00	2505132.00	2371062.50	2329239.00
Aroclor 1242	2	Averaged	2739500.00	2600755.00	2506348.00	2392166.25	2361398.00
Aroclor 1242	3	Averaged	7695890.00	7473100.00	6971326.00	6735328.75	6706645.00
Aroclor 1242	4	Averaged	3287540.00	3169245.00	3017986.00	2875101.25	2857801.00
Aroclor 1242	5	Averaged	2247420.00	2077595.00	2062930.00	1928282.50	1922507.00
Aroclor 1248	1	Averaged	2522640.00	2478140.00	2346396.00	2184111.25	2183582.00
Aroclor 1248	2	Averaged	4441400.00	4466680.00	4104774.00	3847133.75	3891542.00
Aroclor 1248	3	Averaged	2175950.00	2100970.00	2034380.00	1911980.00	1927121.00
Aroclor 1248	4	Averaged	5384910.00	5302865.00	5054976.00	4695606.25	4748871.00
Aroclor 1248	5	Averaged	3757360.00	3770200.00	3588002.00	3386248.75	3440920.00
Aroclor 1254	1	Averaged	5783370.00	5652575.00	5120584.00	4858101.25	4761607.00
Aroclor 1254	2	Averaged	4616750.00	4581855.00	4225042.00	4064631.25	4016994.00
Aroclor 1254	3	Averaged	8435240.00	8286960.00	7623568.00	7277021.25	7207530.00
Aroclor 1254	4	Averaged	5140880.00	5151350.00	4826428.00	4638268.75	4591491.00
Aroclor 1254	5	Averaged	7015020.00	6981970.00	6368818.00	6122333.75	6047377.00
Aroclor 1260	1	Averaged	9569990.00	9323545.00	8657528.00	8388552.50	8372147.00
Aroclor 1260	2	Averaged	10746610.0	10429350.0	9816406.00	9526972.50	9552528.00
Aroclor 1260	3	Averaged	5052370.00	4986225.00	4721308.00	4577403.75	4561709.00
Aroclor 1260	4	Averaged	3131020.00	3037915.00	2887698.00	2771190.00	2747730.00

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

PCB - FORM VI SVOA-2

PCB INITIAL CALIBRATION (MULTIPOINT)

Lab Name: Pace Analytical - Green Bay Instrument ID: 40GCSJ GC Column: Col 1 SDG No.: 40157825

Calibration Date(s): 03/06/2018 03/06/2018 Calibration Time(s): 12:07 19:39

LAB FILE ID

CAL1A =	030618.B\030618058.D	CAL1B =	030618.B\030618022.D	CAL1C =	030618.B\030618046.D
CAL1D =	030618.B\030618034.D	CAL1F =	030618.B\030618010.D	CAL2A =	030618.B\030618060.D
CAL2B =	030618.B\030618024.D	CAL2C =	030618.B\030618048.D	CAL2D =	030618.B\030618036.D
CAL2F =	030618.B\030618012.D	CAL3A =	030618.B\030618062.D	CAL3B =	030618.B\030618026.D
CAL3C =	030618.B\030618050.D	CAL3D =	030618.B\030618038.D	CAL3F =	030618.B\030618014.D
CAL4A =	030618.B\030618064.D	CAL4B =	030618.B\030618028.D	CAL4C =	030618.B\030618052.D
CAL4D =	030618.B\030618040.D	CAL4F =	030618.B\030618016.D	CAL5A =	030618.B\030618066.D
CAL5B =	030618.B\030618030.D	CAL5C =	030618.B\030618054.D	CAL5D =	030618.B\030618042.D
CAL5F =	030618.B\030618018.D				

COMPOUND	PEAK	CURVE TYPE	CAL1	CAL2	CAL3	CAL4	CAL5
Aroclor 1260	5	Averaged	2853590.00	2718235.00	2625044.00	2511683.75	2485127.00
Decachlorobiphenyl (S)		Averaged	125223400.	114228350.	106255020.	101602250.	100490933.
Tetrachloro-m-xylene		Averaged	126550100.	124974300.	121144740.	121809550.	121996840.

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

PCB - FORM VI SVOA-3

PCB INITIAL CALIBRATION (MULTIPOINT)

Lab Name: Pace Analytical - Green Bay Instrument ID: 40GCSJ GC Column: Col 1 SDG No.: 40157825

Calibration Date(s): 03/06/2018 03/06/2018 Calibration Time(s): 12:07 19:39

LAB FILE ID

CAL1A =	030618.B\030618058.D	CAL1B =	030618.B\030618022.D	CAL1C =	030618.B\030618046.D
CAL1D =	030618.B\030618034.D	CAL1F =	030618.B\030618010.D	CAL2A =	030618.B\030618060.D
CAL2B =	030618.B\030618024.D	CAL2C =	030618.B\030618048.D	CAL2D =	030618.B\030618036.D
CAL2F =	030618.B\030618012.D	CAL3A =	030618.B\030618062.D	CAL3B =	030618.B\030618026.D
CAL3C =	030618.B\030618050.D	CAL3D =	030618.B\030618038.D	CAL3F =	030618.B\030618014.D
CAL4A =	030618.B\030618064.D	CAL4B =	030618.B\030618028.D	CAL4C =	030618.B\030618052.D
CAL4D =	030618.B\030618040.D	CAL4F =	030618.B\030618016.D	CAL5A =	030618.B\030618066.D
CAL5B =	030618.B\030618030.D	CAL5C =	030618.B\030618054.D	CAL5D =	030618.B\030618042.D
CAL5F =	030618.B\030618018.D				

COMPOUND	PEAK	CURVE TYPE	%RSD	R2	A1	A2	A3
Aroclor 1016	1	Averaged	7.12			3080830.60	
Aroclor 1016	2	Averaged	6.26			3099002.40	
Aroclor 1016	3	Averaged	6.38			8861786.20	
Aroclor 1016	4	Averaged	6.32			3780223.45	
Aroclor 1016	5	Averaged	7.86			2603349.30	
Aroclor 1221	1	Averaged	8.88			1041256.70	
Aroclor 1221	2	Averaged	8.95			547842.90	
Aroclor 1221	3	Averaged	6.31			1383336.70	
Aroclor 1221	4	Averaged	5.33			1105769.55	
Aroclor 1221	5	Averaged	6.45			3255397.65	
Aroclor 1242	1	Averaged	7.64			2533198.70	
Aroclor 1242	2	Averaged	6.15			2520033.45	
Aroclor 1242	3	Averaged	6.27			7116457.95	
Aroclor 1242	4	Averaged	6.12			3041534.65	
Aroclor 1242	5	Averaged	6.50			2047746.90	
Aroclor 1248	1	Averaged	6.78			2342973.85	
Aroclor 1248	2	Averaged	7.08			4150305.95	
Aroclor 1248	3	Averaged	5.55			2030080.20	
Aroclor 1248	4	Averaged	6.21			5037445.65	
Aroclor 1248	5	Averaged	4.91			3588546.15	
Aroclor 1254	1	Averaged	8.82			5235247.45	
Aroclor 1254	2	Averaged	6.58			4301054.45	
Aroclor 1254	3	Averaged	7.31			7766063.85	
Aroclor 1254	4	Averaged	5.48			4869683.55	
Aroclor 1254	5	Averaged	7.13			6507103.75	
Aroclor 1260	1	Averaged	6.23			8862352.50	
Aroclor 1260	2	Averaged	5.46			10014373.30	
Aroclor 1260	3	Averaged	4.78			4779803.15	
Aroclor 1260	4	Averaged	5.71			2915110.60	

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

05/17/2018 1:36

PCB - FORM VI SVOA-4

PCB INITIAL CALIBRATION (MULTIPOINT)

Lab Name: Pace Analytical - Green Bay Instrument ID: 40GCSJ GC Column: Col 1 SDG No.: 40157825

Calibration Date(s): 03/06/2018 03/06/2018 Calibration Time(s): 12:07 19:39

LAB FILE ID

CAL1A =	030618.B\030618058.D	CAL1B =	030618.B\030618022.D	CAL1C =	030618.B\030618046.D
CAL1D =	030618.B\030618034.D	CAL1F =	030618.B\030618010.D	CAL2A =	030618.B\030618060.D
CAL2B =	030618.B\030618024.D	CAL2C =	030618.B\030618048.D	CAL2D =	030618.B\030618036.D
CAL2F =	030618.B\030618012.D	CAL3A =	030618.B\030618062.D	CAL3B =	030618.B\030618026.D
CAL3C =	030618.B\030618050.D	CAL3D =	030618.B\030618038.D	CAL3F =	030618.B\030618014.D
CAL4A =	030618.B\030618064.D	CAL4B =	030618.B\030618028.D	CAL4C =	030618.B\030618052.D
CAL4D =	030618.B\030618040.D	CAL4F =	030618.B\030618016.D	CAL5A =	030618.B\030618066.D
CAL5B =	030618.B\030618030.D	CAL5C =	030618.B\030618054.D	CAL5D =	030618.B\030618042.D
CAL5F =	030618.B\030618018.D				

COMPOUND	PEAK	CURVE TYPE	%RSD	R2	A1	A2	A3
Aroclor 1260	5	Averaged	5.76			2638735.95	
Decachlorobiphenyl (S)		Averaged	9.39			109559990.6	
Tetrachloro-m-xylene		Averaged	1.89			123295106.0	

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

PCB - FORM VI SVOA-1

PCB INITIAL CALIBRATION RETENTION TIME (MULTIPOINT)

Lab Name: Pace Analytical - Green Bay Instrument ID: 40GCSJ GC Column: Col 1 SDG No.: 40157825

Calibration Date(s): 03/06/2018 03/06/2018 Calibration Time(s): 12:07 19:39

LAB FILE ID

CAL1A =	030618.B\030618058.D	CAL1B =	030618.B\030618022.D	CAL1C =	030618.B\030618046.D
CAL1D =	030618.B\030618034.D	CAL1F =	030618.B\030618010.D	CAL2A =	030618.B\030618060.D
CAL2B =	030618.B\030618024.D	CAL2C =	030618.B\030618048.D	CAL2D =	030618.B\030618036.D
CAL2F =	030618.B\030618012.D	CAL3A =	030618.B\030618062.D	CAL3B =	030618.B\030618026.D
CAL3C =	030618.B\030618050.D	CAL3D =	030618.B\030618038.D	CAL3F =	030618.B\030618014.D
CAL4A =	030618.B\030618064.D	CAL4B =	030618.B\030618028.D	CAL4C =	030618.B\030618052.D
CAL4D =	030618.B\030618040.D	CAL4F =	030618.B\030618016.D	CAL5A =	030618.B\030618066.D
CAL5B =	030618.B\030618030.D	CAL5C =	030618.B\030618054.D	CAL5D =	030618.B\030618042.D
CAL5F =	030618.B\030618018.D				

COMPOUND	PEAK	CAL1	CAL2	CAL3	CAL4	CAL5	RT	RT WINDOW	
								FROM	TO
Aroclor 1016	1	3.318	3.317	3.317	3.317	3.318	3.318	3.284	3.352
Aroclor 1016	2	3.513	3.513	3.512	3.512	3.512	3.512	3.478	3.546
Aroclor 1016	3	3.826	3.826	3.826	3.826	3.826	3.826	3.792	3.86
Aroclor 1016	4	3.928	3.929	3.928	3.929	3.928	3.929	3.895	3.963
Aroclor 1016	5	3.995	3.994	3.994	3.995	3.994	3.994	3.96	4.028
Aroclor 1221	1	1.803	1.804	1.804	1.804	1.806	1.804	1.77	1.838
Aroclor 1221	2	2.406	2.407	2.407	2.407	2.407	2.407	2.373	2.441
Aroclor 1221	3	2.687	2.688	2.688	2.688	2.688	2.688	2.654	2.722
Aroclor 1221	4	2.789	2.789	2.79	2.789	2.789	2.789	2.755	2.823
Aroclor 1221	5	2.851	2.851	2.851	2.851	2.851	2.851	2.817	2.885
Aroclor 1242	1	3.318	3.318	3.317	3.318	3.318	3.318	3.284	3.352
Aroclor 1242	2	3.513	3.513	3.513	3.513	3.513	3.513	3.479	3.547
Aroclor 1242	3	3.826	3.826	3.827	3.827	3.827	3.827	3.793	3.861
Aroclor 1242	4	3.928	3.929	3.929	3.93	3.929	3.929	3.895	3.963
Aroclor 1242	5	3.995	3.994	3.995	3.995	3.994	3.995	3.961	4.029
Aroclor 1248	1	4.261	4.261	4.261	4.261	4.261	4.261	4.227	4.295
Aroclor 1248	2	4.546	4.545	4.545	4.545	4.545	4.546	4.512	4.58
Aroclor 1248	3	4.814	4.813	4.813	4.813	4.813	4.812	4.778	4.846
Aroclor 1248	4	4.879	4.878	4.879	4.878	4.879	4.879	4.845	4.913
Aroclor 1248	5	5.037	5.036	5.037	5.038	5.037	5.038	5.004	5.072
Aroclor 1254	1	5.163	5.162	5.163	5.162	5.163	5.162	5.128	5.196
Aroclor 1254	2	5.408	5.407	5.407	5.407	5.407	5.408	5.374	5.442
Aroclor 1254	3	5.51	5.51	5.51	5.509	5.51	5.51	5.476	5.544
Aroclor 1254	4	6.026	6.026	6.026	6.027	6.027	6.027	5.993	6.061
Aroclor 1254	5	6.299	6.299	6.299	6.299	6.299	6.299	6.265	6.333
Aroclor 1260	1	6.3	6.3	6.299	6.3	6.299	6.3	6.266	6.334
Aroclor 1260	2	7.006	7.006	7.005	7.005	7.005	7.006	6.972	7.04
Aroclor 1260	3	7.252	7.252	7.251	7.252	7.251	7.251	7.217	7.285

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

PCB - FORM VI SVOA-2

PCB INITIAL CALIBRATION RETENTION TIME (MULTIPOINT)

Lab Name: Pace Analytical - Green Bay Instrument ID: 40GCSJ GC Column: Col 1 SDG No.: 40157825

Calibration Date(s): 03/06/2018 03/06/2018 Calibration Time(s): 12:07 19:39

LAB FILE ID

CAL1A =	030618.B\030618058.D	CAL1B =	030618.B\030618022.D	CAL1C =	030618.B\030618046.D
CAL1D =	030618.B\030618034.D	CAL1F =	030618.B\030618010.D	CAL2A =	030618.B\030618060.D
CAL2B =	030618.B\030618024.D	CAL2C =	030618.B\030618048.D	CAL2D =	030618.B\030618036.D
CAL2F =	030618.B\030618012.D	CAL3A =	030618.B\030618062.D	CAL3B =	030618.B\030618026.D
CAL3C =	030618.B\030618050.D	CAL3D =	030618.B\030618038.D	CAL3F =	030618.B\030618014.D
CAL4A =	030618.B\030618064.D	CAL4B =	030618.B\030618028.D	CAL4C =	030618.B\030618052.D
CAL4D =	030618.B\030618040.D	CAL4F =	030618.B\030618016.D	CAL5A =	030618.B\030618066.D
CAL5B =	030618.B\030618030.D	CAL5C =	030618.B\030618054.D	CAL5D =	030618.B\030618042.D
CAL5F =	030618.B\030618018.D				

COMPOUND	PEAK	CAL1	CAL2	CAL3	CAL4	CAL5	RT	RT WINDOW	
								FROM	TO
Aroclor 1260	4	7.444	7.443	7.443	7.443	7.443	7.443	7.409	7.477
Aroclor 1260	5	7.902	7.9	7.901	7.901	7.9	7.901	7.867	7.935
Decachlorobiphenyl (S)		8.572	8.572	8.571	8.571	8.571	8.571	8.537	8.605
Tetrachloro-m-xylene		2.485	2.484	2.484	2.484	2.485	2.484	2.45	2.518

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

PCB - FORM VI SVOA-1

PCB INITIAL CALIBRATION DATA (SINGLE POINT)

Lab Name: Pace Analytical - Green Bay Instrument ID: 40GCSJ GC Column: Col 1 SDG No.: 40157825

Calibration Date(s): 03/06/2018 Calibration Time(s): 11:50

LAB FILE ID

CAL3S = 030618.B\030618008.D

COMPOUND	AMOUNT	PEAK	RT	RT WINDOW		RESPONSE FACTOR
				FROM	TO	
Aroclor 1232	.5	1	2.851	2.817	2.885	2500024.00
Aroclor 1232	.5	2	3.513	3.479	3.547	1339782.00
Aroclor 1232	.5	3	3.827	3.793	3.861	3749726.00
Aroclor 1232	.5	4	3.929	3.895	3.963	1606492.00
Aroclor 1232	.5	5	3.995	3.961	4.029	1091876.00

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618008.D
Lab Smp Id: 1232-CAL3S Client Smp ID: 1232-CAL3S
Inj Date : 06-MAR-2018 11:50
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1232-cal3s, 185539:1
Misc Info : 17498,NSAR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 12:39 Cal File: 030618014.D
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1232.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.183	64094	46184	0.721	0.24		
1.429	37762	31672	0.839	0.14		
1.535	16372	12525	0.765	0.06		
1.688	12215	10878	0.891	0.04		
1.804	291016	252430	0.867	1.10		
2.011	33236	24341	0.732	0.12		
2.198	82778	71506	0.864	0.31		
2.407	191146	142081	0.743	0.72		
2.485	5780151	5532286	0.957	22.35		
2.688	419741	347465	0.828	1.59		
2.789	391882	367897	0.939	1.48		
2.851	1250012	1144522	0.916	4.74	4 Aroclor 1232	BA
3.028	21736	20469	0.942	0.08		
3.055	85135	77802	0.914	0.32		
3.280	70307	52213	0.743	0.26		
3.319	723460	656407	0.907	2.74		
3.344	391395	363151	0.928	1.48		
3.434	120283	103424	0.860	0.45		
3.514	669892	480513	0.717	2.54	4 Aroclor 1232	BA
3.611	20898	19814	0.948	0.07		
3.698	27644	23229	0.840	0.10		
3.733	173570	179973	1.037	0.65		
3.757	122922	116095	0.944	0.46		
3.827	1874863	1087503	0.580	7.12	4 Aroclor 1232	BA
3.929	803247	685069	0.853	3.05	4 Aroclor 1232	BA
3.995	545938	536580	0.983	2.07	4 Aroclor 1232	BA
4.059	141928	130174	0.917	0.53		
4.137	62125	51170	0.824	0.23		
4.216	393609	374181	0.951	1.49		
4.261	373167	361789	0.970	1.41		
4.294	162815	169097	1.039	0.61		
4.310	204739	187151	0.914	0.77		
4.371	21919	15566	0.710	0.08		
4.418	536617	502916	0.937	2.03		
4.452	418871	298669	0.713	1.59		
4.546	683890	623608	0.912	2.59		
4.618	163410	151749	0.929	0.62		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.681	14650	12034	0.821	0.05	
4.730	43779	30964	0.707	0.16	
4.769	38954	36822	0.945	0.14	
4.814	304752	292334	0.959	1.15	
4.848	526734	522616	0.992	2.00	
4.880	691689	534310	0.772	2.62	
4.958	81081	59242	0.731	0.30	
5.038	573825	543275	0.947	2.17	
5.099	111947	85321	0.762	0.42	
5.163	131671	111235	0.845	0.50	
5.213	95848	80980	0.845	0.36	
5.307	24699	21694	0.878	0.09	
5.363	86500	72230	0.835	0.32	
5.408	138303	112479	0.813	0.52	
5.447	83276	72672	0.873	0.31	
5.492	30778	35064	1.139	0.11	
5.511	193150	166298	0.861	0.73	
5.605	68006	59493	0.875	0.25	
5.676	16334	15605	0.955	0.06	
5.708	52967	20705	0.391	0.20	
5.793	143283	113467	0.792	0.54	
5.888	27037	15011	0.555	0.10	
6.026	118842	104296	0.878	0.45	
6.056	34574	29464	0.852	0.13	
6.171	24413	14466	0.593	0.09	
6.302	43529	35888	0.824	0.16	
6.447	25328	16811	0.664	0.09	
6.511	16971	13602	0.801	0.06	
7.005	21863	21930	1.003	0.08	
7.129	17051	15791	0.926	0.06	
7.254	11045	10898	0.987	0.04	
7.728	22228	20096	0.904	0.08	
7.779	25468	15517	0.609	0.09	
8.277	43793	37397	0.854	0.16	
8.379	30735	21976	0.715	0.11	
8.573	4915144	4232662	0.861	18.67	
8.944	38971	23332	0.599	0.14	
9.470	37385	22307	0.597	0.14	
9.964	32743	21879	0.668	0.12	
	26324135	22924262		100.000	

Total unknown % area = 80

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618008.D
Lab Smp Id: 1232-CAL3S Client Smp ID: 1232-CAL3S
Inj Date : 06-MAR-2018 11:50
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1232-cal3s, 185539:1
Misc Info : 17498,NSAR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 12:39 Cal File: 030618014.D
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1232.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
4 Aroclor 1232					CAS #: 1114-16-5			
2.851	2.851	0.000	1250012	0.50000	0.50	0.00- 20.00	100.00(M)	BA
3.513	3.513	0.000	669891	0.50000	0.50	0.00- 20.00	53.59	BA
3.827	3.827	0.000	1874863	0.50000	0.50	0.00- 20.00	149.99	BA
3.929	3.929	0.000	803246	0.50000	0.50	0.00- 20.00	64.26	BA
3.995	3.995	0.000	545938	0.50000	0.50	0.00- 20.00	43.67	BA
Average of Peak Amounts =					0.50000			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618008.D

Date : 06-MAR-2018 11:50

Client ID: 1232-CAL3S

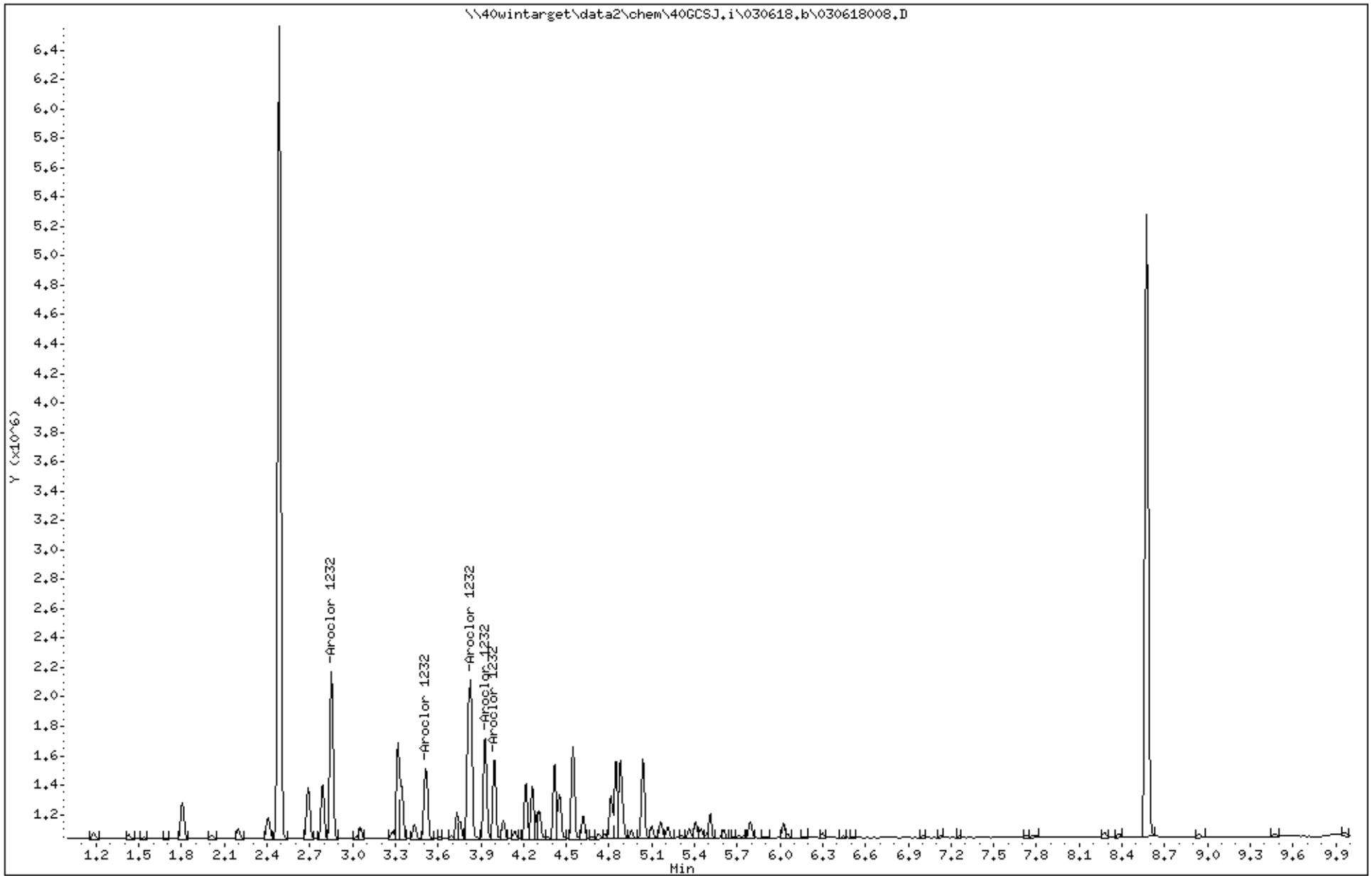
Instrument: 40GCSJ.i

Sample Info: 1232-CAL3S, 185539:1

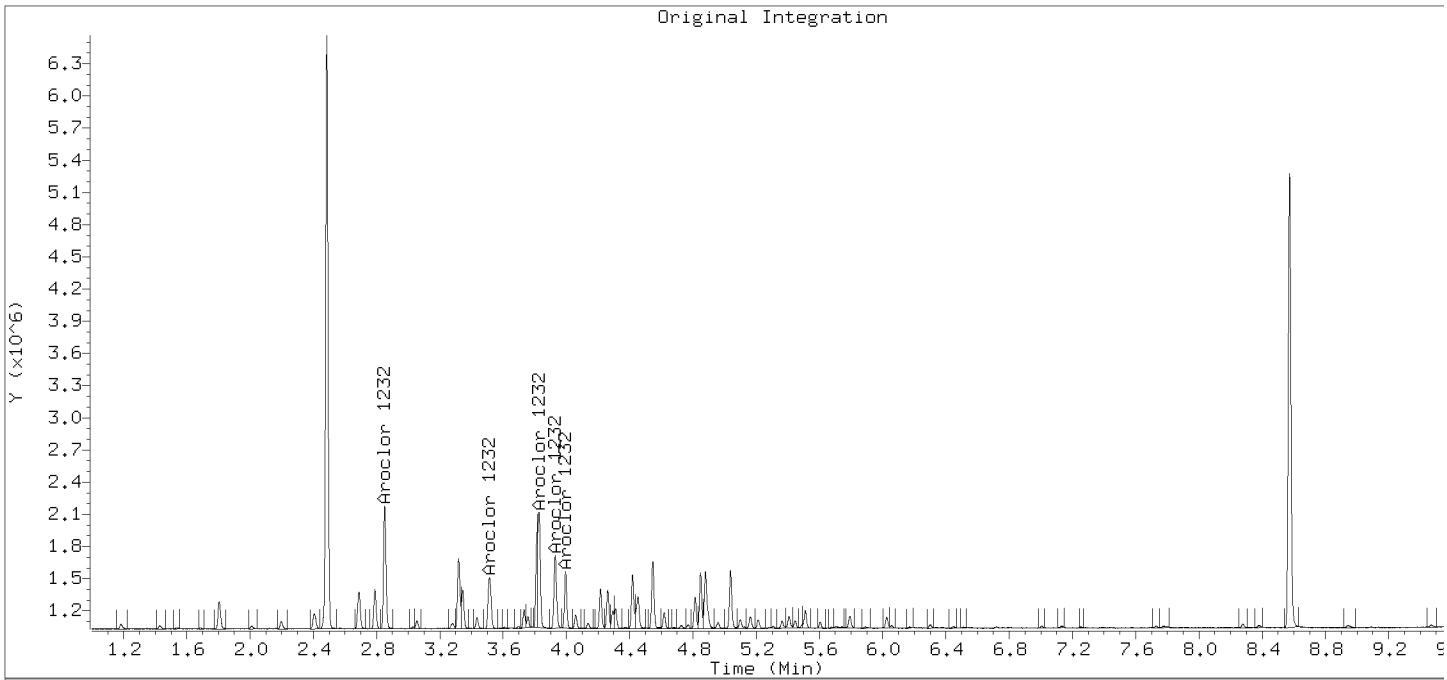
Operator: BLM

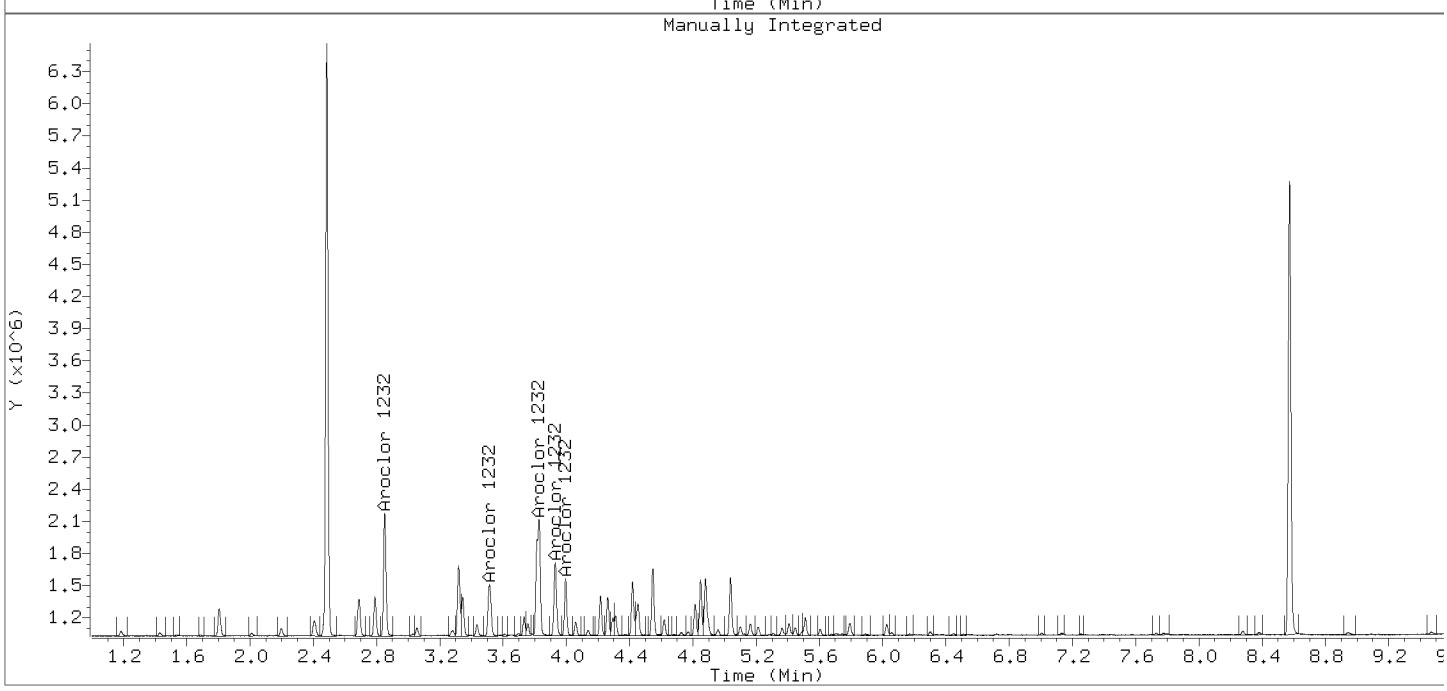
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618008.D (ManInt: NSAR1232.sub Orig: NSAR1232.sub)
Injection Date: 06-MAR-2018 11:50 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1232-CAL3S





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1232	1234986	1250012	BA
Aroclor 1232	1234986	1250012	BA
Aroclor 1232	1234986	1250012	BA
Aroclor 1232	1234986	1250012	BA
Aroclor 1232	1234986	1250012	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618010.D
Lab Smp Id: 1221-CAL1F Client Smp ID: 1221-CAL1F
Inj Date : 06-MAR-2018 12:07
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-cal1f, 188138:1
Misc Info : 17498,NSAR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 13:44 Cal File: 030618022.D
Als bottle: 6 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1221.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.180	13612	11288	0.829	0.38		
1.804	116885	98810	0.845	3.31	1 Aroclor 1221	BA
2.197	36039	30499	0.846	1.02		
2.407	61218	44733	0.731	1.73	1 Aroclor 1221	BA
2.485	1172586	1134895	0.968	33.37		
2.688	150512	119908	0.797	4.27	1 Aroclor 1221	BA
2.790	118144	107550	0.910	3.35	1 Aroclor 1221	BA
2.852	349220	309600	0.887	9.90	1 Aroclor 1221	BA
3.279	28274	21896	0.774	0.80		
3.325	85123	48119	0.565	2.41		
3.380	10358	5756	0.556	0.29		
3.436	15926	10893	0.684	0.45		
3.513	38645	25267	0.654	1.09		
3.733	9954	10584	1.063	0.28		
3.817	38159	24082	0.631	1.08		
3.928	37088	28113	0.758	1.05		
3.996	22534	20384	0.905	0.63		
4.260	9635	9376	0.973	0.27		
4.546	10833	12359	1.141	0.30		
4.881	15313	10912	0.713	0.43		
5.040	11422	9410	0.824	0.32		
8.278	12362	11919	0.964	0.35		
8.380	10282	8381	0.815	0.29		
8.572	1127356	960701	0.852	31.98		
8.936	10000	8119	0.812	0.28		
9.466	13059	9537	0.730	0.37		
	3524537	3093091		100.000		

Total unknown % area = 77

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618010.D
Lab Smp Id: 1221-CAL1F Client Smp ID: 1221-CAL1F
Inj Date : 06-MAR-2018 12:07
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-cal1f, 188138:1
Misc Info : 17498,NSAR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 13:44 Cal File: 030618022.D
Als bottle: 6 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1221.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
1.803	1.804	-0.001	116884	0.10000	0.11	0.00- 20.00	100.00(M)	BA
2.406	2.407	-0.001	61218	0.10000	0.11	0.00- 20.00	52.38	BA
2.687	2.688	-0.001	150511	0.10000	0.11	0.00- 20.00	128.77	BA
2.789	2.789	0.000	118144	0.10000	0.11	0.00- 20.00	101.08	BA
2.851	2.851	0.000	349219	0.10000	0.11	0.00- 20.00	298.77	BA
Average of Peak Amounts =					0.11000			

QC Flag Legend

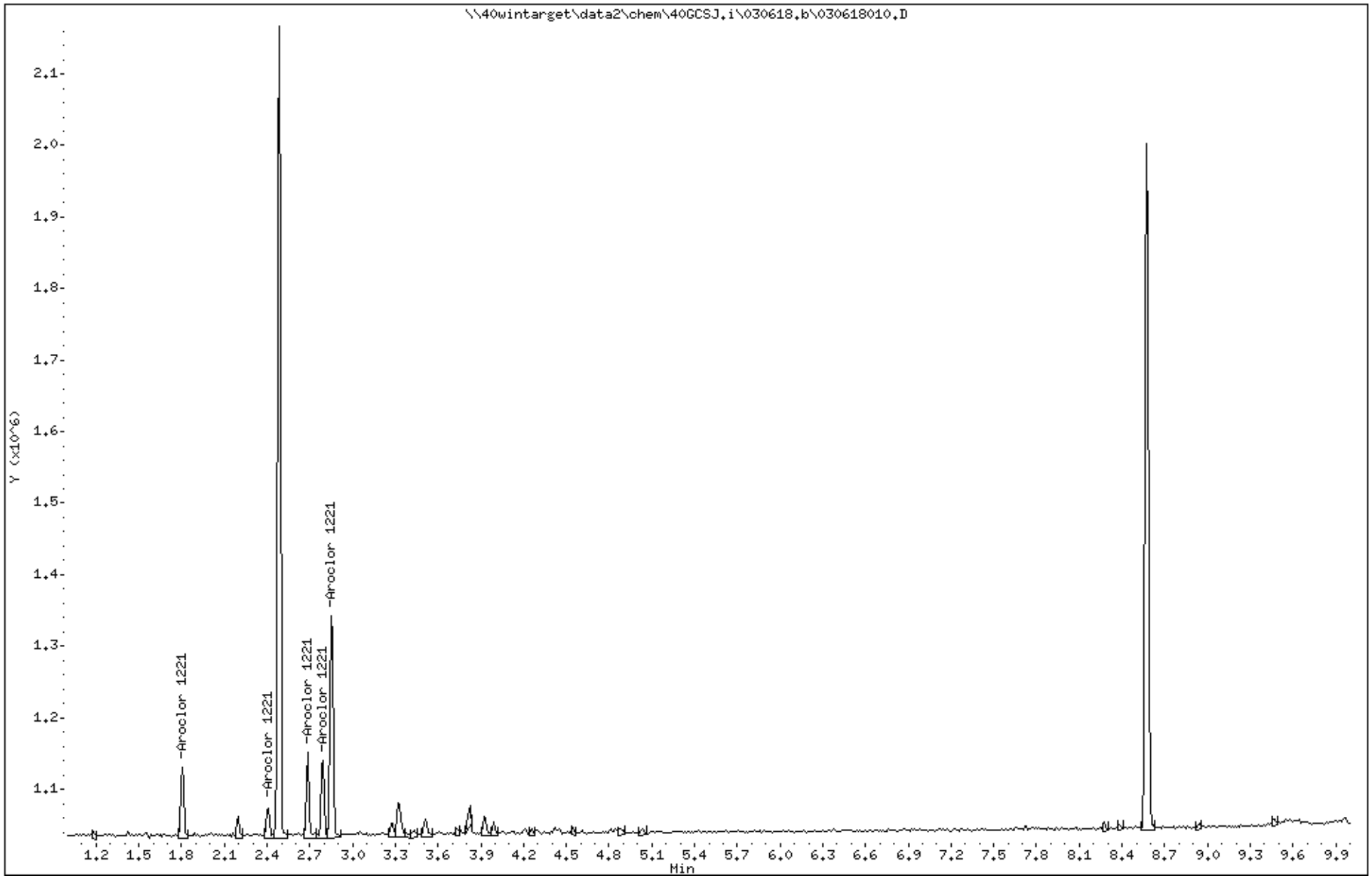
M - Compound response manually integrated.

Review Codes Legend

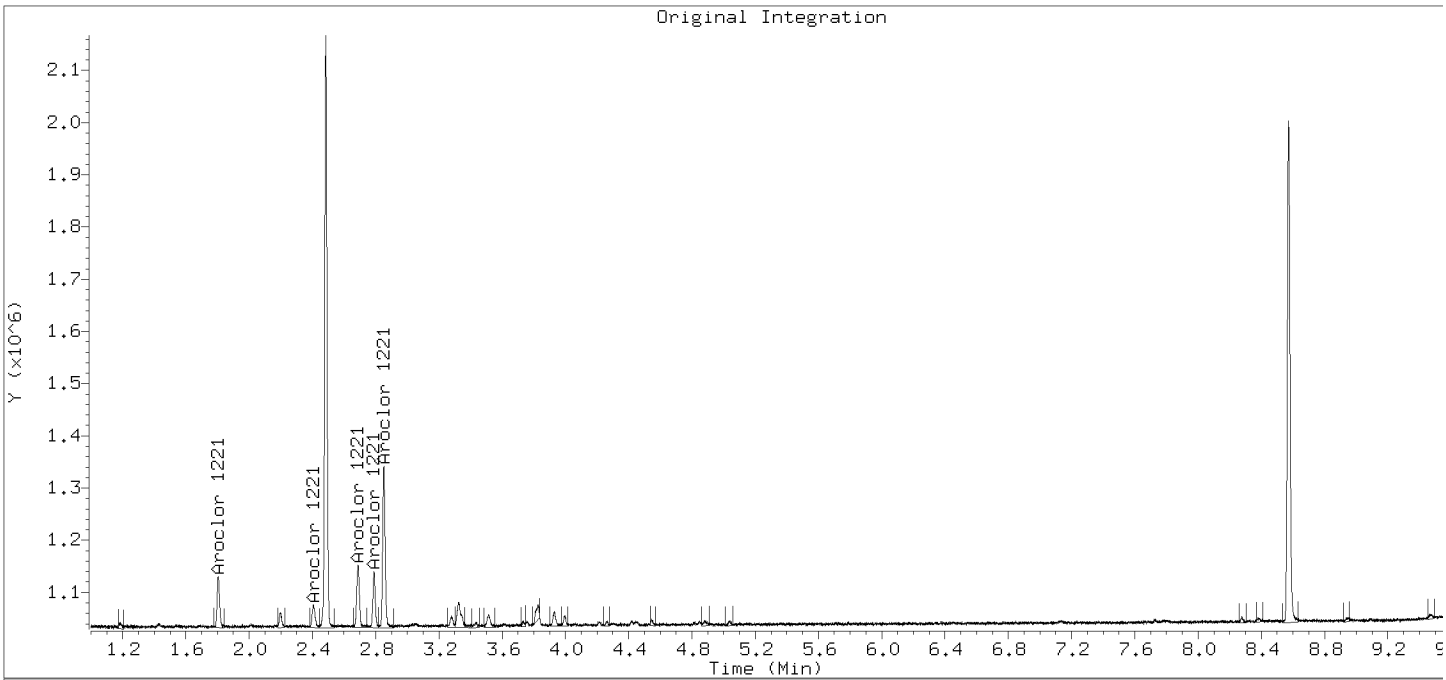
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

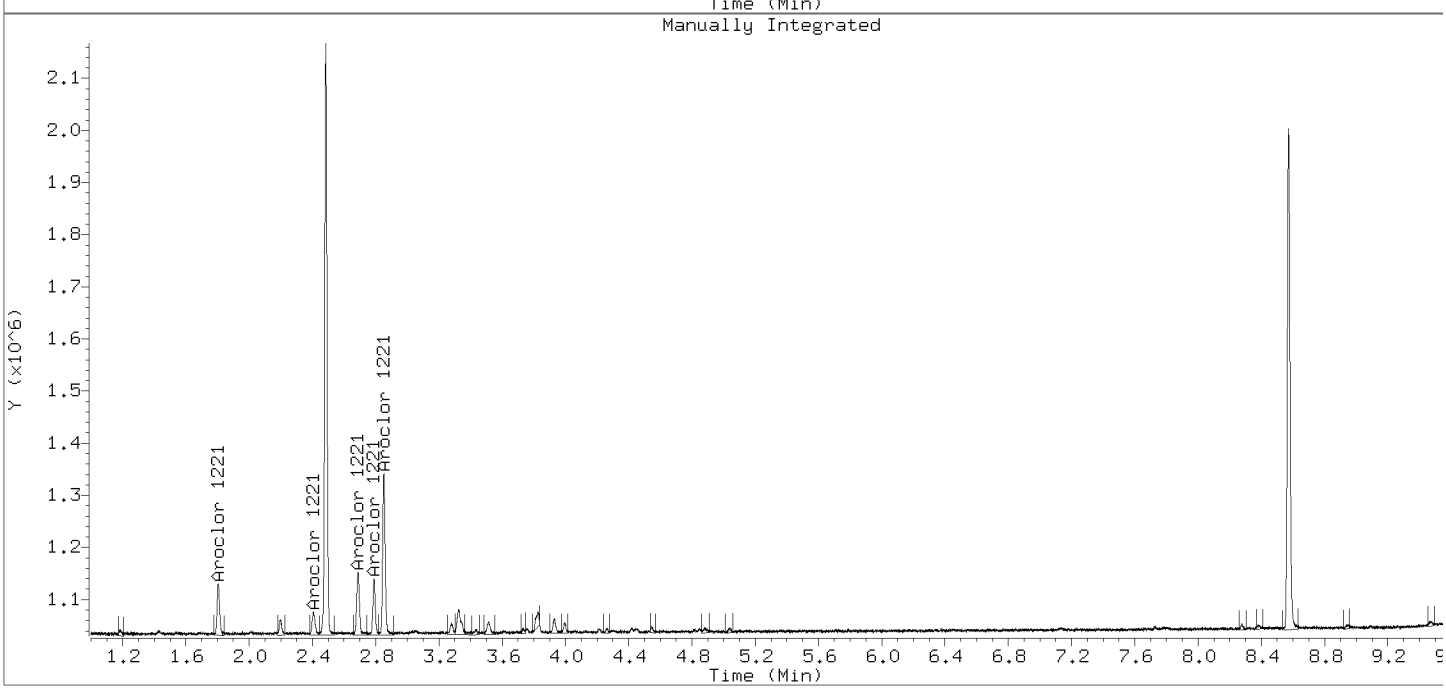
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618010.D
Date : 06-MAR-2018 12:07
Client ID: 1221-CAL1F
Sample Info: 1221-CAL1F, 188138:1

Instrument: 40GCSJ.i
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618010.D (ManInt: NSAR1221.sub Orig: NSAR1221.sub)
Injection Date: 06-MAR-2018 12:07 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1221-CAL1F





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1221	111828	116884	BA
Aroclor 1221	111828	116884	BA
Aroclor 1221	111828	116884	BA
Aroclor 1221	111828	116884	BA
Aroclor 1221	111828	116884	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618012.D
Lab Smp Id: 1221-CAL2F Client Smp ID: 1221-CAL2F
Inj Date : 06-MAR-2018 12:23
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-cal2f, 188139:1
Misc Info : 17498,NSAR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 12:23 Cal File: 030618012.D
Als bottle: 7 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1221.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.185	21110	15992	0.758	0.29		
1.432	19890	14202	0.714	0.27		
1.804	222151	196763	0.886	3.10	1 Aroclor 1221	BA
2.006	14074	10640	0.756	0.19		
2.198	66696	59685	0.895	0.93		
2.408	117491	84755	0.721	1.64	1 Aroclor 1221	BA
2.485	2389575	2280739	0.954	33.51		
2.688	289327	237824	0.822	4.03	1 Aroclor 1221	BA
2.790	230052	213818	0.929	3.21	1 Aroclor 1221	BA
2.852	694108	629495	0.907	9.69	1 Aroclor 1221	BA
3.055	24441	15851	0.649	0.34		
3.283	52341	38105	0.728	0.73		
3.322	162359	92875	0.572	2.26		
3.433	17768	16060	0.904	0.24		
3.514	68265	44434	0.651	0.95		
3.610	18983	11562	0.609	0.26		
3.733	17041	17575	1.031	0.23		
3.755	20072	17438	0.869	0.28		
3.827	142441	84122	0.591	1.98		
3.930	69577	57831	0.831	0.97		
3.996	47705	40519	0.849	0.66		
4.216	23635	18011	0.762	0.33		
4.261	14899	13886	0.932	0.20		
4.418	12729	14384	1.130	0.17		
4.547	21625	20493	0.948	0.30		
4.618	11602	9168	0.790	0.16		
4.848	13653	14682	1.075	0.19		
4.880	20209	15214	0.753	0.28		
5.040	16835	15081	0.896	0.23		
7.133	16511	8656	0.524	0.23		
7.728	11846	11710	0.989	0.16		
8.278	23007	17531	0.762	0.32		
8.378	9408	9279	0.986	0.13		
8.573	2192346	1884280	0.859	30.61		
8.940	11831	13025	1.101	0.16		
9.473	27497	16611	0.604	0.38		
9.964	28645	19011	0.664	0.39		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
	7161743	6281307		100.000	

Total unknown % area = 78

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618012.D
Lab Smp Id: 1221-CAL2F Client Smp ID: 1221-CAL2F
Inj Date : 06-MAR-2018 12:23
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-cal2f, 188139:1
Misc Info : 17498,NSAR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 12:23 Cal File: 030618012.D
Als bottle: 7 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1221.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
1.804	1.804	0.000	222151	0.20000	0.21	0.00- 20.00	100.00(M)	BA
2.407	2.407	0.000	117490	0.20000	0.21	0.00- 20.00	52.89	BA
2.688	2.688	0.000	289327	0.20000	0.21	0.00- 20.00	130.24	BA
2.789	2.789	0.000	230051	0.20000	0.21	0.00- 20.00	103.56	BA
2.851	2.851	0.000	694107	0.20000	0.21	0.00- 20.00	312.45	BA
Average of Peak Amounts =					0.21000			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618012.D

Date : 06-MAR-2018 12:23

Client ID: 1221-CAL2F

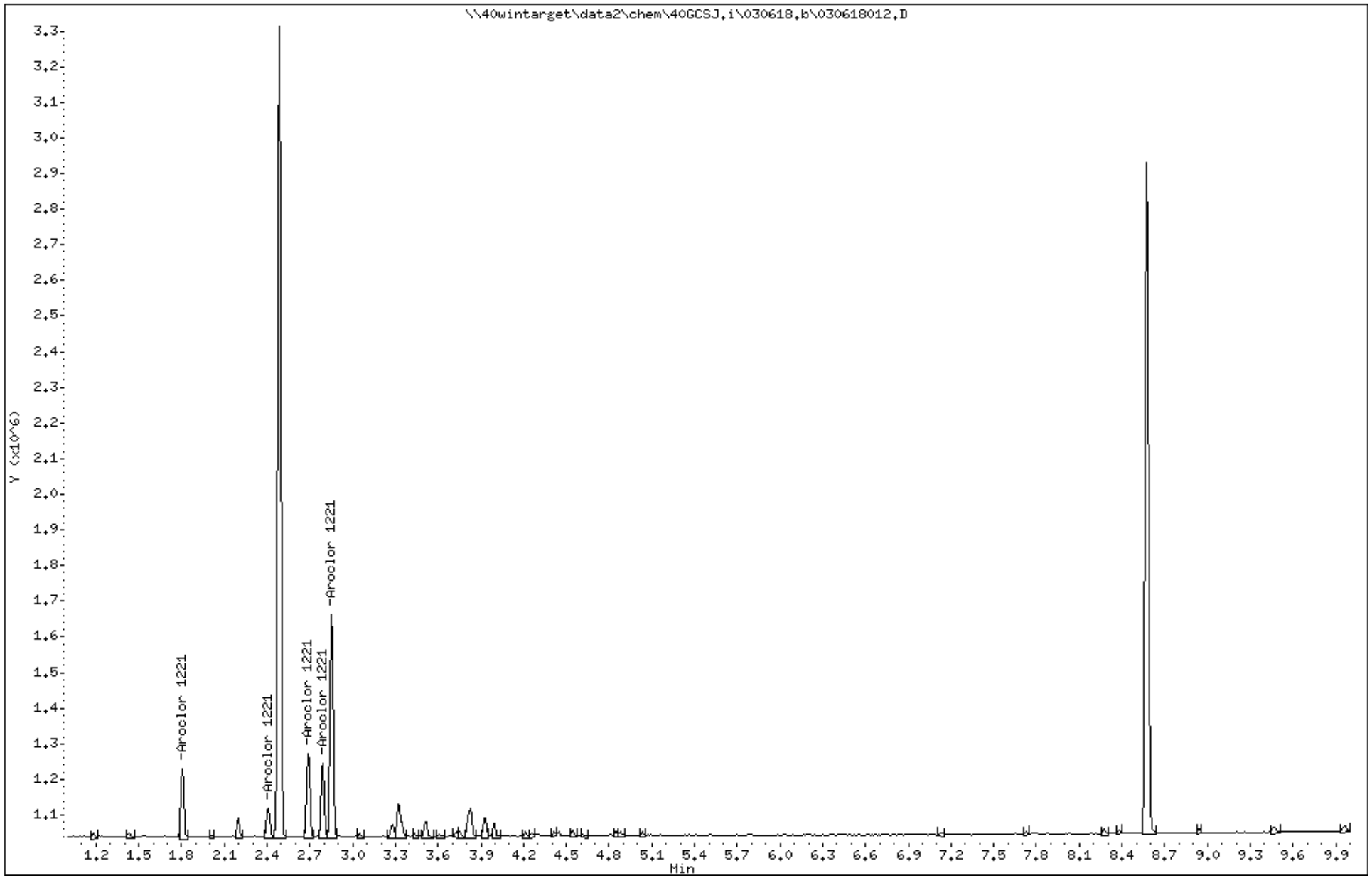
Instrument: 40GCSJ.i

Sample Info: 1221-CAL2F, 188139:1

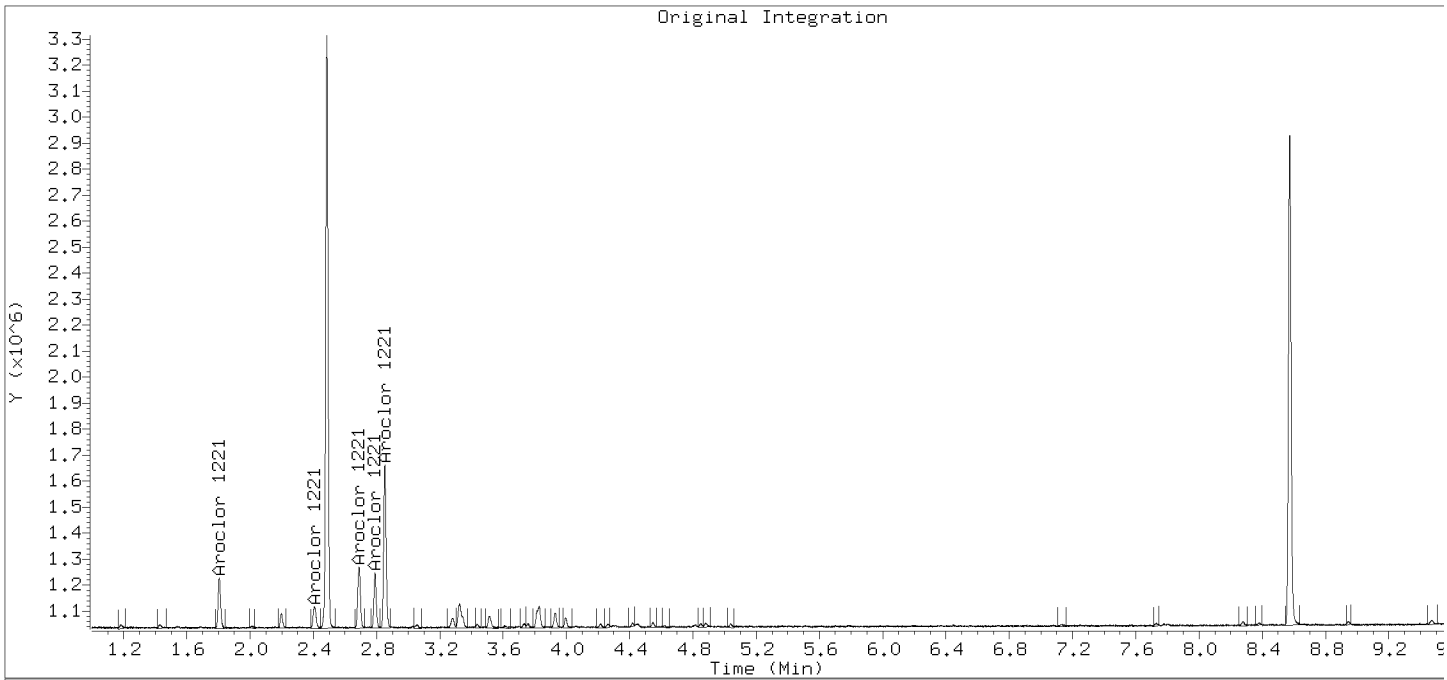
Operator: BLM

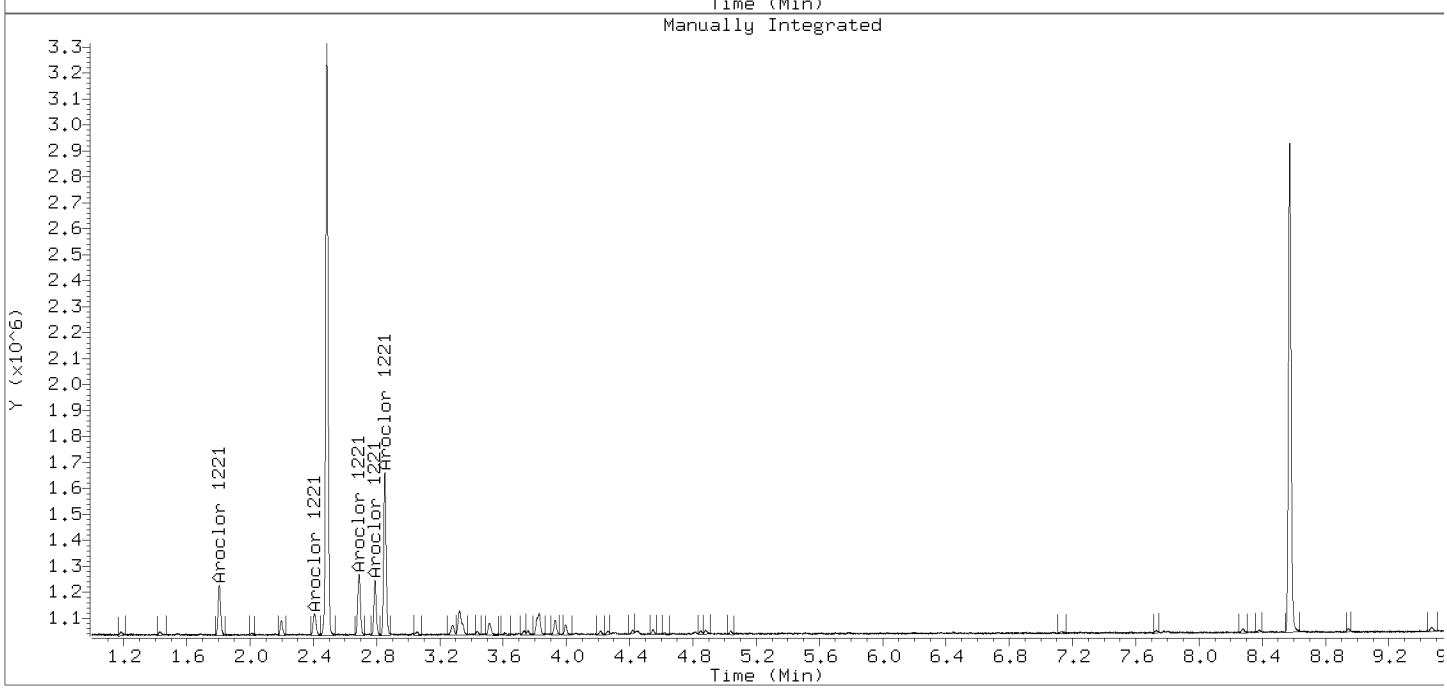
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618012.D (ManInt: NSAR1221.sub Orig: NSAR1221.sub)
Injection Date: 06-MAR-2018 12:23 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1221-CAL2F





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1221	219680	222151	BA
Aroclor 1221	219680	222151	BA
Aroclor 1221	219680	222151	BA
Aroclor 1221	219680	222151	BA
Aroclor 1221	219680	222151	BA

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Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618014.D
Lab Smp Id: 1221-CAL3F Client Smp ID: 1221-CAL3F
Inj Date : 06-MAR-2018 12:39
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-cal3f, 185538:1
Misc Info : 17498,NSAR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 12:39 Cal File: 030618014.D
Als bottle: 8 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1221.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.184	46886	34819	0.743	0.27		
1.429	37682	34000	0.902	0.22		
1.540	18475	13916	0.753	0.11		
1.686	12215	9839	0.805	0.07		
1.805	490239	441873	0.901	2.92	1 Aroclor 1221	BA
2.010	34778	21164	0.609	0.20		
2.197	148893	131934	0.886	0.88		
2.408	263311	192077	0.729	1.56	1 Aroclor 1221	BA
2.485	5899001	5597678	0.949	35.41		
2.688	658124	555463	0.844	3.92	1 Aroclor 1221	BA
2.790	519264	501204	0.965	3.09	1 Aroclor 1221	BA
2.851	1583519	1422292	0.898	9.43	1 Aroclor 1221	BA
3.030	16777	16577	0.988	0.09		
3.055	39004	30894	0.792	0.23		
3.213	9910	8832	0.891	0.05		
3.281	111839	84209	0.753	0.66		
3.325	365423	215871	0.591	2.17		
3.437	35737	30648	0.858	0.21		
3.514	140459	101998	0.726	0.83		
3.608	20183	17591	0.872	0.12		
3.732	32639	35941	1.101	0.19		
3.757	24903	28786	1.156	0.14		
3.827	309924	194764	0.628	1.84		
3.930	154650	131637	0.851	0.92		
3.996	105091	94784	0.902	0.62		
4.058	20977	14811	0.706	0.12		
4.215	34584	31722	0.917	0.20		
4.262	26916	30192	1.122	0.16		
4.292	16244	12494	0.769	0.09		
4.374	10462	9206	0.880	0.06		
4.418	41223	41705	1.012	0.24		
4.452	49711	28399	0.571	0.29		
4.545	54290	46656	0.859	0.32		
4.616	14003	11847	0.846	0.08		
4.812	21709	20229	0.932	0.12		
4.848	35650	33592	0.942	0.21		
4.882	55103	37630	0.683	0.32		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.039	36880	30922	0.838	0.21	
5.164	10614	9077	0.855	0.06	
5.703	10136	9806	0.967	0.06	
5.794	11063	9888	0.894	0.06	
6.450	15885	11521	0.725	0.09	
7.126	18110	12799	0.707	0.10	
7.730	23581	20558	0.872	0.14	
7.777	18011	13331	0.740	0.10	
7.801	14860	14996	1.009	0.08	
8.276	48701	37600	0.772	0.29	
8.381	26483	18054	0.682	0.15	
8.573	5020450	4347562	0.866	29.92	
8.945	30595	17805	0.582	0.18	
9.086	11785	9130	0.775	0.07	
9.963	22483	17745	0.789	0.13	
	16779431	14848068		100.000	

Total unknown % area = 79

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SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618014.D
Lab Smp Id: 1221-CAL3F Client Smp ID: 1221-CAL3F
Inj Date : 06-MAR-2018 12:39
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-cal3f, 185538:1
Misc Info : 17498,NSAR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 12:39 Cal File: 030618014.D
Als bottle: 8 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1221.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
1.804	1.804	0.000	490239	0.50000	0.47	0.00- 20.00	100.00(M)	BA
2.407	2.407	0.000	263311	0.50000	0.48	0.00- 20.00	53.71	BA
2.688	2.688	0.000	658123	0.50000	0.48	0.00- 20.00	134.25	BA
2.790	2.789	0.001	519263	0.50000	0.47	0.00- 20.00	105.92	BA
2.851	2.851	0.000	1583519	0.50000	0.49	0.00- 20.00	323.01	BA
Average of Peak Amounts =					0.47800			

QC Flag Legend

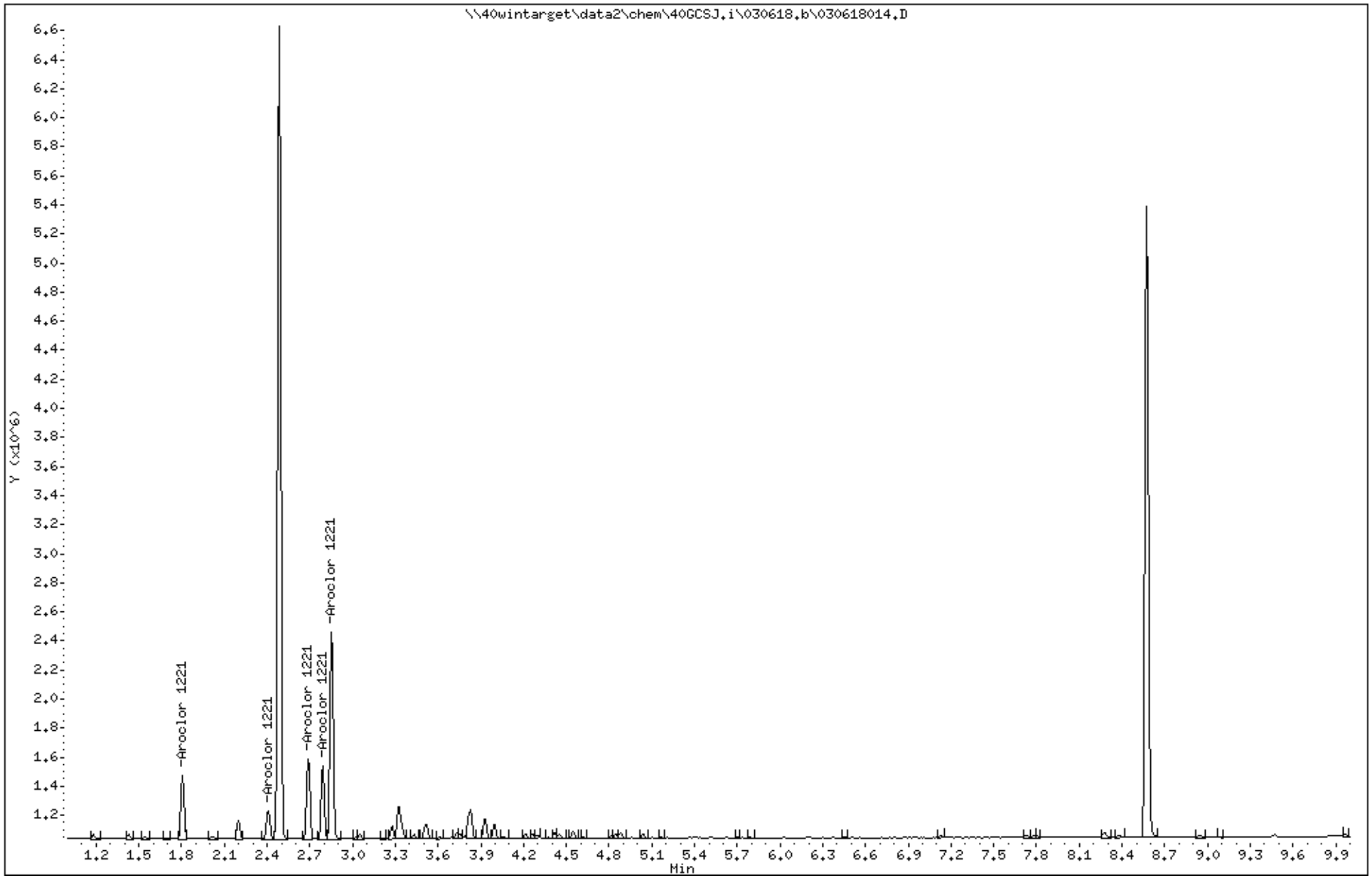
M - Compound response manually integrated.

Review Codes Legend

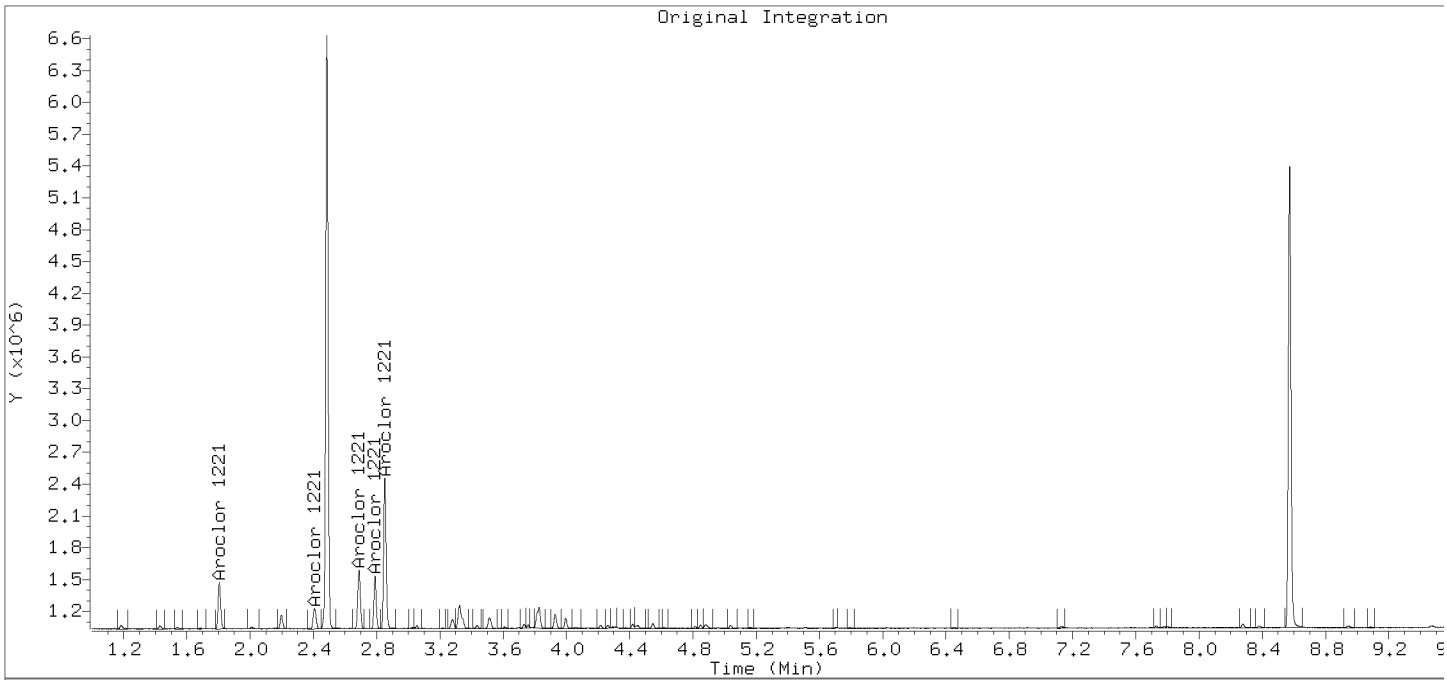
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

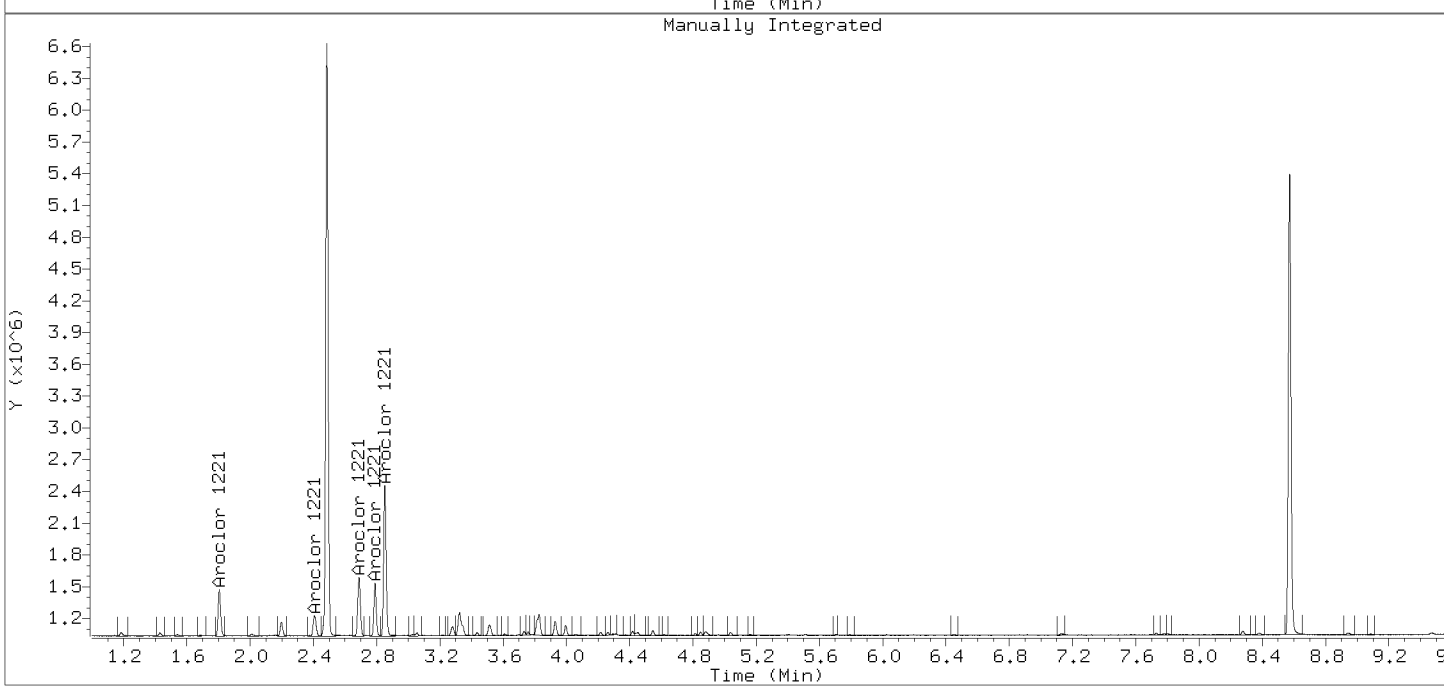
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618014.D
Date : 06-MAR-2018 12:39
Client ID: 1221-CAL3F
Sample Info: 1221-CAL3F, 185538:1

Instrument: 40GCSJ.i
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618014.D (ManInt: NSAR1221.sub Orig: NSAR1221.sub)
Injection Date: 06-MAR-2018 12:39 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1221-CAL3F





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1221	483261	490239	BA
Aroclor 1221	483261	490239	BA
Aroclor 1221	483261	490239	BA
Aroclor 1221	483261	490239	BA
Aroclor 1221	483261	490239	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618016.D
Lab Smp Id: 1221-CAL4F Client Smp ID: 1221-CAL4F
Inj Date : 06-MAR-2018 12:55
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-cal4f, 188140:1
Misc Info : 17498,NSAR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 12:55 Cal File: 030618016.D
Als bottle: 9 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1221.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.181	15077	12970	0.860	0.04		
1.430	62013	58411	0.942	0.20		
1.540	29523	27434	0.929	0.09		
1.682	10134	8214	0.811	0.03		
1.804	785551	700381	0.892	2.59	1 Aroclor 1221	BA
2.162	17608	16089	0.914	0.05		
2.197	232212	214361	0.923	0.76		
2.408	409142	300406	0.734	1.35	1 Aroclor 1221	BA
2.485	11502194	11125302	0.967	38.28		
2.689	1067134	893347	0.837	3.52	1 Aroclor 1221	BA
2.789	853931	817692	0.958	2.82	1 Aroclor 1221	BA
2.851	2470730	2197877	0.890	8.16	1 Aroclor 1221	BA
3.053	58135	49830	0.857	0.19		
3.280	178171	134368	0.754	0.58		
3.325	581244	339314	0.584	1.92		
3.436	58621	50800	0.867	0.19		
3.513	227025	162531	0.716	0.75		
3.611	30500	29323	0.961	0.10		
3.696	15508	16983	1.095	0.05		
3.732	59581	61761	1.037	0.19		
3.757	63343	56081	0.885	0.20		
3.827	512825	311364	0.607	1.69		
3.929	244641	209892	0.858	0.80		
3.995	150703	143674	0.953	0.49		
4.059	21801	19537	0.896	0.07		
4.134	11088	10051	0.906	0.03		
4.215	55304	52296	0.946	0.18		
4.260	51932	50173	0.966	0.17		
4.291	25327	22345	0.882	0.08		
4.311	24902	25307	1.016	0.08		
4.418	49634	53105	1.070	0.16		
4.443	38631	29989	0.776	0.12		
4.547	83853	73357	0.875	0.27		
4.617	26087	19117	0.733	0.08		
4.814	30317	32424	1.069	0.10		
4.849	51073	52237	1.023	0.16		
4.880	70316	49193	0.700	0.23		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.038	59957	50669	0.845	0.19	
5.103	12689	10469	0.825	0.04	
5.163	17456	13811	0.791	0.05	
5.216	17786	12808	0.720	0.05	
5.360	16391	9844	0.601	0.05	
5.406	16004	13419	0.838	0.05	
5.445	10313	9432	0.915	0.03	
5.512	20459	14813	0.724	0.06	
5.793	13847	11803	0.852	0.04	
7.123	27333	14055	0.514	0.09	
7.694	9264	9447	1.020	0.03	
7.729	46203	36902	0.799	0.15	
7.800	22162	20669	0.933	0.07	
8.276	84580	73604	0.870	0.27	
8.381	14600	14602	1.000	0.04	
8.573	9619023	8259708	0.859	31.79	
8.941	10654	8547	0.802	0.03	
9.090	21504	11989	0.558	0.07	
9.466	18951	12488	0.659	0.06	
9.960	21699	14589	0.672	0.07	
	30256687	27051204		100.000	

Total unknown % area = 82

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618016.D
Lab Smp Id: 1221-CAL4F Client Smp ID: 1221-CAL4F
Inj Date : 06-MAR-2018 12:55
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-cal4f, 188140:1
Misc Info : 17498,NSAR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 12:55 Cal File: 030618016.D
Als bottle: 9 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1221.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
1.804	1.804	0.000	785550	0.80000	0.75	0.00- 20.00	100.00(M)	BA
2.407	2.407	0.000	409142	0.80000	0.75	0.00- 20.00	52.08	BA
2.688	2.688	0.000	1067134	0.80000	0.77	0.00- 20.00	135.85	BA
2.789	2.789	0.000	853931	0.80000	0.77	0.00- 20.00	108.70	BA
2.851	2.851	0.000	2470729	0.80000	0.76	0.00- 20.00	314.52	BA
Average of Peak Amounts =					0.76000			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618016.D

Date : 06-MAR-2018 12:55

Client ID: 1221-CAL4F

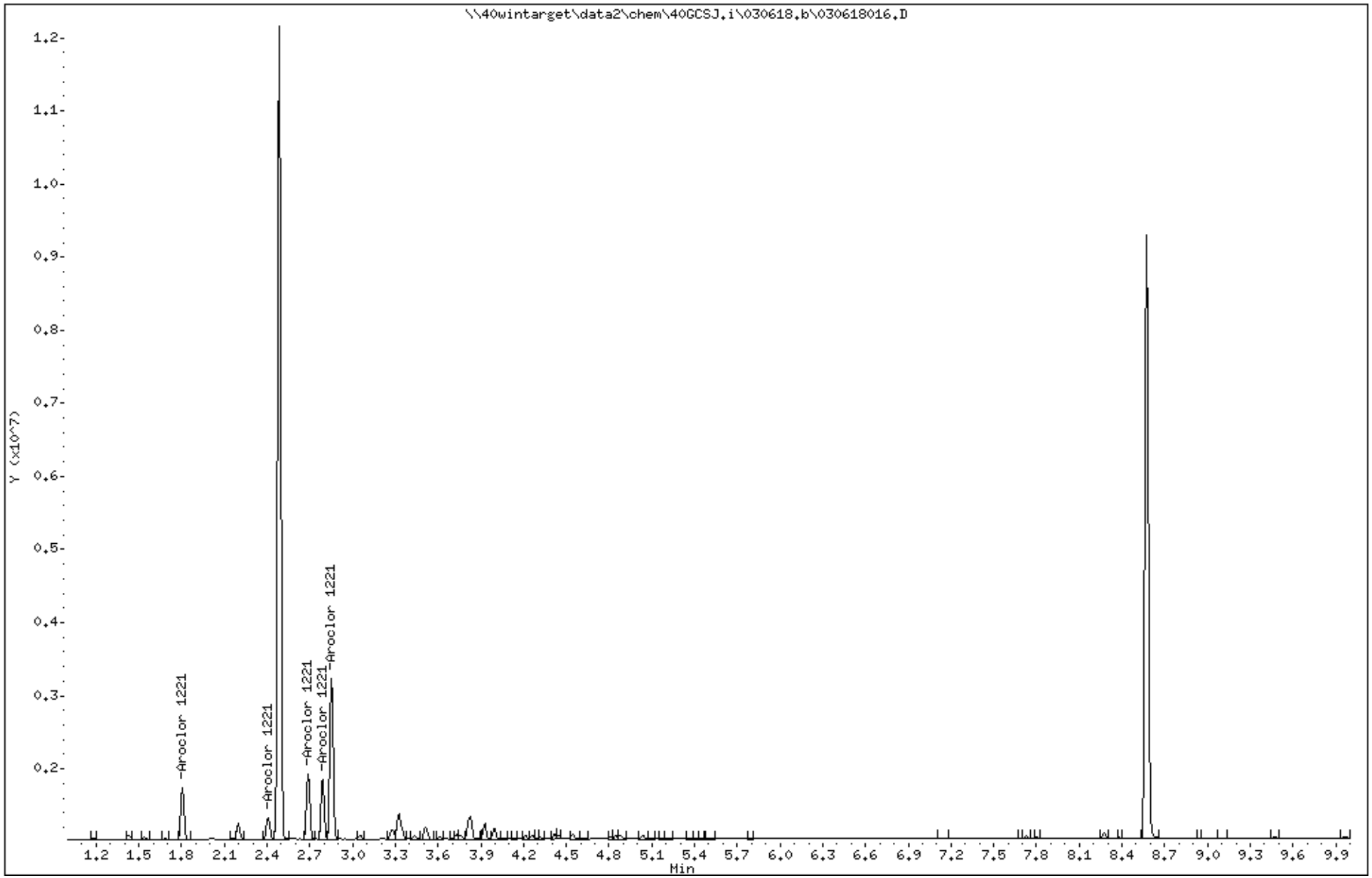
Instrument: 40GCSJ.i

Sample Info: 1221-CAL4F, 188140:1

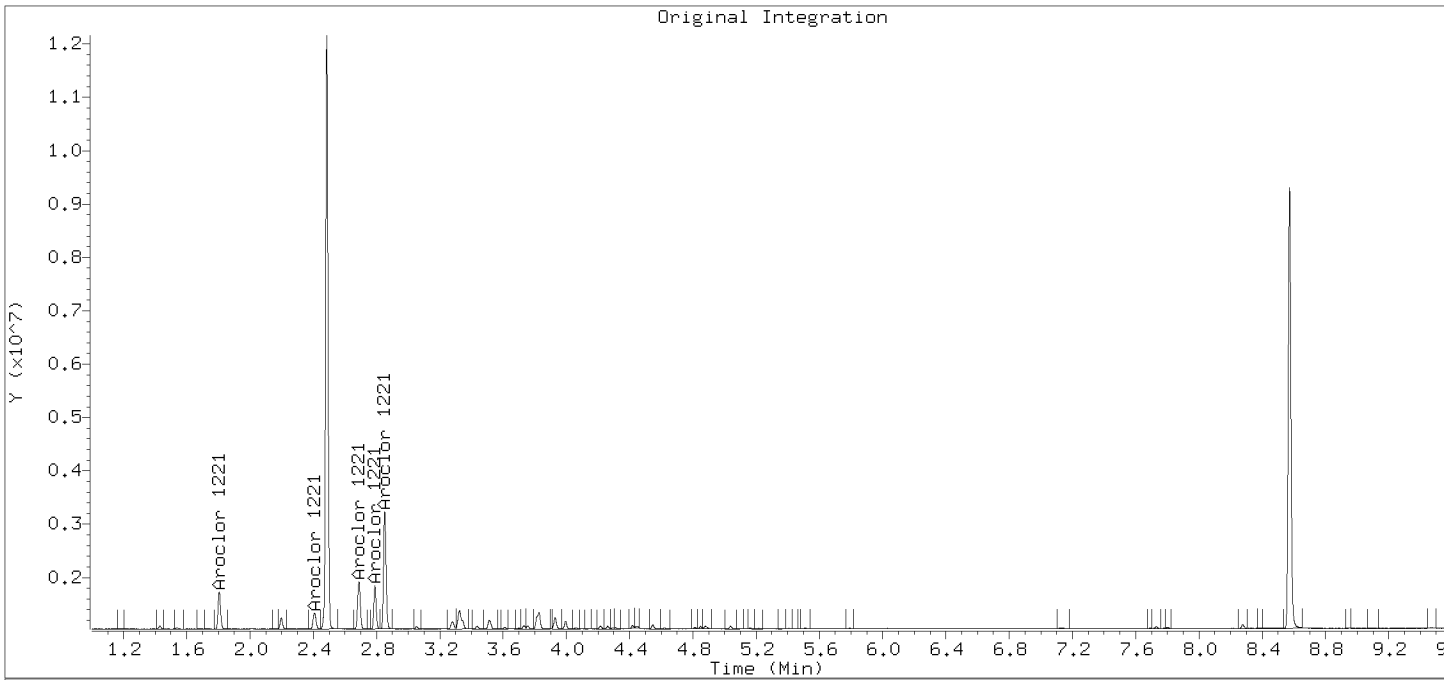
Operator: BLM

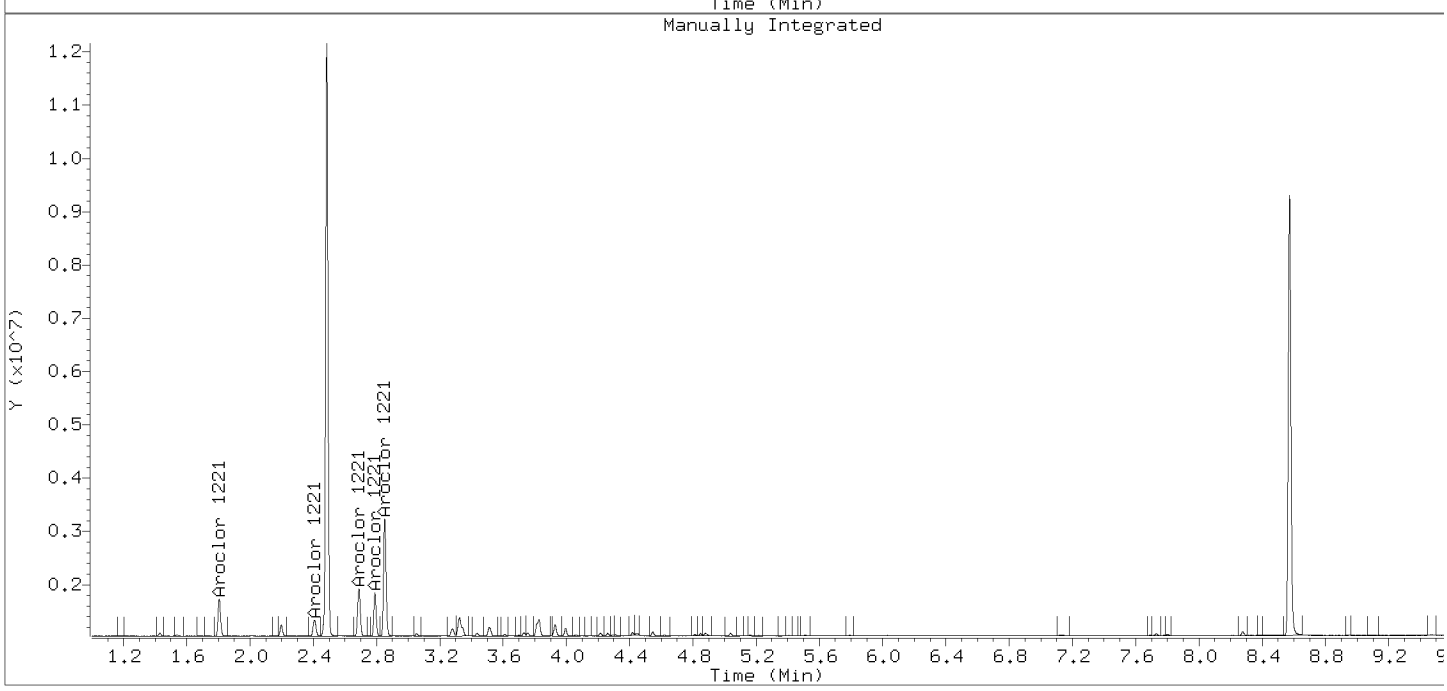
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618016.D (ManInt: NSAR1221.sub Orig: NSAR1221.sub)
Injection Date: 06-MAR-2018 12:55 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1221-CAL4F





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1221	780911	785550	BA
Aroclor 1221	780911	785550	BA
Aroclor 1221	780911	785550	BA
Aroclor 1221	780911	785550	BA
Aroclor 1221	780911	785550	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618018.D
Lab Smp Id: 1221-CAL5F Client Smp ID: 1221-CAL5F
Inj Date : 06-MAR-2018 13:11
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-cal5f, 188141:1
Misc Info : 17498,NSAR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 13:11 Cal File: 030618018.D
Als bottle: 10 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1221.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.429	91782	83949	0.915	0.21		
1.539	45153	34415	0.762	0.10		
1.806	964273	851004	0.883	2.23	1 Aroclor 1221	BA
2.014	11838	7838	0.662	0.02		
2.160	16492	15827	0.960	0.03		
2.198	286599	255763	0.892	0.66		
2.408	501535	366636	0.731	1.16	1 Aroclor 1221	BA
2.486	17378255	16694368	0.961	40.52		
2.688	1314776	1093955	0.832	3.04	1 Aroclor 1221	BA
2.790	1091213	1024965	0.939	2.52	1 Aroclor 1221	BA
2.851	3058815	2705599	0.885	7.08	1 Aroclor 1221	BA
3.053	74407	64323	0.864	0.17		
3.217	18486	13382	0.724	0.04		
3.281	228692	172494	0.754	0.52		
3.325	747509	424295	0.568	1.73		
3.436	77500	63495	0.819	0.17		
3.513	280490	203651	0.726	0.64		
3.612	49578	44845	0.905	0.11		
3.701	23500	20479	0.871	0.05		
3.734	76655	76322	0.996	0.17		
3.757	81462	74126	0.910	0.18		
3.827	635271	385105	0.606	1.47		
3.929	312825	252728	0.808	0.72		
3.995	186590	175263	0.939	0.43		
4.062	31750	23556	0.742	0.07		
4.138	17974	12098	0.673	0.04		
4.217	72031	63997	0.888	0.16		
4.261	66789	61014	0.914	0.15		
4.293	54107	32297	0.597	0.12		
4.418	84432	78861	0.934	0.19		
4.451	94426	56177	0.595	0.21		
4.546	109930	92350	0.840	0.25		
4.618	33492	25022	0.747	0.07		
4.815	42406	39475	0.931	0.09		
4.849	68687	65653	0.956	0.15		
4.881	95718	65369	0.683	0.22		
4.957	18933	12531	0.662	0.04		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.037	71300	62002	0.870	0.16	
5.101	11578	12947	1.118	0.02	
5.162	15068	13787	0.915	0.03	
5.208	16758	12735	0.760	0.03	
5.363	13212	11132	0.843	0.03	
5.408	17007	15696	0.923	0.03	
5.445	14075	10385	0.738	0.03	
5.512	25865	18240	0.705	0.05	
5.792	16968	13288	0.783	0.03	
6.028	13891	11907	0.857	0.03	
7.125	30918	19205	0.621	0.07	
7.692	13631	9457	0.694	0.03	
7.729	65348	56318	0.862	0.15	
7.802	42671	34037	0.798	0.09	
8.277	126824	104866	0.827	0.29	
8.379	18877	14713	0.779	0.04	
8.573	14268732	12292631	0.862	33.03	
8.940	12885	8913	0.692	0.02	
9.089	24129	17399	0.721	0.05	
9.468	12972	8897	0.686	0.03	
9.969	15122	10700	0.708	0.03	
	43192203	38492482		100.000	

Total unknown % area = 84

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618018.D
Lab Smp Id: 1221-CAL5F Client Smp ID: 1221-CAL5F
Inj Date : 06-MAR-2018 13:11
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-cal5f, 188141:1
Misc Info : 17498,NSAR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 13:11 Cal File: 030618018.D
Als bottle: 10 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1221.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
1.806	1.804	0.002	964273	1.00000	0.93	0.00- 20.00	100.00(M)	BA
2.407	2.407	0.000	501535	1.00000	0.92	0.00- 20.00	52.01	BA
2.688	2.688	0.000	1314775	1.00000	0.95	0.00- 20.00	136.35	BA
2.789	2.789	0.000	1091213	1.00000	0.99	0.00- 20.00	113.16	BA
2.851	2.851	0.000	3058814	1.00000	0.94	0.00- 20.00	317.21	BA
Average of Peak Amounts =					0.94600			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618018.D

Date : 06-MAR-2018 13:11

Client ID: 1221-CAL5F

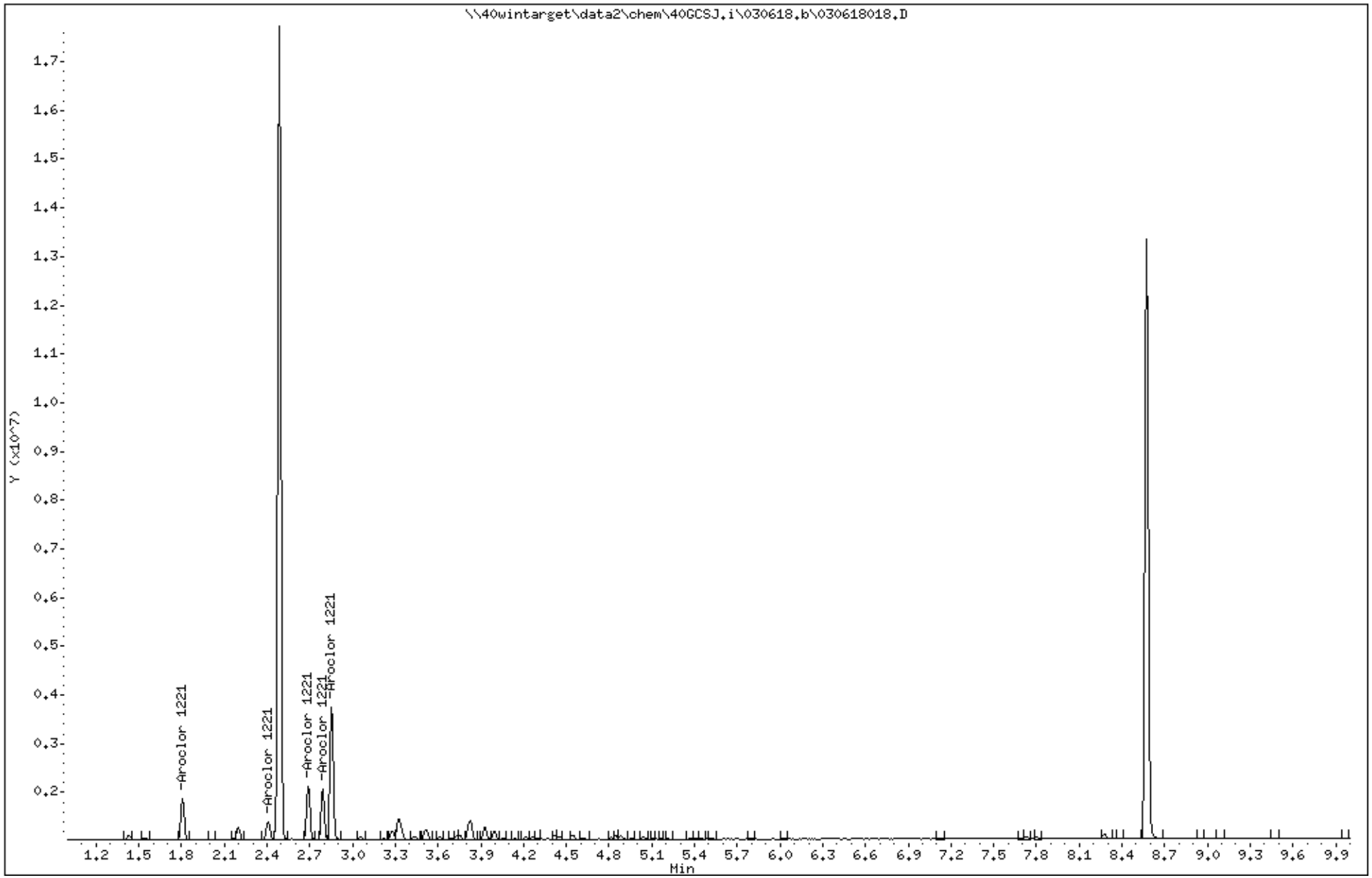
Instrument: 40GCSJ.i

Sample Info: 1221-CAL5F, 188141:1

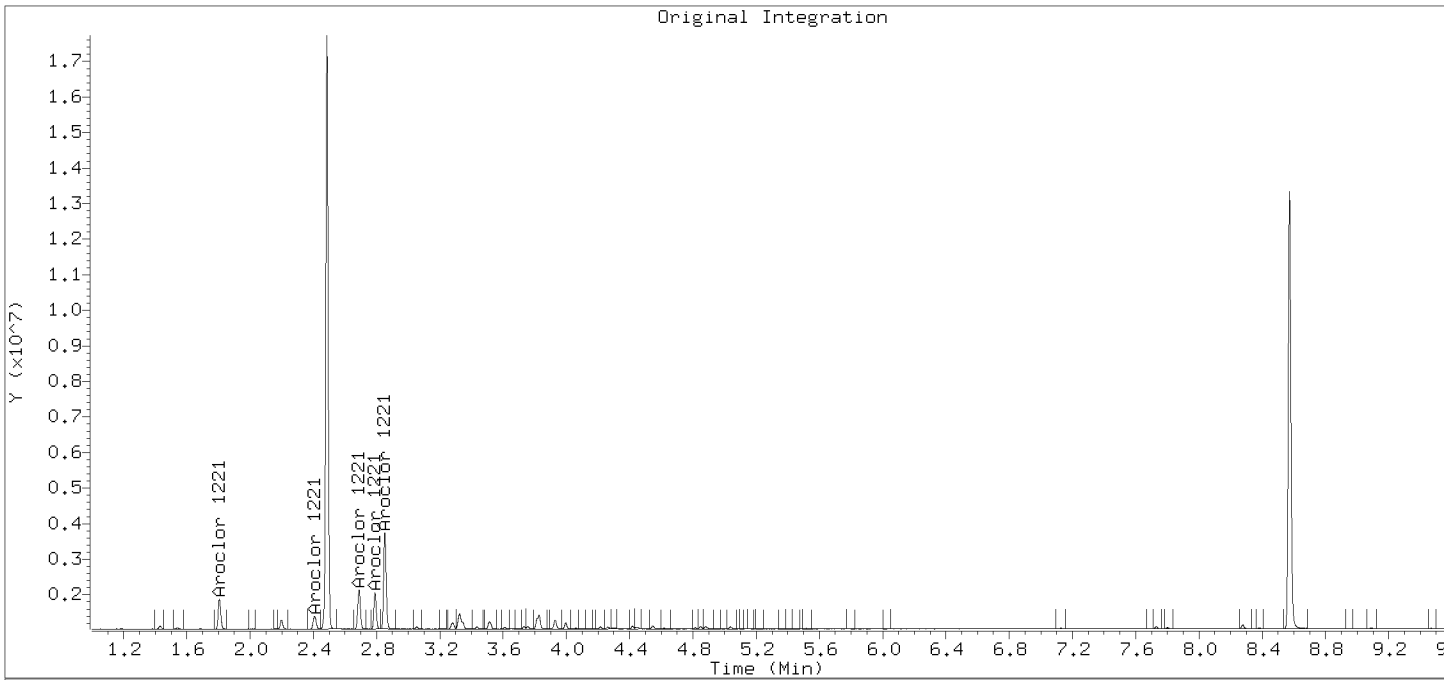
Operator: BLM

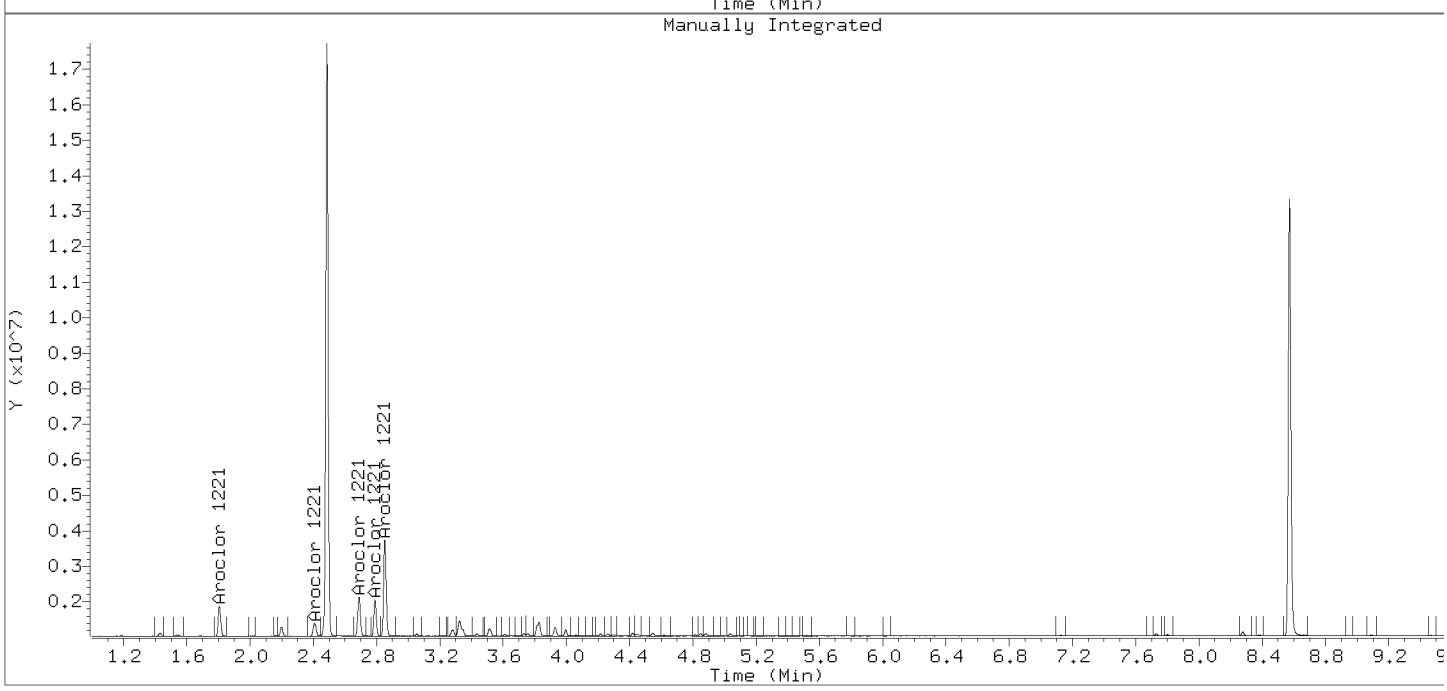
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618018.D (ManInt: NSAR1221.sub Orig: NSAR1221.sub)
Injection Date: 06-MAR-2018 13:11 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1221-CAL5F





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1221	958762	964273	BA
Aroclor 1221	958762	964273	BA
Aroclor 1221	958762	964273	BA
Aroclor 1221	958762	964273	BA
Aroclor 1221	958762	964273	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618022.D
Lab Smp Id: 1242-CAL1B Client Smp ID: 1242-CAL1B
Inj Date : 06-MAR-2018 13:44
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-cal1b, 188132:1
Misc Info : 17498,NSAR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 13:44 Cal File: 030618022.D
Als bottle: 12 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1242.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.183	48353	40712	0.842	0.55		
1.685	15584	12605	0.809	0.18		
2.012	33033	24593	0.745	0.38		
2.403	26701	21656	0.811	0.30		
2.485	1268339	1220330	0.962	14.93		
2.688	45903	34473	0.751	0.53		
2.791	63166	56222	0.890	0.73		
2.851	204981	187245	0.913	2.37		
3.026	22317	19810	0.888	0.25		
3.055	37376	31867	0.853	0.43		
3.318	277256	257375	0.928	3.21	3 Aroclor 1242	BA
3.345	154841	150344	0.971	1.79		
3.435	49043	39609	0.808	0.56		
3.514	273951	193620	0.707	3.17	3 Aroclor 1242	BA
3.733	69544	68947	0.991	0.80		
3.757	45882	42206	0.920	0.53		
3.827	769590	449825	0.584	8.91	3 Aroclor 1242	BA
3.929	328754	270344	0.822	3.80	3 Aroclor 1242	BA
3.996	224743	217453	0.968	2.60	3 Aroclor 1242	BA
4.059	72772	62645	0.861	0.84		
4.135	32124	25139	0.783	0.37		
4.215	184258	174093	0.945	2.13		
4.262	175232	166947	0.953	2.02		
4.295	76283	77062	1.010	0.88		
4.310	94862	88633	0.934	1.09		
4.417	242650	230875	0.951	2.80		
4.453	185260	138108	0.745	2.14		
4.547	310173	288905	0.931	3.59		
4.617	78937	69004	0.874	0.91		
4.726	21360	16230	0.760	0.24		
4.770	22579	18643	0.826	0.26		
4.813	144508	140479	0.972	1.67		
4.848	244505	231221	0.946	2.83		
4.880	333816	245294	0.735	3.86		
4.958	38640	32017	0.829	0.44		
5.039	262014	232176	0.886	3.03		
5.099	55213	47400	0.858	0.63		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.164	71096	60506	0.851	0.82	
5.213	54601	49311	0.903	0.63	
5.310	15720	13003	0.827	0.18	
5.363	43486	39659	0.912	0.50	
5.407	75906	62166	0.819	0.87	
5.447	47603	40647	0.854	0.55	
5.511	110554	91386	0.827	1.28	
5.605	38987	31752	0.814	0.45	
5.702	21923	17168	0.783	0.25	
5.793	90266	69831	0.774	1.04	
5.888	18665	11476	0.615	0.21	
6.027	83046	57198	0.689	0.96	
6.301	23663	20357	0.860	0.27	
6.450	25108	16371	0.652	0.29	
7.135	16747	14415	0.861	0.19	
7.722	10233	8765	0.857	0.11	
7.774	20981	14974	0.714	0.24	
8.276	10004	11485	1.148	0.11	
8.381	26018	18613	0.715	0.30	
8.572	1221508	1021745	0.836	14.14	
8.943	31681	20256	0.639	0.36	
9.468	21143	16317	0.772	0.24	
9.964	23088	17512	0.758	0.26	
	8636569	7349020		100.000	

Total unknown % area = 78

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618022.D
Lab Smp Id: 1242-CAL1B Client Smp ID: 1242-CAL1B
Inj Date : 06-MAR-2018 13:44
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-cal1b, 188132:1
Misc Info : 17498,NSAR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 13:44 Cal File: 030618022.D
Als bottle: 12 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1242.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
3 Aroclor 1242					CAS #: 53469-21-9			
3.318	3.318	0.000	277256	0.10000	0.11	0.00- 20.00	100.00(M)	BA
3.513	3.513	0.000	273950	0.10000	0.11	0.00- 20.00	98.81	BA
3.826	3.827	-0.001	769589	0.10000	0.11	0.00- 20.00	277.57	BA
3.928	3.929	-0.001	328754	0.10000	0.11	0.00- 20.00	118.57	BA
3.995	3.995	0.000	224742	0.10000	0.11	0.00- 20.00	81.06	BA
Average of Peak Amounts =					0.11000			

QC Flag Legend

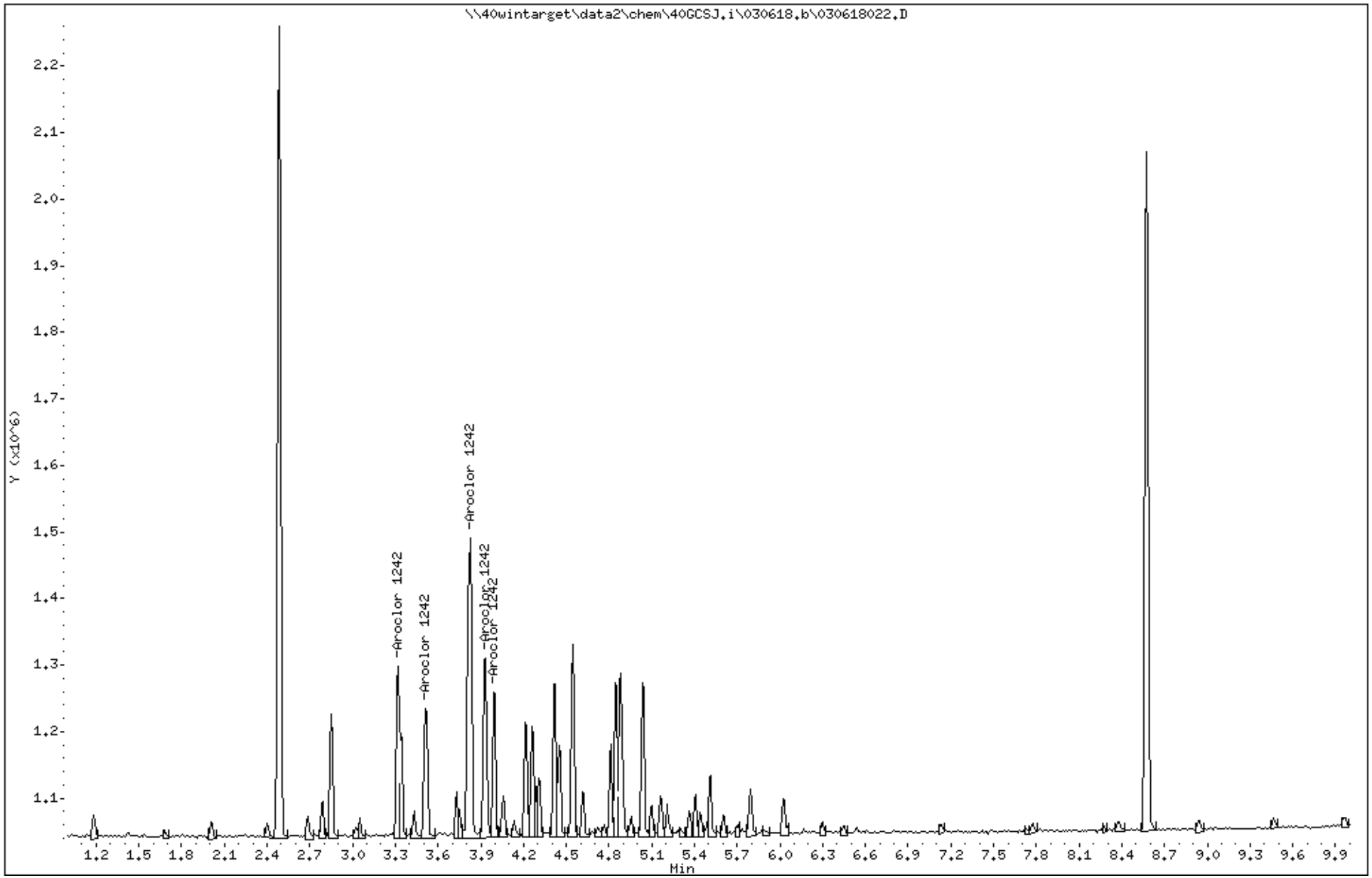
M - Compound response manually integrated.

Review Codes Legend

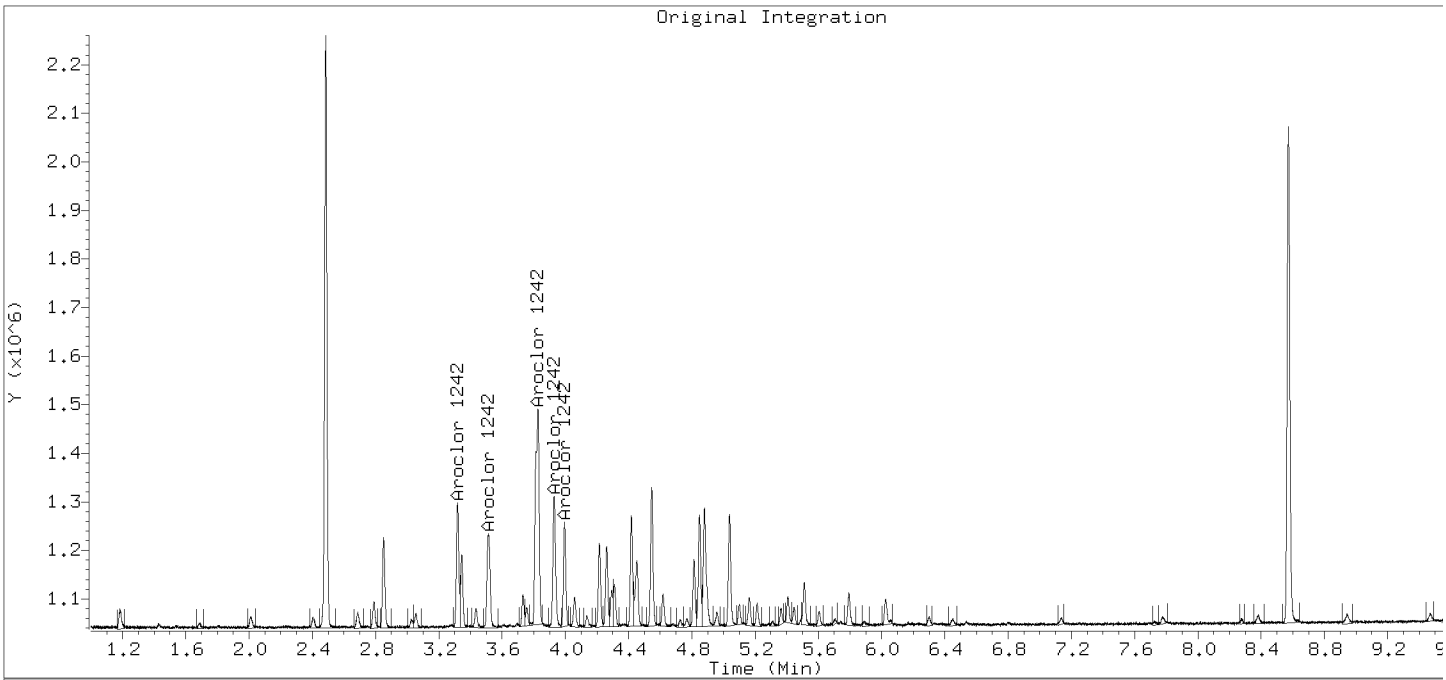
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

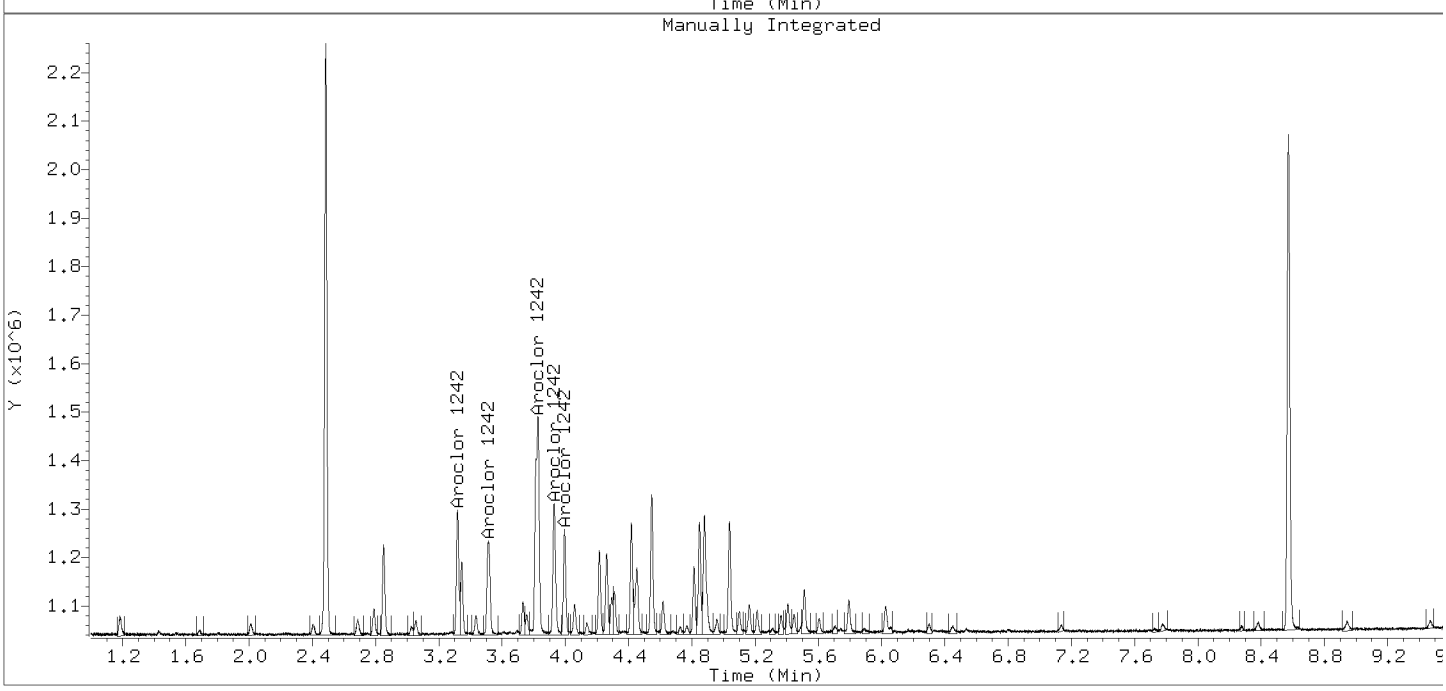
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618022.D
Date : 06-MAR-2018 13:44
Client ID: 1242-CAL1B
Sample Info: 1242-CAL1B, 188132:1

Instrument: 40GCSJ.i
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618022.D (ManInt: NSAR1242.sub Orig: NSAR1242.sub)
Injection Date: 06-MAR-2018 13:44 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1242-CAL1B





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1242	273881	277256	BA
Aroclor 1242	273881	277256	BA
Aroclor 1242	273881	277256	BA
Aroclor 1242	273881	277256	BA
Aroclor 1242	273881	277256	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618024.D
Lab Smp Id: 1242-CAL2B Client Smp ID: 1242-CAL2B
Inj Date : 06-MAR-2018 14:00
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-cal2b, 185543:1
Misc Info : 17498,NSAR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 14:00 Cal File: 030618024.D
Als bottle: 13 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1242.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.184	14220	11208	0.788	0.08		
1.430	13376	14873	1.112	0.08		
1.537	12556	8533	0.680	0.07		
1.684	10310	8364	0.811	0.06		
1.803	9301	8955	0.963	0.05		
2.404	53409	39369	0.737	0.33		
2.484	2424898	2340795	0.965	15.45		
2.685	71092	59059	0.831	0.44		
2.789	112696	106870	0.948	0.70		
2.851	383763	360025	0.938	2.38		
3.054	60192	54572	0.907	0.37		
3.319	537600	506479	0.942	3.34	3 Aroclor 1242	BA
3.344	300840	286923	0.954	1.87		
3.434	87992	78217	0.889	0.54		
3.514	520152	378008	0.727	3.23	3 Aroclor 1242	BA
3.607	13378	11603	0.867	0.08		
3.696	19908	16213	0.814	0.12		
3.732	129346	131457	1.016	0.80		
3.756	89938	85088	0.946	0.56		
3.826	1494620	886299	0.593	9.30	3 Aroclor 1242	BA
3.929	633849	547272	0.863	3.94	3 Aroclor 1242	BA
3.994	415519	392907	0.946	2.58	3 Aroclor 1242	BA
4.059	126568	116783	0.923	0.78		
4.137	53777	45505	0.846	0.33		
4.216	349073	338096	0.969	2.17		
4.261	336841	321968	0.956	2.09		
4.293	139012	148834	1.071	0.86		
4.310	185086	169258	0.914	1.15		
4.372	13133	10098	0.769	0.08		
4.418	470013	436944	0.930	2.92		
4.452	357597	265664	0.743	2.22		
4.546	610105	562073	0.921	3.79		
4.618	143247	130258	0.909	0.89		
4.727	34627	28696	0.829	0.21		
4.768	38705	34109	0.881	0.24		
4.814	277192	264316	0.954	1.72		
4.849	476923	458153	0.961	2.97		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.879	613481	454847	0.741	3.82	
4.960	74104	57100	0.771	0.46	
5.038	507891	458844	0.903	3.16	
5.100	100349	88837	0.885	0.62	
5.164	134684	119177	0.885	0.83	
5.213	98854	90627	0.917	0.61	
5.283	12070	11231	0.930	0.07	
5.310	24719	19674	0.796	0.15	
5.363	85050	75533	0.888	0.52	
5.408	146635	119693	0.816	0.91	
5.447	90264	80310	0.890	0.56	
5.510	230506	174139	0.755	1.43	
5.605	75587	61685	0.816	0.47	
5.716	16948	14359	0.847	0.10	
5.741	23073	20242	0.877	0.14	
5.793	169665	128009	0.754	1.05	
5.887	31657	16739	0.529	0.19	
6.025	153536	114654	0.747	0.95	
6.171	21729	13262	0.610	0.13	
6.302	46462	36756	0.791	0.28	
6.534	18985	15865	0.836	0.11	
6.803	15791	11632	0.737	0.09	
7.725	15675	13882	0.886	0.09	
8.279	20164	17879	0.887	0.12	
8.380	27215	14895	0.547	0.16	
8.573	2205636	1873304	0.849	13.73	
8.944	29668	17498	0.590	0.18	
9.464	14497	11336	0.782	0.09	
9.964	31291	22255	0.711	0.19	
	16057042	13818108		100.000	

Total unknown % area = 78

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618024.D
Lab Smp Id: 1242-CAL2B Client Smp ID: 1242-CAL2B
Inj Date : 06-MAR-2018 14:00
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-cal2b, 185543:1
Misc Info : 17498,NSAR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 14:00 Cal File: 030618024.D
Als bottle: 13 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1242.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
3 Aroclor 1242					CAS #: 53469-21-9			
3.318	3.318	0.000	537600	0.20000	0.21	0.00- 20.00	100.00(M)	BA
3.513	3.513	0.000	520151	0.20000	0.21	0.00- 20.00	96.75	BA
3.826	3.827	-0.001	1494620	0.20000	0.21	0.00- 20.00	278.02	BA
3.929	3.929	0.000	633849	0.20000	0.21	0.00- 20.00	117.90	BA
3.994	3.995	-0.001	415519	0.20000	0.20	0.00- 20.00	77.29	BA
Average of Peak Amounts =					0.20800			

QC Flag Legend

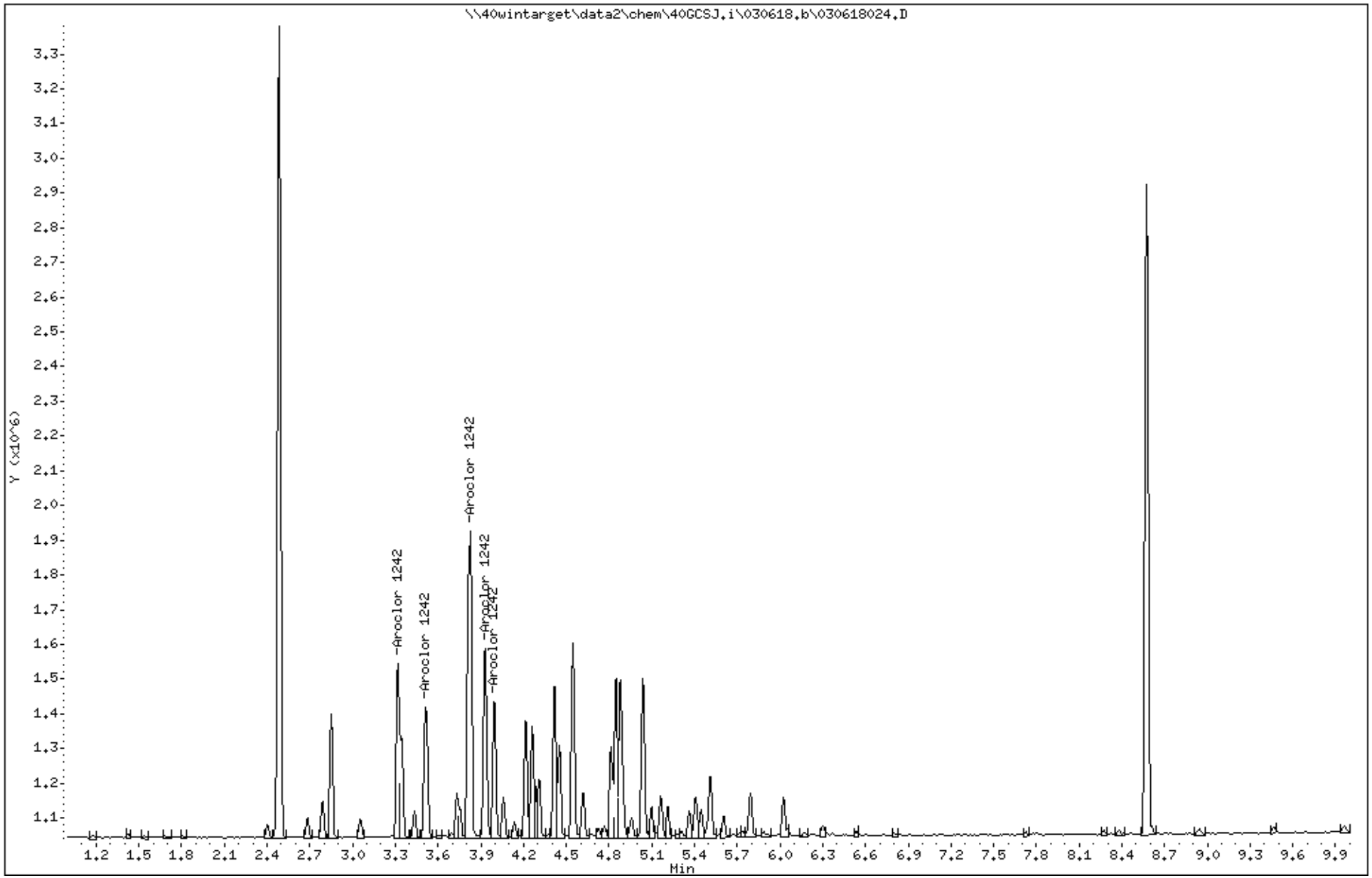
M - Compound response manually integrated.

Review Codes Legend

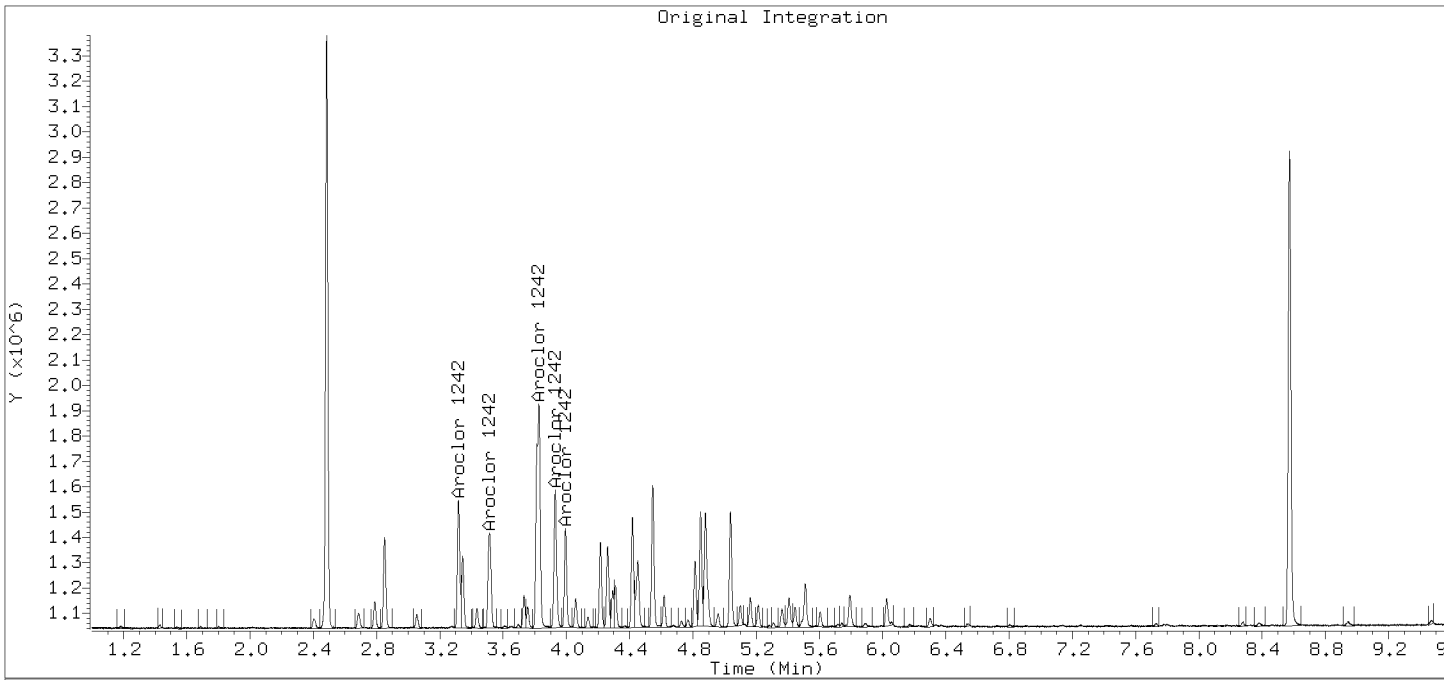
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

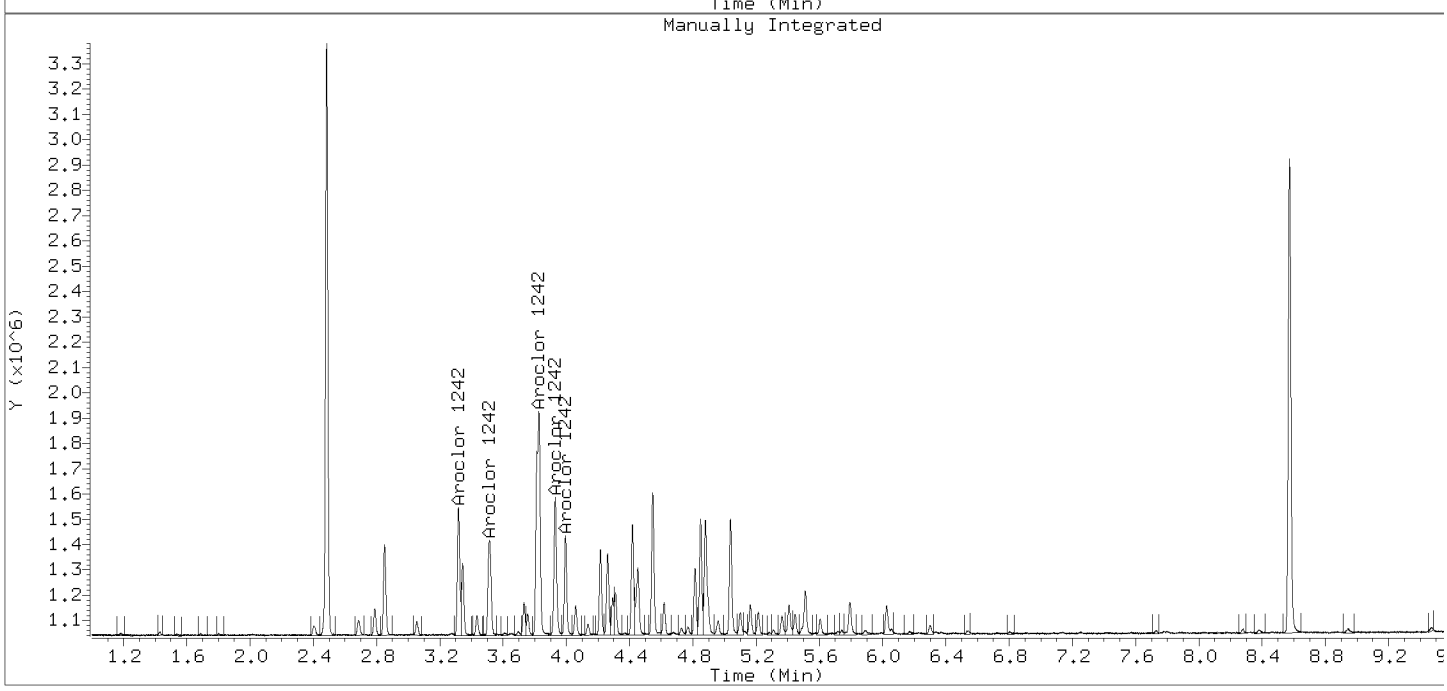
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618024.D
Date : 06-MAR-2018 14:00
Client ID: 1242-CAL2B
Sample Info: 1242-CAL2B, 185543:1

Instrument: 40GCSJ.i
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618024.D (ManInt: NSAR1242.sub Orig: NSAR1242.sub)
Injection Date: 06-MAR-2018 14:00 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1242-CAL2B





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1242	529987	537600	BA
Aroclor 1242	529987	537600	BA
Aroclor 1242	529987	537600	BA
Aroclor 1242	529987	537600	BA
Aroclor 1242	529987	537600	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618026.D
Lab Smp Id: 1242-CAL3B Client Smp ID: 1242-CAL3B
Inj Date : 06-MAR-2018 14:16
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-cal3b, 185544:1
Misc Info : 17498,NSAR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 14:16 Cal File: 030618026.D
Als bottle: 14 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1242.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.182	62004	50847	0.820	0.16		
1.431	37460	32055	0.856	0.09		
1.541	14316	12367	0.864	0.03		
1.687	15486	12743	0.823	0.04		
1.807	18746	14208	0.758	0.04		
2.011	43433	33553	0.773	0.11		
2.406	117538	91845	0.781	0.30		
2.485	5892252	5641423	0.957	15.80		
2.688	168721	139553	0.827	0.44		
2.789	263881	249457	0.945	0.68		
2.851	912957	864348	0.947	2.38		
3.032	23465	23649	1.008	0.06		
3.054	147736	128585	0.870	0.38		
3.278	22664	16866	0.744	0.05		
3.318	1252566	1174122	0.937	3.27	3 Aroclor 1242	BA
3.344	702584	667750	0.950	1.83		
3.435	195742	182887	0.934	0.51		
3.514	1253174	902840	0.720	3.27	3 Aroclor 1242	BA
3.610	20808	19442	0.934	0.05		
3.698	36264	35190	0.970	0.09		
3.733	310548	311302	1.002	0.81		
3.756	210733	195877	0.930	0.55		
3.827	3485663	2059745	0.591	9.11	3 Aroclor 1242	BA
3.929	1508994	1248466	0.827	3.94	3 Aroclor 1242	BA
3.995	1031466	974966	0.945	2.69	3 Aroclor 1242	BA
4.059	297827	269246	0.904	0.77		
4.137	124808	105679	0.847	0.32		
4.215	835282	795778	0.953	2.18		
4.262	800812	762657	0.952	2.09		
4.294	335573	342292	1.020	0.87		
4.310	418203	390877	0.935	1.09		
4.366	27246	20902	0.767	0.07		
4.418	1095729	1053734	0.962	2.86		
4.452	872734	643030	0.737	2.28		
4.546	1429253	1334739	0.934	3.73		
4.617	329513	299311	0.908	0.86		
4.679	25919	20313	0.784	0.06		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.728	75071	61492	0.819	0.19	
4.770	78410	75801	0.967	0.20	
4.814	666858	654940	0.982	1.74	
4.848	1139990	1092076	0.958	2.97	
4.879	1497562	1126464	0.752	3.91	
4.959	169941	133168	0.784	0.44	
5.038	1220947	1147297	0.940	3.19	
5.099	262922	203724	0.775	0.68	
5.163	307382	272531	0.887	0.80	
5.212	234571	204654	0.872	0.61	
5.286	17325	18279	1.055	0.04	
5.312	55833	44258	0.793	0.14	
5.365	200636	172920	0.862	0.52	
5.408	328555	284252	0.865	0.85	
5.447	222890	182949	0.821	0.58	
5.510	538895	423244	0.785	1.40	
5.605	171765	141640	0.825	0.44	
5.717	55818	31435	0.563	0.14	
5.742	42015	41544	0.989	0.10	
5.793	399108	317536	0.796	1.04	
5.891	59724	37531	0.628	0.15	
5.988	12622	14402	1.141	0.03	
6.025	317230	272827	0.860	0.82	
6.056	62897	52017	0.827	0.16	
6.173	35886	23021	0.641	0.09	
6.228	35394	17536	0.495	0.09	
6.300	107967	90981	0.843	0.28	
6.338	25191	21116	0.838	0.06	
6.373	22038	15834	0.718	0.05	
6.444	13051	11257	0.863	0.03	
6.540	47204	32635	0.691	0.12	
6.803	23591	20139	0.854	0.06	
7.005	15270	10968	0.718	0.03	
7.133	35322	22100	0.626	0.09	
7.250	13054	10560	0.809	0.03	
7.727	20164	18616	0.923	0.05	
7.782	26691	22023	0.825	0.06	
7.800	17830	16488	0.925	0.04	
8.277	43520	38062	0.875	0.11	
8.377	40259	27272	0.677	0.10	
8.573	5121279	4417666	0.863	13.38	
8.941	41704	28161	0.675	0.10	
9.469	46040	28501	0.619	0.12	
9.966	42365	27909	0.659	0.11	
	38254887	33030470		100.000	

Total unknown % area = 78

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618026.D
Lab Smp Id: 1242-CAL3B Client Smp ID: 1242-CAL3B
Inj Date : 06-MAR-2018 14:16
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-cal3b, 185544:1
Misc Info : 17498,NSAR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 14:16 Cal File: 030618026.D
Als bottle: 14 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1242.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
3 Aroclor 1242					CAS #: 53469-21-9			
3.317	3.318	-0.001	1252566	0.50000	0.49	0.00- 20.00	100.00(M)	BA
3.513	3.513	0.000	1253174	0.50000	0.50	0.00- 20.00	100.05	BA
3.827	3.827	0.000	3485663	0.50000	0.49	0.00- 20.00	278.28	BA
3.929	3.929	0.000	1508993	0.50000	0.50	0.00- 20.00	120.47	BA
3.995	3.995	0.000	1031465	0.50000	0.50	0.00- 20.00	82.35	BA
Average of Peak Amounts =					0.49600			

QC Flag Legend

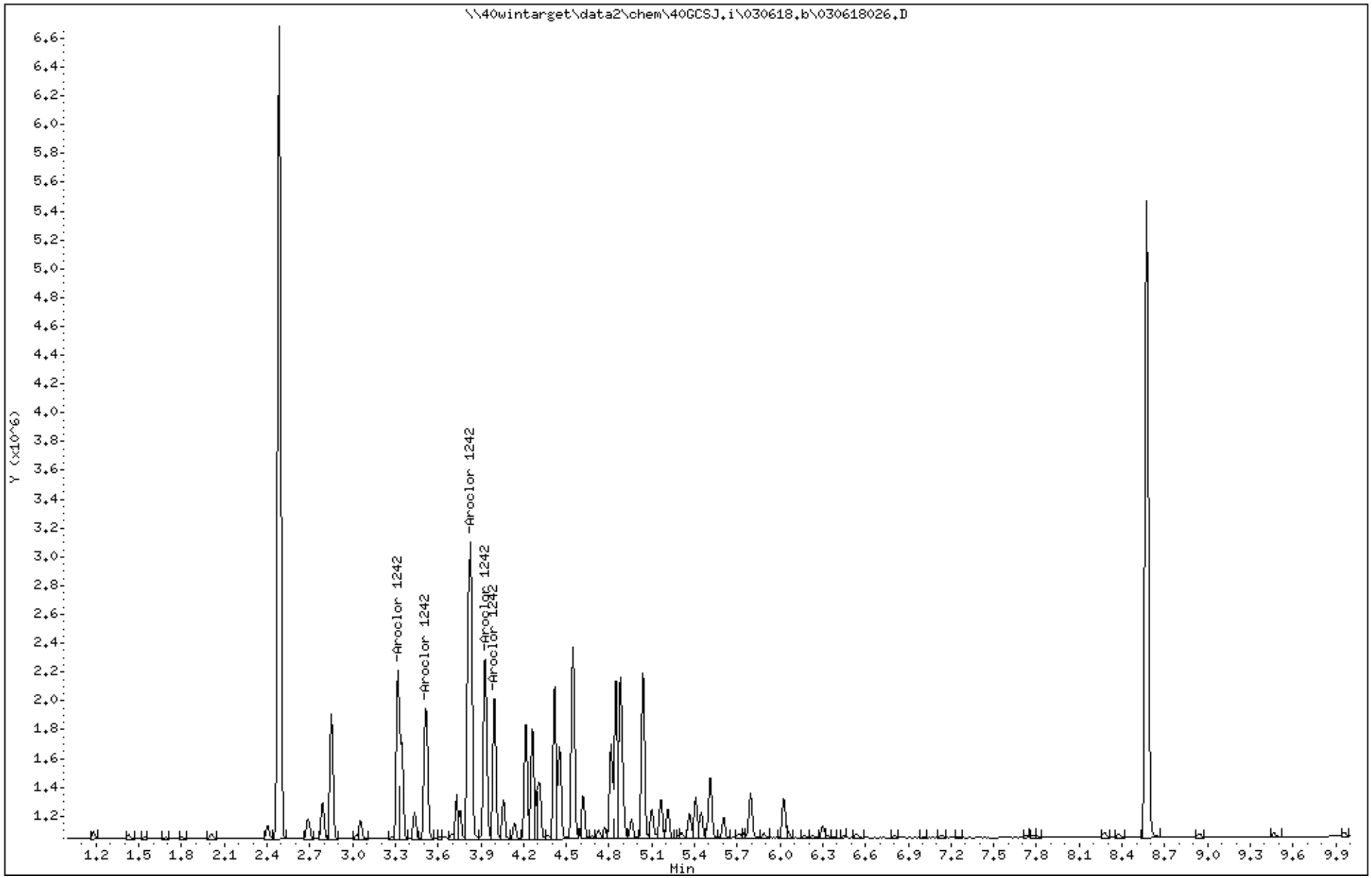
M - Compound response manually integrated.

Review Codes Legend

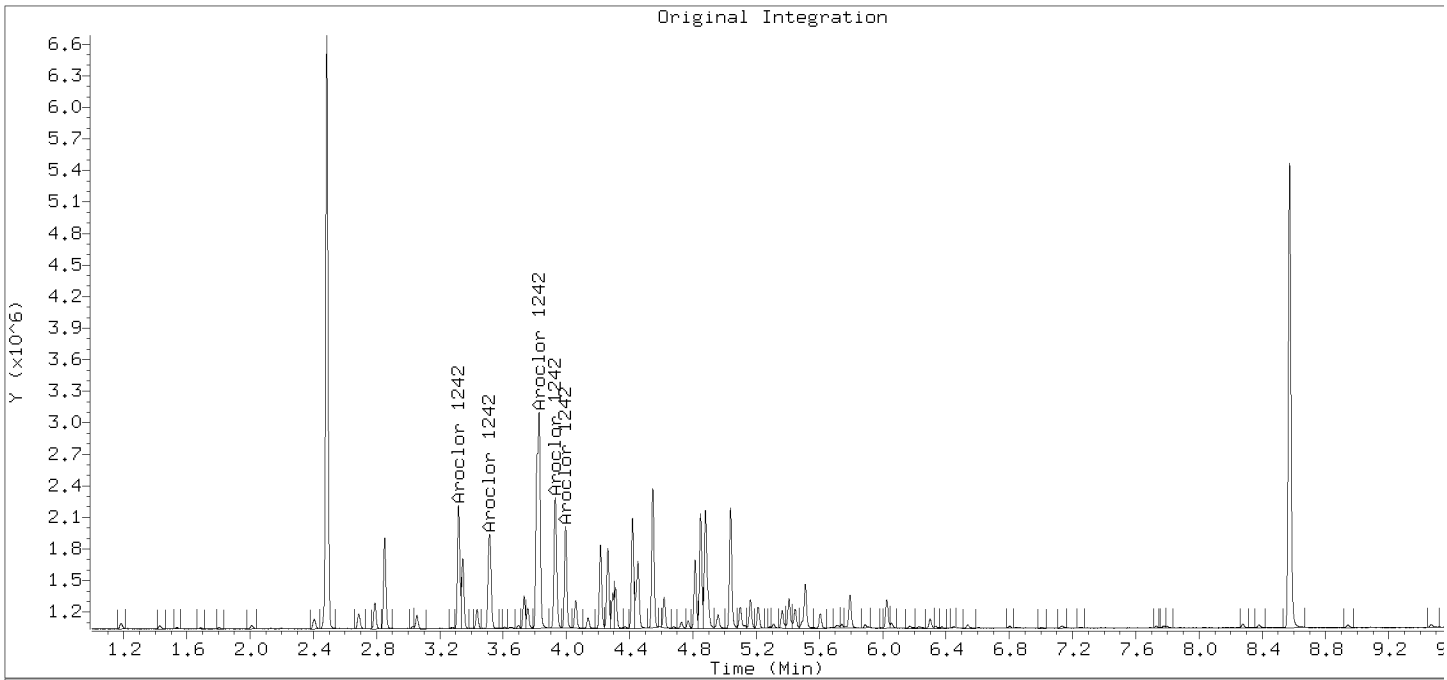
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

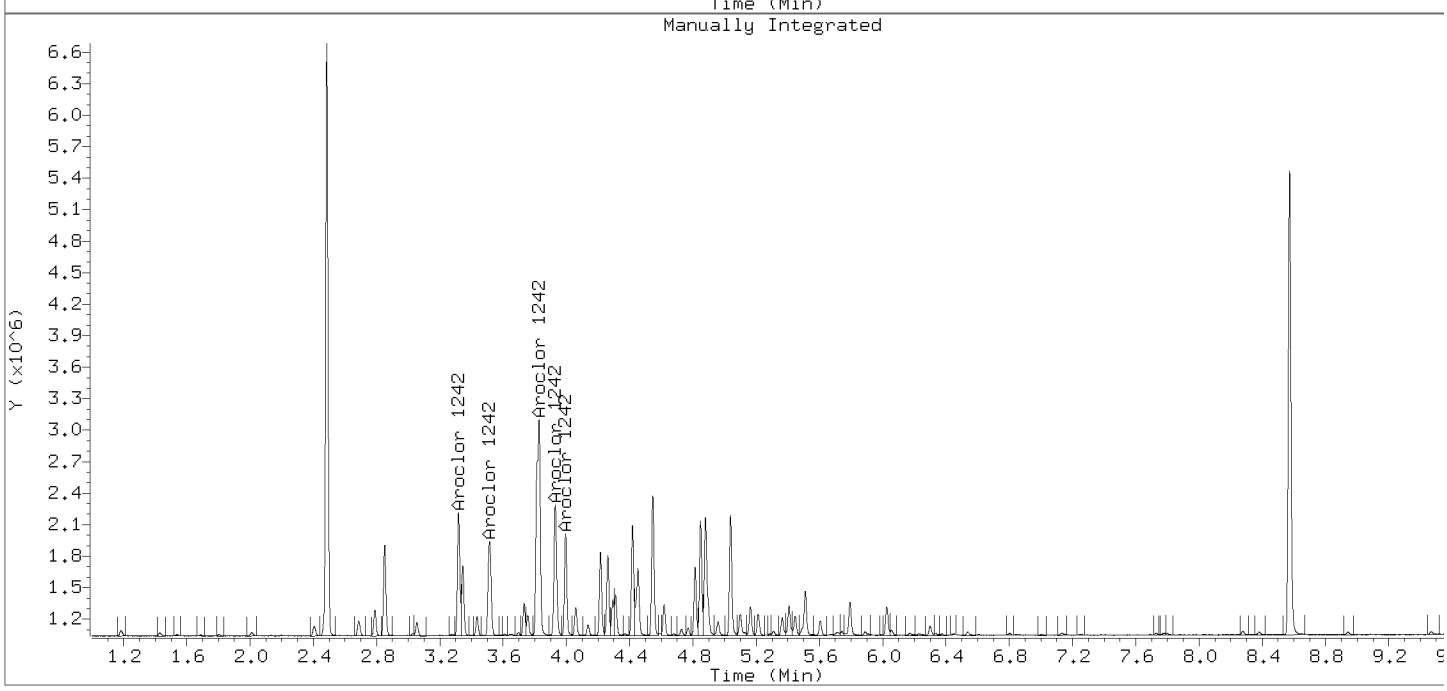
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618026.D
Date : 06-MAR-2018 14:16
Client ID: 1242-CAL3B
Sample Info: 1242-CAL3B, 185544:1

Instrument: 40GCSJ.i
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618026.D (ManInt: NSAR1242.sub Orig: NSAR1242.sub)
Injection Date: 06-MAR-2018 14:16 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1242-CAL3B





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1242	1246512	1252566	BA
Aroclor 1242	1246512	1252566	BA
Aroclor 1242	1246512	1252566	BA
Aroclor 1242	1246512	1252566	BA
Aroclor 1242	1246512	1252566	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618028.D
Lab Smp Id: 1242-CAL4B Client Smp ID: 1242-CAL4B
Inj Date : 06-MAR-2018 14:32
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-cal4b, 185545:1
Misc Info : 17498,NSAR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 14:32 Cal File: 030618028.D
Als bottle: 15 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1242.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.185	10080	10187	1.011	0.01		
1.429	71364	59862	0.839	0.11		
1.538	29625	26596	0.898	0.04		
1.688	11915	10660	0.895	0.01		
1.804	23856	18863	0.791	0.03		
2.007	10897	7828	0.718	0.01		
2.404	181872	142910	0.786	0.29		
2.485	11627123	11366999	0.978	18.98		
2.688	264051	219269	0.830	0.42		
2.789	434211	416960	0.960	0.69		
2.851	1404465	1315051	0.936	2.24		
3.055	207612	200354	0.965	0.33		
3.277	30044	24512	0.816	0.04		
3.318	1896850	1767208	0.932	3.03	3 Aroclor 1242	BA
3.345	1097148	1042916	0.951	1.75		
3.435	308786	278730	0.903	0.49		
3.514	1913733	1396800	0.730	3.05	3 Aroclor 1242	BA
3.611	36879	32861	0.891	0.05		
3.650	32275	21129	0.655	0.05		
3.698	52994	51432	0.971	0.08		
3.732	483352	488922	1.012	0.77		
3.757	311671	302713	0.971	0.49		
3.827	5388263	3191450	0.592	8.61	3 Aroclor 1242	BA
3.930	2300081	1902191	0.827	3.67	3 Aroclor 1242	BA
3.995	1542626	1468087	0.952	2.46	3 Aroclor 1242	BA
4.058	448445	418306	0.933	0.71		
4.137	178413	160377	0.899	0.28		
4.216	1273682	1194446	0.938	2.03		
4.262	1227232	1169872	0.953	1.96		
4.294	525419	547237	1.042	0.83		
4.311	636195	609901	0.959	1.01		
4.372	36108	28635	0.793	0.05		
4.417	1692750	1588767	0.939	2.70		
4.453	1331839	978159	0.734	2.12		
4.546	2184137	1978129	0.906	3.49		
4.617	508881	469073	0.922	0.81		
4.680	35054	29148	0.832	0.05		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.726	105197	91550	0.870	0.16	
4.769	122661	117412	0.957	0.19	
4.814	1044933	1018344	0.975	1.66	
4.849	1747424	1640600	0.939	2.79	
4.879	2259358	1670288	0.739	3.61	
4.958	257618	206246	0.801	0.41	
5.037	1890389	1718139	0.909	3.02	
5.100	401551	318982	0.794	0.64	
5.163	472012	441234	0.935	0.75	
5.213	355660	314958	0.886	0.56	
5.286	29890	27564	0.922	0.04	
5.311	83705	68170	0.814	0.13	
5.364	301164	261411	0.868	0.48	
5.407	509309	451496	0.886	0.81	
5.445	334594	277269	0.829	0.53	
5.509	841921	651295	0.774	1.34	
5.605	255376	218910	0.857	0.40	
5.678	22556	17148	0.760	0.03	
5.717	46249	39239	0.848	0.07	
5.741	70982	58982	0.831	0.11	
5.793	601893	487520	0.810	0.96	
5.888	90739	56064	0.618	0.14	
5.996	18848	17967	0.953	0.03	
6.025	494570	434696	0.879	0.79	
6.055	94751	75807	0.800	0.15	
6.167	43225	29320	0.678	0.06	
6.227	36179	22391	0.619	0.05	
6.298	159553	135640	0.850	0.25	
6.334	38685	28936	0.748	0.06	
6.377	33304	20685	0.621	0.05	
6.537	60223	50647	0.841	0.09	
6.804	34153	30829	0.903	0.05	
7.006	17283	12447	0.720	0.02	
7.126	26579	14899	0.561	0.04	
7.251	12264	12902	1.052	0.01	
7.726	42507	35890	0.844	0.06	
7.802	24391	23419	0.960	0.03	
8.277	86483	69397	0.802	0.13	
8.377	21031	14261	0.678	0.03	
8.573	9665476	8353148	0.864	15.44	
8.947	18281	11560	0.632	0.02	
9.088	11569	10817	0.935	0.01	
9.469	15262	13186	0.864	0.02	
9.963	30595	19946	0.652	0.04	
	62580323	54528151		100.000	

Total unknown % area = 79

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618028.D
Lab Smp Id: 1242-CAL4B Client Smp ID: 1242-CAL4B
Inj Date : 06-MAR-2018 14:32
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-cal4b, 185545:1
Misc Info : 17498,NSAR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 14:32 Cal File: 030618028.D
Als bottle: 15 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1242.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
3 Aroclor 1242					CAS #: 53469-21-9			
3.318	3.318	0.000	1896850	0.80000	0.75	0.00- 20.00	100.00(M)	BA
3.513	3.513	0.000	1913733	0.80000	0.76	0.00- 20.00	100.89	BA
3.827	3.827	0.000	5388263	0.80000	0.76	0.00- 20.00	284.06	BA
3.930	3.929	0.001	2300081	0.80000	0.76	0.00- 20.00	121.26	BA
3.995	3.995	0.000	1542626	0.80000	0.75	0.00- 20.00	81.33	BA
Average of Peak Amounts =					0.75600			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618028.D

Date : 06-MAR-2018 14:32

Client ID: 1242-CAL4B

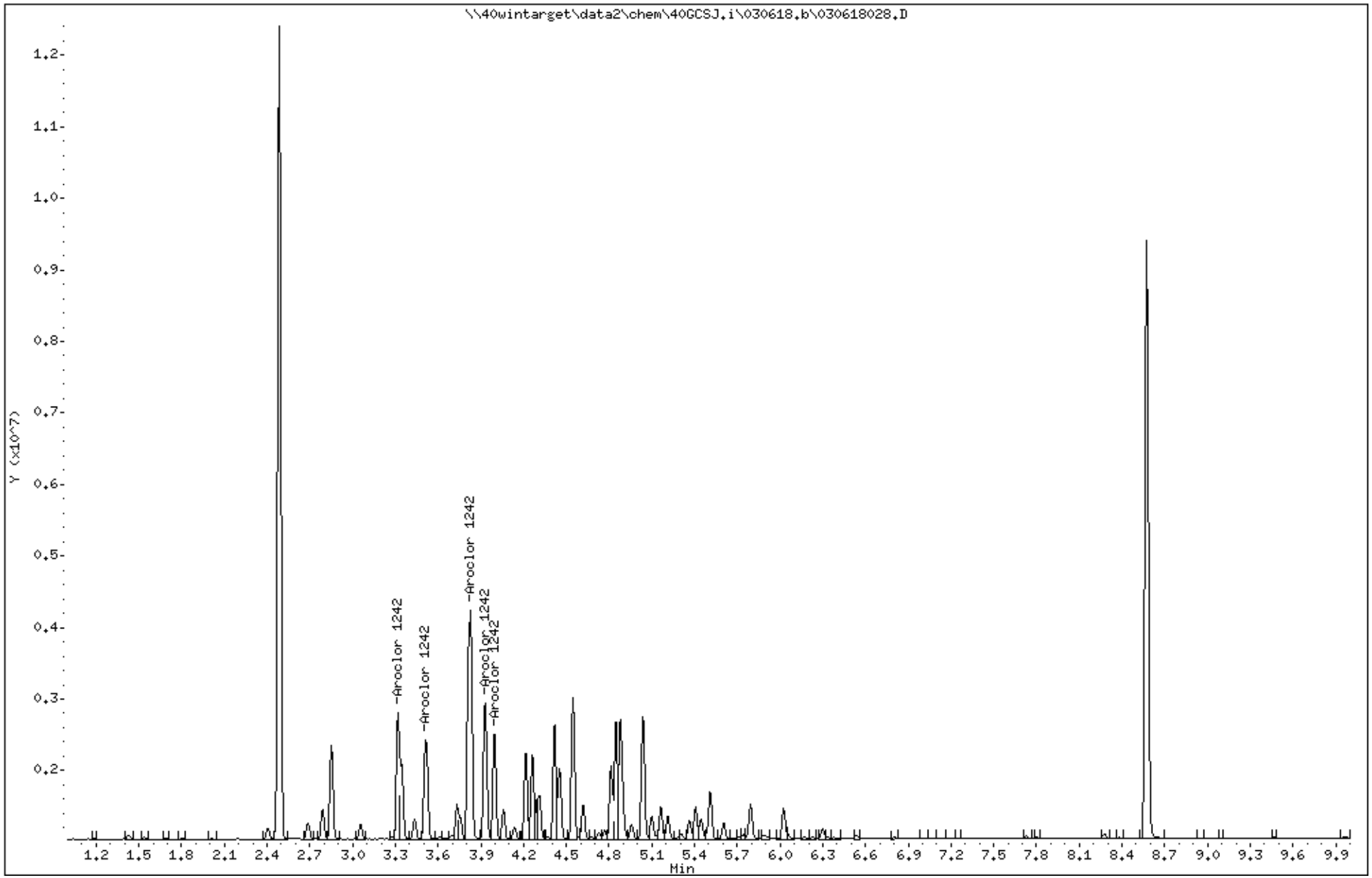
Instrument: 40GCSJ.i

Sample Info: 1242-CAL4B, 185545:1

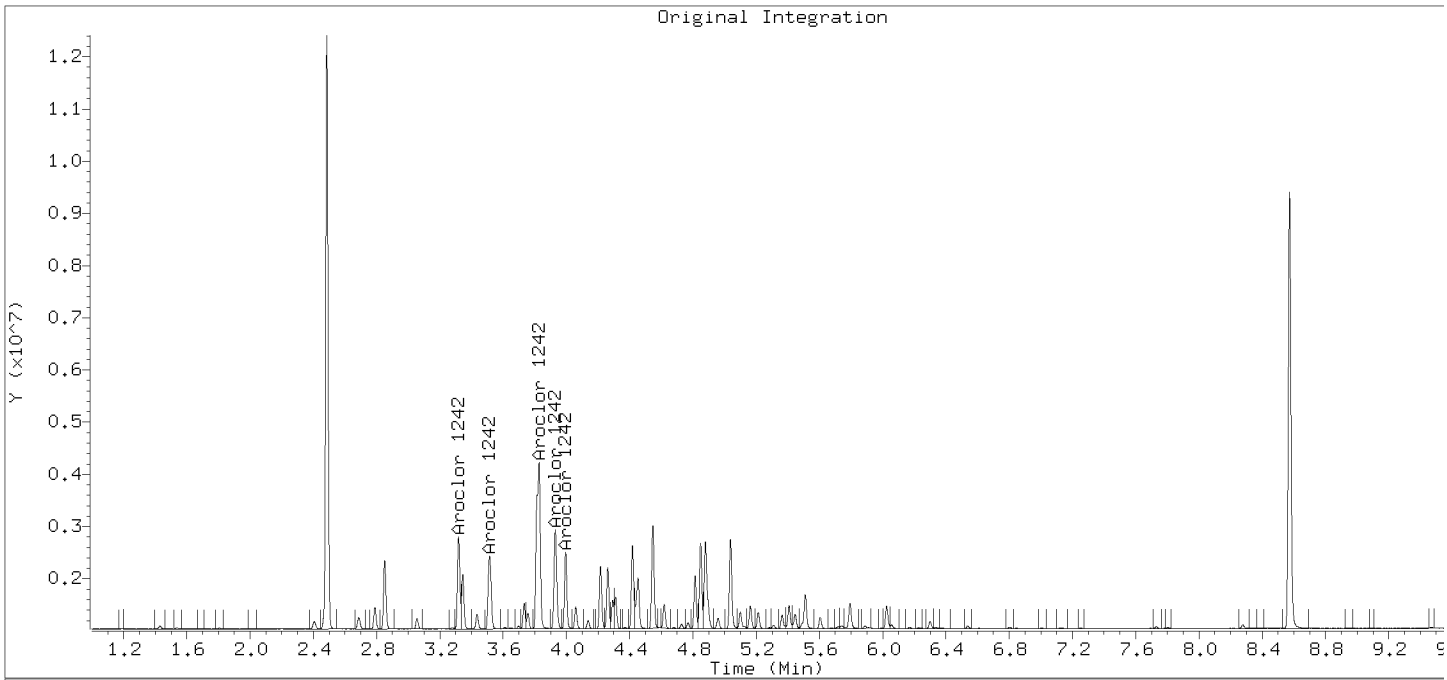
Operator: BLM

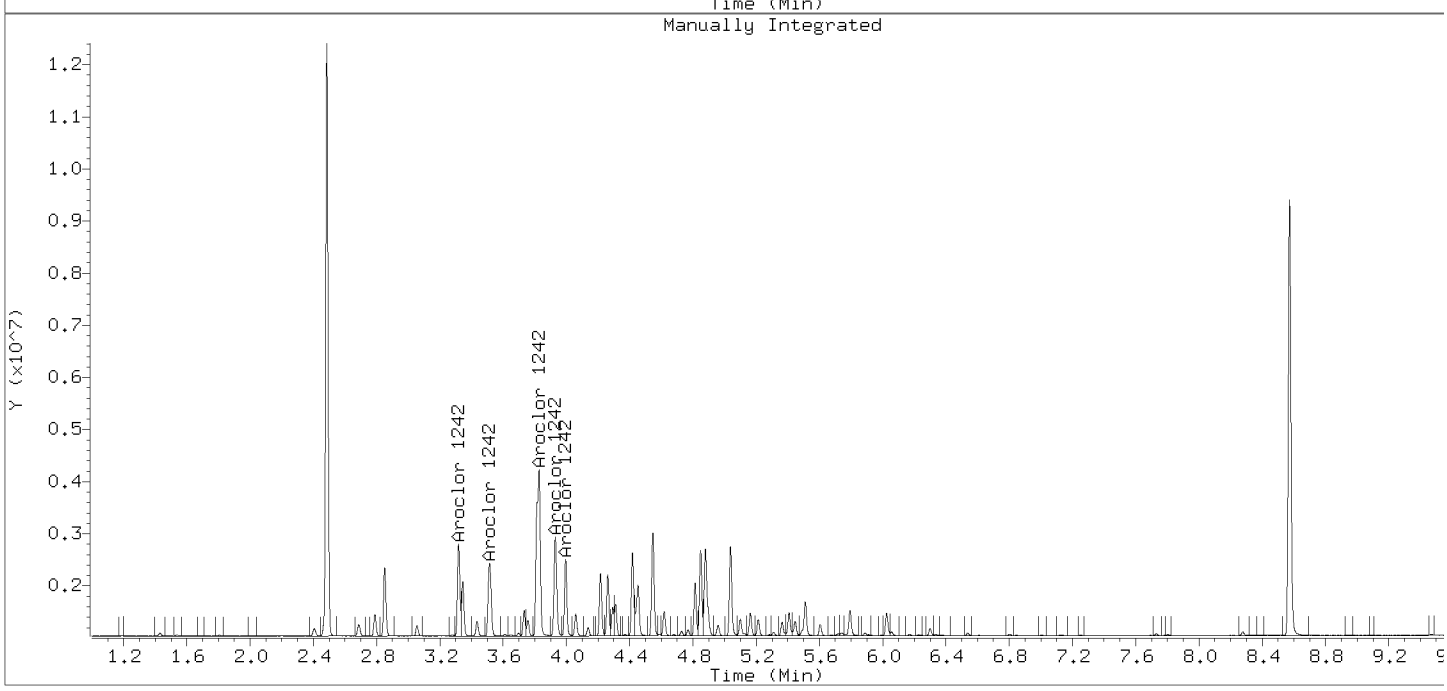
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618028.D (ManInt: NSAR1242.sub Orig: NSAR1242.sub)
Injection Date: 06-MAR-2018 14:32 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1242-CAL4B





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1242	1890576	1896850	BA
Aroclor 1242	1890576	1896850	BA
Aroclor 1242	1890576	1896850	BA
Aroclor 1242	1890576	1896850	BA
Aroclor 1242	1890576	1896850	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618030.D
Lab Smp Id: 1242-CAL5B Client Smp ID: 1242-CAL5B
Inj Date : 06-MAR-2018 14:48
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-cal5b, 185546:1
Misc Info : 17498,NSAR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 14:48 Cal File: 030618030.D
Als bottle: 16 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1242.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.182	13142	9158	0.697	0.01		
1.429	100388	88167	0.878	0.12		
1.538	43436	37040	0.853	0.05		
1.802	27170	23817	0.877	0.03		
2.200	13193	7765	0.589	0.01		
2.404	223179	177740	0.796	0.26		
2.485	17637176	17309158	0.981	21.53		
2.687	332628	271512	0.816	0.39		
2.788	576258	556266	0.965	0.69		
2.850	1731132	1639872	0.947	2.07		
3.055	271375	257132	0.948	0.32		
3.199	9596	8183	0.853	0.01		
3.278	40145	29795	0.742	0.04		
3.318	2329240	2178022	0.935	2.79	3 Aroclor 1242	BA
3.344	1365925	1274431	0.933	1.63		
3.434	376796	349333	0.927	0.45		
3.514	2361399	1699901	0.720	2.82	3 Aroclor 1242	BA
3.611	53162	49737	0.936	0.06		
3.648	38548	26960	0.699	0.04		
3.697	65654	64327	0.980	0.07		
3.732	603958	618832	1.025	0.72		
3.756	391796	382124	0.975	0.46		
3.828	6706645	3996192	0.596	8.03	3 Aroclor 1242	BA
3.929	2857802	2355014	0.824	3.42	3 Aroclor 1242	BA
3.994	1922508	1833827	0.954	2.30	3 Aroclor 1242	BA
4.059	555199	530529	0.956	0.66		
4.136	222505	199818	0.898	0.26		
4.215	1575639	1501683	0.953	1.88		
4.261	1524934	1467406	0.962	1.82		
4.293	649073	667869	1.029	0.77		
4.311	810435	768258	0.948	0.97		
4.371	43433	37094	0.854	0.05		
4.417	2107983	1937856	0.919	2.52		
4.452	1647097	1208682	0.734	1.97		
4.546	2757523	2530813	0.918	3.30		
4.617	639793	601712	0.940	0.76		
4.681	44151	33585	0.761	0.05		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.728	132122	115497	0.874	0.15	
4.768	152881	144940	0.948	0.18	
4.814	1304656	1285158	0.985	1.56	
4.848	2176719	2065105	0.949	2.60	
4.878	2810648	2043331	0.727	3.36	
4.958	313624	254506	0.811	0.37	
5.038	2364110	2159153	0.913	2.83	
5.099	500540	389011	0.777	0.59	
5.163	588453	534323	0.908	0.70	
5.213	446583	410279	0.919	0.53	
5.283	33027	31901	0.966	0.03	
5.308	101588	84023	0.827	0.12	
5.363	379663	323299	0.852	0.45	
5.407	645531	557984	0.864	0.77	
5.447	411135	369925	0.900	0.49	
5.510	1059127	856260	0.808	1.26	
5.604	309697	267220	0.863	0.37	
5.676	26819	20072	0.748	0.03	
5.717	59263	49321	0.832	0.07	
5.742	85889	77700	0.905	0.10	
5.763	25900	36740	1.419	0.03	
5.792	730478	608087	0.832	0.87	
5.888	108449	69349	0.639	0.12	
5.993	23548	21446	0.911	0.02	
6.024	621770	555127	0.893	0.74	
6.056	116744	93958	0.805	0.13	
6.169	44881	36731	0.818	0.05	
6.227	46866	28002	0.597	0.05	
6.299	198407	171669	0.865	0.23	
6.334	48913	37408	0.765	0.05	
6.372	34798	26791	0.770	0.04	
6.535	86352	62639	0.725	0.10	
6.608	17596	12479	0.709	0.02	
6.719	9324	8755	0.939	0.01	
6.803	41284	37893	0.918	0.04	
7.004	14125	13843	0.980	0.01	
7.122	30632	19166	0.626	0.03	
7.251	21667	14526	0.670	0.02	
7.694	10065	10273	1.021	0.01	
7.729	57227	51664	0.903	0.06	
7.800	40976	33029	0.806	0.04	
8.276	125210	109793	0.877	0.14	
8.377	17875	15033	0.841	0.02	
8.572	14386052	12725920	0.885	17.23	
9.089	27631	16553	0.599	0.03	
9.466	10052	7309	0.727	0.01	
9.961	14595	11352	0.778	0.01	
	83483509	73604153		100.000	

Total unknown % area = 81

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618030.D
Lab Smp Id: 1242-CAL5B Client Smp ID: 1242-CAL5B
Inj Date : 06-MAR-2018 14:48
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-cal5b, 185546:1
Misc Info : 17498,NSAR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 14:48 Cal File: 030618030.D
Als bottle: 16 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1242.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
3 Aroclor 1242					CAS #: 53469-21-9			
3.318	3.318	0.000	2329239	1.00000	0.92	0.00- 20.00	100.00(M)	BA
3.513	3.513	0.000	2361398	1.00000	0.94	0.00- 20.00	101.38	BA
3.827	3.827	0.000	6706645	1.00000	0.94	0.00- 20.00	287.93	BA
3.929	3.929	0.000	2857801	1.00000	0.94	0.00- 20.00	122.69	BA
3.994	3.995	-0.001	1922507	1.00000	0.94	0.00- 20.00	82.54	BA
Average of Peak Amounts =					0.93600			

QC Flag Legend

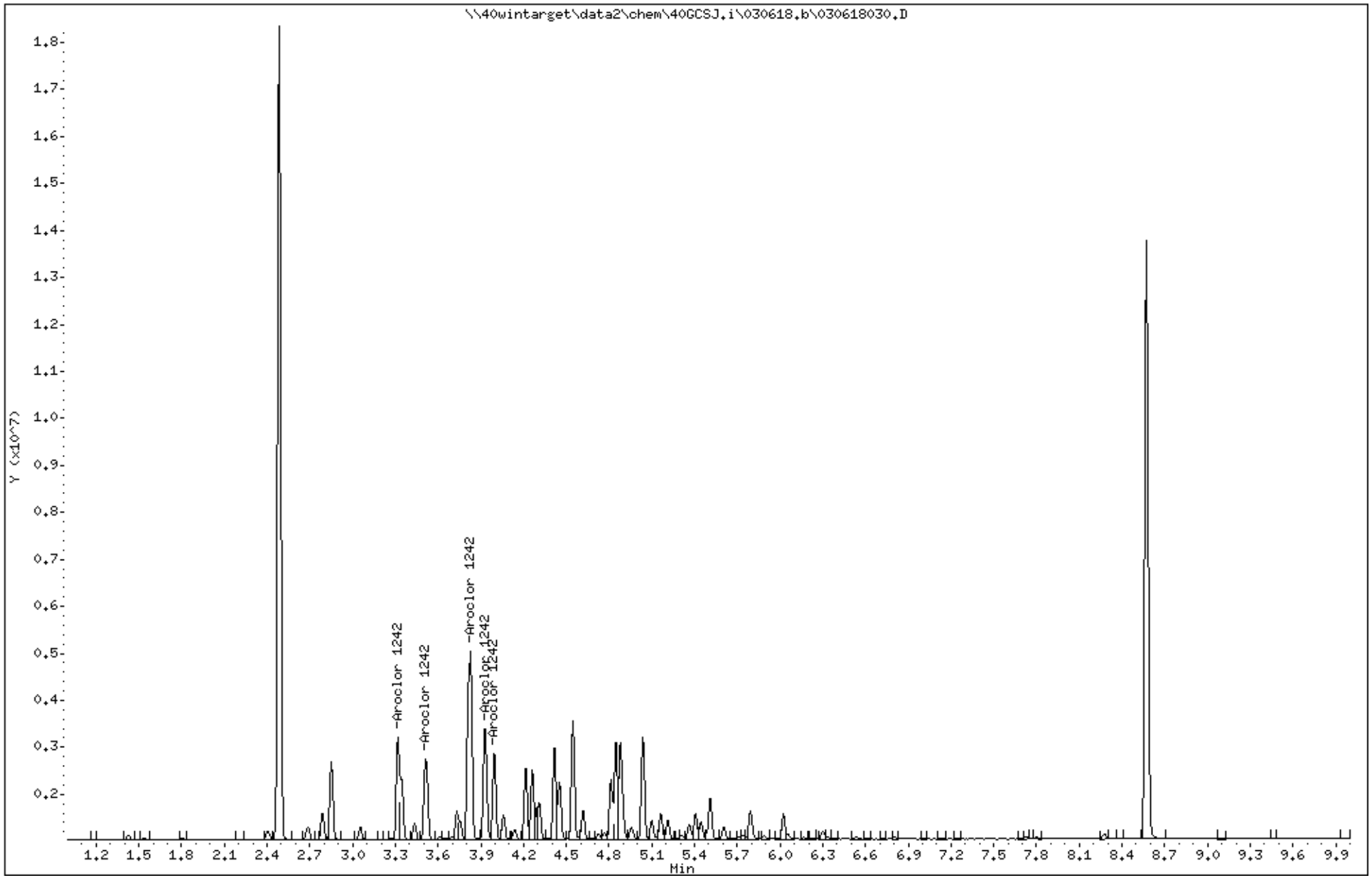
M - Compound response manually integrated.

Review Codes Legend

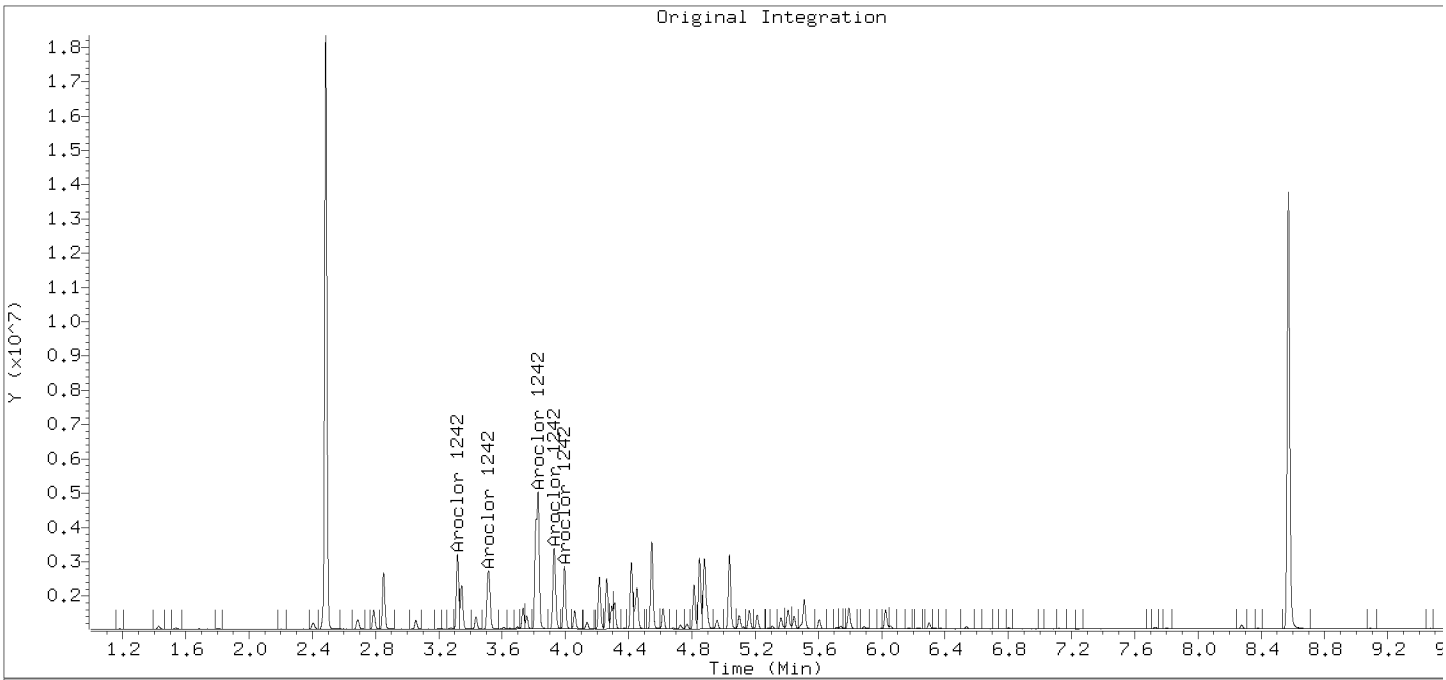
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

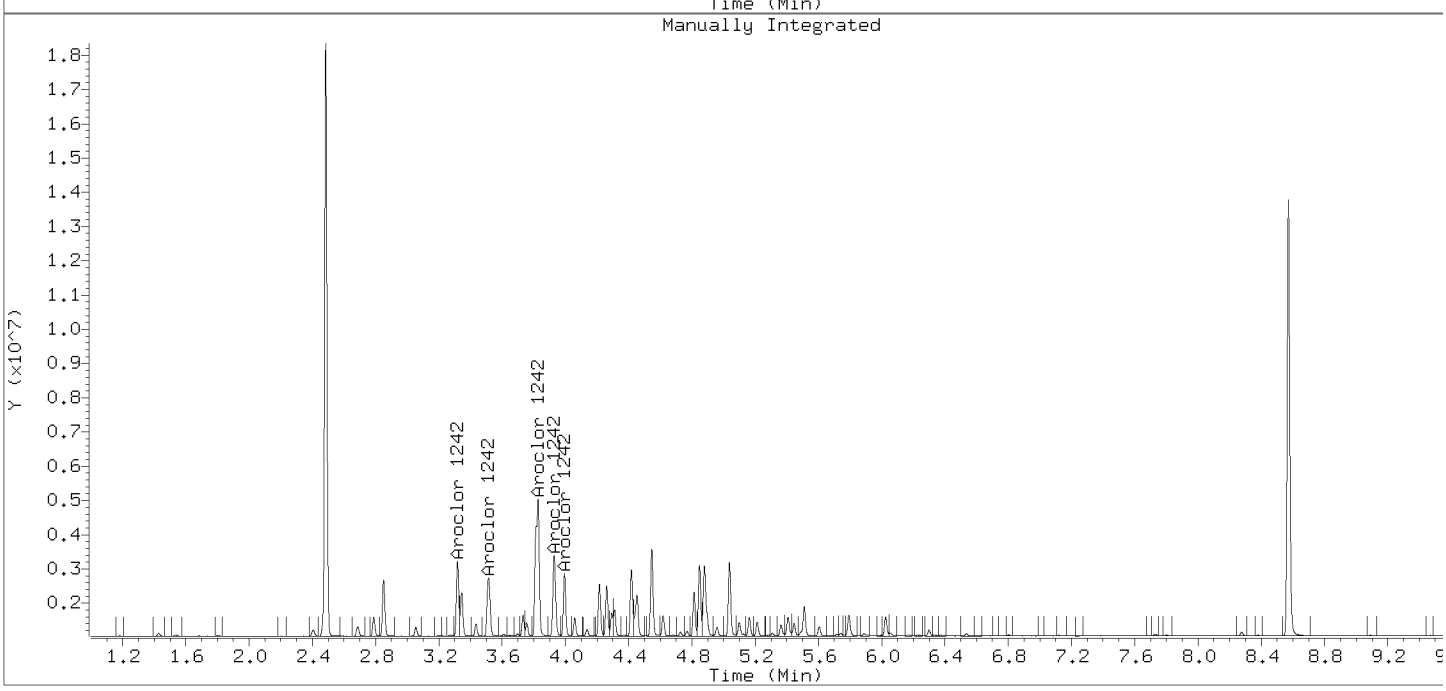
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618030.D
Date : 06-MAR-2018 14:48
Client ID: 1242-CAL5B
Sample Info: 1242-CAL5B, 185546:1

Instrument: 40GCSJ.i
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618030.D (ManInt: NSAR1242.sub Orig: NSAR1242.sub)
Injection Date: 06-MAR-2018 14:48 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1242-CAL5B





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1242	2319478	2329239	BA
Aroclor 1242	2319478	2329239	BA
Aroclor 1242	2319478	2329239	BA
Aroclor 1242	2319478	2329239	BA
Aroclor 1242	2319478	2329239	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618034.D
Lab Smp Id: 1248-CAL1D Client Smp ID: 1248-CAL1D
Inj Date : 06-MAR-2018 15:21
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-cal1d, 188134:1
Misc Info : 17498,NSAR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 15:21 Cal File: 030618034.D
Als bottle: 18 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1248.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.181	14305	12931	0.904	0.15		
2.484	1247615	1209145	0.969	13.39		
2.788	24449	24176	0.989	0.25		
2.851	42332	37681	0.890	0.44		
3.054	17847	15627	0.876	0.18		
3.319	154829	149314	0.964	1.63		
3.345	69818	62303	0.892	0.73		
3.434	21759	16384	0.753	0.22		
3.514	129337	91632	0.708	1.36		
3.732	41192	29456	0.715	0.43		
3.815	249582	260696	1.045	2.62		
3.827	243092	265599	1.093	2.56		
3.930	196862	149009	0.757	2.07		
3.994	130100	120464	0.926	1.37		
4.060	81123	71377	0.880	0.85		
4.135	37994	31819	0.837	0.40		
4.215	323817	309946	0.957	3.41		
4.261	252265	240506	0.953	2.65	6 Aroclor 1248	BA
4.293	108819	107853	0.991	1.14		
4.310	114993	111028	0.966	1.21		
4.418	386700	369661	0.956	4.07		
4.452	202370	173038	0.855	2.13		
4.546	444141	405258	0.912	4.67	6 Aroclor 1248	BA
4.618	103930	97669	0.940	1.09		
4.723	15775	14602	0.926	0.16		
4.768	26846	24690	0.920	0.28		
4.814	217596	209298	0.962	2.29	6 Aroclor 1248	BA
4.848	417341	413186	0.990	4.39		
4.879	538491	358710	0.666	5.67	6 Aroclor 1248	BA
4.956	69249	57131	0.825	0.72		
5.038	375736	339065	0.902	3.95	6 Aroclor 1248	BA
5.100	148135	110594	0.747	1.56		
5.163	166243	148041	0.891	1.75		
5.212	121348	109604	0.903	1.27		
5.313	32609	23414	0.718	0.34		
5.363	107678	94673	0.879	1.13		
5.408	174507	147282	0.844	1.83		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.447	107960	95389	0.884	1.13	
5.510	292671	230307	0.787	3.08	
5.606	86504	77757	0.899	0.91	
5.677	14791	13016	0.880	0.15	
5.715	25257	18019	0.713	0.26	
5.741	25694	22207	0.864	0.27	
5.793	207991	150871	0.725	2.19	
5.891	26284	18285	0.696	0.27	
6.024	187756	132978	0.708	1.97	
6.173	26666	15778	0.592	0.28	
6.301	55473	43247	0.780	0.58	
6.372	11356	9835	0.866	0.11	
6.509	11520	12779	1.109	0.12	
6.535	21081	15879	0.753	0.22	
6.720	14478	10691	0.738	0.15	
6.801	13412	10673	0.796	0.14	
7.001	12573	13352	1.062	0.13	
7.250	10465	7692	0.735	0.11	
7.384	10819	8597	0.795	0.11	
7.445	14986	9827	0.656	0.15	
8.276	19065	13591	0.713	0.20	
8.376	10132	9028	0.891	0.10	
8.572	1203814	1072809	0.891	12.67	
8.944	15824	11638	0.735	0.16	
9.963	17710	12713	0.718	0.18	
	9495108	8449820		100.000	

Total unknown % area = 81

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618034.D
Lab Smp Id: 1248-CAL1D Client Smp ID: 1248-CAL1D
Inj Date : 06-MAR-2018 15:21
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-cal1d, 188134:1
Misc Info : 17498,NSAR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 15:21 Cal File: 030618034.D
Als bottle: 18 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1248.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	252264	0.10000	0.11	0.00- 20.00	100.00(M)	BA
4.546	4.546	0.000	444140	0.10000	0.11	0.00- 20.00	176.06	BA
4.814	4.812	0.002	217595	0.10000	0.11	0.00- 20.00	86.26	BA
4.879	4.879	0.000	538491	0.10000	0.11	0.00- 20.00	213.46	BA
5.037	5.038	-0.001	375736	0.10000	0.10	0.00- 20.00	148.95	BA
Average of Peak Amounts =					0.10800			

QC Flag Legend

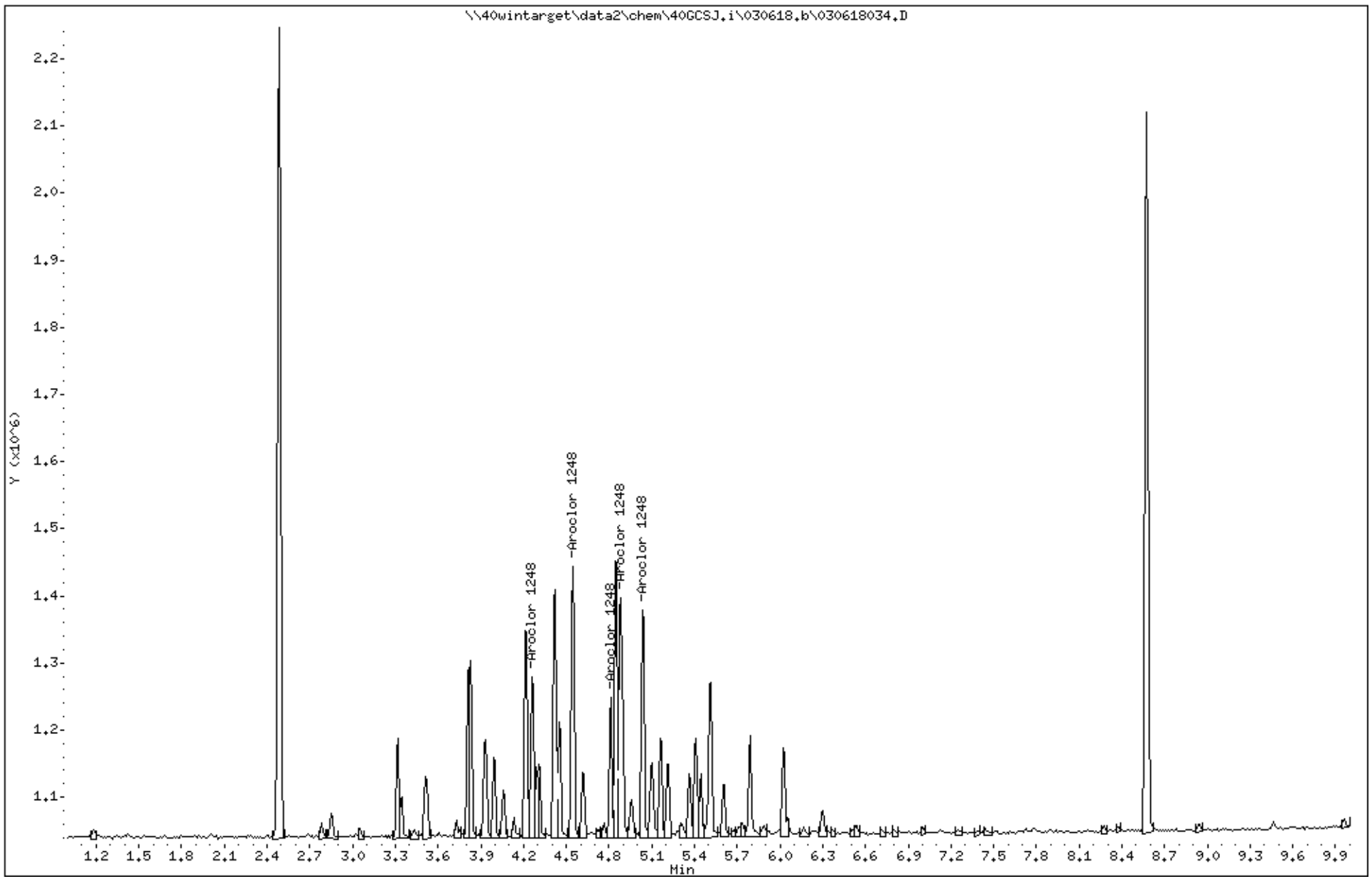
M - Compound response manually integrated.

Review Codes Legend

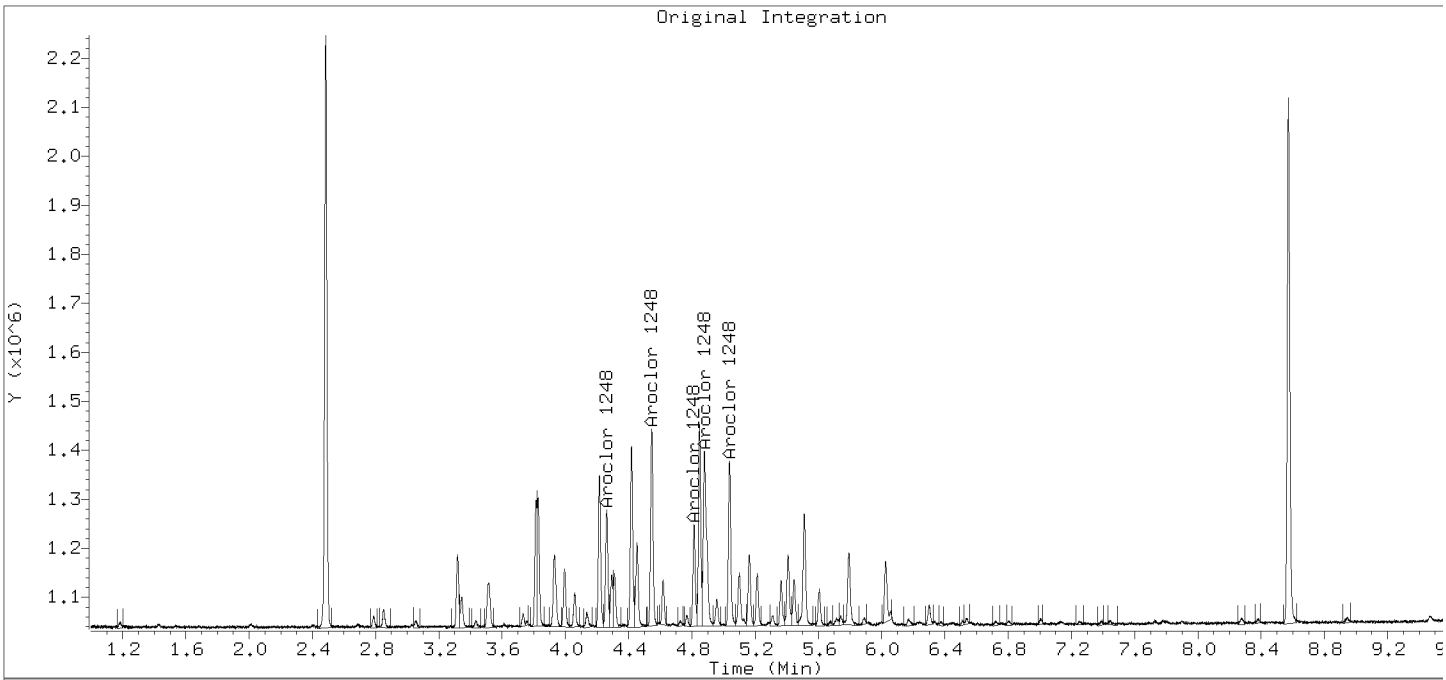
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

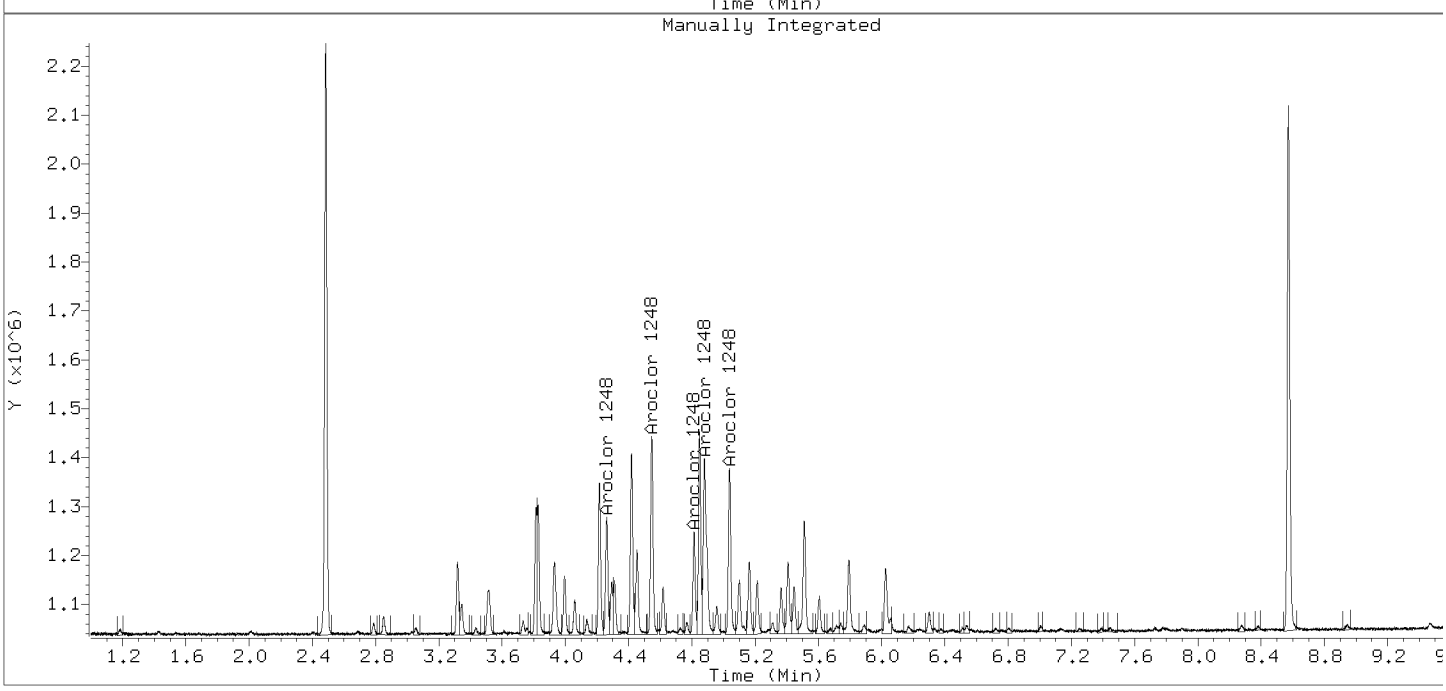
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618034.D
Date : 06-MAR-2018 15:21
Client ID: 1248-CAL1D
Sample Info: 1248-CAL1D, 188134:1

Instrument: 40GCSJ.i
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618034.D (ManInt: NSAR1248.sub Orig: NSAR1248.sub)
Injection Date: 06-MAR-2018 15:21 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1248-CAL1D





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1248	249611	252264	BA
Aroclor 1248	249611	252264	BA
Aroclor 1248	249611	252264	BA
Aroclor 1248	249611	252264	BA
Aroclor 1248	249611	252264	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618036.D
Lab Smp Id: 1248-CAL2D Client Smp ID: 1248-CAL2D
Inj Date : 06-MAR-2018 15:37
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-cal2d, 185548:1
Misc Info : 17498,NSAR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 15:37 Cal File: 030618036.D
Als bottle: 19 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1248.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.183	14828	12598	0.850	0.08		
1.430	17405	15532	0.892	0.09		
1.539	10978	9178	0.836	0.05		
2.484	2410492	2310272	0.958	13.49		
2.687	17007	12868	0.757	0.09		
2.788	48103	47022	0.978	0.26		
2.850	76500	74948	0.980	0.41		
3.054	25960	22998	0.886	0.14		
3.317	298832	283610	0.949	1.62		
3.344	124976	117615	0.941	0.68		
3.435	29128	26666	0.915	0.15		
3.515	253342	181031	0.715	1.37		
3.731	81061	56758	0.700	0.44		
3.815	462892	504630	1.090	2.51		
3.826	513591	533097	1.038	2.79		
3.930	374207	289234	0.773	2.03		
3.994	244564	239466	0.979	1.33		
4.058	144578	133216	0.921	0.78		
4.138	61375	54340	0.885	0.33		
4.215	629384	607757	0.966	3.42		
4.262	495628	473751	0.956	2.69	6 Aroclor 1248	BA
4.292	207266	214773	1.036	1.12		
4.310	218472	204865	0.938	1.18		
4.418	768532	734950	0.956	4.18		
4.453	378840	319389	0.843	2.06		
4.546	893337	815571	0.913	4.86	6 Aroclor 1248	BA
4.619	201356	185248	0.920	1.09		
4.680	15861	10971	0.692	0.08		
4.727	29910	23588	0.789	0.16		
4.768	49430	45109	0.913	0.26		
4.813	420194	408578	0.972	2.28	6 Aroclor 1248	BA
4.849	831772	785146	0.944	4.52		
4.879	1060573	728567	0.687	5.77	6 Aroclor 1248	BA
4.957	136900	106494	0.778	0.74		
5.037	754040	696546	0.924	4.10	6 Aroclor 1248	BA
5.100	272713	215866	0.792	1.48		
5.163	325949	288755	0.886	1.77		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.213	228553	210074	0.919	1.24	
5.284	17412	16457	0.945	0.09	
5.311	55636	44138	0.793	0.30	
5.365	206530	172716	0.836	1.12	
5.407	337971	295228	0.874	1.83	
5.446	206711	185231	0.896	1.12	
5.511	560479	467877	0.835	3.05	
5.606	165540	145657	0.880	0.90	
5.677	22681	19784	0.872	0.12	
5.717	37903	28891	0.762	0.20	
5.740	60086	37215	0.619	0.32	
5.793	371069	303747	0.819	2.02	
5.889	58211	32981	0.567	0.31	
5.992	13175	13785	1.046	0.07	
6.025	314967	267323	0.849	1.71	
6.057	68435	55542	0.812	0.37	
6.170	38384	24308	0.633	0.20	
6.299	99670	82914	0.832	0.54	
6.332	23115	17884	0.774	0.12	
6.374	20547	14764	0.719	0.11	
6.512	20781	18606	0.895	0.11	
6.536	45734	28211	0.617	0.24	
6.605	13055	7483	0.573	0.07	
6.719	20846	19042	0.913	0.11	
6.807	17328	17245	0.995	0.09	
7.005	39579	28763	0.727	0.21	
7.128	13661	9160	0.671	0.07	
7.254	16230	12319	0.759	0.08	
7.391	15959	13660	0.856	0.08	
7.448	19126	12843	0.671	0.10	
7.727	14015	12218	0.872	0.07	
7.904	9772	9677	0.990	0.05	
8.273	24829	20353	0.820	0.13	
8.382	9612	9180	0.955	0.05	
8.572	2222844	1814975	0.817	12.10	
8.942	19336	12310	0.637	0.10	
9.470	19278	15347	0.796	0.10	
9.966	19855	14911	0.751	0.10	
	18368893	16303822		100.000	

Total unknown % area = 80

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618036.D
Lab Smp Id: 1248-CAL2D Client Smp ID: 1248-CAL2D
Inj Date : 06-MAR-2018 15:37
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-cal2d, 185548:1
Misc Info : 17498,NSAR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 15:37 Cal File: 030618036.D
Als bottle: 19 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1248.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	495628	0.20000	0.21	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	893336	0.20000	0.22	0.00- 20.00	180.24	BA
4.813	4.812	0.001	420194	0.20000	0.21	0.00- 20.00	84.78	BA
4.878	4.879	-0.001	1060573	0.20000	0.21	0.00- 20.00	213.99	BA
5.036	5.038	-0.002	754040	0.20000	0.21	0.00- 20.00	152.14	BA
Average of Peak Amounts =					0.21200			

QC Flag Legend

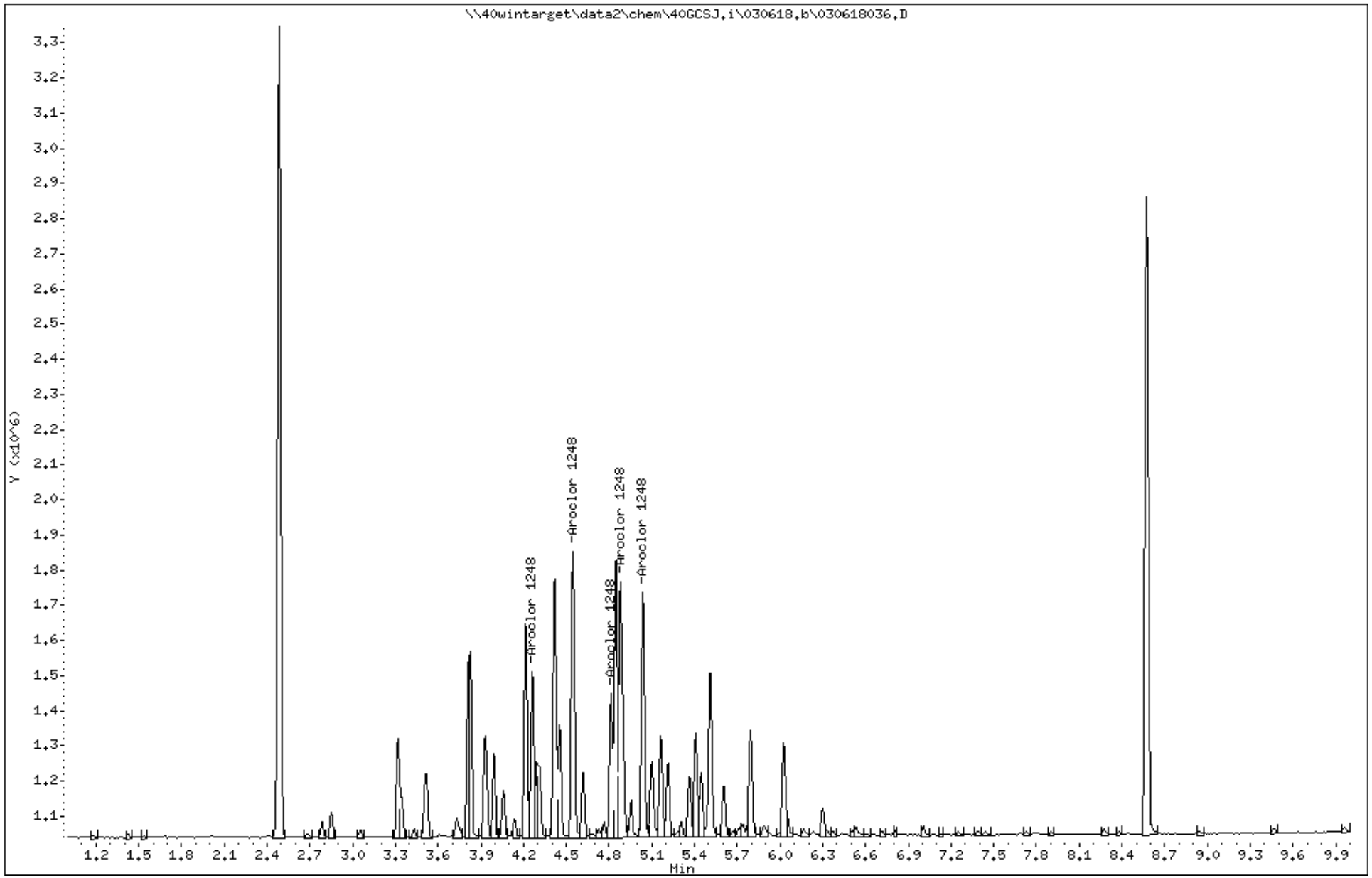
M - Compound response manually integrated.

Review Codes Legend

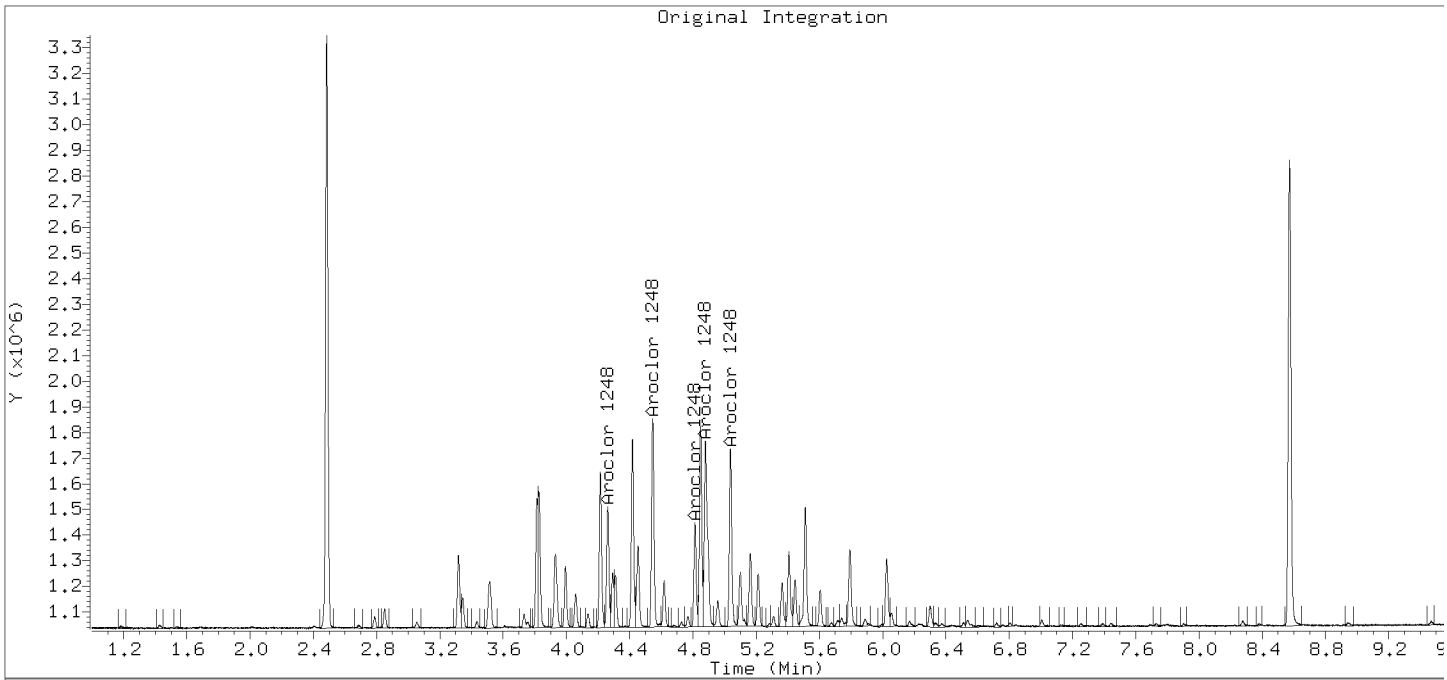
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

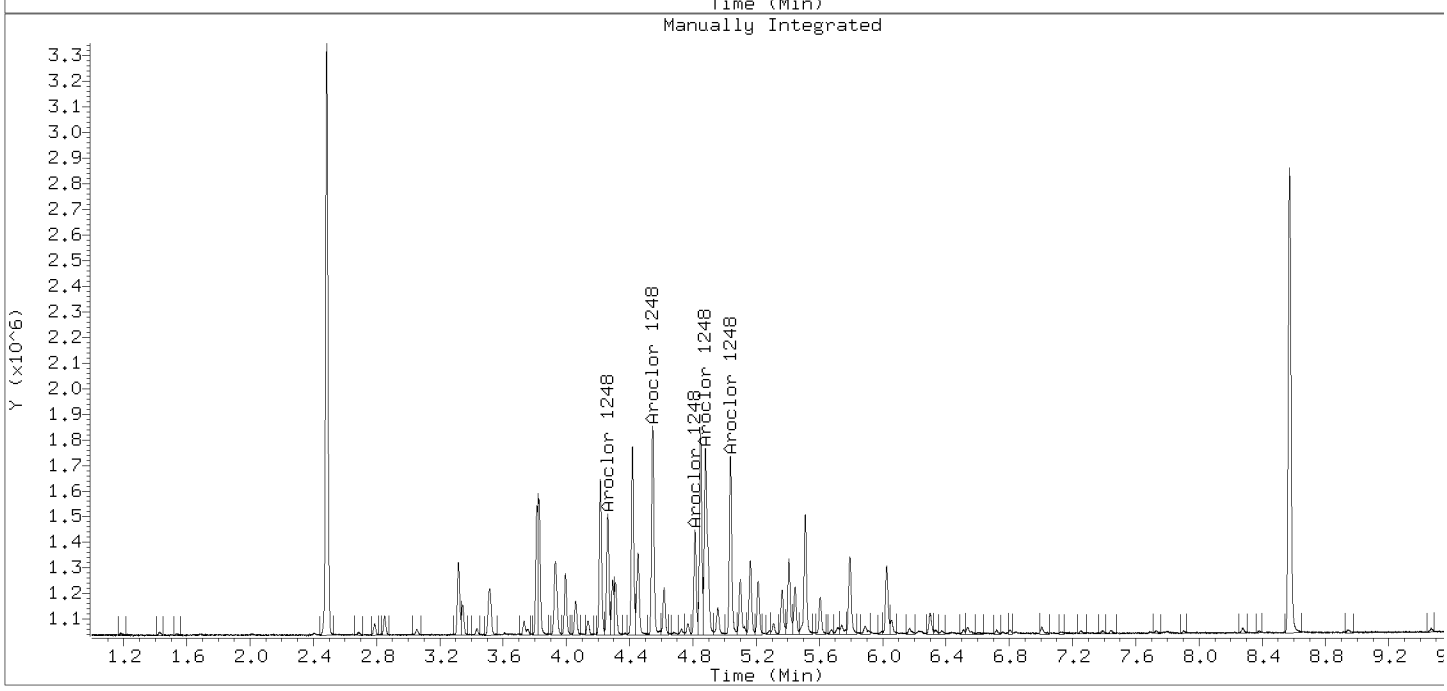
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618036.D
Date : 06-MAR-2018 15:37
Client ID: 1248-CAL2D
Sample Info: 1248-CAL2D, 185548:1

Instrument: 40GCSJ.i
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618036.D (ManInt: NSAR1248.sub Orig: NSAR1248.sub)
Injection Date: 06-MAR-2018 15:37 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1248-CAL2D





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1248	491137	495628	BA
Aroclor 1248	491137	495628	BA
Aroclor 1248	491137	495628	BA
Aroclor 1248	491137	495628	BA
Aroclor 1248	491137	495628	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618038.D
Lab Smp Id: 1248-CAL3D Client Smp ID: 1248-CAL3D
Inj Date : 06-MAR-2018 15:53
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-cal3d, 185549:1
Misc Info : 17498,NSAR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 15:53 Cal File: 030618038.D
Als bottle: 20 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1248.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.183	52291	42958	0.822	0.11		
1.429	43894	31713	0.722	0.09		
1.534	22011	15352	0.697	0.05		
1.684	14849	11921	0.803	0.03		
2.012	36627	27328	0.746	0.08		
2.407	26546	19456	0.733	0.06		
2.484	6017126	5772700	0.959	14.16		
2.690	32471	25048	0.771	0.07		
2.787	113251	108295	0.956	0.25		
2.852	188762	171319	0.908	0.42		
3.029	16871	18416	1.092	0.03		
3.055	67710	56713	0.838	0.15		
3.317	703226	686995	0.977	1.60		
3.344	286830	276759	0.965	0.65		
3.435	67890	58817	0.866	0.15		
3.516	596412	432178	0.725	1.35		
3.611	19167	18609	0.971	0.04		
3.647	15129	9511	0.629	0.03		
3.732	135042	128551	0.952	0.30		
3.756	64325	57019	0.886	0.14		
3.813	1062140	1201939	1.132	2.41		
3.826	1285788	1271741	0.989	2.92		
3.930	900477	692801	0.769	2.04		
3.994	605988	570061	0.941	1.37		
4.058	351201	319673	0.910	0.79		
4.137	149029	131722	0.884	0.33		
4.215	1475927	1383740	0.938	3.35		
4.261	1173198	1126600	0.960	2.66	6 Aroclor 1248	BA
4.293	494927	502286	1.015	1.12		
4.310	515717	488015	0.946	1.17		
4.417	1799324	1700045	0.945	4.09		
4.452	888654	777134	0.875	2.02		
4.546	2052388	1889189	0.920	4.66	6 Aroclor 1248	BA
4.588	34383	33944	0.987	0.07		
4.618	476094	438433	0.921	1.08		
4.681	29129	21872	0.751	0.06		
4.727	64061	51195	0.799	0.14		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.769	110931	104719	0.944	0.25	
4.813	1017191	989120	0.972	2.31	6 Aroclor 1248
4.848	1949790	1821792	0.934	4.43	
4.879	2527488	1652488	0.654	5.75	6 Aroclor 1248
4.957	303686	249082	0.820	0.69	
5.038	1794002	1655561	0.923	4.08	6 Aroclor 1248
5.100	643410	513336	0.798	1.46	
5.162	765077	698728	0.913	1.74	
5.213	547175	504652	0.922	1.24	
5.284	41401	37162	0.898	0.09	
5.308	120103	105343	0.877	0.27	
5.363	470348	418426	0.890	1.07	
5.407	811478	707819	0.872	1.84	
5.445	498126	442022	0.887	1.13	
5.510	1346051	1105489	0.821	3.06	
5.605	392604	337924	0.861	0.89	
5.674	48073	38822	0.808	0.10	
5.717	86755	62682	0.723	0.19	
5.740	101326	88143	0.870	0.23	
5.765	28818	38498	1.336	0.06	
5.792	911257	762608	0.837	2.07	
5.889	94463	79681	0.844	0.21	
5.913	50133	31292	0.624	0.11	
5.994	30626	28514	0.931	0.06	
6.025	762038	662252	0.869	1.73	
6.055	160892	129589	0.805	0.36	
6.171	81256	53475	0.658	0.18	
6.228	54811	30043	0.548	0.12	
6.300	235601	196601	0.834	0.53	
6.333	46391	39165	0.844	0.10	
6.376	41268	29678	0.719	0.09	
6.447	37982	15949	0.420	0.08	
6.509	37155	37405	1.007	0.08	
6.537	96382	65323	0.678	0.21	
6.604	13761	11378	0.827	0.03	
6.719	40218	33312	0.828	0.09	
6.759	20105	17496	0.870	0.04	
6.803	43393	37801	0.871	0.09	
6.843	24388	14465	0.593	0.05	
6.941	11214	8137	0.726	0.02	
7.004	73324	59305	0.809	0.16	
7.126	31431	17422	0.554	0.07	
7.250	27971	25551	0.913	0.06	
7.391	30533	26580	0.871	0.06	
7.444	27775	25655	0.924	0.06	
7.693	17906	15318	0.855	0.04	
7.728	28913	24590	0.850	0.06	
7.779	18403	15964	0.867	0.04	
7.802	17401	15137	0.870	0.03	
7.901	30922	23185	0.750	0.07	
8.276	52635	47411	0.901	0.11	
8.380	33122	21479	0.648	0.07	
8.571	5194473	4505821	0.867	11.81	
8.943	27069	16672	0.616	0.06	
9.470	33315	19626	0.589	0.07	
9.960	28297	18719	0.662	0.06	
	43949512	39304455		100.000	

Total unknown % area = 80

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618038.D
Lab Smp Id: 1248-CAL3D Client Smp ID: 1248-CAL3D
Inj Date : 06-MAR-2018 15:53
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-cal3d, 185549:1
Misc Info : 17498,NSAR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 15:53 Cal File: 030618038.D
Als bottle: 20 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1248.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	1173198	0.50000	0.50	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	2052387	0.50000	0.49	0.00- 20.00	174.94	BA
4.813	4.812	0.001	1017190	0.50000	0.50	0.00- 20.00	86.70	BA
4.879	4.879	0.000	2527488	0.50000	0.50	0.00- 20.00	215.44	BA
5.037	5.038	-0.001	1794001	0.50000	0.50	0.00- 20.00	152.92	BA
Average of Peak Amounts =					0.49800			

QC Flag Legend

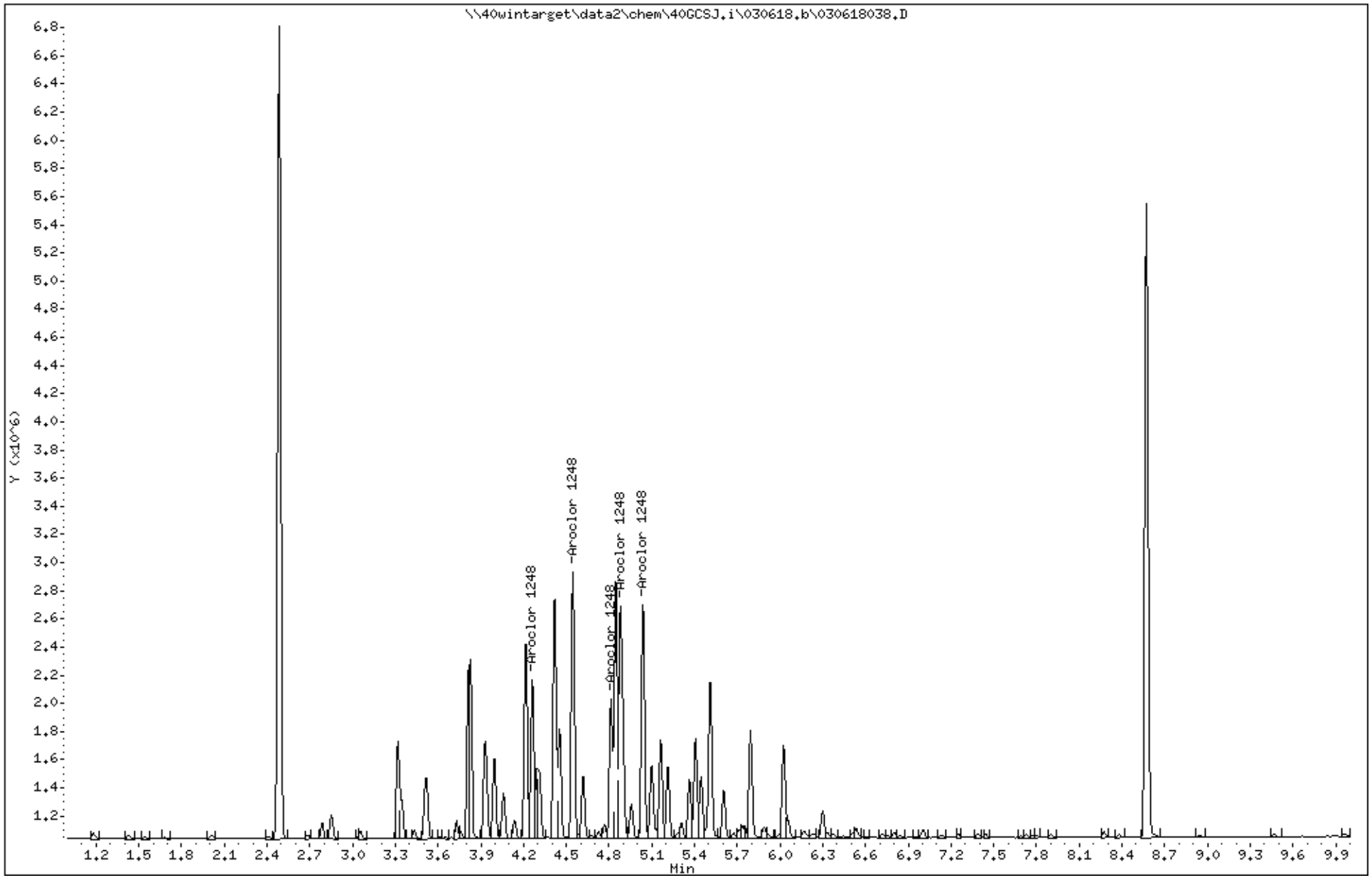
M - Compound response manually integrated.

Review Codes Legend

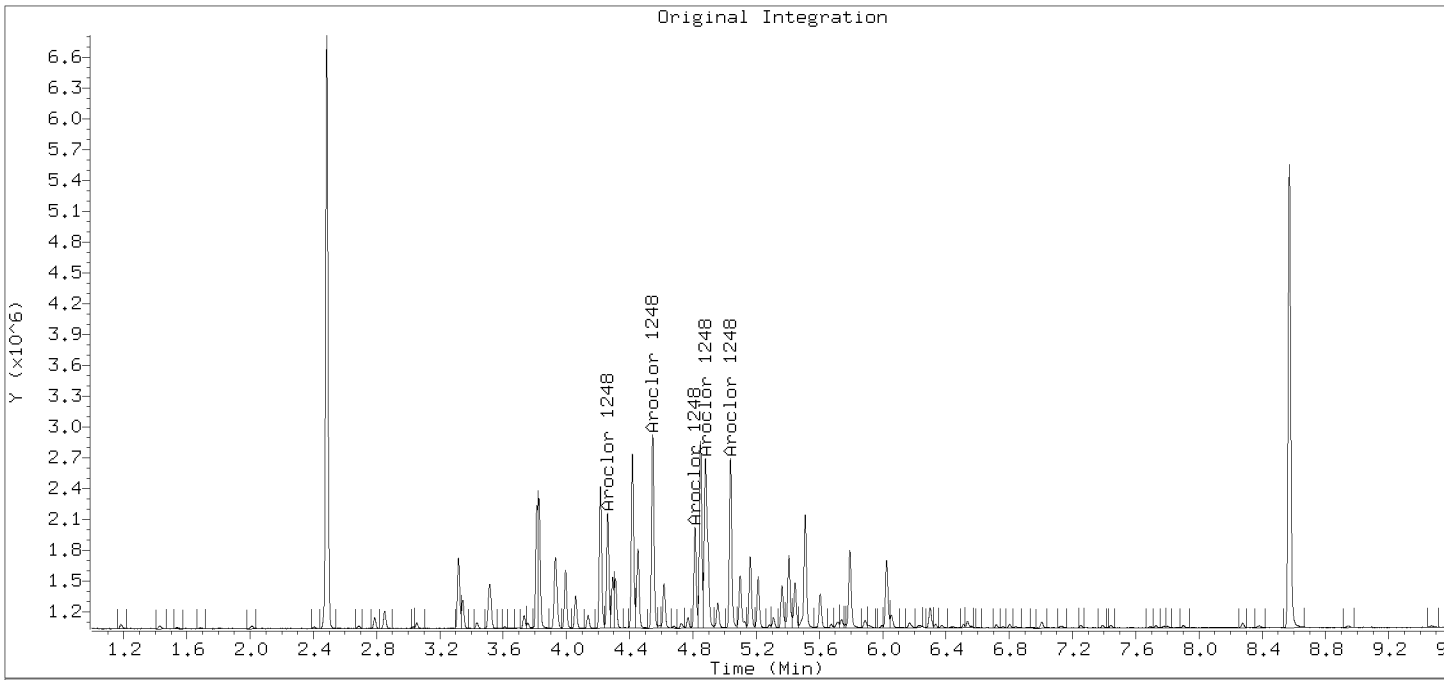
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

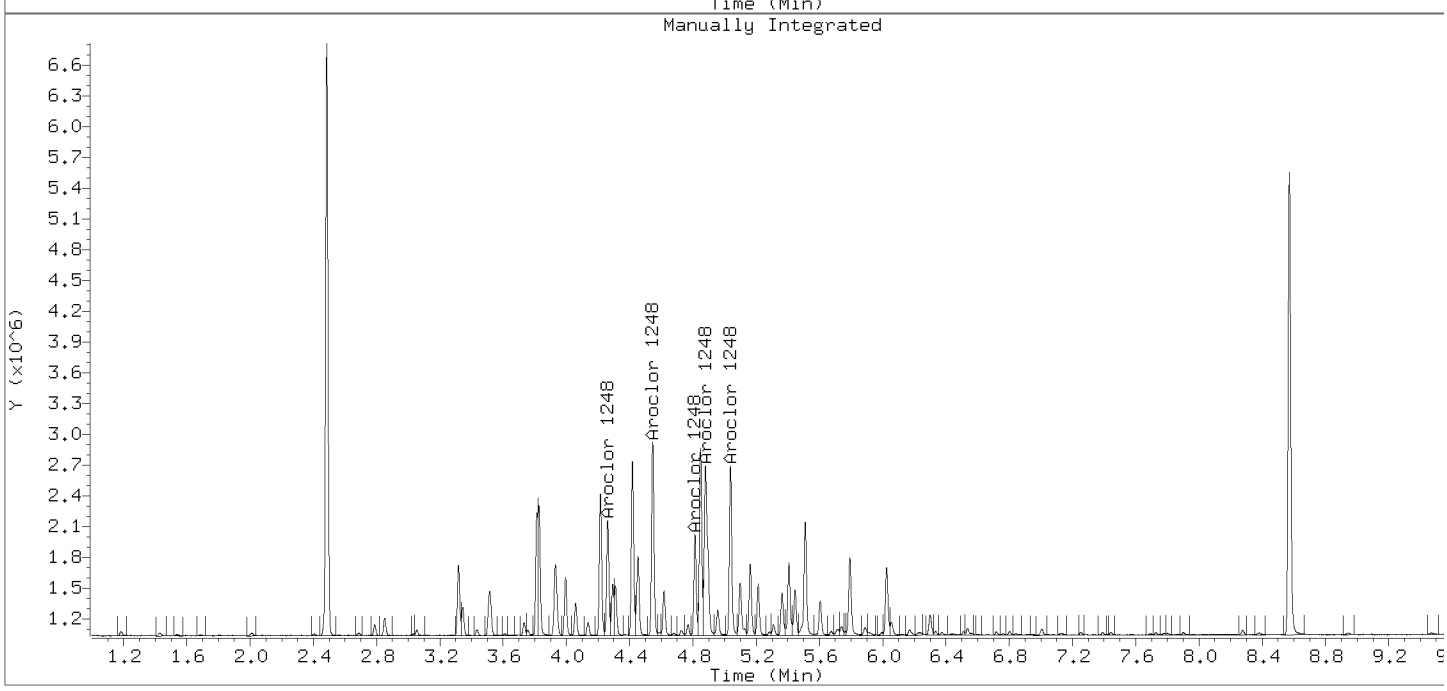
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618038.D
Date : 06-MAR-2018 15:53
Client ID: 1248-CAL3D
Sample Info: 1248-CAL3D, 185549:1

Instrument: 40GCSJ.i
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618038.D (ManInt: NSAR1248.sub Orig: NSAR1248.sub)
Injection Date: 06-MAR-2018 15:53 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1248-CAL3D





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1248	1161123	1173198	BA
Aroclor 1248	1161123	1173198	BA
Aroclor 1248	1161123	1173198	BA
Aroclor 1248	1161123	1173198	BA
Aroclor 1248	1161123	1173198	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618040.D
Lab Smp Id: 1248-CAL4D Client Smp ID: 1248-CAL4D
Inj Date : 06-MAR-2018 16:09
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-cal4d, 185550:1
Misc Info : 17498,NSAR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 16:09 Cal File: 030618040.D
Als bottle: 21 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1248.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.184	23783	14012	0.589	0.03		
1.430	68772	56288	0.818	0.09		
1.538	27818	21841	0.785	0.03		
2.406	41368	29218	0.706	0.05		
2.485	11662105	11112795	0.953	17.14		
2.688	47215	38573	0.817	0.06		
2.788	203552	191980	0.943	0.29		
2.851	287413	258349	0.899	0.41		
3.055	100338	85256	0.850	0.14		
3.318	1056102	1019716	0.966	1.50		
3.345	441526	421992	0.956	0.63		
3.434	97081	90204	0.929	0.13		
3.515	910659	658598	0.723	1.30		
3.611	32844	31062	0.946	0.04		
3.651	12163	10814	0.889	0.01		
3.695	12227	11029	0.902	0.01		
3.732	195496	195587	1.000	0.27		
3.756	83420	81444	0.976	0.11		
3.814	1567662	1791160	1.143	2.24		
3.827	1917579	1885095	0.983	2.74		
3.931	1340766	1031743	0.770	1.91		
3.994	893318	859435	0.962	1.27		
4.059	507945	474678	0.935	0.72		
4.137	209816	195120	0.930	0.29		
4.216	2174966	1996009	0.918	3.10		
4.262	1747290	1634508	0.935	2.49	6 Aroclor 1248	BA
4.293	719186	757380	1.053	1.02		
4.311	795770	743692	0.935	1.13		
4.418	2683345	2471775	0.921	3.83		
4.453	1336671	1172433	0.877	1.91		
4.546	3077708	2813367	0.914	4.39	6 Aroclor 1248	BA
4.592	50782	48315	0.951	0.07		
4.618	721531	680792	0.944	1.03		
4.682	39778	31109	0.782	0.05		
4.727	90436	74601	0.825	0.12		
4.768	164069	159220	0.970	0.23		
4.814	1529584	1458936	0.954	2.18	6 Aroclor 1248	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.849	2912545	2807178	0.964	4.16	
4.879	3756486	2507650	0.668	5.36	6 Aroclor 1248
4.959	446081	367801	0.825	0.63	
5.038	2709000	2506705	0.925	3.87	6 Aroclor 1248
5.100	972027	775936	0.798	1.38	
5.163	1142709	1049261	0.918	1.63	
5.213	827376	755691	0.913	1.18	
5.285	59301	53069	0.895	0.08	
5.309	180372	153614	0.852	0.25	
5.364	725905	634309	0.874	1.03	
5.408	1217313	1074540	0.883	1.73	
5.447	755270	658840	0.872	1.07	
5.510	2000999	1684613	0.842	2.85	
5.605	577093	528233	0.915	0.82	
5.676	67052	59659	0.890	0.09	
5.718	120890	90293	0.747	0.17	
5.742	139371	130806	0.939	0.19	
5.763	48200	56761	1.178	0.06	
5.793	1366535	1115283	0.816	1.95	
5.888	190518	116597	0.612	0.27	
5.995	43830	40905	0.933	0.06	
6.025	1167064	1029378	0.882	1.66	
6.056	233192	189145	0.811	0.33	
6.171	117974	81314	0.689	0.16	
6.229	73058	40661	0.557	0.10	
6.299	353507	303097	0.857	0.50	
6.334	67864	56427	0.831	0.09	
6.373	56825	43449	0.765	0.08	
6.434	31012	16905	0.545	0.04	
6.512	66221	56258	0.850	0.09	
6.538	139332	94112	0.675	0.19	
6.604	20526	17194	0.838	0.02	
6.665	17050	12889	0.756	0.02	
6.720	59223	48657	0.822	0.08	
6.761	28886	25179	0.872	0.04	
6.804	64363	56227	0.874	0.09	
6.841	26723	19155	0.717	0.03	
7.005	107576	96122	0.894	0.15	
7.124	36317	20799	0.573	0.05	
7.253	47298	40406	0.854	0.06	
7.284	14796	11885	0.803	0.02	
7.392	50134	42799	0.854	0.07	
7.444	51593	44890	0.870	0.07	
7.690	21646	19744	0.912	0.03	
7.730	50158	42338	0.844	0.07	
7.804	37842	29484	0.779	0.05	
7.903	37446	35295	0.943	0.05	
8.276	107716	86008	0.798	0.15	
8.382	16440	13810	0.840	0.02	
8.573	9713869	8374648	0.862	13.88	
9.468	13816	9740	0.705	0.01	
9.968	11075	9075	0.819	0.01	
	69971497	62742960		100.000	

Total unknown % area = 82

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618040.D
Lab Smp Id: 1248-CAL4D Client Smp ID: 1248-CAL4D
Inj Date : 06-MAR-2018 16:09
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-cal4d, 185550:1
Misc Info : 17498,NSAR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 16:09 Cal File: 030618040.D
Als bottle: 21 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1248.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	1747289	0.80000	0.74	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	3077707	0.80000	0.74	0.00- 20.00	176.14	BA
4.813	4.812	0.001	1529584	0.80000	0.75	0.00- 20.00	87.54	BA
4.878	4.879	-0.001	3756485	0.80000	0.74	0.00- 20.00	214.99	BA
5.038	5.038	0.000	2708999	0.80000	0.75	0.00- 20.00	155.04	BA
Average of Peak Amounts =					0.74400			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618040.D

Date : 06-MAR-2018 16:09

Client ID: 1248-CAL4D

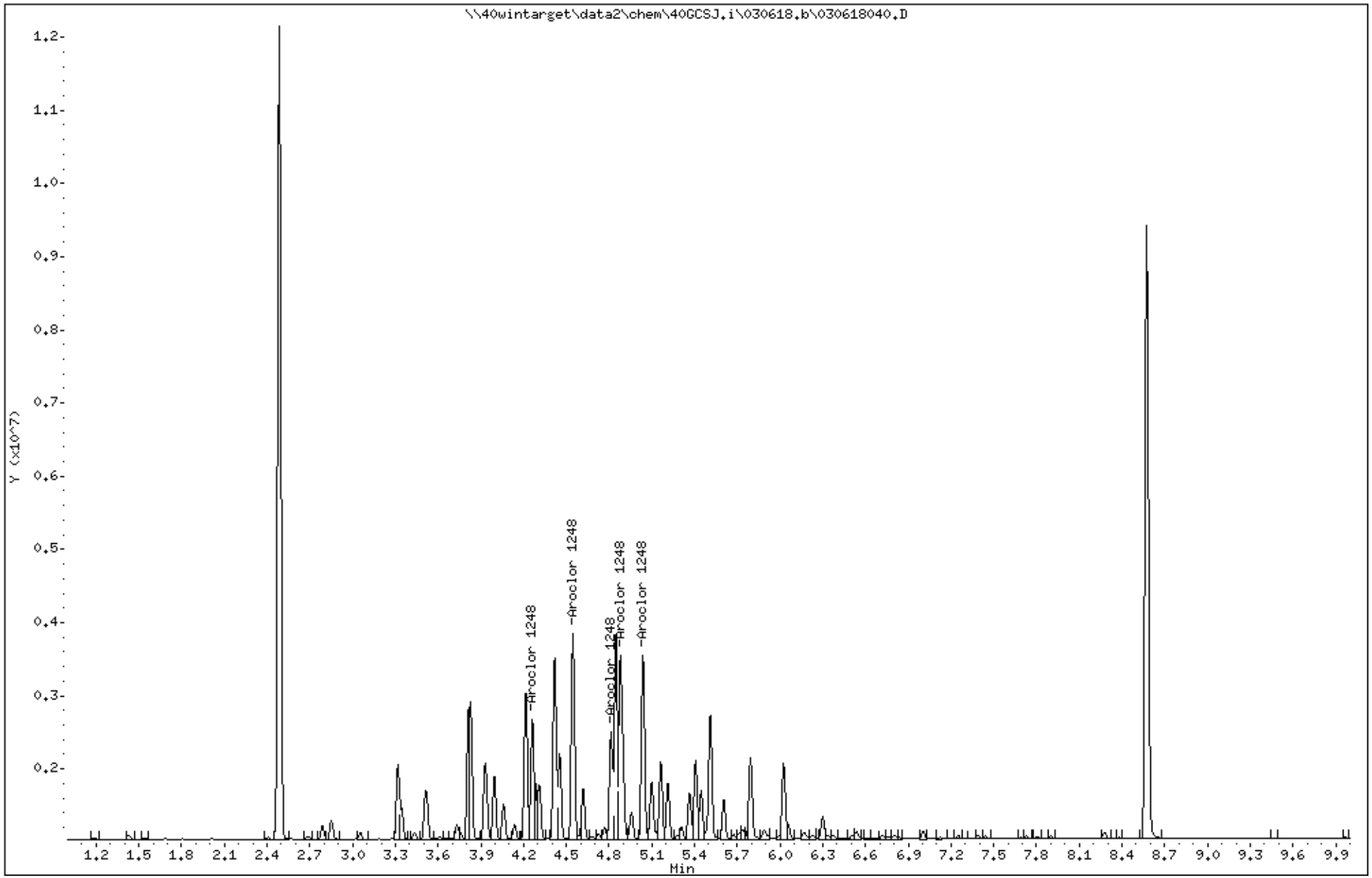
Instrument: 40GCSJ.i

Sample Info: 1248-CAL4D, 185550:1

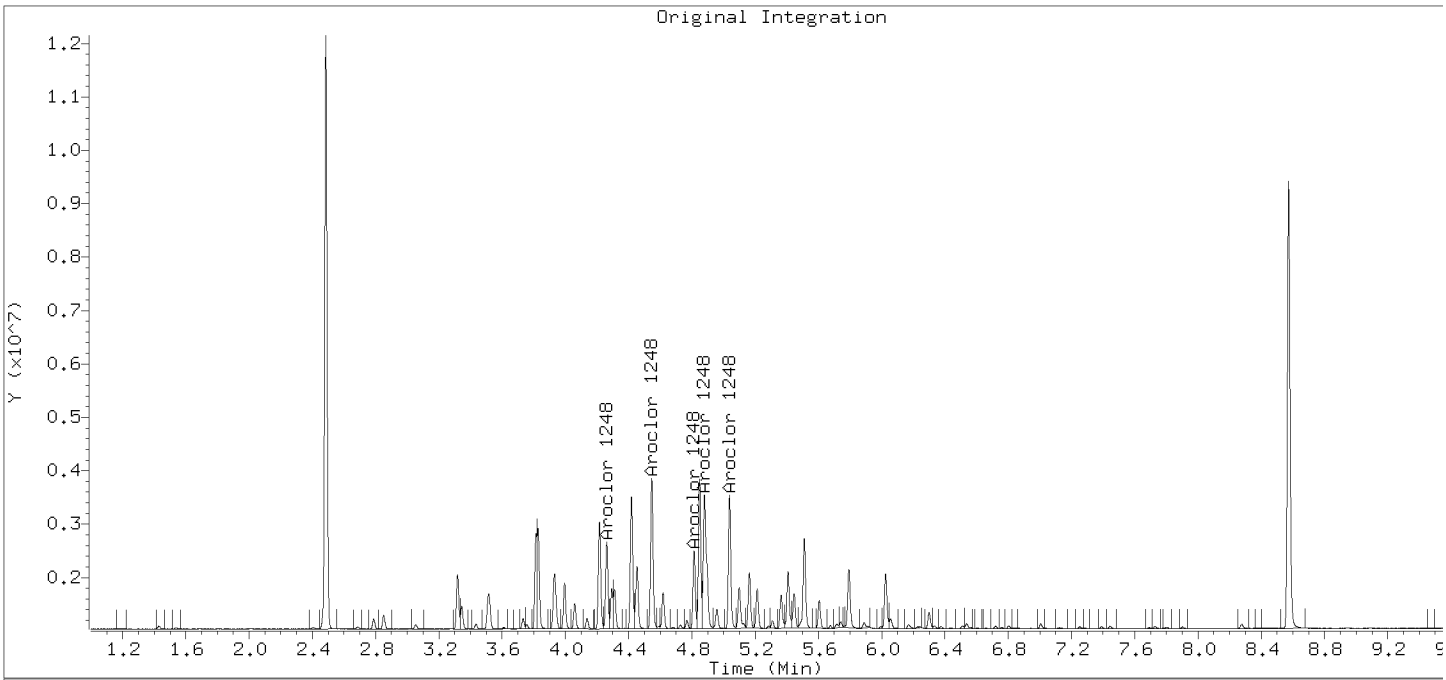
Operator: BLM

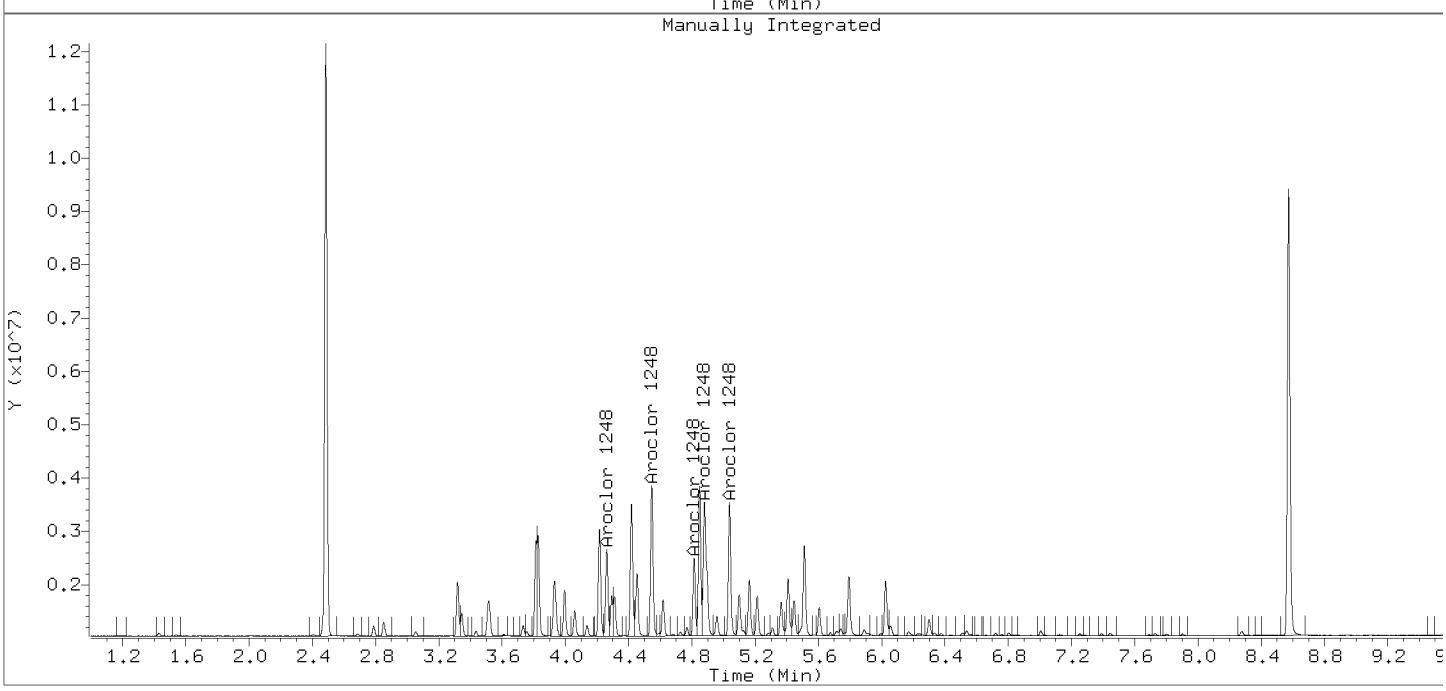
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618040.D (ManInt: NSAR1248.sub Orig: NSAR1248.sub)
Injection Date: 06-MAR-2018 16:09 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1248-CAL4D





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1248	1739344	1747289	BA
Aroclor 1248	1739344	1747289	BA
Aroclor 1248	1739344	1747289	BA
Aroclor 1248	1739344	1747289	BA
Aroclor 1248	1739344	1747289	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618042.D
Lab Smp Id: 1248-CAL5D Client Smp ID: 1248-CAL5D
Inj Date : 06-MAR-2018 16:25
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-cal5d, 185551:1
Misc Info : 17498,NSAR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 16:25 Cal File: 030618042.D
Als bottle: 22 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1248.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.184	15397	13334	0.866	0.01		
1.430	101369	87214	0.860	0.10		
1.537	43989	34591	0.786	0.04		
2.406	47903	33430	0.698	0.05		
2.485	17721229	17125552	0.966	19.37		
2.688	56165	47205	0.840	0.05		
2.788	288750	277495	0.961	0.30		
2.851	348759	325290	0.933	0.37		
3.054	123922	115841	0.935	0.13		
3.273	9293	8724	0.939	0.00		
3.318	1341983	1263092	0.941	1.43		
3.344	567538	536022	0.944	0.60		
3.434	126309	115528	0.915	0.13		
3.516	1155877	827361	0.716	1.23		
3.611	47908	47362	0.989	0.05		
3.647	10831	12550	1.159	0.01		
3.696	12947	14220	1.098	0.01		
3.732	246189	245791	0.998	0.26		
3.758	102423	103998	1.015	0.10		
3.814	1931729	2268598	1.174	2.06		
3.826	2479017	2389735	0.964	2.64		
3.931	1695811	1294913	0.764	1.80		
3.995	1133597	1088944	0.961	1.20		
4.059	642924	621662	0.967	0.68		
4.136	260443	245788	0.944	0.27		
4.216	2732694	2586455	0.946	2.91		
4.261	2183583	2056861	0.942	2.32	6 Aroclor 1248	BA
4.293	940491	949013	1.009	1.00		
4.310	984371	940127	0.955	1.05		
4.373	17082	14222	0.833	0.01		
4.418	3371096	3162549	0.938	3.59		
4.453	1703074	1454953	0.854	1.81		
4.546	3891543	3587538	0.922	4.15	6 Aroclor 1248	BA
4.591	55507	60505	1.090	0.05		
4.618	922889	867798	0.940	0.98		
4.679	46691	38089	0.816	0.04		
4.728	116729	92875	0.796	0.12		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.769	206094	200087	0.971	0.21	
4.814	1927122	1857150	0.964	2.05	6 Aroclor 1248
4.849	3694572	3560273	0.964	3.94	
4.880	4748871	3261898	0.687	5.06	6 Aroclor 1248
4.958	573809	487686	0.850	0.61	
5.038	3440920	3224544	0.937	3.67	6 Aroclor 1248
5.099	1231738	975474	0.792	1.31	
5.163	1442598	1311329	0.909	1.53	
5.213	1046539	961794	0.919	1.11	
5.285	77016	69190	0.898	0.08	
5.309	226198	194152	0.858	0.24	
5.364	920750	826849	0.898	0.98	
5.407	1532611	1323050	0.863	1.63	
5.446	983454	847993	0.862	1.04	
5.511	2532627	2102151	0.830	2.70	
5.605	736667	659983	0.896	0.78	
5.676	82056	71573	0.872	0.08	
5.717	150366	114784	0.763	0.16	
5.741	184149	167330	0.909	0.19	
5.762	57712	71463	1.238	0.06	
5.793	1735942	1359776	0.783	1.85	
5.890	231734	149127	0.644	0.24	
5.994	49770	49696	0.999	0.05	
6.025	1490983	1293880	0.868	1.59	
6.056	314721	242832	0.772	0.33	
6.169	146062	104225	0.714	0.15	
6.227	101525	50840	0.501	0.10	
6.299	449260	381467	0.849	0.47	
6.335	84948	72590	0.855	0.09	
6.375	71691	55450	0.773	0.07	
6.435	33526	20718	0.618	0.03	
6.510	77044	72111	0.936	0.08	
6.537	172087	123276	0.716	0.18	
6.609	25723	18897	0.735	0.02	
6.660	18434	15697	0.852	0.01	
6.721	70509	61602	0.874	0.07	
6.760	38763	32658	0.843	0.04	
6.802	83703	70972	0.848	0.08	
6.842	38188	23754	0.622	0.04	
6.914	13236	11502	0.869	0.01	
6.943	16695	13481	0.807	0.01	
7.006	152792	119576	0.783	0.16	
7.122	35477	27446	0.774	0.03	
7.252	56007	44086	0.787	0.05	
7.388	61340	50925	0.830	0.06	
7.446	59037	54928	0.930	0.06	
7.692	28579	27869	0.975	0.03	
7.730	76894	62730	0.816	0.08	
7.802	60957	40295	0.661	0.06	
7.901	57972	43159	0.744	0.06	
8.276	150141	122351	0.815	0.16	
8.379	21548	15836	0.735	0.02	
8.573	14394097	12289354	0.854	15.35	
8.946	18562	11531	0.621	0.01	
9.086	15319	13297	0.868	0.01	
9.963	9351	8698	0.930	0.00	
	93736539	84400610		100.000	

Total unknown % area = 83

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618042.D
Lab Smp Id: 1248-CAL5D Client Smp ID: 1248-CAL5D
Inj Date : 06-MAR-2018 16:25
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-cal5d, 185551:1
Misc Info : 17498,NSAR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 16:25 Cal File: 030618042.D
Als bottle: 22 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1248.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	2183582	1.00000	0.93	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	3891542	1.00000	0.94	0.00- 20.00	178.22	BA
4.813	4.812	0.001	1927121	1.00000	0.95	0.00- 20.00	88.26	BA
4.879	4.879	0.000	4748871	1.00000	0.94	0.00- 20.00	217.48	BA
5.037	5.038	-0.001	3440920	1.00000	0.96	0.00- 20.00	157.58	BA
Average of Peak Amounts =					0.94400			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618042.D

Date : 06-MAR-2018 16:25

Client ID: 1248-CAL5D

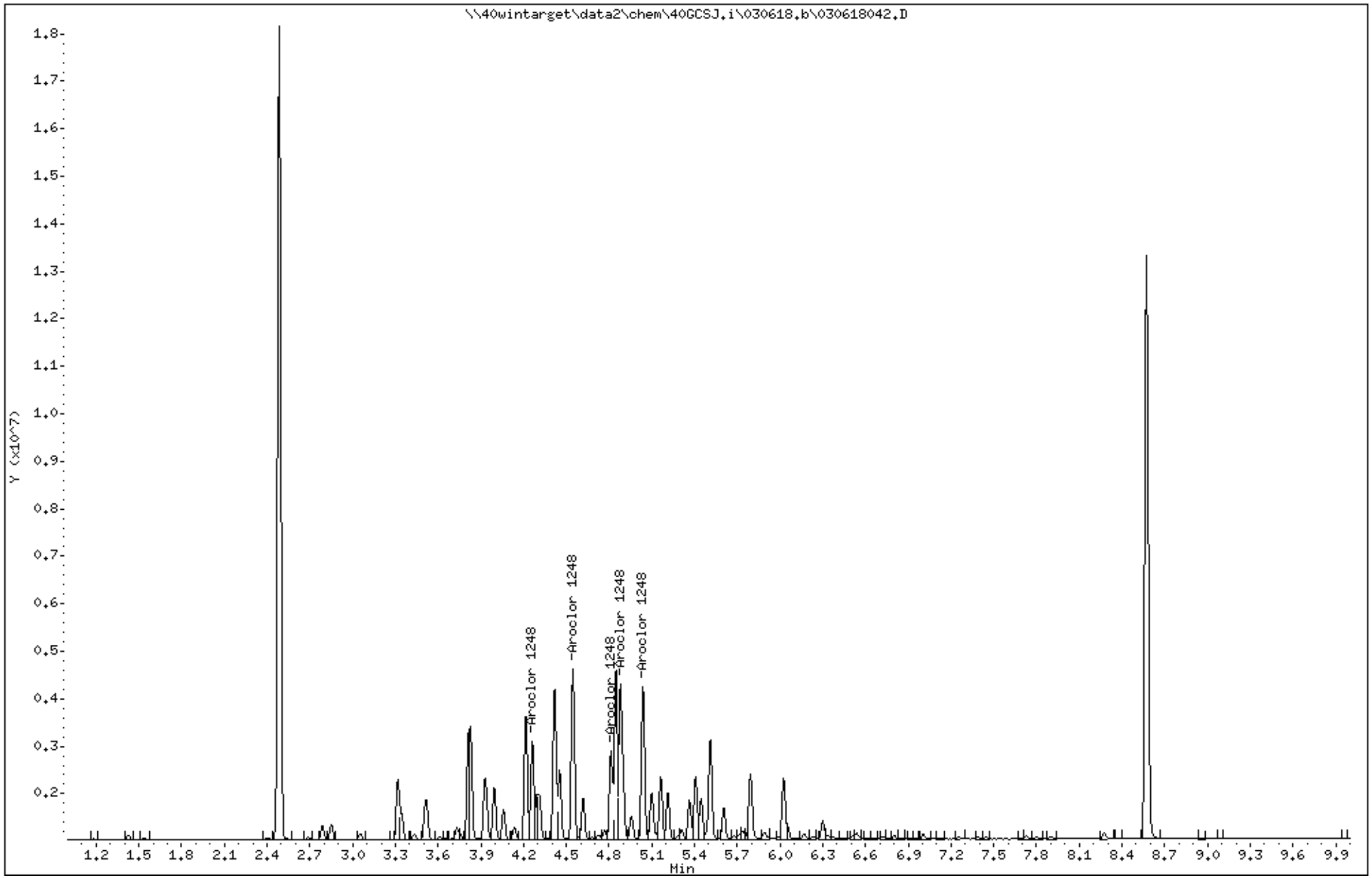
Instrument: 40GCSJ.i

Sample Info: 1248-CAL5D, 185551:1

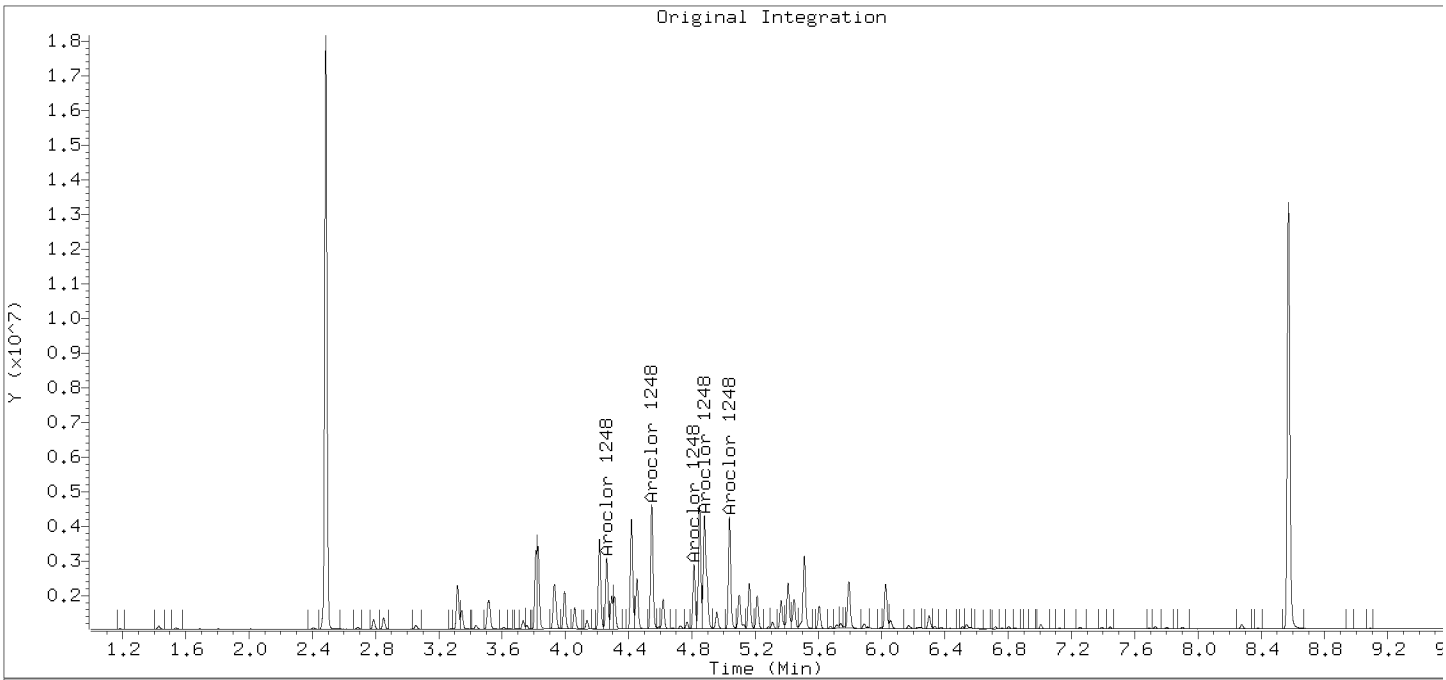
Operator: BLM

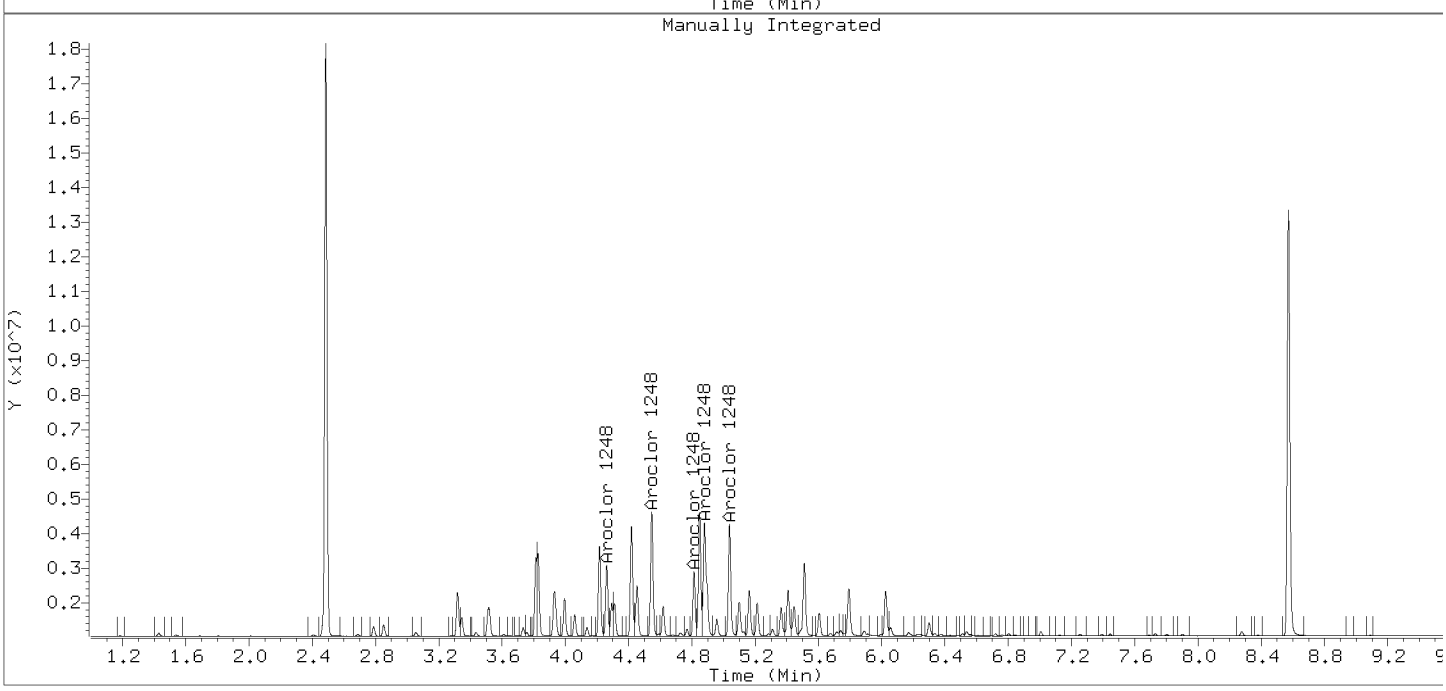
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618042.D (ManInt: NSAR1248.sub Orig: NSAR1248.sub)
Injection Date: 06-MAR-2018 16:25 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1248-CAL5D





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1248	2175285	2183582	BA
Aroclor 1248	2175285	2183582	BA
Aroclor 1248	2175285	2183582	BA
Aroclor 1248	2175285	2183582	BA
Aroclor 1248	2175285	2183582	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618046.D
Lab Smp Id: 1254-CAL1C Client Smp ID: 1254-CAL1C
Inj Date : 06-MAR-2018 16:57
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-cal1c, 188135:1
Misc Info : 17498,NSAR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 16:57 Cal File: 030618046.D
Als bottle: 24 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1254.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.183	48987	40093	0.818	0.41		
1.426	12583	10350	0.823	0.10		
1.686	14588	13145	0.901	0.12		
2.011	39185	27090	0.691	0.33		
2.484	1264026	1229666	0.973	11.03		
2.787	25737	23306	0.906	0.21		
3.028	26930	17363	0.645	0.22		
3.814	29490	14918	0.506	0.25		
4.000	27012	19985	0.740	0.22		
4.046	9554	8540	0.894	0.08		
4.215	267608	259554	0.970	2.27		
4.260	70496	69050	0.979	0.59		
4.293	14185	11720	0.826	0.12		
4.418	167997	155970	0.928	1.42		
4.452	20339	17534	0.862	0.17		
4.547	73516	70272	0.956	0.62		
4.615	15012	14316	0.954	0.12		
4.813	63092	62377	0.989	0.53		
4.848	232331	222423	0.957	1.97		
4.895	547413	435444	0.795	4.64		
4.958	89049	77209	0.867	0.75		
5.038	53508	47334	0.885	0.45		
5.101	310238	269708	0.869	2.63		
5.163	578338	533266	0.922	4.91	7 Aroclor 1254	BA
5.213	259231	232363	0.896	2.20		
5.286	13290	15715	1.182	0.11		
5.310	48017	42464	0.884	0.40		
5.363	222324	207379	0.933	1.88		
5.408	461676	411346	0.891	3.91	7 Aroclor 1254	BA
5.446	153810	143804	0.935	1.30		
5.478	60811	58639	0.964	0.51		
5.511	843524	762911	0.904	7.16	7 Aroclor 1254	BA
5.605	121504	105369	0.867	1.03		
5.676	76082	73395	0.965	0.64		
5.712	129494	82303	0.636	1.09		
5.740	72702	60950	0.838	0.61		
5.791	864719	646413	0.748	7.34		

Data File: ...wintarget\data2\chem\40GCSJ.i\030618.b\030618046.D Page 2
Report Date: 22-Mar-2018 13:34

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.885	76602	58309	0.761	0.65	
5.925	46537	28076	0.603	0.39	
5.994	69953	65994	0.943	0.59	
6.027	514088	428155	0.833	4.36	7 Aroclor 1254
6.056	378012	325072	0.860	3.20	
6.169	154351	125775	0.815	1.31	
6.228	120109	63109	0.525	1.01	
6.300	701502	599827	0.855	5.95	7 Aroclor 1254
6.335	126230	111073	0.880	1.07	
6.375	74344	60647	0.816	0.63	
6.443	34233	19876	0.581	0.29	
6.512	29729	27649	0.930	0.25	
6.536	235571	178655	0.758	2.00	
6.607	36815	29017	0.788	0.31	
6.719	47979	41305	0.861	0.40	
6.759	31561	26431	0.837	0.26	
6.803	129897	110305	0.849	1.10	
6.844	33654	23973	0.712	0.28	
6.948	16896	13072	0.774	0.14	
7.005	90785	79102	0.871	0.77	
7.138	27852	16095	0.578	0.23	
7.253	92553	68397	0.739	0.78	
7.776	24601	16237	0.660	0.20	
7.900	9733	7403	0.761	0.08	
8.278	11455	11514	1.005	0.09	
8.380	27407	19837	0.724	0.23	
8.573	1220451	1043440	0.855	10.36	
8.945	34590	22887	0.662	0.29	
9.468	24800	20749	0.837	0.21	
9.962	27633	19326	0.699	0.23	
	11778321	10154991		100.000	

Total unknown % area = 74

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618046.D
Lab Smp Id: 1254-CAL1C Client Smp ID: 1254-CAL1C
Inj Date : 06-MAR-2018 16:57
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-cal1c, 188135:1
Misc Info : 17498,NSAR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 16:57 Cal File: 030618046.D
Als bottle: 24 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1254.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
7 Aroclor 1254					CAS #: 11097-69-1			
5.163	5.162	0.001	578337	0.10000	0.11	0.00- 20.00	100.00(M)	BA
5.408	5.408	0.000	461675	0.10000	0.11	0.00- 20.00	79.83	BA
5.510	5.510	0.000	843524	0.10000	0.11	0.00- 20.00	145.85	BA
6.026	6.027	-0.001	514088	0.10000	0.10	0.00- 20.00	88.89	BA
6.299	6.299	0.000	701502	0.10000	0.11	0.00- 20.00	121.30	BA
Average of Peak Amounts =					0.10800			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618046.D

Date : 06-MAR-2018 16:57

Client ID: 1254-CAL1C

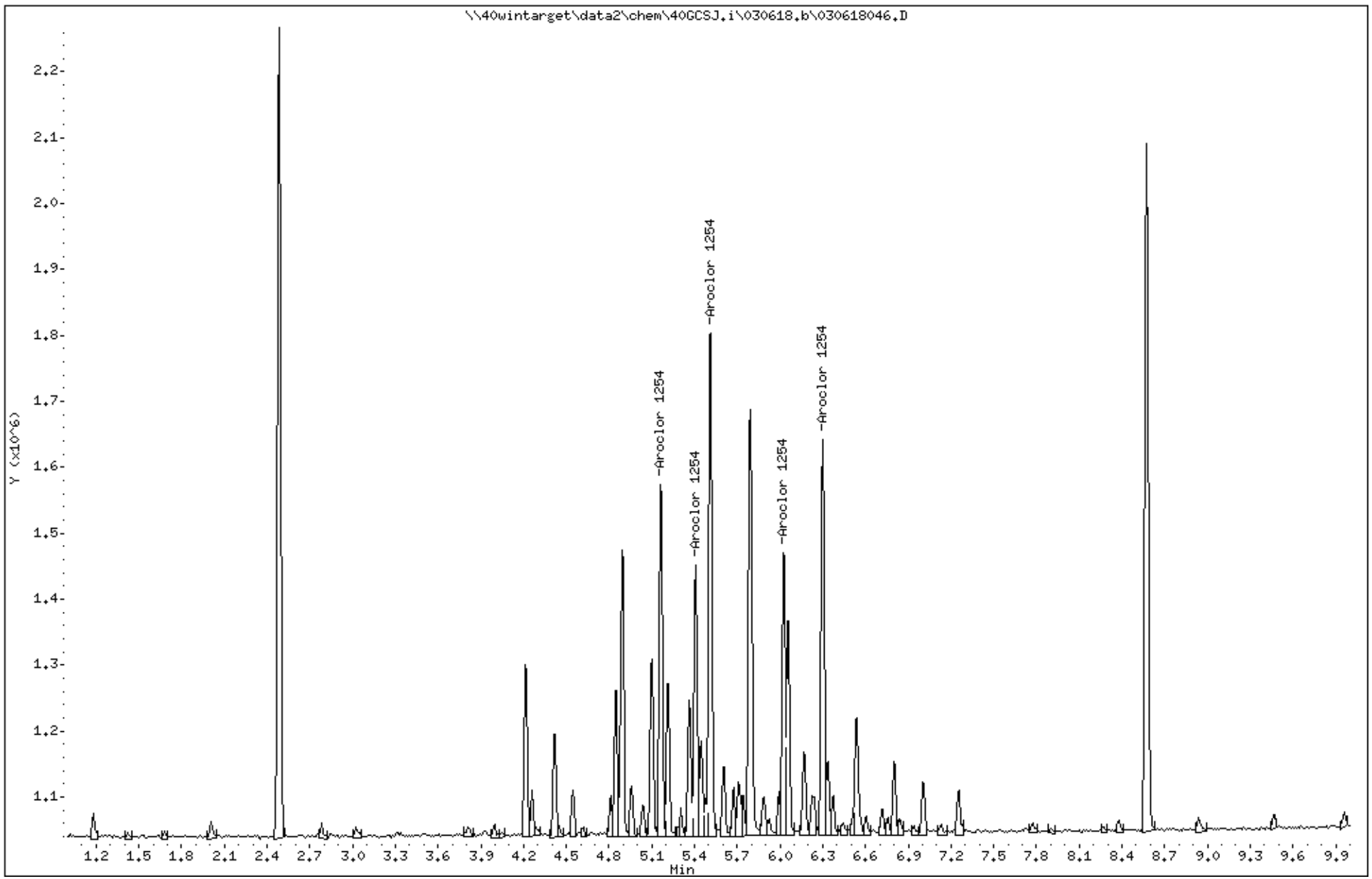
Instrument: 40GCSJ.i

Sample Info: 1254-CAL1C, 188135:1

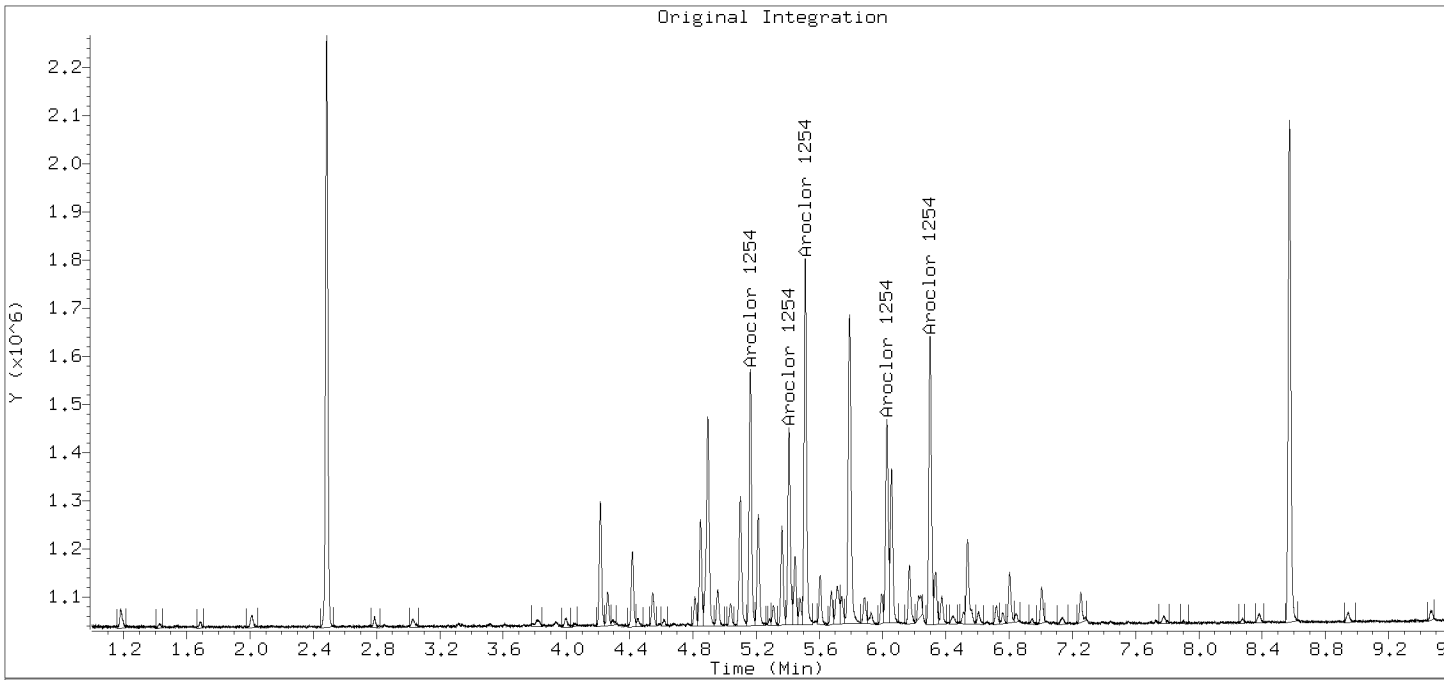
Operator: BLM

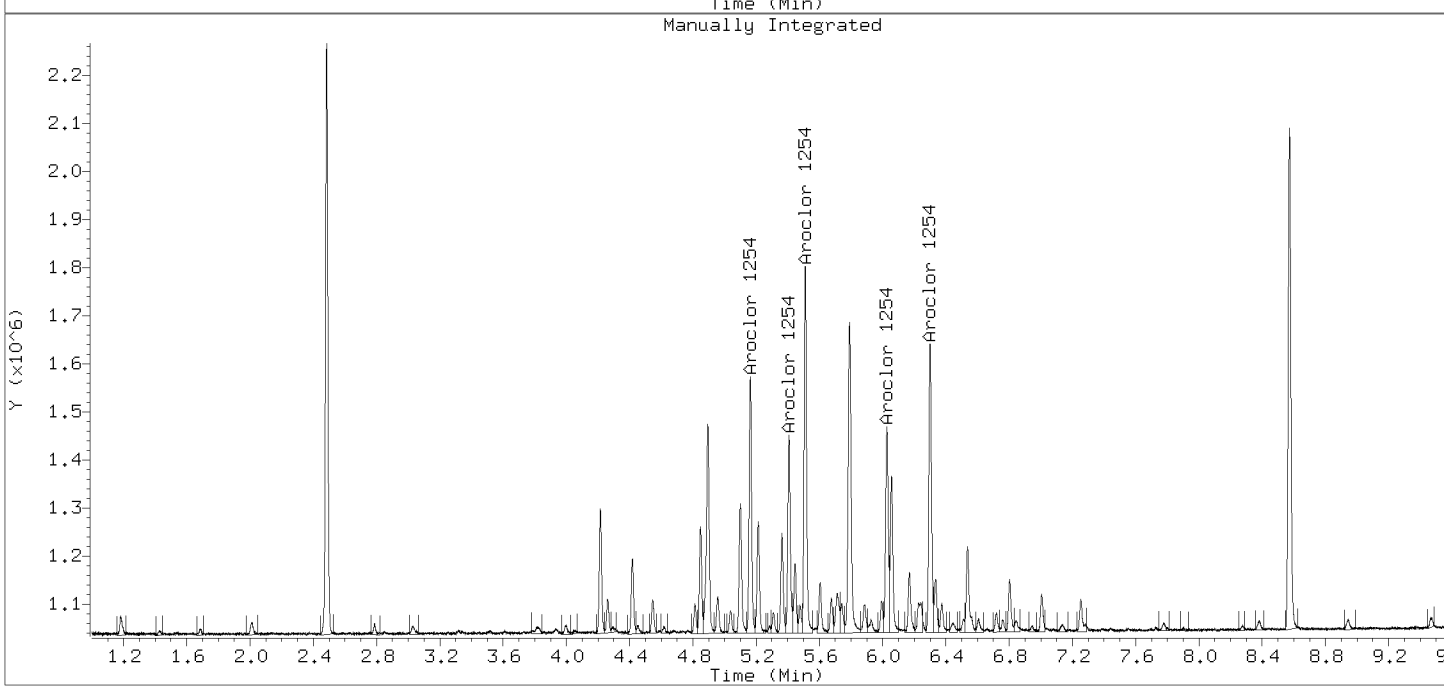
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618046.D (ManInt: NSAR1254.sub Orig: NSAR1254.sub)
Injection Date: 06-MAR-2018 16:57 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1254-CAL1C





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1254	575308	578337	BA
Aroclor 1254	575308	578337	BA
Aroclor 1254	575308	578337	BA
Aroclor 1254	575308	578337	BA
Aroclor 1254	575308	578337	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618048.D
Lab Smp Id: 1254-CAL2C Client Smp ID: 1254-CAL2C
Inj Date : 06-MAR-2018 17:13
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-cal2c, 185553:1
Misc Info : 17498,NSAR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 17:13 Cal File: 030618048.D
Als bottle: 25 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1254.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.180	14785	11446	0.774	0.06		
1.428	22932	16453	0.717	0.10		
2.008	13252	7547	0.570	0.05		
2.484	2443152	2335532	0.956	11.18		
2.785	38923	36879	0.947	0.17		
3.317	15688	15090	0.962	0.06		
3.816	33314	23152	0.695	0.14		
3.936	25391	18861	0.743	0.11		
3.991	19776	14851	0.751	0.08		
4.057	14294	10125	0.708	0.06		
4.215	518990	504810	0.973	2.30		
4.262	130759	134614	1.029	0.57		
4.417	318089	306882	0.965	1.40		
4.453	36792	31401	0.853	0.16		
4.546	146634	140842	0.961	0.64		
4.594	9667	9066	0.938	0.04		
4.619	30811	24715	0.802	0.13		
4.679	14300	9754	0.682	0.06		
4.812	124031	118773	0.958	0.54		
4.848	455414	441589	0.970	2.01		
4.894	1053205	858019	0.815	4.66		
4.957	173883	154163	0.887	0.77		
5.038	101462	94180	0.928	0.44		
5.100	607083	520373	0.857	2.69		
5.163	1130516	1047365	0.926	5.01	7 Aroclor 1254	BA
5.213	500908	455276	0.909	2.22		
5.257	17625	16702	0.948	0.07		
5.285	29337	27985	0.954	0.13		
5.309	96003	86176	0.898	0.42		
5.363	431219	406625	0.943	1.91		
5.407	916372	831698	0.908	4.06	7 Aroclor 1254	BA
5.447	306543	274508	0.895	1.35		
5.478	113703	114036	1.003	0.50		
5.510	1657392	1480187	0.893	7.34	7 Aroclor 1254	BA
5.579	19853	16482	0.830	0.08		
5.605	231410	203474	0.879	1.02		
5.675	151855	139702	0.920	0.67		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.713	234337	153331	0.654	1.03	
5.740	130944	119042	0.909	0.58	
5.790	1692901	1288520	0.761	7.50	
5.884	152797	115170	0.754	0.67	
5.927	77749	50774	0.653	0.34	
5.994	139616	133887	0.959	0.61	
6.026	1030270	853221	0.828	4.56	7 Aroclor 1254
6.056	727544	649744	0.893	3.22	
6.086	209395	142010	0.678	0.92	
6.169	306146	246695	0.806	1.35	
6.228	123149	122142	0.992	0.54	
6.241	143819	124934	0.869	0.63	
6.299	1396395	1154592	0.827	6.18	7 Aroclor 1254
6.334	246981	213346	0.864	1.09	
6.375	147488	117497	0.797	0.65	
6.438	46079	24168	0.524	0.20	
6.512	58184	55972	0.962	0.25	
6.537	454237	352793	0.777	2.01	
6.605	73055	56160	0.769	0.32	
6.660	18073	13693	0.758	0.08	
6.720	93177	76403	0.820	0.41	
6.760	56477	50956	0.902	0.25	
6.802	250222	217408	0.869	1.10	
6.845	76101	47284	0.621	0.33	
6.945	29987	22146	0.739	0.13	
7.005	187120	153304	0.819	0.82	
7.252	146914	128748	0.876	0.65	
7.283	43303	26667	0.616	0.19	
7.557	16777	10505	0.626	0.07	
7.903	15055	9793	0.650	0.06	
8.278	21586	17365	0.804	0.09	
8.572	2251771	1853841	0.823	9.97	
	22563007	19541444		100.000	

Total unknown % area = 73

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618048.D
Lab Smp Id: 1254-CAL2C Client Smp ID: 1254-CAL2C
Inj Date : 06-MAR-2018 17:13
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-cal2c, 185553:1
Misc Info : 17498,NSAR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 17:13 Cal File: 030618048.D
Als bottle: 25 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1254.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
7 Aroclor 1254					CAS #: 11097-69-1			
5.162	5.162	0.000	1130515	0.20000	0.22	0.00- 20.00	100.00(M)	BA
5.407	5.408	-0.001	916371	0.20000	0.21	0.00- 20.00	81.06	BA
5.510	5.510	0.000	1657392	0.20000	0.21	0.00- 20.00	146.61	BA
6.026	6.027	-0.001	1030270	0.20000	0.21	0.00- 20.00	91.13	BA
6.299	6.299	0.000	1396394	0.20000	0.21	0.00- 20.00	123.52	BA
Average of Peak Amounts =					0.21200			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

BA: Indicates that the baseline had to be adjusted correctly by the analyst.

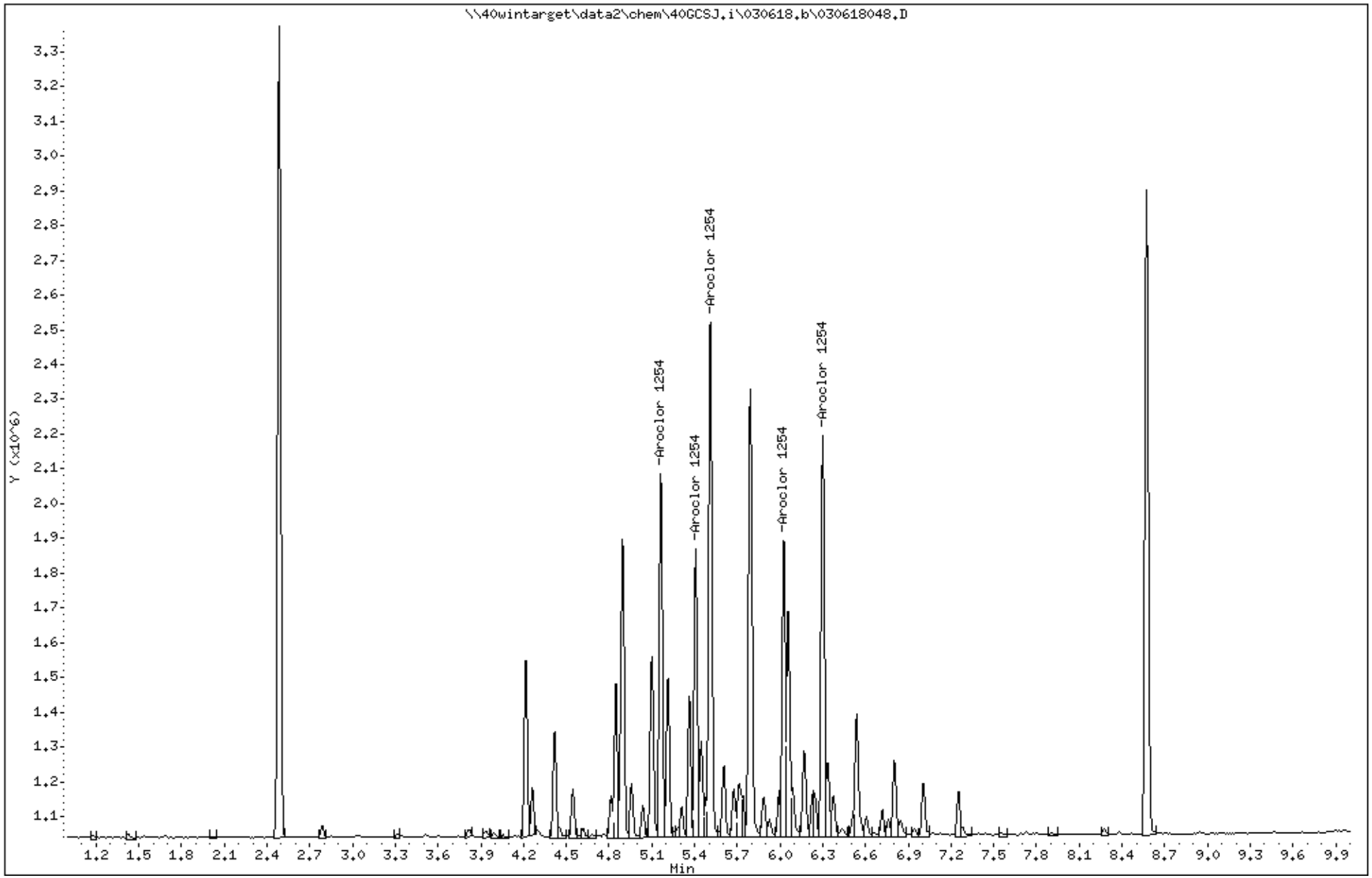
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618048.D
Date : 06-MAR-2018 17:13
Client ID: 1254-CAL2C
Sample Info: 1254-CAL2C, 185553:1

Instrument: 40GCSJ.i

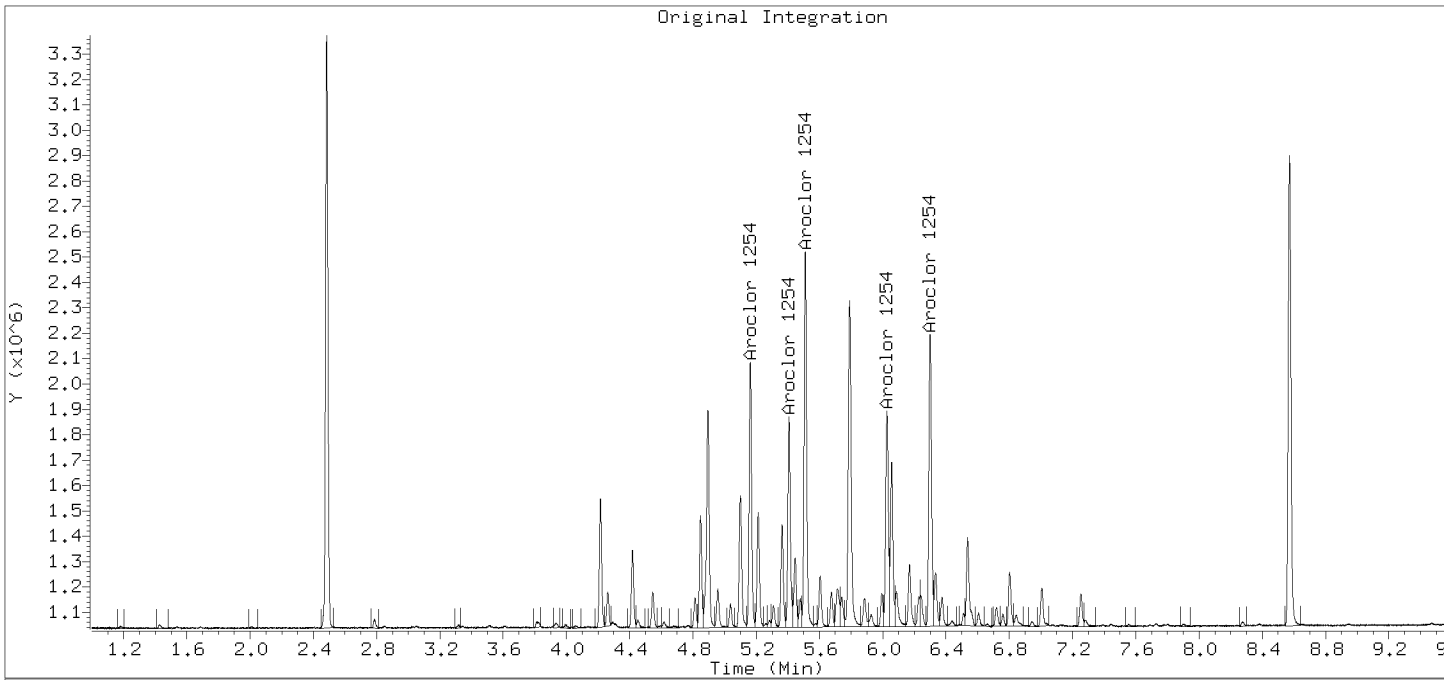
Operator: BLM

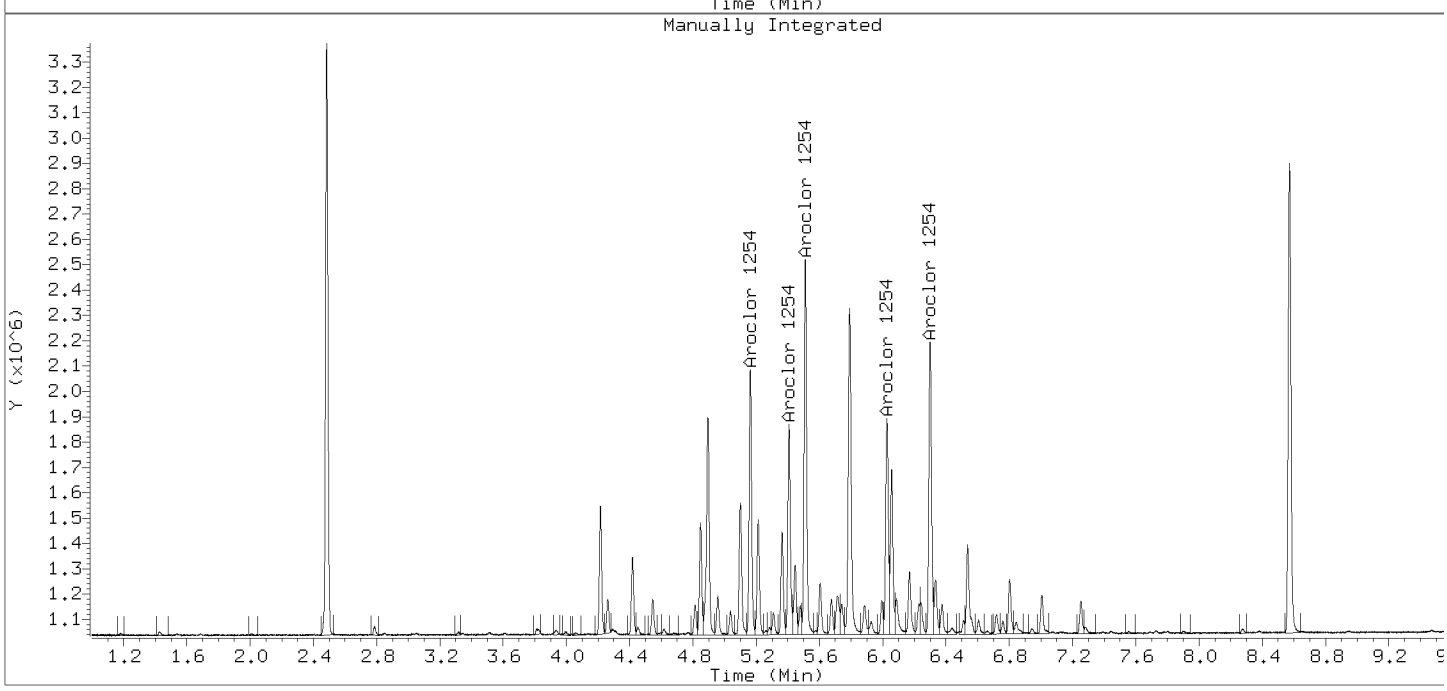
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618048.D (ManInt: NSAR1254.sub Orig: NSAR1254.sub)
Injection Date: 06-MAR-2018 17:13 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1254-CAL2C





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1254	1126550	1130515	BA
Aroclor 1254	1126550	1130515	BA
Aroclor 1254	1126550	1130515	BA
Aroclor 1254	1126550	1130515	BA
Aroclor 1254	1126550	1130515	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618050.D
Lab Smp Id: 1254-CAL3C Client Smp ID: 1254-CAL3C
Inj Date : 06-MAR-2018 17:30
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-cal3c, 185554:1
Misc Info : 17498,NSAR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 17:30 Cal File: 030618050.D
Als bottle: 26 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1254.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.182	51337	40044	0.780	0.09		
1.429	39957	34317	0.859	0.07		
1.537	17914	13995	0.781	0.03		
1.685	15629	15398	0.985	0.02		
2.011	29599	20853	0.705	0.05		
2.485	6057898	5851038	0.966	12.02		
2.686	9516	7676	0.807	0.01		
2.787	95008	87358	0.919	0.18		
2.851	23819	20877	0.877	0.04		
3.052	13713	14987	1.093	0.02		
3.316	31189	30919	0.991	0.05		
3.344	21096	17017	0.807	0.04		
3.515	29295	21880	0.747	0.05		
3.610	20788	17635	0.848	0.03		
3.728	13013	9960	0.765	0.02		
3.815	75390	52210	0.693	0.14		
3.933	62381	42408	0.680	0.11		
3.996	40445	30149	0.745	0.07		
4.057	24255	18114	0.747	0.04		
4.215	1217908	1150954	0.945	2.32		
4.262	330320	319433	0.967	0.63		
4.292	64830	48630	0.750	0.12		
4.418	748177	726093	0.970	1.42		
4.452	73920	66424	0.899	0.14		
4.545	335088	319422	0.953	0.63		
4.592	16526	15457	0.935	0.03		
4.619	59193	52479	0.887	0.11		
4.685	17734	16983	0.958	0.03		
4.770	20117	19880	0.988	0.03		
4.813	284745	275889	0.969	0.54		
4.849	1084246	1045959	0.965	2.06		
4.895	2405586	1902763	0.791	4.58		
4.957	390371	342893	0.878	0.74		
5.037	238296	218476	0.917	0.45		
5.100	1405616	1219340	0.867	2.68		
5.164	2560293	2304428	0.900	4.88	7 Aroclor 1254	BA
5.213	1173729	1059080	0.902	2.23		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.285	60363	60152	0.996	0.11	
5.309	214942	193512	0.900	0.41	
5.364	1020588	935288	0.916	1.94	
5.407	2112521	1886528	0.893	4.03	7 Aroclor 1254
5.447	733518	649777	0.886	1.39	
5.479	265192	257135	0.970	0.50	
5.511	3811784	3385999	0.888	7.27	7 Aroclor 1254
5.579	32531	33382	1.026	0.06	
5.605	530818	484241	0.912	1.01	
5.676	348702	323329	0.927	0.66	
5.714	533476	346229	0.649	1.01	
5.742	324759	270812	0.834	0.61	
5.791	3843360	2976827	0.775	7.33	
5.886	336244	269243	0.801	0.64	
5.927	179445	112871	0.629	0.34	
5.994	317667	298687	0.940	0.60	
6.026	2413214	1944030	0.806	4.60	7 Aroclor 1254
6.056	1748224	1477442	0.845	3.33	
6.170	686623	578812	0.843	1.31	
6.229	279467	280903	1.005	0.53	
6.242	317134	279276	0.881	0.60	
6.300	3184410	2766550	0.869	6.07	7 Aroclor 1254
6.334	582664	515473	0.885	1.11	
6.374	330007	275263	0.834	0.62	
6.438	89310	51831	0.580	0.17	
6.487	18679	18109	0.970	0.03	
6.511	122714	122347	0.997	0.23	
6.537	1081766	870038	0.804	2.06	
6.607	157551	128075	0.813	0.30	
6.662	30905	25338	0.820	0.05	
6.718	210754	178569	0.847	0.40	
6.761	129400	110612	0.855	0.24	
6.802	599534	539615	0.900	1.14	
6.844	171759	108076	0.629	0.32	
6.945	57172	47423	0.829	0.10	
7.006	434841	362564	0.834	0.82	
7.077	18727	15733	0.840	0.03	
7.130	24196	17055	0.705	0.04	
7.252	342578	310115	0.905	0.65	
7.282	72487	60104	0.829	0.13	
7.390	19578	16122	0.823	0.03	
7.445	35210	22193	0.630	0.06	
7.553	26390	18609	0.705	0.05	
7.694	16316	14388	0.882	0.03	
7.729	31518	23387	0.742	0.06	
7.778	19445	16730	0.860	0.03	
7.798	20263	16018	0.790	0.03	
7.904	22590	18864	0.835	0.04	
8.276	52953	39504	0.746	0.10	
8.382	28017	19746	0.705	0.05	
8.572	5213644	4428280	0.849	9.94	
8.943	21557	16555	0.768	0.04	
9.466	15645	11531	0.737	0.02	
9.966	18425	14389	0.781	0.03	
	52410519	45695099		100.000	

Total unknown % area = 73

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618050.D
Lab Smp Id: 1254-CAL3C Client Smp ID: 1254-CAL3C
Inj Date : 06-MAR-2018 17:30
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-cal3c, 185554:1
Misc Info : 17498,NSAR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 17:30 Cal File: 030618050.D
Als bottle: 26 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1254.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
7 Aroclor 1254					CAS #: 11097-69-1			
5.163	5.162	0.001	2560292	0.50000	0.49	0.00- 20.00	100.00(M)	BA
5.407	5.408	-0.001	2112521	0.50000	0.49	0.00- 20.00	82.51	BA
5.510	5.510	0.000	3811784	0.50000	0.49	0.00- 20.00	148.88	BA
6.026	6.027	-0.001	2413214	0.50000	0.50	0.00- 20.00	94.26	BA
6.299	6.299	0.000	3184409	0.50000	0.49	0.00- 20.00	124.38	BA
Average of Peak Amounts =					0.49200			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618050.D

Date : 06-MAR-2018 17:30

Client ID: 1254-CAL3C

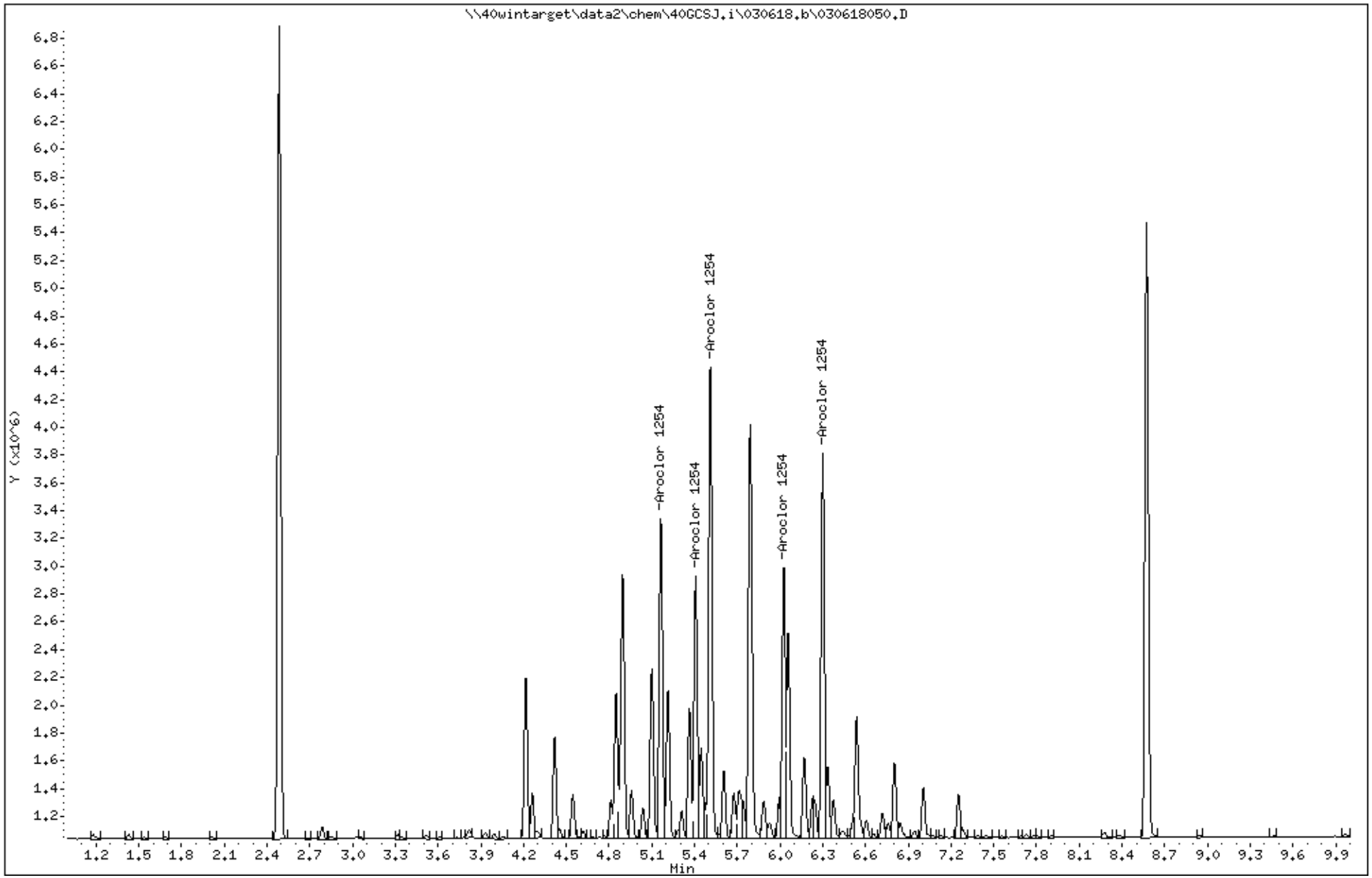
Instrument: 40GCSJ.i

Sample Info: 1254-CAL3C, 185554:1

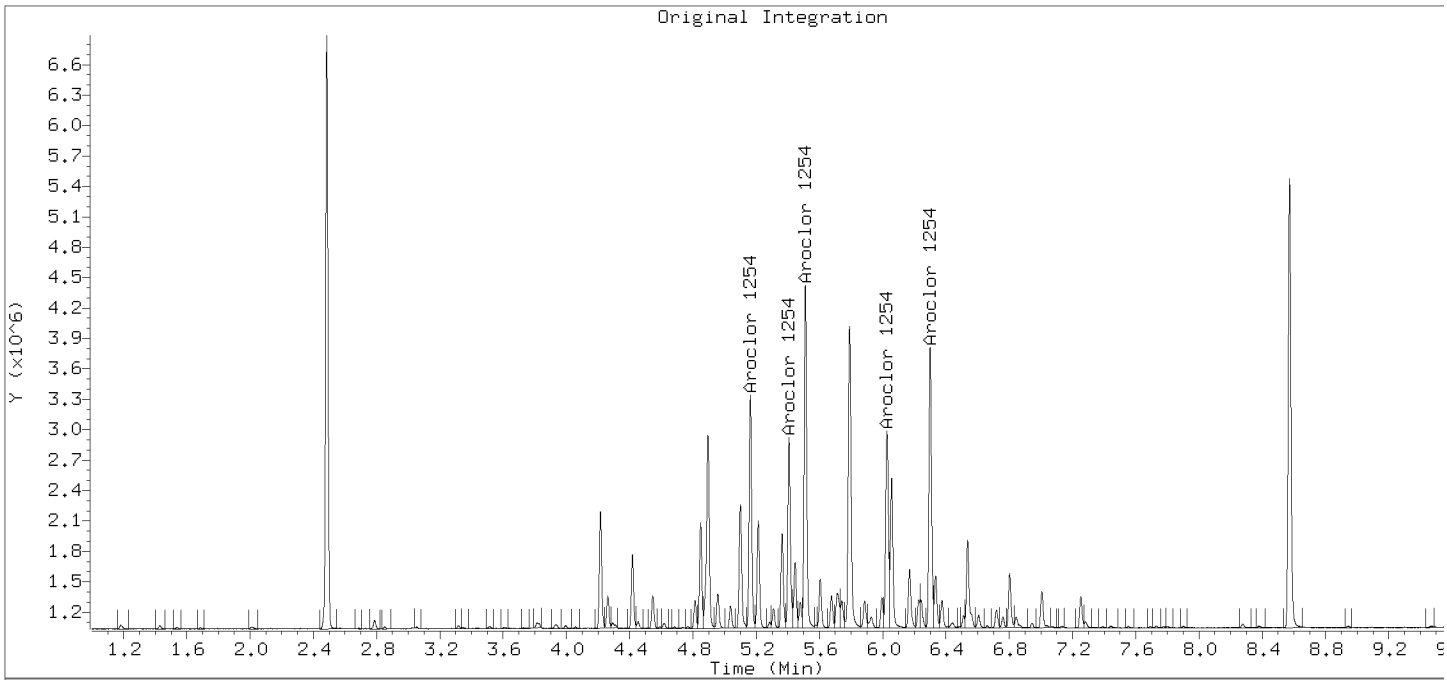
Operator: BLM

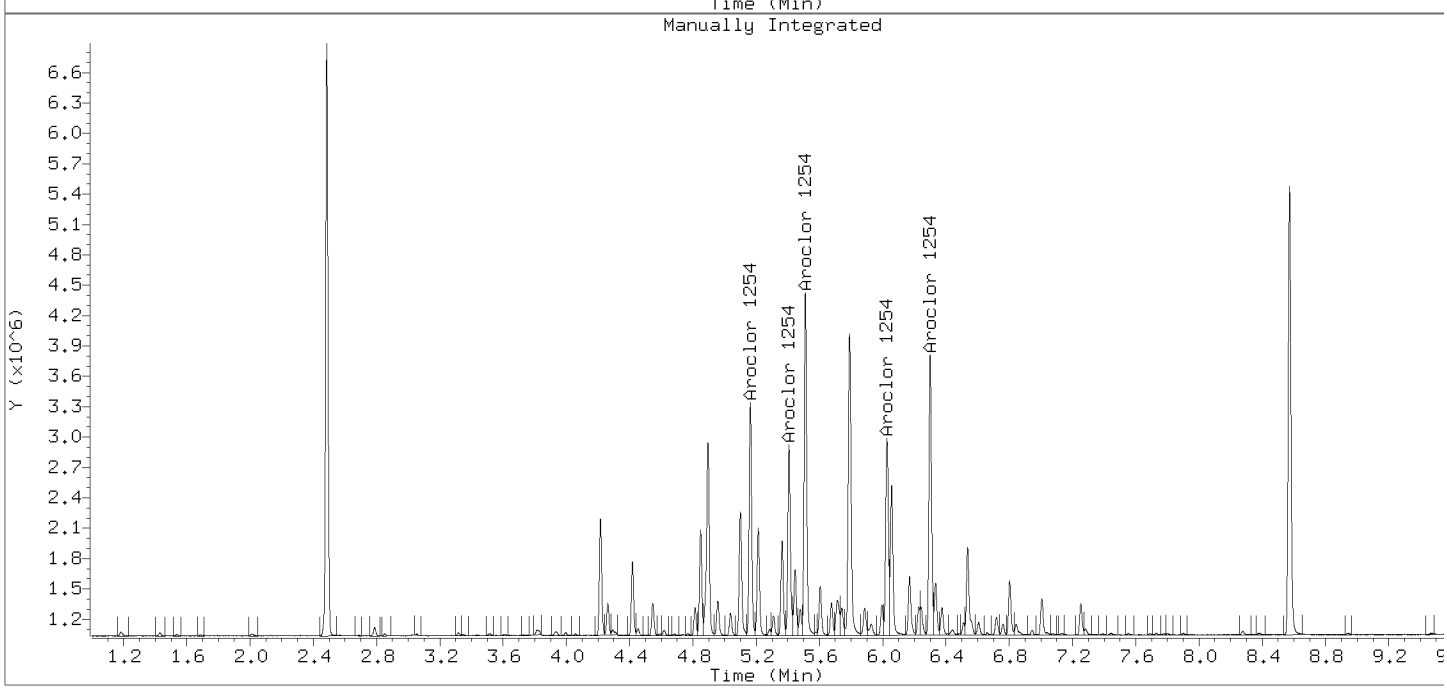
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618050.D (ManInt: NSAR1254.sub Orig: NSAR1254.sub)
Injection Date: 06-MAR-2018 17:30 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1254-CAL3C





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1254	2551487	2560292	BA
Aroclor 1254	2551487	2560292	BA
Aroclor 1254	2551487	2560292	BA
Aroclor 1254	2551487	2560292	BA
Aroclor 1254	2551487	2560292	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618052.D
Lab Smp Id: 1254-CAL4C Client Smp ID: 1254-CAL4C
Inj Date : 06-MAR-2018 17:46
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-cal4c, 185555:1
Misc Info : 17498,NSAR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 17:46 Cal File: 030618052.D
Als bottle: 27 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1254.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.181	20338	17643	0.867	0.02		
1.428	65922	60336	0.915	0.07		
1.538	31776	24460	0.770	0.03		
2.485	11777090	11571932	0.983	14.42		
2.787	164077	161759	0.986	0.19		
2.852	35610	28522	0.801	0.04		
3.052	34848	31099	0.892	0.04		
3.318	49721	48315	0.972	0.05		
3.345	27672	27798	1.005	0.03		
3.434	12631	8647	0.685	0.01		
3.512	47159	33510	0.711	0.05		
3.609	31888	32717	1.026	0.03		
3.732	12093	11883	0.983	0.01		
3.757	10828	11345	1.048	0.01		
3.814	107287	73196	0.682	0.12		
3.934	94015	65238	0.694	0.11		
3.996	37751	35743	0.947	0.04		
4.059	25966	21513	0.829	0.03		
4.136	10670	12088	1.133	0.01		
4.215	1826293	1728963	0.947	2.16		
4.262	495863	484615	0.977	0.58		
4.293	82438	62200	0.755	0.09		
4.418	1148007	1108250	0.965	1.35		
4.454	124829	105675	0.847	0.14		
4.545	520797	506348	0.972	0.61		
4.592	22494	21617	0.961	0.02		
4.617	91512	86993	0.951	0.10		
4.682	29611	23905	0.807	0.03		
4.738	13639	11326	0.830	0.01		
4.768	31653	29681	0.938	0.03		
4.813	436264	431646	0.989	0.51		
4.848	1661944	1593892	0.959	1.96		
4.895	3639982	2884202	0.792	4.30		
4.958	608805	546410	0.898	0.72		
5.038	362095	340028	0.939	0.42		
5.100	2123049	1825949	0.860	2.51		
5.163	3886482	3507162	0.902	4.59	7 Aroclor 1254	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.213	1776836	1628217	0.916	2.10	
5.284	96560	90819	0.941	0.11	
5.309	325641	297506	0.914	0.38	
5.364	1556302	1425397	0.916	1.84	
5.407	3251705	3006981	0.925	3.84	7 Aroclor 1254
5.446	1124584	1040705	0.925	1.33	
5.479	401904	378797	0.943	0.47	
5.510	5821617	5399486	0.927	6.88	7 Aroclor 1254
5.575	58238	53397	0.917	0.06	
5.604	831473	749483	0.901	0.98	
5.676	530127	502418	0.948	0.62	
5.713	822568	545715	0.663	0.97	
5.742	512983	417833	0.815	0.60	
5.791	5870686	4701193	0.801	6.94	
5.885	522465	412152	0.789	0.61	
5.927	275865	173515	0.629	0.32	
5.994	487921	462752	0.948	0.57	
6.027	3710616	3100778	0.836	4.38	7 Aroclor 1254
6.057	2650507	2221374	0.838	3.13	
6.169	1066850	928060	0.870	1.26	
6.228	444612	436676	0.982	0.52	
6.243	480121	416542	0.868	0.56	
6.300	4897868	4117516	0.841	5.79	7 Aroclor 1254
6.334	897566	789045	0.879	1.06	
6.374	507098	430542	0.849	0.59	
6.441	124903	73312	0.587	0.14	
6.487	27937	25771	0.922	0.03	
6.510	183907	185808	1.010	0.21	
6.536	1677948	1278798	0.762	1.98	
6.605	242982	201019	0.827	0.28	
6.661	41322	38186	0.924	0.04	
6.719	331298	275607	0.832	0.39	
6.758	194741	175185	0.900	0.23	
6.802	936736	798625	0.853	1.10	
6.844	260030	171830	0.661	0.30	
6.907	13593	12018	0.884	0.01	
6.942	85729	72281	0.843	0.10	
7.006	675731	578164	0.856	0.79	
7.077	32184	26109	0.811	0.03	
7.122	28643	17643	0.616	0.03	
7.253	534471	485017	0.907	0.63	
7.282	121561	99258	0.817	0.14	
7.331	10539	7109	0.675	0.01	
7.390	27785	21939	0.790	0.03	
7.442	42859	32217	0.752	0.05	
7.555	39938	25488	0.638	0.04	
7.691	21961	21683	0.987	0.02	
7.727	55370	42642	0.770	0.06	
7.799	40475	27058	0.669	0.04	
7.900	38857	28824	0.742	0.04	
8.033	10655	8635	0.810	0.01	
8.277	84696	72245	0.853	0.10	
8.379	22615	16331	0.722	0.02	
8.571	9861374	8409353	0.853	11.66	
8.942	30130	19515	0.648	0.03	
9.085	14868	10676	0.718	0.01	
9.470	49128	26719	0.544	0.05	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
9.961	49432	33887	0.686	0.05	
	84540213	74622457		100.000	

Total unknown % area = 74

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618052.D
Lab Smp Id: 1254-CAL4C Client Smp ID: 1254-CAL4C
Inj Date : 06-MAR-2018 17:46
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-cal4c, 185555:1
Misc Info : 17498,NSAR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 17:46 Cal File: 030618052.D
Als bottle: 27 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1254.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
7 Aroclor 1254					CAS #: 11097-69-1			
5.162	5.162	0.000	3886481	0.80000	0.74	0.00- 20.00	100.00(M)	BA
5.407	5.408	-0.001	3251705	0.80000	0.76	0.00- 20.00	83.67	BA
5.509	5.510	-0.001	5821617	0.80000	0.75	0.00- 20.00	149.79	BA
6.027	6.027	0.000	3710615	0.80000	0.76	0.00- 20.00	95.47	BA
6.299	6.299	0.000	4897867	0.80000	0.75	0.00- 20.00	126.02	BA
Average of Peak Amounts =					0.75200			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618052.D

Date : 06-MAR-2018 17:46

Client ID: 1254-CAL4C

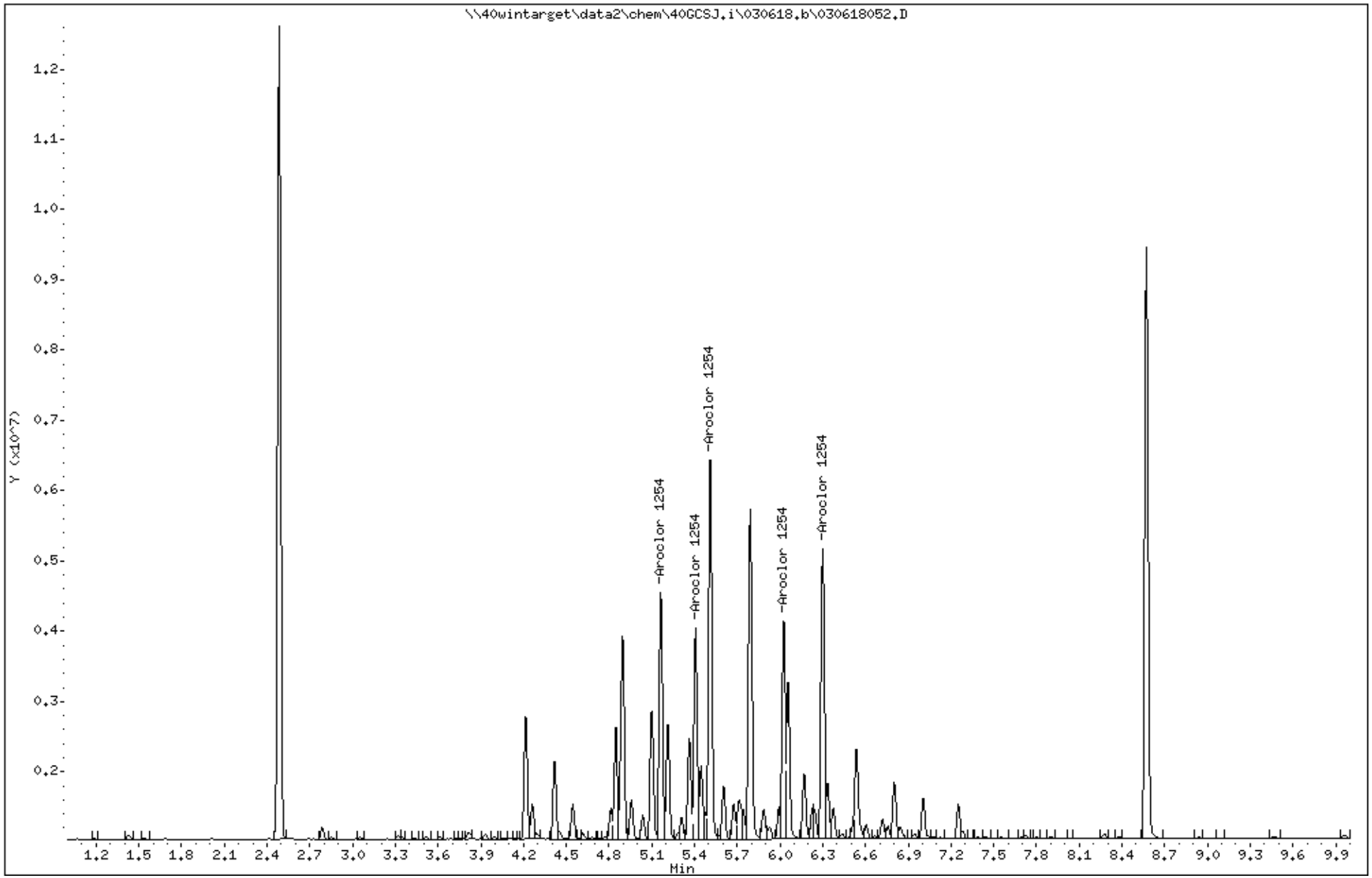
Instrument: 40GCSJ.i

Sample Info: 1254-CAL4C, 185555:1

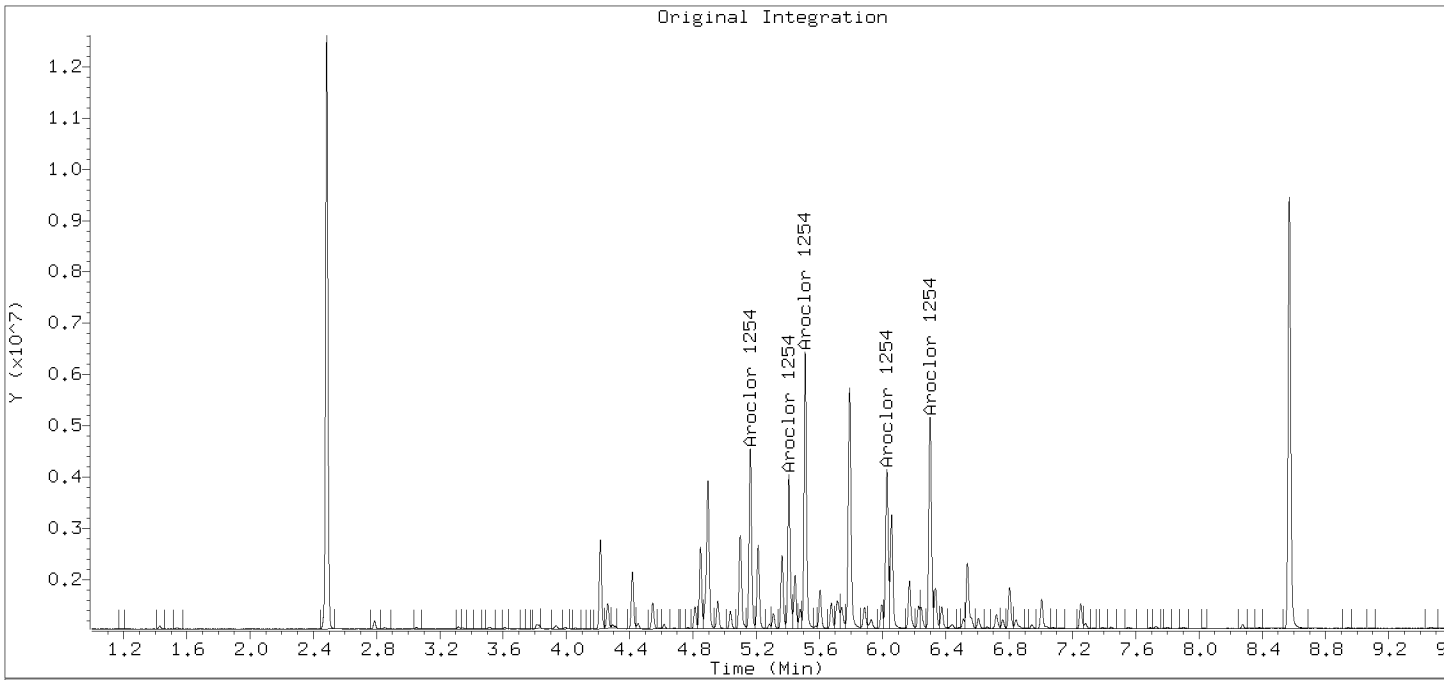
Operator: BLM

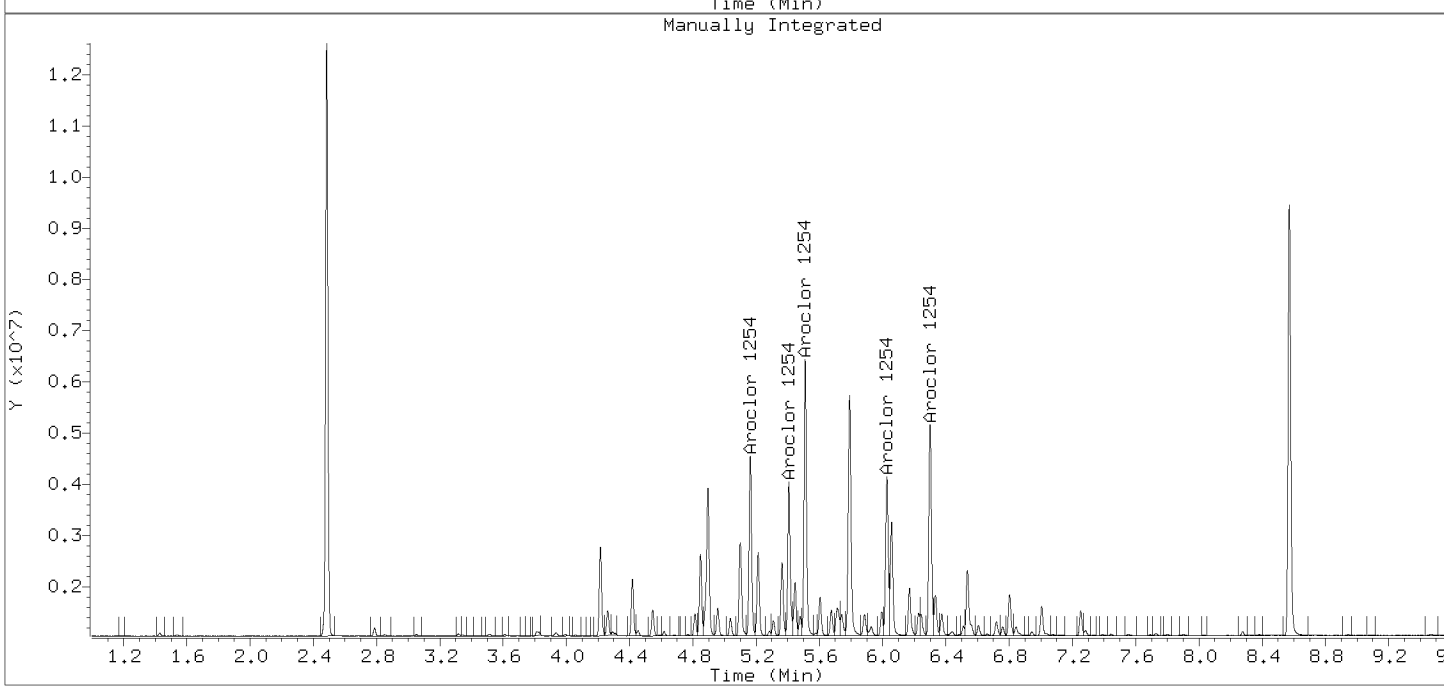
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618052.D (ManInt: NSAR1254.sub Orig: NSAR1254.sub)
Injection Date: 06-MAR-2018 17:46 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1254-CAL4C





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1254	3881378	3886481	BA
Aroclor 1254	3881378	3886481	BA
Aroclor 1254	3881378	3886481	BA
Aroclor 1254	3881378	3886481	BA
Aroclor 1254	3881378	3886481	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618054.D
Lab Smp Id: 1254-CAL5C Client Smp ID: 1254-CAL5C
Inj Date : 06-MAR-2018 18:02
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-cal5c, 185556:1
Misc Info : 17498,NSAR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 18:02 Cal File: 030618054.D
Als bottle: 28 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1254.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.181	15243	11962	0.785	0.01		
1.428	96747	89041	0.920	0.08		
1.540	40825	35144	0.861	0.03		
1.682	9327	8894	0.954	0.00		
2.008	10288	9685	0.941	0.00		
2.412	10350	7112	0.687	0.00		
2.485	17725886	17260144	0.974	16.66		
2.787	243100	236365	0.972	0.22		
2.851	36673	32993	0.900	0.03		
3.053	49195	43436	0.883	0.04		
3.319	55642	53004	0.953	0.05		
3.344	37001	30263	0.818	0.03		
3.514	61454	41534	0.676	0.05		
3.611	48883	46459	0.950	0.04		
3.734	9700	13664	1.409	0.00		
3.755	14530	9896	0.681	0.01		
3.814	160653	100699	0.627	0.14		
3.935	113785	77754	0.683	0.10		
3.993	48360	45579	0.942	0.04		
4.058	31144	26153	0.840	0.02		
4.136	14642	14082	0.962	0.01		
4.215	2246411	2105306	0.937	2.04		
4.262	624542	621927	0.996	0.56		
4.292	114086	82473	0.723	0.10		
4.418	1403386	1353229	0.964	1.27		
4.453	133440	127351	0.954	0.12		
4.546	635904	613877	0.965	0.57		
4.594	11699	17033	1.456	0.01		
4.617	92187	94751	1.028	0.08		
4.683	32935	28854	0.876	0.03		
4.735	16261	13245	0.815	0.01		
4.770	37428	36501	0.975	0.03		
4.814	542039	547513	1.010	0.49		
4.848	2045079	1950354	0.954	1.86		
4.896	4464777	3447952	0.772	4.07		
4.957	749670	674930	0.900	0.68		
5.037	447740	427307	0.954	0.40		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.100	2603383	2206600	0.848	2.37	
5.163	4761607	4381606	0.920	4.34	7 Aroclor 1254
5.212	2175024	1931040	0.888	1.98	
5.284	116466	109643	0.941	0.10	
5.309	404504	368472	0.911	0.36	
5.364	1900530	1737928	0.914	1.73	
5.407	4016995	3641293	0.906	3.66	7 Aroclor 1254
5.446	1380053	1254397	0.909	1.25	
5.477	506726	475165	0.938	0.46	
5.511	7207531	6391511	0.887	6.57	7 Aroclor 1254
5.577	67153	63150	0.940	0.06	
5.605	1023947	924404	0.903	0.93	
5.676	661316	643905	0.974	0.60	
5.714	1030048	680082	0.660	0.93	
5.740	635529	535004	0.842	0.57	
5.792	7230180	5601138	0.775	6.59	
5.886	645954	520462	0.806	0.58	
5.927	344827	212793	0.617	0.31	
5.995	613062	588236	0.960	0.55	
6.027	4591491	3986858	0.868	4.18	7 Aroclor 1254
6.056	3223664	2733295	0.848	2.93	
6.169	1328008	1109796	0.836	1.21	
6.228	1042954	573707	0.550	0.95	
6.300	6047377	5045174	0.834	5.51	7 Aroclor 1254
6.334	1117787	991343	0.887	1.01	
6.375	640740	547643	0.855	0.58	
6.437	148401	91961	0.620	0.13	
6.511	228443	228993	1.002	0.20	
6.537	2072914	1543722	0.745	1.89	
6.605	305742	240734	0.787	0.27	
6.662	54744	45287	0.827	0.04	
6.719	410032	340851	0.831	0.37	
6.759	242534	215295	0.888	0.22	
6.803	1169372	1018756	0.871	1.06	
6.844	311718	214607	0.688	0.28	
6.945	110710	91840	0.830	0.10	
7.006	832801	710785	0.853	0.75	
7.076	39055	35215	0.902	0.03	
7.124	42412	24716	0.583	0.03	
7.253	667072	625157	0.937	0.60	
7.283	149721	120610	0.806	0.13	
7.392	31016	25016	0.807	0.02	
7.444	53853	38361	0.712	0.04	
7.554	43717	29353	0.671	0.03	
7.693	32182	28611	0.889	0.02	
7.731	75133	56693	0.755	0.06	
7.801	54585	36993	0.678	0.04	
7.902	45857	33249	0.725	0.04	
8.278	123330	103442	0.839	0.11	
8.379	26036	20581	0.790	0.02	
8.572	14526385	12123277	0.835	13.24	
8.943	32605	19326	0.593	0.02	
9.087	19995	15238	0.762	0.01	
9.471	36056	22732	0.630	0.03	
9.962	37005	22458	0.607	0.03	
	109671291	95714970		100.000	

Total unknown % area = 76

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618054.D
Lab Smp Id: 1254-CAL5C Client Smp ID: 1254-CAL5C
Inj Date : 06-MAR-2018 18:02
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-cal5c, 185556:1
Misc Info : 17498,NSAR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 18:02 Cal File: 030618054.D
Als bottle: 28 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1254.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
7 Aroclor 1254					CAS #: 11097-69-1			
5.163	5.162	0.001	4761607	1.00000	0.91	0.00- 20.00	100.00(M)	BA
5.407	5.408	-0.001	4016994	1.00000	0.93	0.00- 20.00	84.36	BA
5.510	5.510	0.000	7207530	1.00000	0.93	0.00- 20.00	151.37	BA
6.027	6.027	0.000	4591491	1.00000	0.94	0.00- 20.00	96.43	BA
6.299	6.299	0.000	6047377	1.00000	0.93	0.00- 20.00	127.00	BA
Average of Peak Amounts =					0.92800			

QC Flag Legend

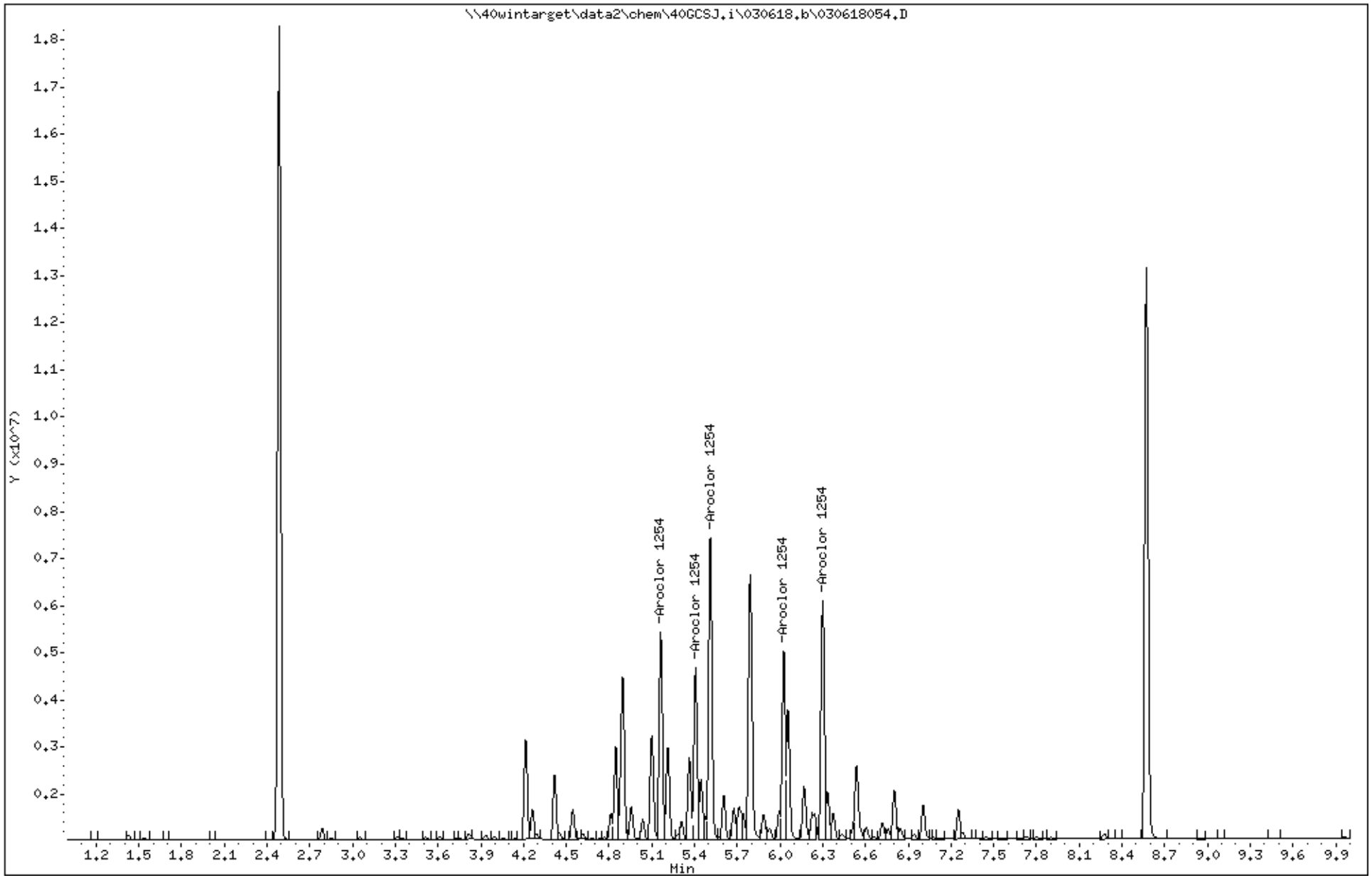
M - Compound response manually integrated.

Review Codes Legend

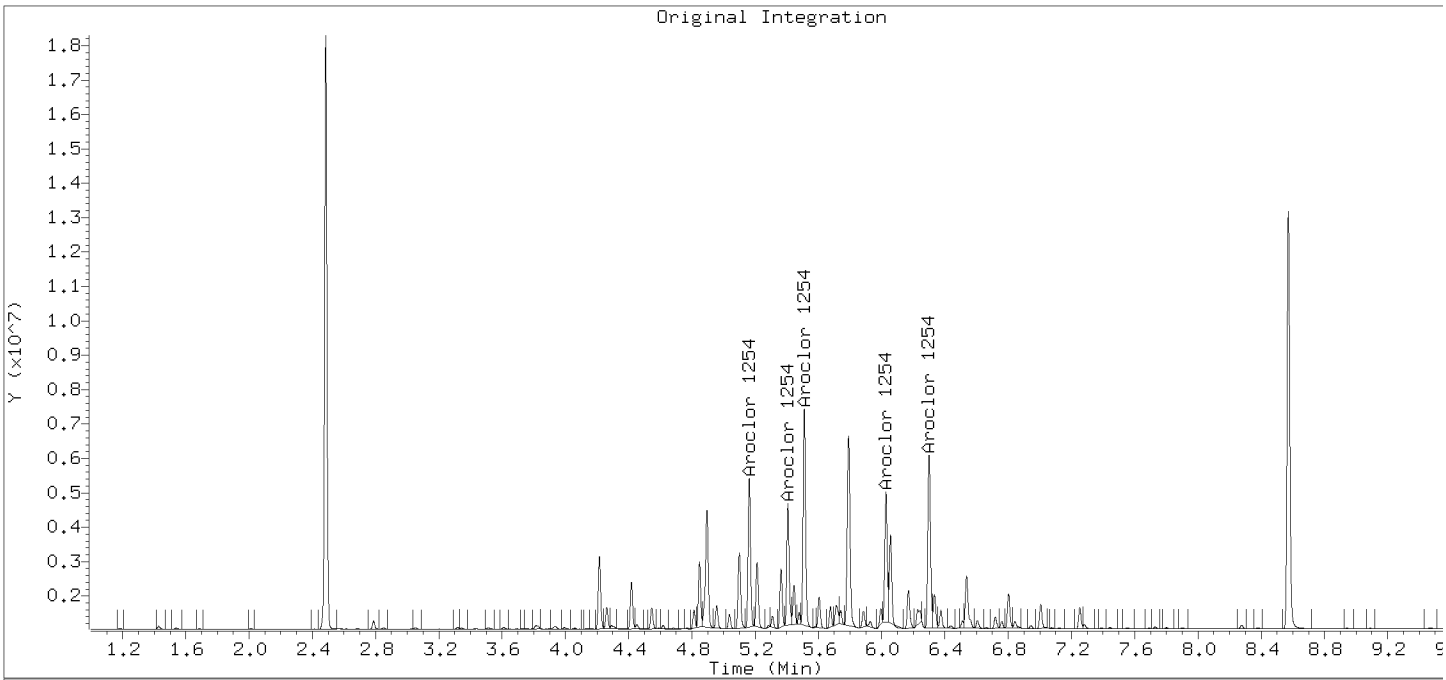
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

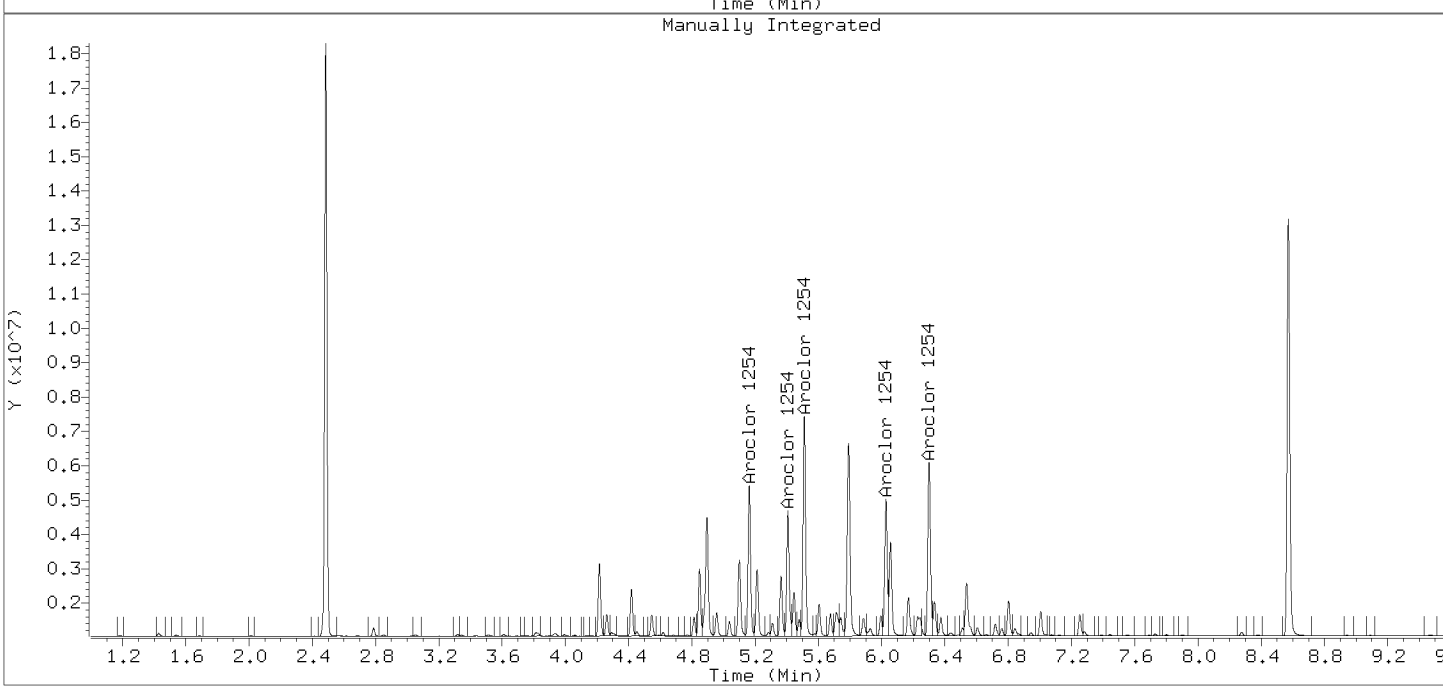
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618054.D
Date : 06-MAR-2018 18:02
Client ID: 1254-CAL5C
Sample Info: 1254-CAL5C, 185556:1

Instrument: 40GCSJ.i
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618054.D (ManInt: NSAR1254.sub Orig: NSAR1254.sub)
Injection Date: 06-MAR-2018 18:02 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1254-CAL5C





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1254	4578985	4761607	BA
Aroclor 1254	4578985	4761607	BA
Aroclor 1254	4578985	4761607	BA
Aroclor 1254	4578985	4761607	BA
Aroclor 1254	4578985	4761607	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618058.D
Lab Smp Id: 1660-CAL1A Client Smp ID: 1660-CAL1A
Inj Date : 06-MAR-2018 18:34
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-cal1a, 188136:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 18:34 Cal File: 030618058.D
Als bottle: 30 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.184	75769	59956	0.791	0.39		
1.428	18267	12499	0.684	0.09		
1.686	19257	17034	0.885	0.10		
2.010	41793	33612	0.804	0.22		
2.405	34035	25626	0.753	0.17		
2.485	1265501	1240700	0.980	7.14	$ 2 Tetrachloro-m-xylene	
2.687	45905	38796	0.845	0.24		
2.791	69017	64076	0.928	0.36		
2.850	244595	230348	0.942	1.29		
3.030	26125	23948	0.917	0.13		
3.053	41274	35596	0.862	0.21		
3.319	334670	316544	0.946	1.76	5 Aroclor 1016	BA
3.345	198504	179987	0.907	1.04		
3.434	61488	51551	0.838	0.32		
3.514	336132	236249	0.703	1.77	5 Aroclor 1016	BA
3.732	87942	87307	0.993	0.46		
3.756	56569	52611	0.930	0.29		
3.827	961910	568396	0.591	5.07	5 Aroclor 1016	BA
3.929	407299	336226	0.826	2.14	5 Aroclor 1016	BA
3.995	291299	270962	0.930	1.53	5 Aroclor 1016	BA
4.057	91678	78986	0.862	0.48		
4.137	38165	30755	0.806	0.20		
4.215	245118	232129	0.947	1.29		
4.262	215370	204306	0.949	1.13		
4.294	97069	97854	1.008	0.51		
4.311	121075	108897	0.899	0.63		
4.418	296094	277838	0.938	1.56		
4.452	228098	168917	0.741	1.20		
4.546	376428	345686	0.918	1.98		
4.618	89285	79390	0.889	0.47		
4.725	18650	14732	0.790	0.09		
4.768	15175	13986	0.922	0.08		
4.814	70800	67479	0.953	0.37		
4.847	108064	102590	0.949	0.57		
4.895	365187	264463	0.724	1.92		
4.959	28108	18371	0.654	0.14		
5.037	24776	19872	0.802	0.13		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.100	75151	62358	0.830	0.39	
5.163	285696	262413	0.919	1.50	
5.214	17586	14232	0.809	0.09	
5.362	21031	19306	0.918	0.11	
5.407	87223	72021	0.826	0.46	
5.479	114689	109517	0.955	0.60	
5.511	195439	178257	0.912	1.03	
5.676	287789	270234	0.939	1.51	
5.710	226208	125913	0.557	1.19	
5.787	739489	648842	0.877	3.90	
5.884	50381	44276	0.879	0.26	
5.931	25620	20410	0.797	0.13	
5.994	121209	109219	0.901	0.63	
6.030	272564	261055	0.958	1.43	
6.056	810958	700847	0.864	4.27	
6.170	497456	309560	0.622	2.62	
6.257	116495	69428	0.596	0.61	
6.300	956999	807332	0.844	5.04	8 Aroclor 1260
6.335	137669	122786	0.892	0.72	
6.372	38735	30140	0.778	0.20	
6.433	122734	90057	0.734	0.64	
6.491	23519	28668	1.219	0.12	
6.511	474348	427351	0.901	2.50	
6.534	82021	92139	1.123	0.43	
6.562	294717	250391	0.850	1.55	
6.608	31351	24800	0.791	0.16	
6.660	93675	84477	0.902	0.49	
6.719	499348	457647	0.916	2.63	
6.760	283474	256610	0.905	1.49	
6.805	227703	192558	0.846	1.20	
6.837	47833	39344	0.823	0.25	
6.867	20777	22616	1.089	0.10	
6.913	37481	33795	0.902	0.19	
6.945	99494	87238	0.877	0.52	
7.006	1074661	952659	0.886	5.66	8 Aroclor 1260
7.034	85801	79294	0.924	0.45	
7.076	39830	29520	0.741	0.21	
7.124	76029	48693	0.640	0.40	
7.253	505238	443533	0.878	2.66	8 Aroclor 1260
7.283	161808	121906	0.753	0.85	
7.368	14051	20223	1.439	0.07	
7.390	249151	219715	0.882	1.31	
7.444	313103	259788	0.830	1.65	8 Aroclor 1260
7.555	28224	19645	0.696	0.14	
7.692	126890	112403	0.886	0.66	
7.727	24298	19768	0.814	0.12	
7.780	47376	23329	0.492	0.24	
7.902	285359	230087	0.806	1.50	8 Aroclor 1260
7.967	28076	18551	0.661	0.14	
8.275	73573	62778	0.853	0.38	
8.382	33580	24066	0.717	0.17	
8.573	1252235	1038307	0.829	6.60	$ 12 Decachlorobiphenyl
8.943	22477	18768	0.835	0.11	
9.467	21684	17832	0.822	0.11	
9.963	27944	21020	0.752	0.14	
	18954741	16115997		100.000	

Total unknown % area = 57

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618058.D
Lab Smp Id: 1660-CAL1A Client Smp ID: 1660-CAL1A
Inj Date : 06-MAR-2018 18:34
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-cal1a, 188136:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 18:34 Cal File: 030618058.D
Als bottle: 30 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	1265501	0.01000	0.010			
5 Aroclor 1016					CAS #: 12674-11-2			
3.318	3.318	0.000	334670	0.10000	0.11	0.00- 20.00	100.00(M)	BA
3.513	3.512	0.001	336131	0.10000	0.11	0.00- 20.00	100.44	BA
3.826	3.826	0.000	961909	0.10000	0.11	0.00- 20.00	287.42	BA
3.928	3.929	-0.001	407299	0.10000	0.11	0.00- 20.00	121.70	BA
3.995	3.994	0.001	291298	0.10000	0.11	0.00- 20.00	87.04	BA
Average of Peak Amounts =					0.11000			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	956999	0.10000	0.11	0.00- 20.00	100.00(M)	CO
7.006	7.006	0.000	1074661	0.10000	0.11	0.00- 20.00	112.29	CO
7.252	7.251	0.001	505237	0.10000	0.10	0.00- 20.00	52.79	CO
7.444	7.443	0.001	313102	0.10000	0.11	0.00- 20.00	32.72	CO
7.902	7.901	0.001	285359	0.10000	0.11	0.00- 20.00	29.82	CO
Average of Peak Amounts =					0.10800			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.572	8.571	0.001	1252234	0.01000	0.011			

QC Flag Legend

M - Compound response manually integrated.

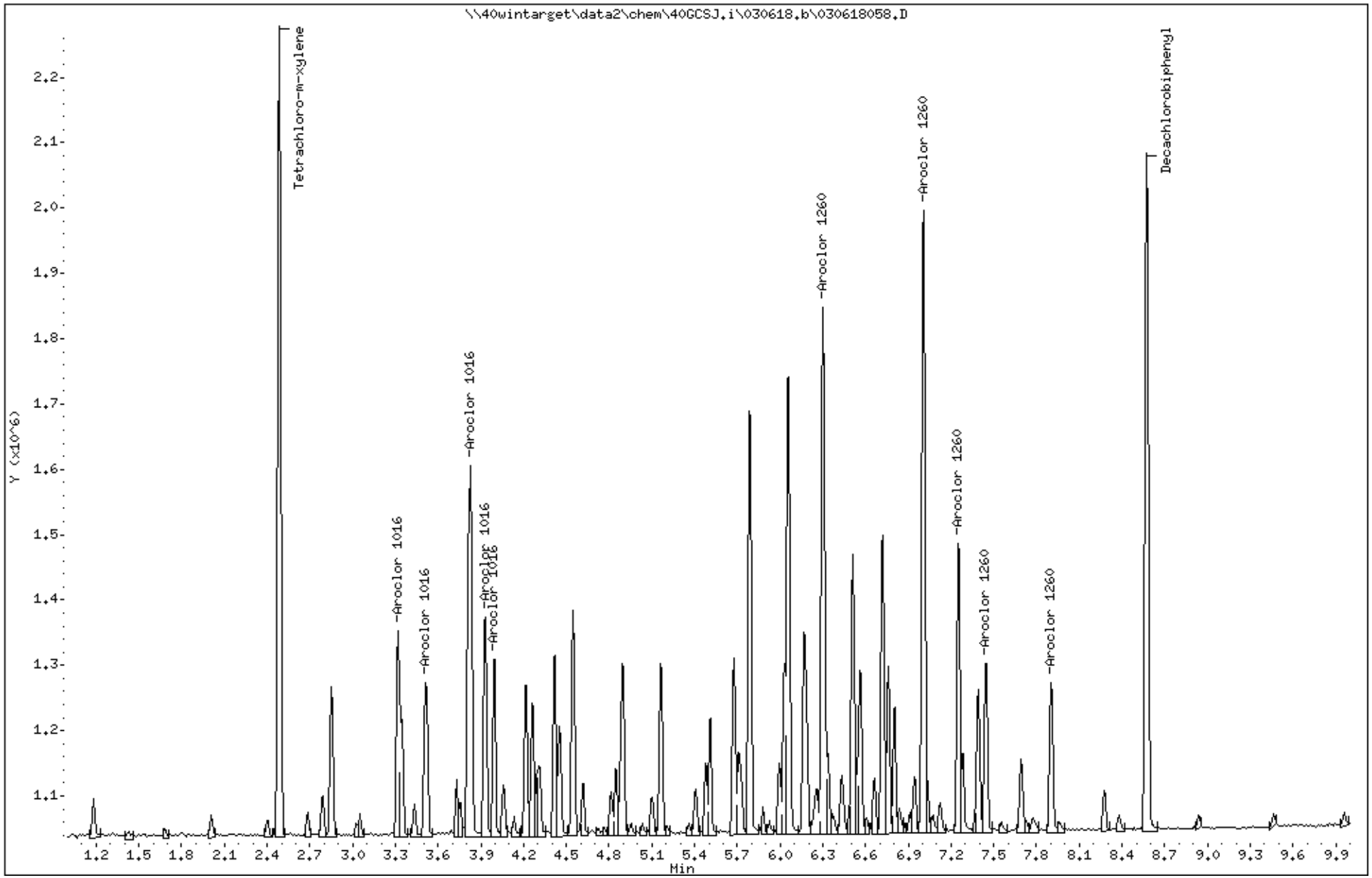
QC Flag Legend

Review Codes Legend

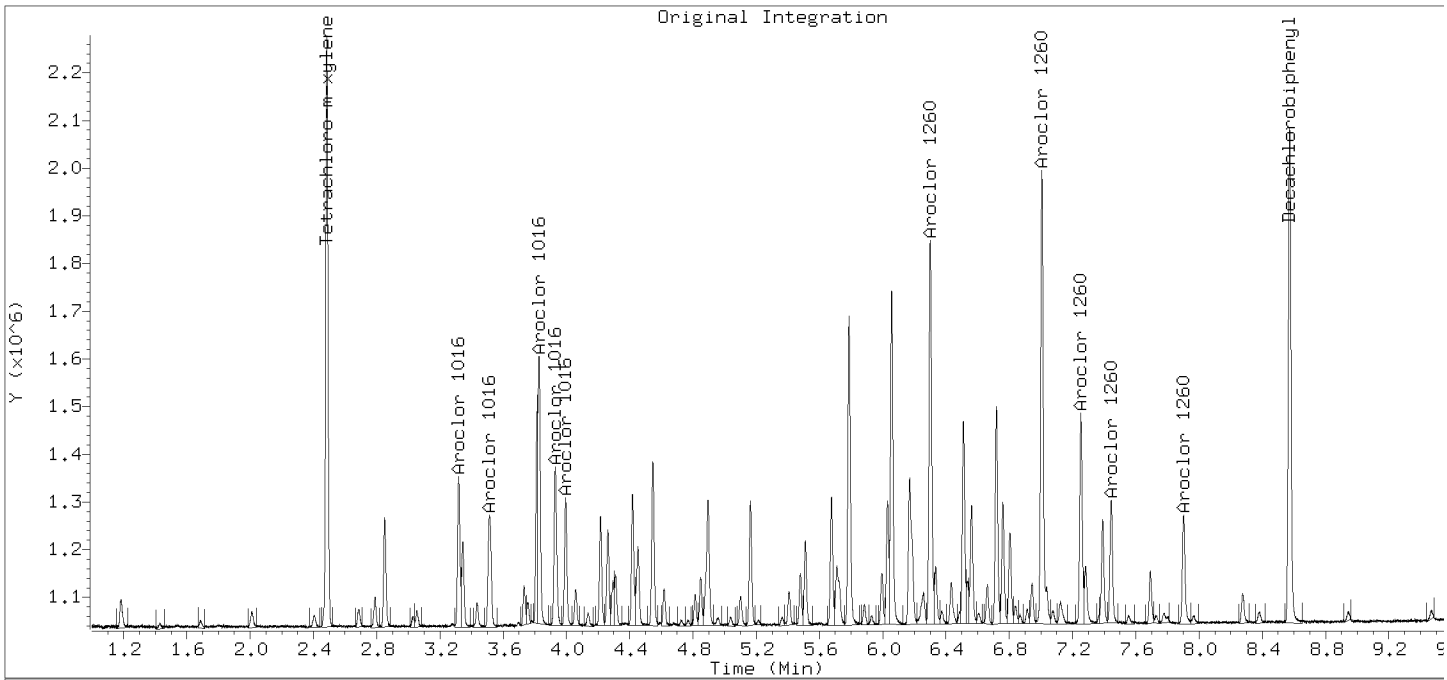
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

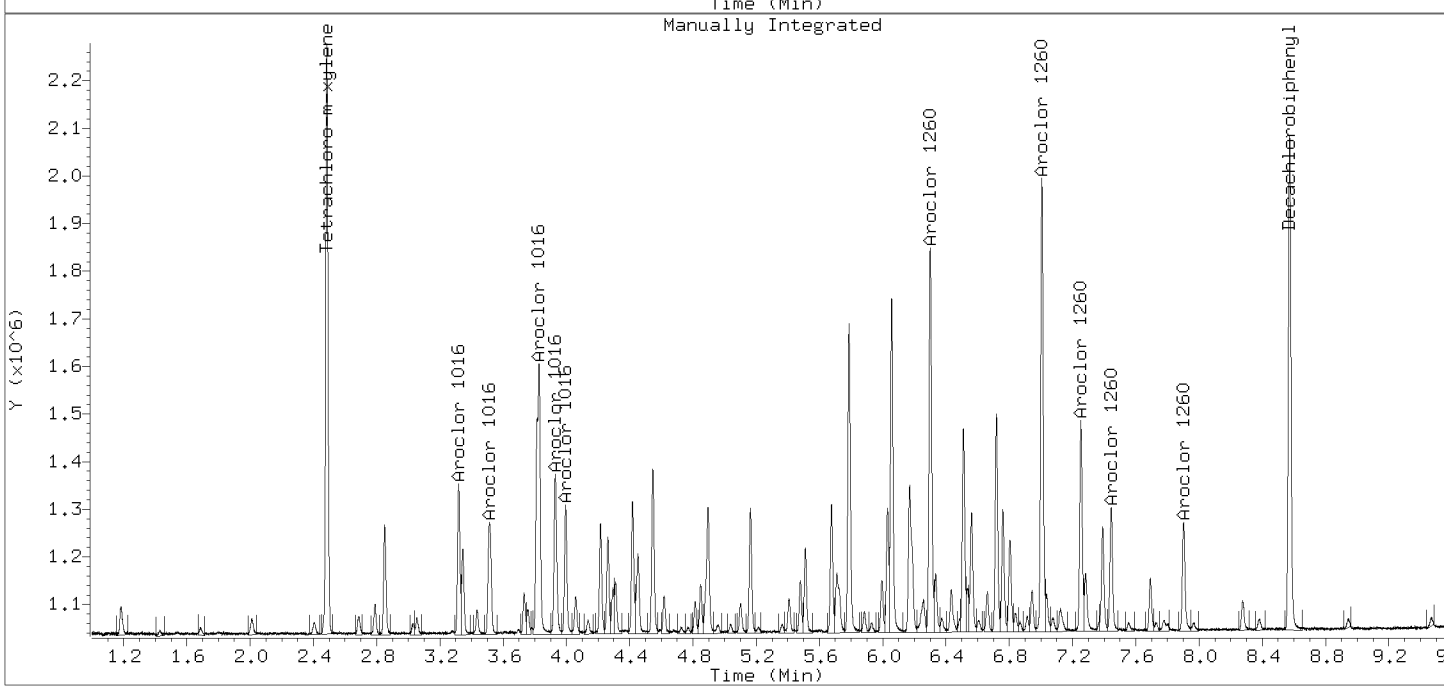
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618058.D
Date : 06-MAR-2018 18:34
Client ID: 1660-CAL1A
Sample Info: 1660-CAL1A, 188136:1

Instrument: 40GCSJ.i
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618058.D (ManInt: AR1660.sub Orig: AR1660.sub)
Injection Date: 06-MAR-2018 18:34 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1660-CAL1A





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	331398	334670	BA
Aroclor 1016	331398	334670	BA
Aroclor 1016	331398	334670	BA
Aroclor 1016	331398	334670	BA
Aroclor 1016	331398	334670	BA
Aroclor 1260	948946	956999	CO
Aroclor 1260	948946	956999	CO
Aroclor 1260	948946	956999	CO
Aroclor 1260	948946	956999	CO
Aroclor 1260	948946	956999	CO
Tetrachloro-m-xylene	1265501	1265501	
Decachlorobiphenyl	1252234	1252234	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618060.D
Lab Smp Id: 1660-CAL2A Client Smp ID: 1660-CAL2A
Inj Date : 06-MAR-2018 18:51
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-cal2a, 185558:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 18:51 Cal File: 030618060.D
Als bottle: 31 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.185	55176	41178	0.746	0.15		
1.429	21015	18585	0.884	0.05		
1.802	12282	8623	0.702	0.03		
2.011	32498	25901	0.797	0.09		
2.404	67139	48192	0.718	0.18		
2.484	2499487	2410686	0.964	7.40	$ 2 Tetrachloro-m-xylene	
2.687	94590	70872	0.749	0.26		
2.789	132356	122708	0.927	0.36		
2.851	469229	448920	0.957	1.30		
3.028	20462	19526	0.954	0.05		
3.054	77836	65563	0.842	0.21		
3.280	13769	10123	0.735	0.03		
3.318	654061	624883	0.955	1.81	5 Aroclor 1016	BA
3.345	373017	342479	0.918	1.03		
3.436	104520	94613	0.905	0.28		
3.513	645015	465357	0.721	1.78	5 Aroclor 1016	BA
3.614	11902	11206	0.942	0.03		
3.697	20307	21558	1.062	0.05		
3.732	166970	164519	0.985	0.46		
3.756	105123	106344	1.012	0.29		
3.827	1858995	1113513	0.599	5.15	5 Aroclor 1016	BA
3.929	794562	664351	0.836	2.20	5 Aroclor 1016	BA
3.995	538852	516167	0.958	1.49	5 Aroclor 1016	BA
4.059	153652	141937	0.924	0.42		
4.137	64387	55721	0.865	0.17		
4.215	463064	450944	0.974	1.28		
4.261	411934	395299	0.960	1.14		
4.293	176764	178584	1.010	0.48		
4.310	214978	205952	0.958	0.59		
4.368	18687	13075	0.700	0.05		
4.417	569211	550417	0.967	1.57		
4.452	428711	317474	0.741	1.18		
4.546	747149	680932	0.911	2.07		
4.617	172002	154821	0.900	0.47		
4.675	18051	11895	0.659	0.05		
4.728	31765	25328	0.797	0.08		
4.768	26719	24282	0.909	0.07		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.814	134761	128509	0.954	0.37	
4.849	207904	199310	0.959	0.57	
4.895	688062	504752	0.734	1.90	
4.955	49261	36191	0.735	0.13	
5.037	41204	35409	0.859	0.11	
5.101	147468	124667	0.845	0.40	
5.163	553608	515848	0.932	1.53	
5.211	28275	23336	0.825	0.07	
5.364	42478	33276	0.783	0.11	
5.406	154225	140226	0.909	0.42	
5.478	222337	212066	0.954	0.61	
5.510	375280	336790	0.897	1.03	
5.676	557330	520345	0.934	1.54	
5.710	420039	227627	0.542	1.16	
5.786	1434098	1216006	0.848	3.97	
5.881	99936	84741	0.848	0.27	
5.931	52909	37411	0.707	0.14	
5.994	236171	220443	0.933	0.65	
6.029	525050	521852	0.994	1.45	
6.055	1579576	1350262	0.855	4.37	
6.170	972431	621038	0.639	2.69	
6.256	228441	130747	0.572	0.63	
6.301	1864709	1458728	0.782	5.16	8 Aroclor 1260
6.335	262275	234816	0.895	0.72	
6.375	82478	55139	0.669	0.22	
6.433	206268	167261	0.811	0.57	
6.487	40545	49125	1.212	0.11	
6.510	932649	849322	0.911	2.58	
6.536	166259	180771	1.087	0.46	
6.561	564443	492928	0.873	1.56	
6.605	64137	48977	0.764	0.17	
6.661	181400	157714	0.869	0.50	
6.719	981159	893423	0.911	2.71	
6.759	544707	485293	0.891	1.50	
6.803	436009	386944	0.887	1.20	
6.839	89543	74514	0.832	0.24	
6.868	45779	37984	0.830	0.12	
6.913	64712	61547	0.951	0.17	
6.943	192241	174196	0.906	0.53	
7.006	2085870	1795515	0.861	5.78	8 Aroclor 1260
7.034	145420	142383	0.979	0.40	
7.075	69040	53643	0.777	0.19	
7.122	116391	79463	0.683	0.32	
7.252	997245	885990	0.888	2.76	8 Aroclor 1260
7.284	293602	234376	0.798	0.81	
7.390	506113	423868	0.837	1.40	
7.444	607583	530361	0.873	1.68	8 Aroclor 1260
7.553	47904	35161	0.734	0.13	
7.692	248075	211779	0.854	0.68	
7.729	41616	33711	0.810	0.11	
7.777	25315	19290	0.762	0.07	
7.800	38231	26898	0.704	0.10	
7.900	543647	451004	0.830	1.50	8 Aroclor 1260
7.966	45855	31122	0.679	0.12	
8.275	140866	122403	0.869	0.39	
8.382	29898	21612	0.723	0.08	
8.572	2284568	1922634	0.842	6.33	$ 12 Decachlorobiphenyl

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
8.945	25225	17796	0.705	0.06	
9.471	34351	19751	0.575	0.09	
9.964	23512	15629	0.665	0.06	
	36086723	30726451		100.000	

Total unknown % area = 57

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618060.D
Lab Smp Id: 1660-CAL2A Client Smp ID: 1660-CAL2A
Inj Date : 06-MAR-2018 18:51
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-cal2a, 185558:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 18:51 Cal File: 030618060.D
Als bottle: 31 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	2499486	0.02000	0.020			
5 Aroclor 1016					CAS #: 12674-11-2			
3.317	3.318	-0.001	654060	0.20000	0.21	0.00- 20.00	100.00(M)	BA
3.513	3.512	0.001	645015	0.20000	0.21	0.00- 20.00	98.62	BA
3.826	3.826	0.000	1858994	0.20000	0.21	0.00- 20.00	284.22	BA
3.929	3.929	0.000	794562	0.20000	0.21	0.00- 20.00	121.48	BA
3.994	3.994	0.000	538852	0.20000	0.21	0.00- 20.00	82.39	BA
Average of Peak Amounts =					0.21000			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	1864709	0.20000	0.21	0.00- 20.00	100.00(M)	CO
7.006	7.006	0.000	2085870	0.20000	0.21	0.00- 20.00	111.86	CO
7.252	7.251	0.001	997245	0.20000	0.21	0.00- 20.00	53.48	CO
7.443	7.443	0.000	607583	0.20000	0.21	0.00- 20.00	32.58	CO
7.900	7.901	-0.001	543647	0.20000	0.21	0.00- 20.00	29.15	CO
Average of Peak Amounts =					0.21000			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.572	8.571	0.001	2284567	0.02000	0.021			

QC Flag Legend

M - Compound response manually integrated.

QC Flag Legend

Review Codes Legend

BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618060.D

Date : 06-MAR-2018 18:51

Client ID: 1660-CAL2A

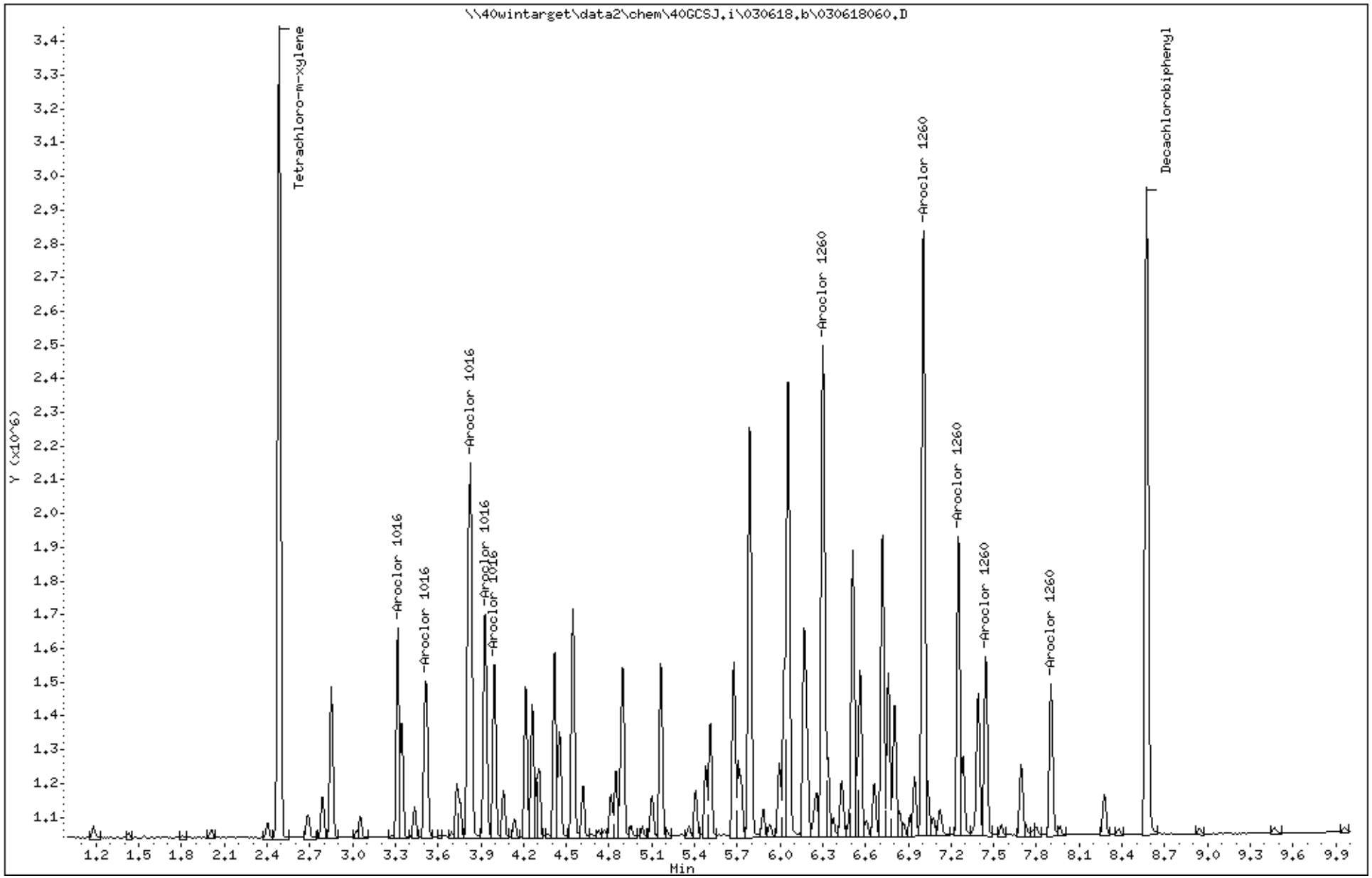
Instrument: 40GCSJ.i

Sample Info: 1660-CAL2A, 185558:1

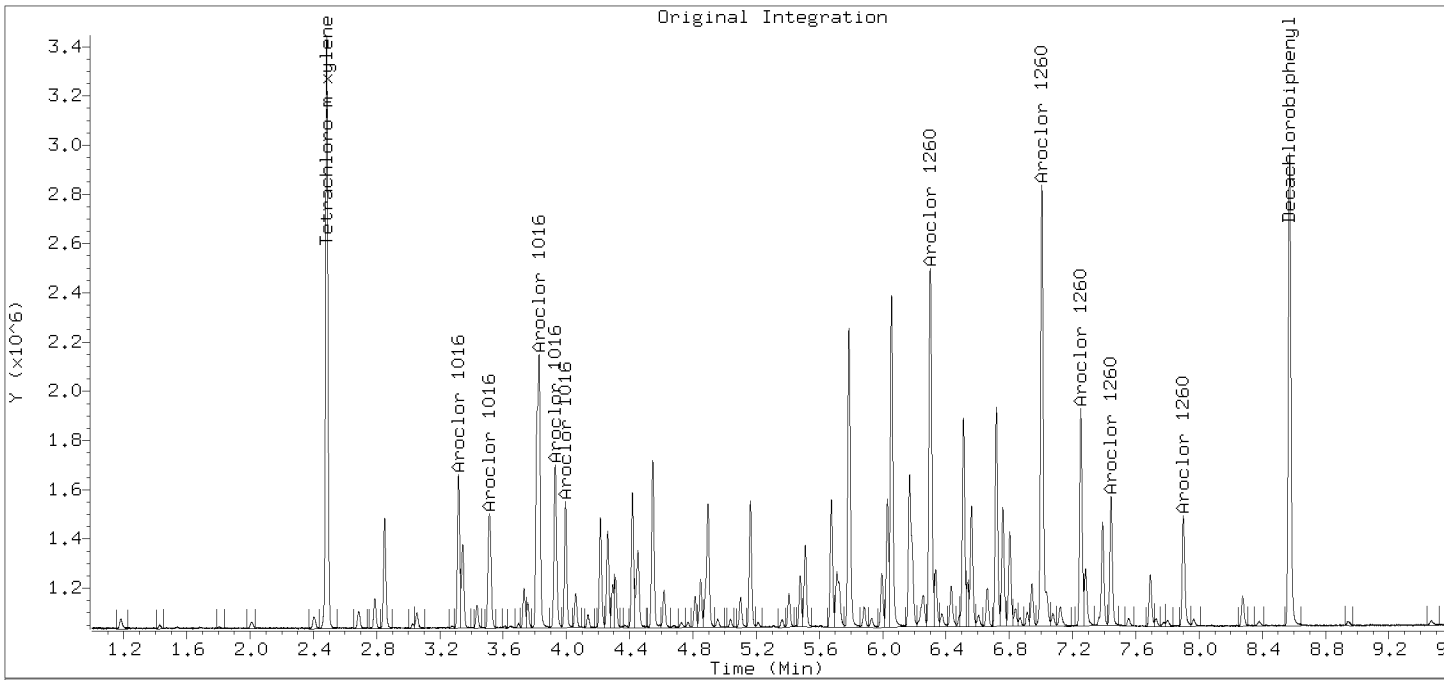
Operator: BLM

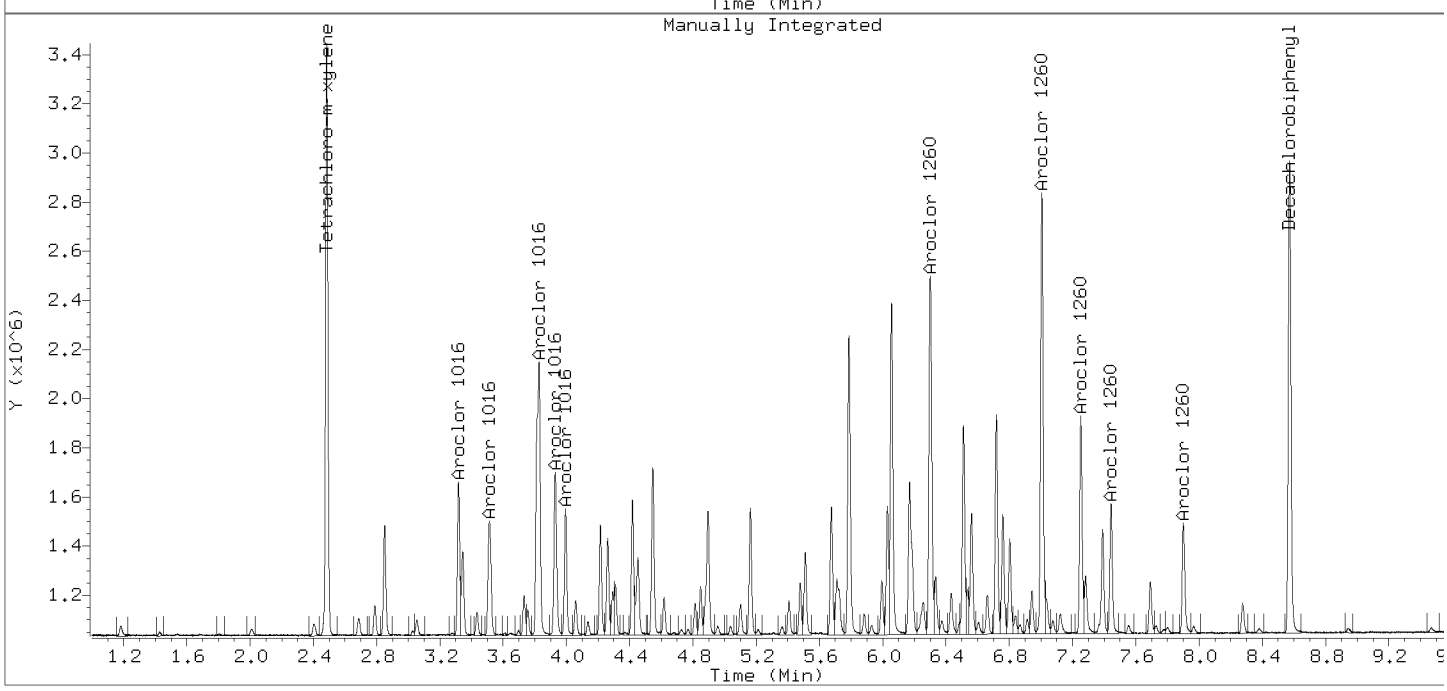
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618060.D (ManInt: AR1660.sub Orig: AR1660.sub)
Injection Date: 06-MAR-2018 18:51 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1660-CAL2A





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	649890	654060	BA
Aroclor 1016	649890	654060	BA
Aroclor 1016	649890	654060	BA
Aroclor 1016	649890	654060	BA
Aroclor 1016	649890	654060	BA
Aroclor 1260	1856530	1864709	CO
Aroclor 1260	1856530	1864709	CO
Aroclor 1260	1856530	1864709	CO
Aroclor 1260	1856530	1864709	CO
Aroclor 1260	1856530	1864709	CO
Tetrachloro-m-xylene	2499486	2499486	
Decachlorobiphenyl	2284567	2284567	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618062.D
Lab Smp Id: 1660-CAL3A Client Smp ID: 1660-CAL3A
Inj Date : 06-MAR-2018 19:07
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-cal3a, 185559:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 17:30 Cal File: 030618050.D
Als bottle: 32 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.182	73481	56448	0.768	0.08		
1.429	38001	32608	0.858	0.04		
1.537	20915	15456	0.739	0.02		
1.685	19161	19298	1.007	0.02		
1.803	18038	14682	0.814	0.02		
2.010	53413	35717	0.669	0.06		
2.404	140743	111047	0.789	0.16		
2.484	6057237	5892667	0.973	7.63	$ 2 Tetrachloro-m-xylene	
2.687	201241	167032	0.830	0.23		
2.789	304363	285330	0.937	0.35		
2.851	1109963	1029461	0.927	1.31		
3.031	24750	24475	0.989	0.02		
3.055	178487	159145	0.892	0.21		
3.278	26481	21063	0.795	0.03		
3.318	1513499	1414991	0.935	1.78	5 Aroclor 1016	BA
3.345	880540	822356	0.934	1.04		
3.434	247038	220109	0.891	0.29		
3.513	1532387	1090208	0.711	1.81	5 Aroclor 1016	BA
3.611	27202	25734	0.946	0.03		
3.647	29738	19736	0.664	0.03		
3.697	43175	42217	0.978	0.05		
3.732	381498	383355	1.005	0.45		
3.756	273430	243142	0.889	0.32		
3.826	4314630	2564491	0.594	5.10	5 Aroclor 1016	BA
3.929	1875063	1563785	0.834	2.21	5 Aroclor 1016	BA
3.994	1275640	1205112	0.945	1.50	5 Aroclor 1016	BA
4.059	356271	321194	0.902	0.42		
4.137	142724	126589	0.887	0.16		
4.215	1091767	1043921	0.956	1.29		
4.261	983477	936778	0.953	1.16		
4.293	419201	426725	1.018	0.49		
4.310	507212	485823	0.958	0.59		
4.372	34974	24662	0.705	0.04		
4.418	1378494	1285521	0.933	1.63		
4.452	991992	777670	0.784	1.17		
4.545	1720081	1585302	0.922	2.03		
4.591	26254	25937	0.988	0.03		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.618	390639	352630	0.903	0.46	
4.680	45442	27438	0.604	0.05	
4.728	65437	52451	0.802	0.07	
4.768	60652	53450	0.881	0.07	
4.813	315747	306151	0.970	0.37	
4.848	490062	474651	0.969	0.57	
4.895	1609352	1151281	0.715	1.90	
4.957	109800	84138	0.766	0.12	
5.038	90170	81334	0.902	0.10	
5.101	330531	287340	0.869	0.39	
5.162	1311328	1213988	0.926	1.55	
5.213	62406	49170	0.788	0.07	
5.308	18942	13697	0.723	0.02	
5.364	102693	89831	0.875	0.12	
5.407	358555	326663	0.911	0.42	
5.444	17182	16887	0.983	0.02	
5.478	520000	499018	0.960	0.61	
5.510	901921	830532	0.921	1.06	
5.574	21617	18709	0.865	0.02	
5.607	22890	17618	0.770	0.02	
5.675	1323137	1193469	0.902	1.56	
5.710	966061	548770	0.568	1.14	
5.786	3269149	2832194	0.866	3.86	
5.883	222136	199869	0.900	0.26	
5.929	105245	84776	0.806	0.12	
5.994	562299	517914	0.921	0.66	
6.030	1251900	1210482	0.967	1.48	
6.056	3581989	3121113	0.871	4.23	
6.170	2328780	1484198	0.637	2.75	
6.257	533348	316626	0.594	0.63	
6.300	4328765	3602666	0.832	5.11	8 Aroclor 1260
6.332	635873	554609	0.872	0.75	
6.374	166590	132594	0.796	0.19	
6.433	464363	404511	0.871	0.54	
6.487	99285	119042	1.199	0.11	
6.509	2148304	1882394	0.876	2.54	
6.535	394424	422591	1.071	0.46	
6.561	1341525	1196072	0.892	1.58	
6.604	141409	115102	0.814	0.16	
6.661	417039	383638	0.920	0.49	
6.718	2289697	1970989	0.861	2.70	
6.759	1295745	1116495	0.862	1.53	
6.804	1058424	934717	0.883	1.25	
6.838	199169	171583	0.861	0.23	
6.866	100126	89213	0.891	0.11	
6.912	156733	140038	0.893	0.18	
6.944	453234	417139	0.920	0.53	
7.005	4908203	4291027	0.874	5.80	8 Aroclor 1260
7.035	325498	318921	0.980	0.38	
7.075	167281	127630	0.763	0.19	
7.122	238259	189781	0.797	0.28	
7.252	2360655	2040658	0.864	2.79	8 Aroclor 1260
7.282	691639	556699	0.805	0.81	
7.390	1210833	979598	0.809	1.43	
7.444	1443850	1242584	0.861	1.70	8 Aroclor 1260
7.553	121232	82650	0.682	0.14	
7.691	577449	516541	0.895	0.68	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.728	106585	81318	0.763	0.12	
7.777	24225	28669	1.183	0.02	
7.800	83574	56954	0.681	0.09	
7.901	1312523	1129026	0.860	1.55	8 Aroclor 1260
7.965	102499	75394	0.736	0.12	
8.275	325997	297080	0.911	0.38	
8.377	45903	31430	0.685	0.05	
8.572	5312752	4519291	0.851	6.28	$ 12 Decachlorobiphenyl
8.739	26600	11588	0.436	0.03	
8.943	52533	33251	0.633	0.06	
8.993	10265	8473	0.825	0.01	
9.015	10050	7503	0.747	0.01	
9.470	52157	34850	0.668	0.06	
9.961	54045	36108	0.668	0.06	
	84557281	72306592		100.000	

Total unknown % area = 57

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618062.D
Lab Smp Id: 1660-CAL3A Client Smp ID: 1660-CAL3A
Inj Date : 06-MAR-2018 19:07
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-cal3a, 185559:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 17:30 Cal File: 030618050.D
Als bottle: 32 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	6057237	0.05000	0.049			
5 Aroclor 1016					CAS #: 12674-11-2			
3.317	3.318	-0.001	1513499	0.50000	0.49	0.00- 20.00	100.00(M)	BA
3.512	3.512	0.000	1532387	0.50000	0.49	0.00- 20.00	101.25	BA
3.826	3.826	0.000	4314629	0.50000	0.49	0.00- 20.00	285.08	BA
3.928	3.929	-0.001	1875063	0.50000	0.50	0.00- 20.00	123.89	BA
3.994	3.994	0.000	1275639	0.50000	0.49	0.00- 20.00	84.28	BA
Average of Peak Amounts =					0.49200			
8 Aroclor 1260					CAS #: 11096-82-5			
6.299	6.300	-0.001	4328764	0.50000	0.49	0.00- 20.00	100.00(M)	CO
7.005	7.006	-0.001	4908203	0.50000	0.49	0.00- 20.00	113.39	CO
7.251	7.251	0.000	2360654	0.50000	0.49	0.00- 20.00	54.53	CO
7.443	7.443	0.000	1443849	0.50000	0.50	0.00- 20.00	33.35	CO
7.901	7.901	0.000	1312522	0.50000	0.50	0.00- 20.00	30.32	CO
Average of Peak Amounts =					0.49400			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	5312751	0.05000	0.048			

QC Flag Legend

M - Compound response manually integrated.

QC Flag Legend

Review Codes Legend

BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618062.D

Date : 06-MAR-2018 19:07

Client ID: 1660-CAL3A

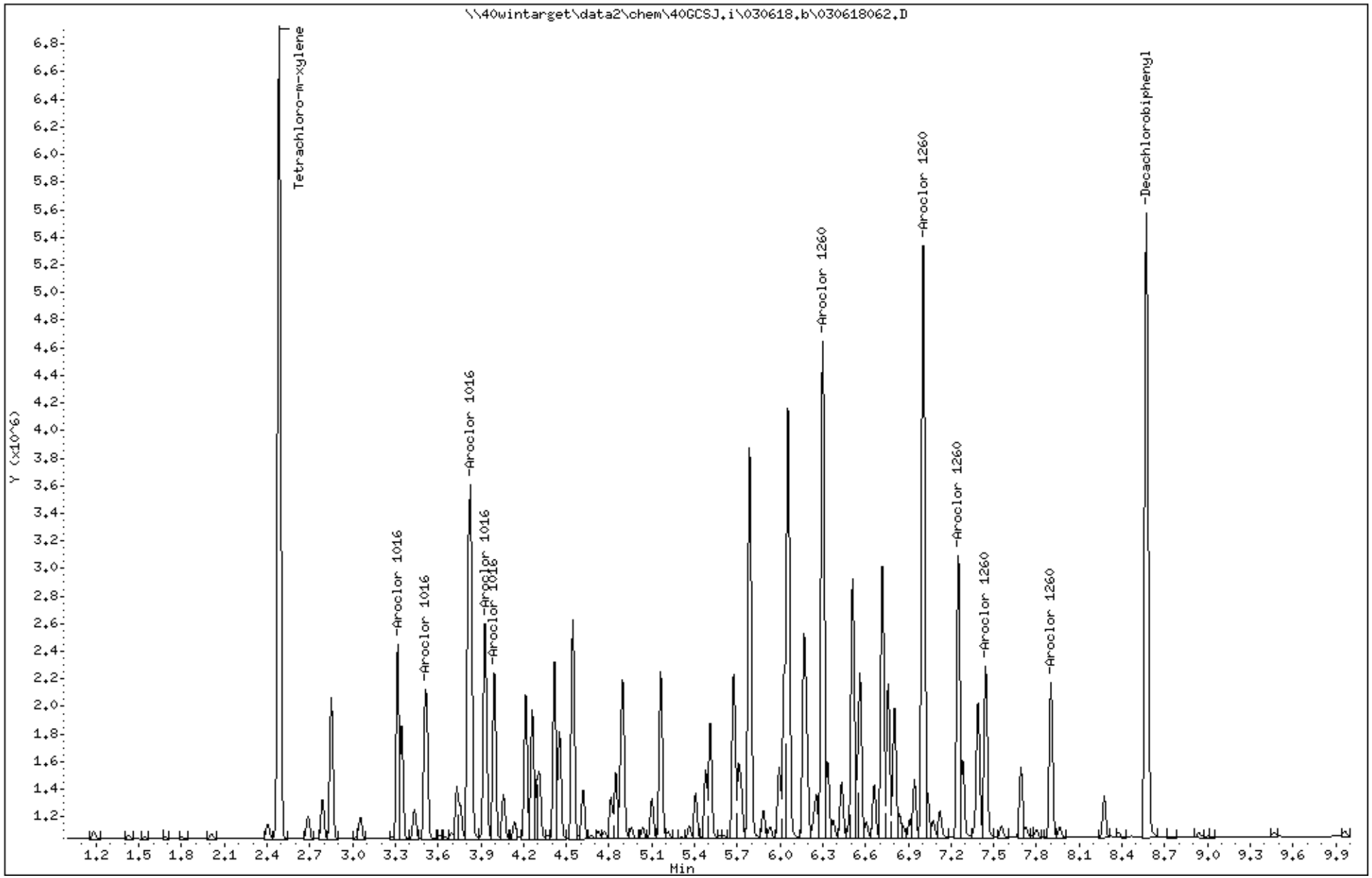
Instrument: 40GCSJ.i

Sample Info: 1660-CAL3A, 185559:1

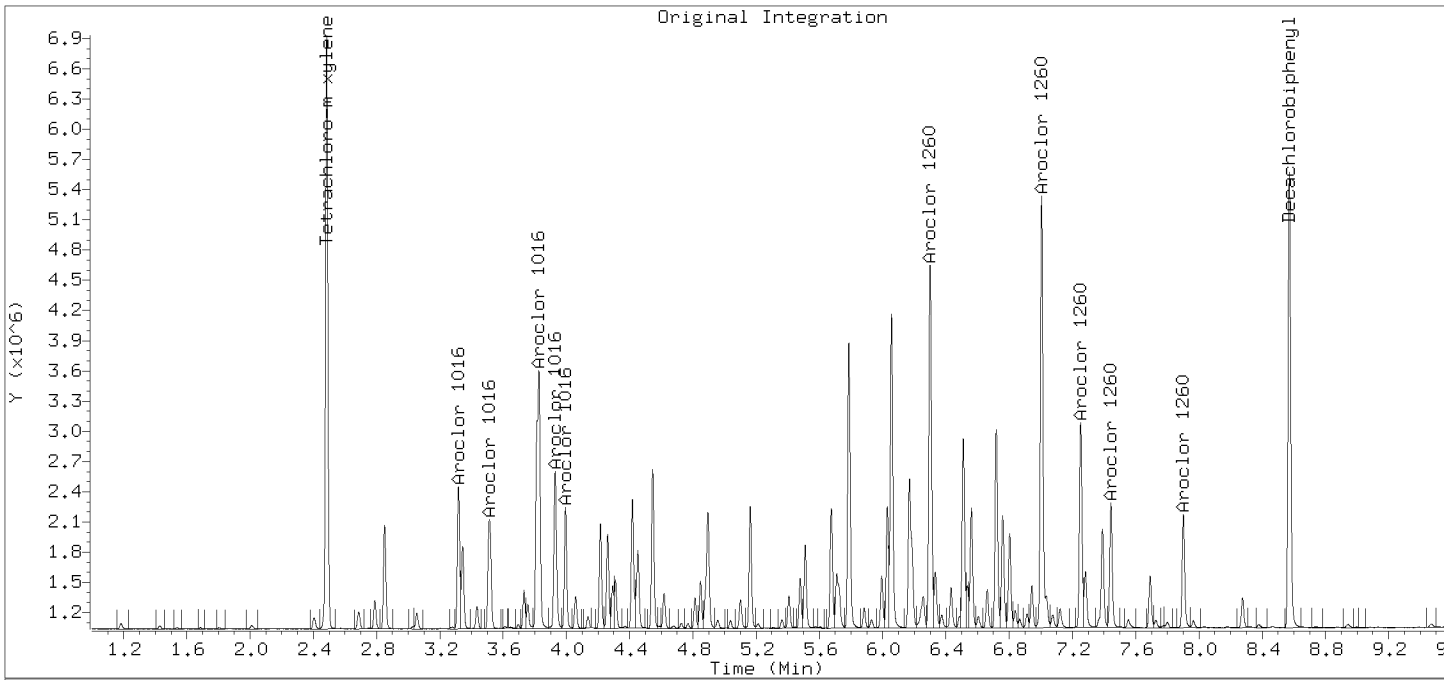
Operator: BLM

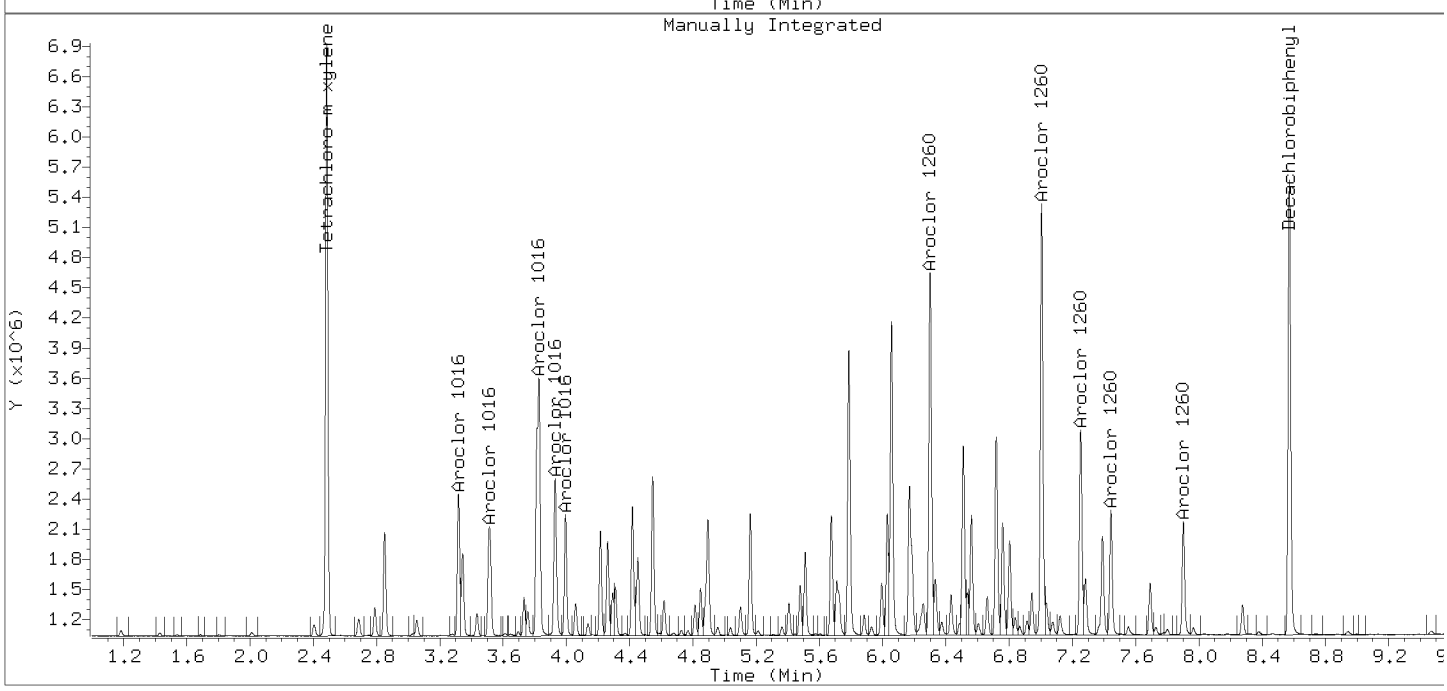
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618062.D (ManInt: AR1660.sub Orig: AR1660.sub)
Injection Date: 06-MAR-2018 19:07 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1660-CAL3A





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1506634	1513499	BA
Aroclor 1016	1506634	1513499	BA
Aroclor 1016	1506634	1513499	BA
Aroclor 1016	1506634	1513499	BA
Aroclor 1016	1506634	1513499	BA
Aroclor 1260	4317043	4328764	CO
Aroclor 1260	4317043	4328764	CO
Aroclor 1260	4317043	4328764	CO
Aroclor 1260	4317043	4328764	CO
Aroclor 1260	4317043	4328764	CO
Tetrachloro-m-xylene	6057237	6057237	
Decachlorobiphenyl	5312751	5312751	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618064.D
Lab Smp Id: 1660-CAL4A Client Smp ID: 1660-CAL4A
Inj Date : 06-MAR-2018 19:23
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-cal4a, 185560:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:23 Cal File: 030618064.D
Als bottle: 33 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.183	51048	39743	0.779	0.03		
1.428	67658	59771	0.883	0.05		
1.537	35520	27064	0.762	0.02		
1.684	11345	12242	1.079	0.00		
1.804	26637	21421	0.804	0.01		
2.010	30322	24464	0.807	0.02		
2.405	217693	168016	0.772	0.16		
2.485	12180956	11703129	0.961	9.57	$ 2 Tetrachloro-m-xylene	
2.686	324056	263363	0.813	0.24		
2.788	503381	488978	0.971	0.37		
2.851	1715701	1591093	0.927	1.27		
3.033	12533	16182	1.291	0.00		
3.055	262518	238547	0.909	0.19		
3.277	37151	29842	0.803	0.02		
3.318	2333577	2156053	0.924	1.73	5 Aroclor 1016	BA
3.344	1347877	1252078	0.929	1.00		
3.435	374972	344552	0.919	0.27		
3.513	2362745	1662196	0.704	1.75	5 Aroclor 1016	BA
3.610	37684	33923	0.900	0.02		
3.644	36588	23793	0.650	0.02		
3.697	64716	64546	0.997	0.04		
3.733	614707	615053	1.001	0.45		
3.757	393294	383146	0.974	0.29		
3.827	6746065	3969633	0.588	5.01	5 Aroclor 1016	BA
3.929	2864977	2413896	0.843	2.12	5 Aroclor 1016	BA
3.995	1946759	1862950	0.957	1.44	5 Aroclor 1016	BA
4.059	556550	510919	0.918	0.41		
4.136	217971	201589	0.925	0.16		
4.215	1671721	1557184	0.931	1.24		
4.262	1509426	1424890	0.944	1.12		
4.293	644274	673004	1.045	0.47		
4.310	801855	741139	0.924	0.59		
4.372	46455	38102	0.820	0.03		
4.418	2086121	1916658	0.919	1.55		
4.453	1561367	1168414	0.748	1.16		
4.546	2691796	2429747	0.903	2.00		
4.618	614879	582697	0.948	0.45		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.681	40268	29964	0.744	0.02	
4.726	97409	80777	0.829	0.07	
4.769	84631	79528	0.940	0.06	
4.813	496125	477191	0.962	0.36	
4.848	769915	758419	0.985	0.57	
4.895	2431191	1773420	0.729	1.80	
4.957	158097	128688	0.814	0.11	
5.037	141886	125690	0.886	0.10	
5.100	509908	441468	0.866	0.37	
5.163	1980314	1775935	0.897	1.47	
5.213	95707	77428	0.809	0.07	
5.309	25285	19192	0.759	0.01	
5.364	136686	126726	0.927	0.10	
5.407	557655	538024	0.965	0.41	
5.447	22003	24599	1.118	0.01	
5.478	803193	761709	0.948	0.59	
5.511	1404548	1270014	0.904	1.04	
5.606	31361	23033	0.734	0.02	
5.676	2014749	1859939	0.923	1.49	
5.711	1494302	813162	0.544	1.11	
5.786	4990155	4308283	0.863	3.70	
5.884	340816	299117	0.878	0.25	
5.929	164472	137221	0.834	0.12	
5.994	852561	813094	0.954	0.63	
6.031	1912065	1795299	0.939	1.42	
6.057	5492951	4849840	0.883	4.08	
6.169	3549907	2212097	0.623	2.63	
6.255	812378	476866	0.587	0.60	
6.300	6710843	5584923	0.832	4.98	8 Aroclor 1260
6.334	997961	870632	0.872	0.74	
6.374	242400	190548	0.786	0.18	
6.432	705567	608791	0.863	0.52	
6.487	129043	188452	1.460	0.09	
6.511	3293621	2899546	0.880	2.44	
6.536	647596	661803	1.022	0.48	
6.562	2057795	1823223	0.886	1.52	
6.605	225392	179290	0.795	0.16	
6.661	658391	628771	0.955	0.48	
6.719	3522957	3237666	0.919	2.61	
6.760	1974466	1743981	0.883	1.46	
6.804	1651358	1397674	0.846	1.22	
6.839	305859	257806	0.843	0.22	
6.868	154872	136206	0.879	0.11	
6.913	224919	208551	0.927	0.16	
6.944	715915	663774	0.927	0.53	
7.005	7621579	7030639	0.922	5.66	8 Aroclor 1260
7.036	534386	507176	0.949	0.39	
7.076	240666	196245	0.815	0.17	
7.122	345690	285294	0.825	0.25	
7.222	14224	14841	1.043	0.01	
7.252	3661924	3266511	0.892	2.72	8 Aroclor 1260
7.283	1069136	892362	0.835	0.79	
7.390	1852151	1502868	0.811	1.37	
7.443	2216952	1888648	0.852	1.64	8 Aroclor 1260
7.552	171302	132932	0.776	0.12	
7.692	911316	814697	0.894	0.67	
7.728	156368	125258	0.801	0.11	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.777	11035	17805	1.614	0.00	
7.802	122291	99621	0.815	0.09	
7.901	2009348	1700247	0.846	1.49	8 Aroclor 1260
7.965	142693	115147	0.807	0.10	
8.076	14691	9375	0.638	0.01	
8.277	552327	476813	0.863	0.41	
8.383	35077	22743	0.648	0.02	
8.572	10160226	8786744	0.865	7.55	$ 12 Decachlorobiphenyl
8.945	25819	16899	0.655	0.01	
9.091	15971	14108	0.883	0.01	
9.470	23386	15627	0.668	0.01	
9.964	26995	17470	0.647	0.02	
	134567937	116018447		100.000	

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618064.D
Lab Smp Id: 1660-CAL4A Client Smp ID: 1660-CAL4A
Inj Date : 06-MAR-2018 19:23
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-cal4a, 185560:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:23 Cal File: 030618064.D
Als bottle: 33 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	12180955	0.10000	0.099			
5 Aroclor 1016					CAS #: 12674-11-2			
3.317	3.318	-0.001	2333576	0.80000	0.76	0.00- 20.00	100.00(M)	BA
3.512	3.512	0.000	2362744	0.80000	0.76	0.00- 20.00	101.25	BA
3.826	3.826	0.000	6746064	0.80000	0.76	0.00- 20.00	289.09	BA
3.929	3.929	0.000	2864977	0.80000	0.76	0.00- 20.00	122.77	BA
3.995	3.994	0.001	1946758	0.80000	0.75	0.00- 20.00	83.42	BA
Average of Peak Amounts =					0.75800			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	6710842	0.80000	0.76	0.00- 20.00	100.00(M)	BA
7.005	7.006	-0.001	7621578	0.80000	0.76	0.00- 20.00	113.57	BA
7.252	7.251	0.001	3661923	0.80000	0.77	0.00- 20.00	54.57	BA
7.443	7.443	0.000	2216952	0.80000	0.76	0.00- 20.00	33.04	BA
7.901	7.901	0.000	2009347	0.80000	0.76	0.00- 20.00	29.94	BA
Average of Peak Amounts =					0.76200			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	10160225	0.10000	0.093			

QC Flag Legend

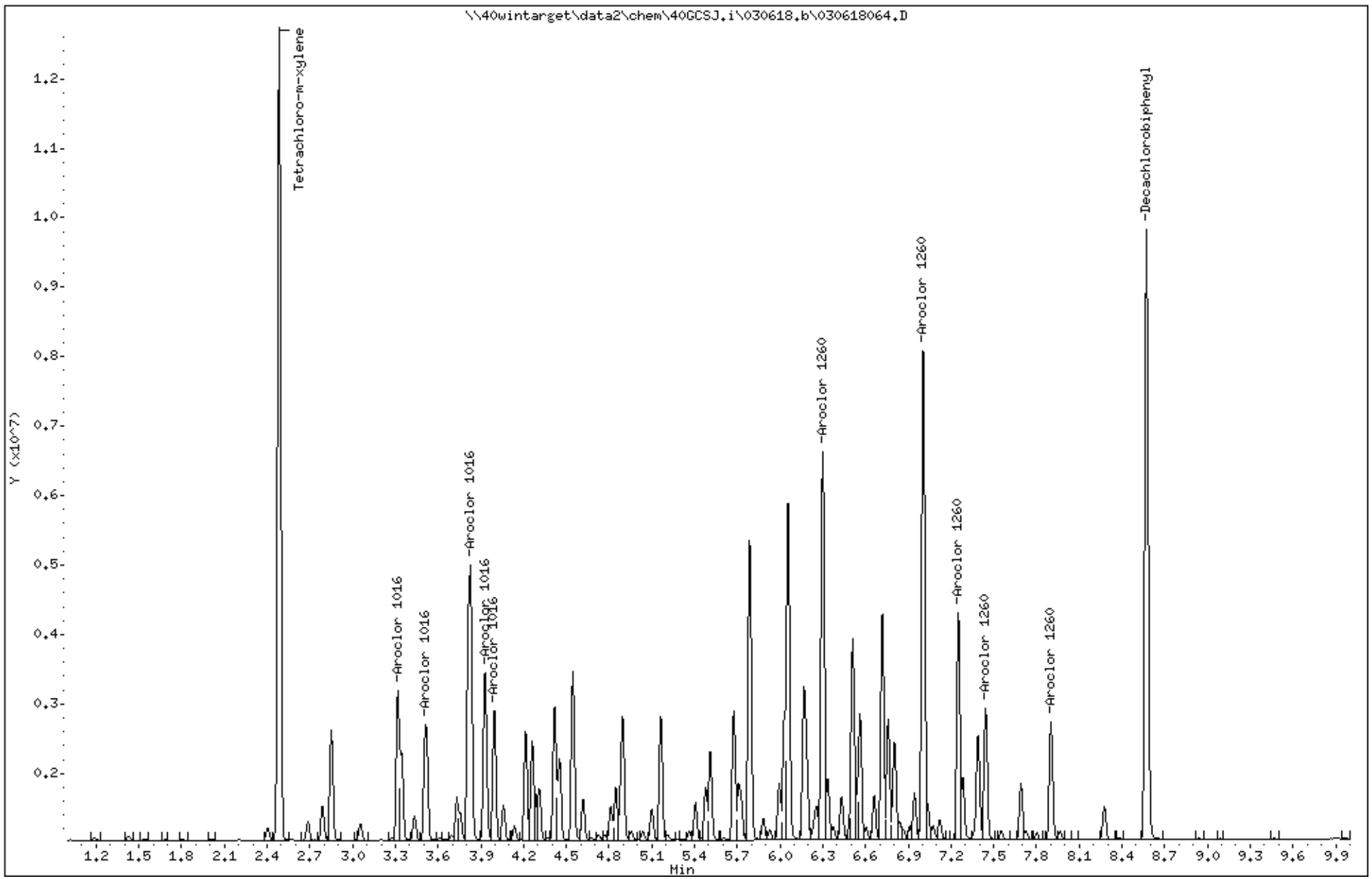
M - Compound response manually integrated.

Review Codes Legend

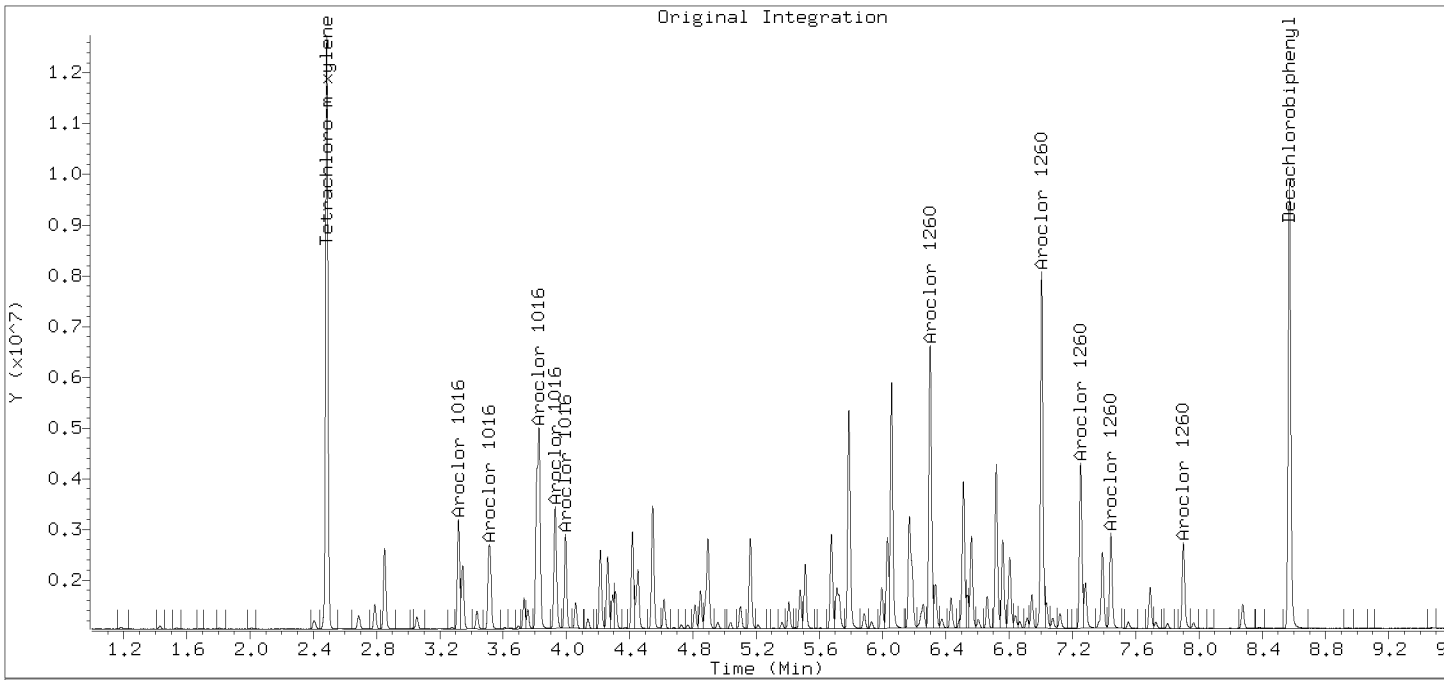
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

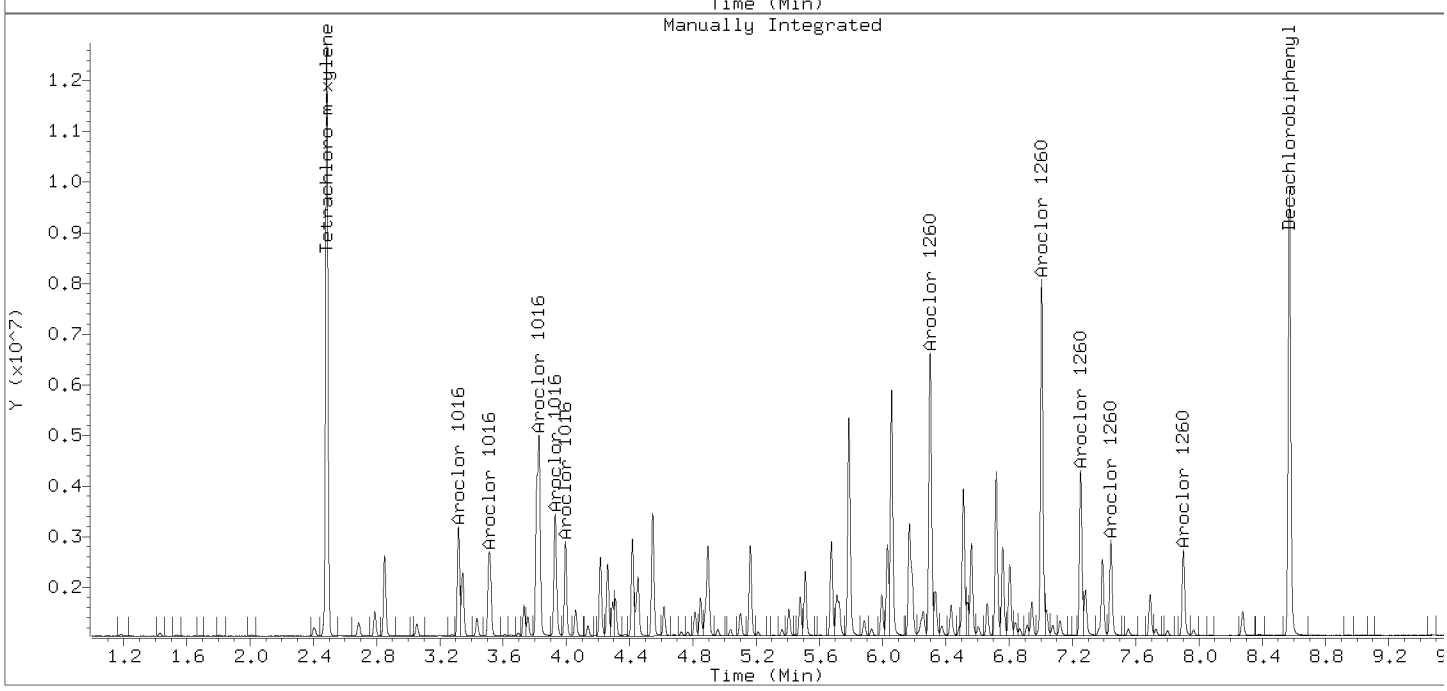
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618064.D
Date : 06-MAR-2018 19:23
Client ID: 1660-CAL4A
Sample Info: 1660-CAL4A, 185560:1

Instrument: 40GCSJ.i
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618064.D (ManInt: AR1660.sub Orig: AR1660.sub)
Injection Date: 06-MAR-2018 19:23 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1660-CAL4A





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	2324400	2333576	BA
Aroclor 1016	2324400	2333576	BA
Aroclor 1016	2324400	2333576	BA
Aroclor 1016	2324400	2333576	BA
Aroclor 1016	2324400	2333576	BA
Aroclor 1260	6681873	6710842	BA
Aroclor 1260	6681873	6710842	BA
Aroclor 1260	6681873	6710842	BA
Aroclor 1260	6681873	6710842	BA
Aroclor 1260	6681873	6710842	BA
Tetrachloro-m-xylene	12180955	12180955	
Decachlorobiphenyl	10160225	10160225	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618066.D
Lab Smp Id: 1660-CAL5A Client Smp ID: 1660-CAL5A
Inj Date : 06-MAR-2018 19:39
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-cal5a, 185561:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 34 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.187	97781	71878	0.735	0.05		
1.429	107893	87519	0.811	0.06		
1.538	44327	37507	0.846	0.02		
1.689	14954	14333	0.958	0.00		
1.805	29740	28315	0.952	0.01		
2.010	60528	44274	0.731	0.03		
2.195	10025	8478	0.846	0.00		
2.405	262681	207562	0.790	0.15		
2.485	18299527	17728359	0.969	11.17	$ 2 Tetrachloro-m-xylene	
2.688	390097	317641	0.814	0.22		
2.789	657209	632240	0.962	0.38		
2.851	2084131	1917446	0.920	1.20		
3.030	26436	29009	1.097	0.01		
3.056	320575	297217	0.927	0.18		
3.278	50946	36697	0.720	0.02		
3.318	2843186	2604947	0.916	1.64	5 Aroclor 1016	BA
3.345	1662911	1538320	0.925	0.96		
3.435	468814	430601	0.918	0.27		
3.513	2890424	2043297	0.707	1.67	5 Aroclor 1016	BA
3.609	62043	51821	0.835	0.03		
3.645	34136	30033	0.880	0.01		
3.697	81037	81549	1.006	0.04		
3.732	758995	759602	1.001	0.43		
3.756	489036	474710	0.971	0.28		
3.827	8333033	5039841	0.605	4.83	5 Aroclor 1016	BA
3.929	3523970	2978332	0.845	2.04	5 Aroclor 1016	BA
3.994	2424782	2289525	0.944	1.40	5 Aroclor 1016	BA
4.059	690218	639344	0.926	0.40		
4.137	268754	245577	0.914	0.15		
4.215	2047181	1927649	0.942	1.18		
4.262	1851518	1768522	0.955	1.07		
4.293	812332	825594	1.016	0.47		
4.310	980066	916238	0.935	0.56		
4.372	57766	44143	0.764	0.03		
4.418	2565892	2366938	0.922	1.48		
4.453	1929565	1448450	0.751	1.11		
4.546	3331677	3063380	0.919	1.93		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.617	763681	725726	0.950	0.44	
4.681	43434	35484	0.817	0.02	
4.728	114565	101125	0.883	0.06	
4.768	108255	99422	0.918	0.06	
4.814	619087	601641	0.972	0.35	
4.849	956824	929295	0.971	0.55	
4.895	3006449	2129145	0.708	1.74	
4.958	194324	157336	0.810	0.11	
5.038	174178	158253	0.909	0.10	
5.101	636910	553004	0.868	0.36	
5.163	2438926	2194509	0.900	1.41	
5.212	111384	92369	0.829	0.06	
5.308	27827	26460	0.951	0.01	
5.364	165309	157324	0.952	0.09	
5.408	704023	646364	0.918	0.40	
5.443	29112	28546	0.981	0.01	
5.479	1000519	928454	0.928	0.57	
5.510	1729074	1534039	0.887	1.00	
5.576	19550	16048	0.821	0.01	
5.604	34848	27975	0.803	0.02	
5.675	2490301	2308914	0.927	1.44	
5.711	1866212	995046	0.533	1.08	
5.787	6185492	5328228	0.861	3.58	
5.883	417579	397243	0.951	0.24	
5.930	202848	167345	0.825	0.11	
5.995	1064293	993125	0.933	0.61	
6.031	2357002	2281362	0.968	1.36	
6.056	6802716	5913555	0.869	3.94	
6.169	4398269	2916854	0.663	2.54	
6.256	1013848	595870	0.588	0.58	
6.299	8372147	6873251	0.821	4.85	8 Aroclor 1260
6.334	1228651	1117268	0.909	0.71	
6.374	310797	237866	0.765	0.18	
6.433	875594	776637	0.887	0.50	
6.486	186696	226162	1.211	0.10	
6.510	4055406	3619288	0.892	2.35	
6.536	804268	870936	1.083	0.46	
6.562	2530676	2228116	0.880	1.46	
6.606	275537	224114	0.813	0.15	
6.660	821602	744134	0.906	0.47	
6.718	4363168	3923038	0.899	2.52	
6.759	2436592	2160749	0.887	1.41	
6.804	2046255	1732909	0.847	1.18	
6.840	379385	321813	0.848	0.21	
6.866	193686	163537	0.844	0.11	
6.913	279672	253923	0.908	0.16	
6.943	893745	829547	0.928	0.51	
7.006	9552528	8232909	0.862	5.53	8 Aroclor 1260
7.036	634159	627991	0.990	0.36	
7.075	290251	237040	0.817	0.16	
7.122	440812	358276	0.813	0.25	
7.222	14569	17676	1.213	0.00	
7.252	4561710	4033993	0.884	2.64	8 Aroclor 1260
7.283	1317583	1086644	0.825	0.76	
7.390	2273253	1907971	0.839	1.31	
7.444	2747730	2350698	0.856	1.59	8 Aroclor 1260
7.554	205956	170355	0.827	0.11	

Data File: ...wintarget\data2\chem\40GCSJ.i\030618.b\030618066.D Page 3
Report Date: 22-Mar-2018 13:35

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.692	1143671	1008027	0.881	0.66	
7.728	196307	160265	0.816	0.11	
7.778	26925	26862	0.998	0.01	
7.801	147398	123041	0.835	0.08	
7.901	2485127	2093291	0.842	1.44	8 Aroclor 1260
7.966	182440	138184	0.757	0.10	
8.071	16818	11151	0.663	0.00	
8.276	710759	618559	0.870	0.41	
8.379	47324	33393	0.706	0.02	
8.572	15073641	13074115	0.867	8.73	$ 12 Decachlorobiphenyl
8.944	40002	27870	0.697	0.02	
9.088	20422	15432	0.756	0.01	
9.469	45604	27683	0.607	0.02	
9.964	44216	30829	0.697	0.02	
	172514109	148782492		100.000	

Total unknown % area = 52

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618066.D
Lab Smp Id: 1660-CAL5A Client Smp ID: 1660-CAL5A
Inj Date : 06-MAR-2018 19:39
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-cal5a, 185561:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 34 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	18299526	0.15000	0.15			
5 Aroclor 1016					CAS #: 12674-11-2			
3.318	3.318	0.000	2843185	1.00000	0.92	0.00- 20.00	100.00(M)	BA
3.512	3.512	0.000	2890423	1.00000	0.93	0.00- 20.00	101.66	BA
3.826	3.826	0.000	8333033	1.00000	0.94	0.00- 20.00	293.09	BA
3.928	3.929	-0.001	3523970	1.00000	0.93	0.00- 20.00	123.94	BA
3.994	3.994	0.000	2424781	1.00000	0.93	0.00- 20.00	85.28	BA
Average of Peak Amounts =					0.93000			
8 Aroclor 1260					CAS #: 11096-82-5			
6.299	6.300	-0.001	8372147	1.00000	0.94	0.00- 20.00	100.00(M)	BA
7.005	7.006	-0.001	9552528	1.00000	0.95	0.00- 20.00	114.10	BA
7.251	7.251	0.000	4561709	1.00000	0.95	0.00- 20.00	54.49	BA
7.443	7.443	0.000	2747730	1.00000	0.94	0.00- 20.00	32.82	BA
7.900	7.901	-0.001	2485127	1.00000	0.94	0.00- 20.00	29.68	BA
Average of Peak Amounts =					0.94400			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	15073640	0.15000	0.14			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618066.D

Date : 06-MAR-2018 19:39

Client ID: 1660-CAL5A

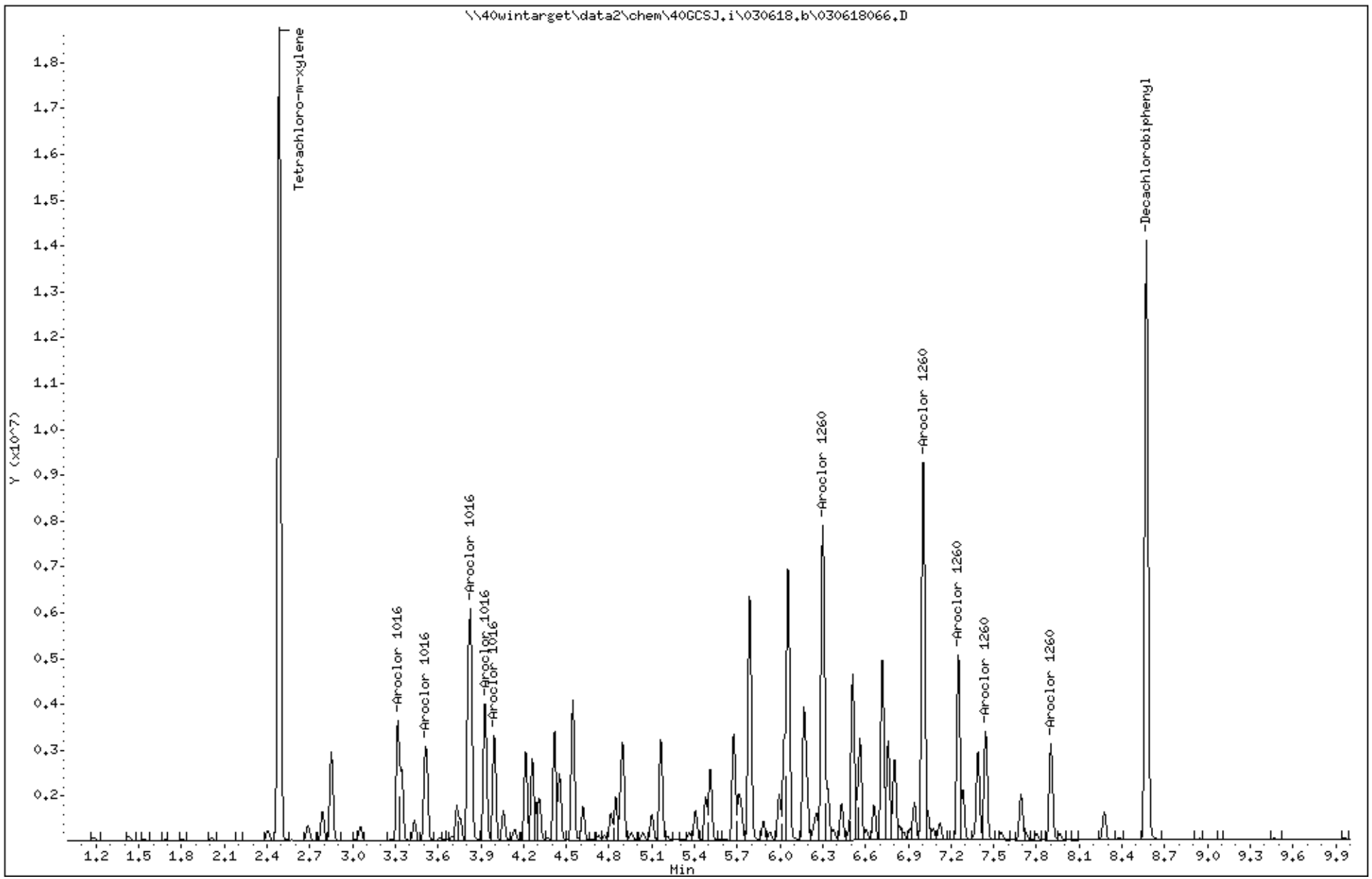
Instrument: 40GCSJ.i

Sample Info: 1660-CAL5A, 185561:1

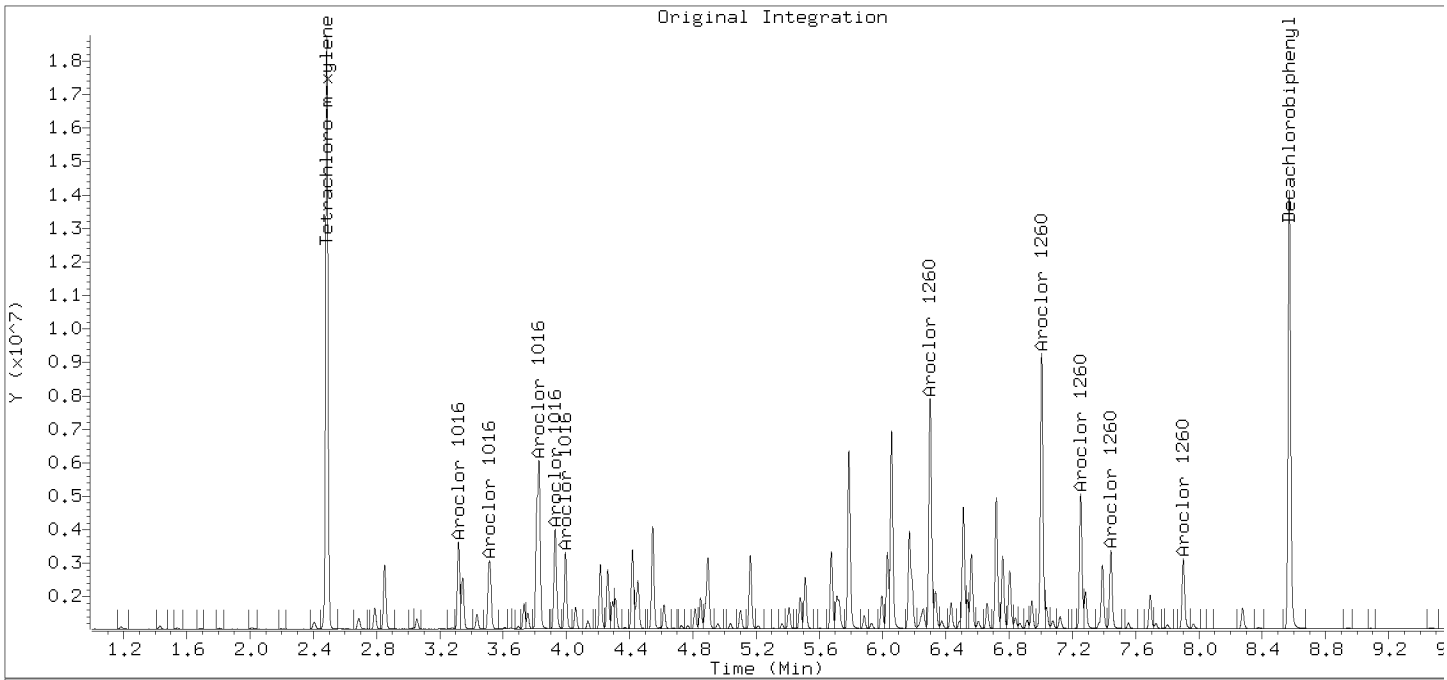
Operator: BLM

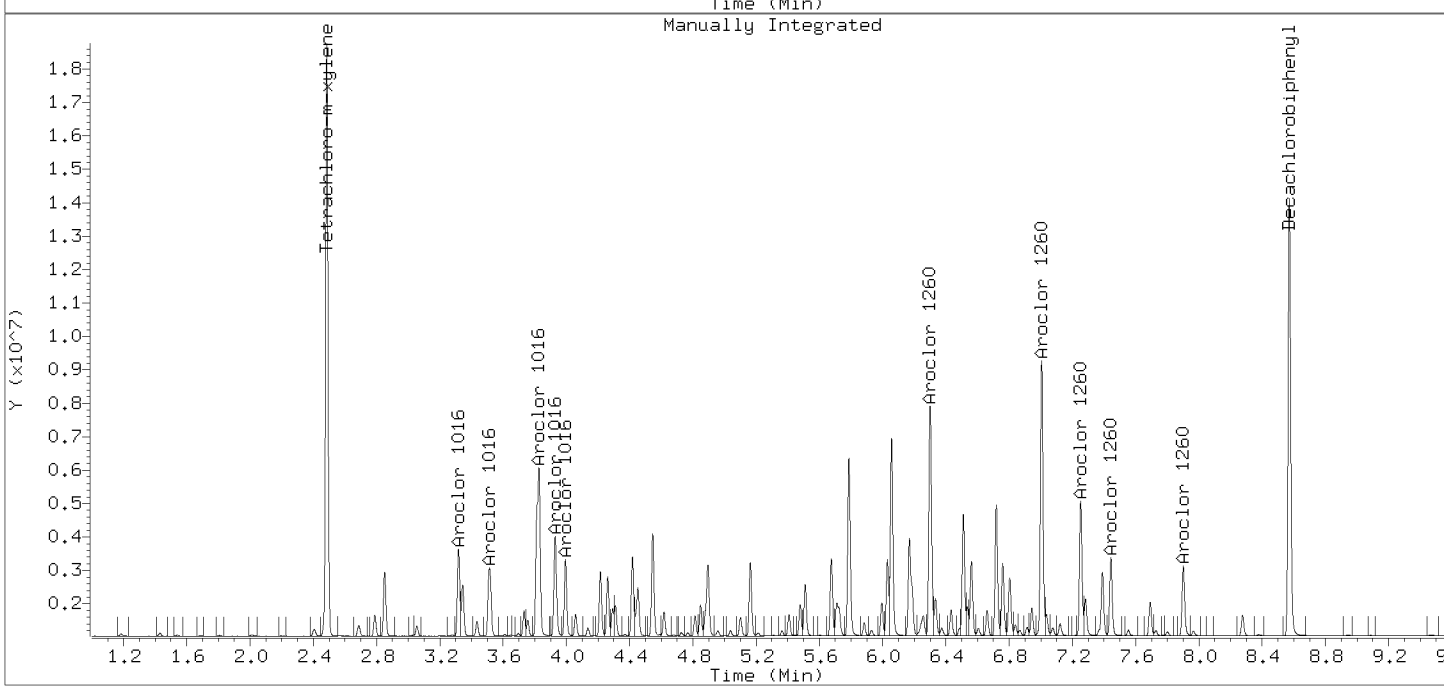
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618066.D (ManInt: AR1660.sub Orig: AR1660.sub)
Injection Date: 06-MAR-2018 19:39 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1660-CAL5A





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	2831739	2843185	BA
Aroclor 1016	2831739	2843185	BA
Aroclor 1016	2831739	2843185	BA
Aroclor 1016	2831739	2843185	BA
Aroclor 1016	2831739	2843185	BA
Aroclor 1260	8339409	8372147	BA
Aroclor 1260	8339409	8372147	BA
Aroclor 1260	8339409	8372147	BA
Aroclor 1260	8339409	8372147	BA
Aroclor 1260	8339409	8372147	BA
Tetrachloro-m-xylene	18299526	18299526	
Decachlorobiphenyl	15073640	15073640	

PCB Low Level Calibration % Difference Check

Lab Name: Pace Analytical - Green Bay
Instrument ID: 40GCSJ
Calibration Date: 3/6/2018

Aroclor	True Value	Abundance Concentration	% Difference	Acceptance Criteria %	Pass/Fail
AR1221-CAL1	.1	0.109383	9.383	20	Pass
AR1242-CAL1	.1	0.108828	8.828	20	Pass
AR1248-CAL1	.1	0.106694	6.694	20	Pass
AR1254-CAL1	.1	0.10796	7.96	20	Pass
AR1016-CAL1	.1	0.109056	9.056	20	Pass
AR1260-CAL1	.1	0.10731	7.31	20	Pass

SAMPLE NO.

10757904ICV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/06/2018 Time: 20:11

Instrument ID: 40GCSJ GC Column: Col 1
Init. Calib. Date(s): 03/06/2018 03/06/2018

Lab File ID: 030618.B\030618070.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40157825

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1221	1	Averaged	1.804	1.77	1.838	1041256.70	1074308.00	3.1742
Aroclor 1221	2	Averaged	2.407	2.373	2.441	547842.900	558458.000	1.9376
Aroclor 1221	3	Averaged	2.688	2.654	2.722	1383336.70	1446642.00	4.5763
Aroclor 1221	4	Averaged	2.789	2.755	2.823	1105769.55	1114194.00	0.7619
Aroclor 1221	5	Averaged	2.851	2.817	2.885	3255397.65	3446964.00	5.8846
Decachlorobiphenyl (S)		Averaged	8.571	8.537	8.605	109559990.	106438520.	-2.8491
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	119469080.	-3.1031

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

10757932ICV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/06/2018 Time: 20:27

Instrument ID: 40GCSJ GC Column: Col 1
Init. Calib. Date(s): 03/06/2018 03/06/2018

Lab File ID: 030618.B\030618072.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40157825

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1242	1	Averaged	3.317	3.284	3.352	2533198.70	2574948.00	1.6481
Aroclor 1242	2	Averaged	3.513	3.479	3.547	2520033.45	2587724.00	2.6861
Aroclor 1242	3	Averaged	3.825	3.793	3.861	7116457.95	7162442.00	0.6462
Aroclor 1242	4	Averaged	3.928	3.895	3.963	3041534.65	3109342.00	2.2294
Aroclor 1242	5	Averaged	3.993	3.961	4.029	2047746.90	2082504.00	1.6973
Decachlorobiphenyl (S)		Averaged	8.571	8.537	8.605	109559990.	100680260.	-8.1049
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	117472720.	-4.7223

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

10757923ICV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/06/2018 Time: 20:44

Instrument ID: 40GCSJ GC Column: Col 1
Init. Calib. Date(s): 03/06/2018 03/06/2018

Lab File ID: 030618.B\030618074.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40157825

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1248	1	Averaged	4.261	4.227	4.295	2342973.85	2416006.00	3.1171
Aroclor 1248	2	Averaged	4.545	4.512	4.58	4150305.95	4272006.00	2.9323
Aroclor 1248	3	Averaged	4.813	4.778	4.846	2030080.20	2145142.00	5.6678
Aroclor 1248	4	Averaged	4.879	4.845	4.913	5037445.65	5257174.00	4.3619
Aroclor 1248	5	Averaged	5.037	5.004	5.072	3588546.15	3781714.00	5.3829
Decachlorobiphenyl (S)		Averaged	8.57	8.537	8.605	109559990.	103468660.	-5.5598
Tetrachloro-m-xylene		Averaged	2.485	2.45	2.518	123295106.	117995220.	-4.2985

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

10757930ICV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/06/2018 Time: 21:00

Instrument ID: 40GCSJ GC Column: Col 1
Init. Calib. Date(s): 03/06/2018 03/06/2018

Lab File ID: 030618.B\030618076.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40157825

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1254	1	Averaged	5.162	5.128	5.196	5235247.45	4908596.00	-6.2395
Aroclor 1254	2	Averaged	5.406	5.374	5.442	4301054.45	4023996.00	-6.4416
Aroclor 1254	3	Averaged	5.51	5.476	5.544	7766063.85	7114120.00	-8.3948
Aroclor 1254	4	Averaged	6.026	5.993	6.061	4869683.55	4559312.00	-6.3735
Aroclor 1254	5	Averaged	6.299	6.265	6.333	6507103.75	6351522.00	-2.3910
Decachlorobiphenyl (S)		Averaged	8.571	8.537	8.605	109559990.	103892160.	-5.1733
Tetrachloro-m-xylene		Averaged	2.485	2.45	2.518	123295106.	119128800.	-3.3791

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

10757911ICV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/06/2018 Time: 21:16

Instrument ID: 40GCSJ GC Column: Col 1
Init. Calib. Date(s): 03/06/2018 03/06/2018

Lab File ID: 030618.B\030618078.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40157825

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1016	1	Averaged	3.317	3.284	3.352	3080830.60	3151828.00	2.3045
Aroclor 1016	2	Averaged	3.512	3.478	3.546	3099002.40	3167044.00	2.1956
Aroclor 1016	3	Averaged	3.826	3.792	3.86	8861786.20	9017370.00	1.7557
Aroclor 1016	4	Averaged	3.928	3.895	3.963	3780223.45	3853260.00	1.9321
Aroclor 1016	5	Averaged	3.994	3.96	4.028	2603349.30	2572474.00	-1.1860
Aroclor 1260	1	Averaged	6.3	6.266	6.334	8862352.50	8433522.00	-4.8388
Aroclor 1260	2	Averaged	7.005	6.972	7.04	10014373.3	10338502.0	3.2366
Aroclor 1260	3	Averaged	7.251	7.217	7.285	4779803.15	4863954.00	1.7606
Aroclor 1260	4	Averaged	7.442	7.409	7.477	2915110.60	2985660.00	2.4201
Aroclor 1260	5	Averaged	7.901	7.867	7.935	2638735.95	2816390.00	6.7325
Decachlorobiphenyl (S)		Averaged	8.571	8.537	8.605	109559990.	104964120.	-4.1948
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	118641800.	-3.7741

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

10850971CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/30/2018 Time: 15:47

Instrument ID: 40GCSJ GC Column: Col 1
Init. Calib. Date(s): 03/06/2018 03/06/2018

Lab File ID: 033018.B\033018004.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40157825

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1232	1	Averaged	2.851	2.817	2.885	2500024.00	2538698.00	1.5469
Aroclor 1232	2	Averaged	3.513	3.479	3.547	1339782.00	1338104.00	-0.1252
Aroclor 1232	3	Averaged	3.826	3.793	3.861	3749726.00	3730710.00	-0.5071
Aroclor 1232	4	Averaged	3.929	3.895	3.963	1606492.00	1594924.00	-0.7201
Aroclor 1232	5	Averaged	3.994	3.961	4.029	1091876.00	1054644.00	-3.4099
Decachlorobiphenyl (S)		Averaged	8.571	8.537	8.605	109559990.	102155020.	-6.7588
Tetrachloro-m-xylene		Averaged	2.485	2.45	2.518	123295106.	115728840.	-6.1367

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

10850970CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/30/2018 Time: 18:57

Instrument ID: 40GCSJ GC Column: Col 1
Init. Calib. Date(s): 03/06/2018 03/06/2018

Lab File ID: 033018.B\033018016.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40157825

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1242	1	Averaged	3.318	3.284	3.352	2533198.70	2590076.00	2.2453
Aroclor 1242	2	Averaged	3.512	3.479	3.547	2520033.45	2573384.00	2.1171
Aroclor 1242	3	Averaged	3.825	3.793	3.861	7116457.95	7354464.00	3.3444
Aroclor 1242	4	Averaged	3.928	3.895	3.963	3041534.65	3157966.00	3.8280
Aroclor 1242	5	Averaged	3.994	3.961	4.029	2047746.90	2096922.00	2.4014
Decachlorobiphenyl (S)		Averaged	8.57	8.537	8.605	109559990.	108080680.	-1.3502
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	120300920.	-2.4285

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

10858108CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/30/2018 Time: 22:08

Instrument ID: 40GCSJ GC Column: Col 1
Init. Calib. Date(s): 03/06/2018 03/06/2018

Lab File ID: 033018.B\033018028.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40157825

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1248	1	Averaged	4.26	4.227	4.295	2342973.85	2400608.00	2.4599
Aroclor 1248	2	Averaged	4.545	4.512	4.58	4150305.95	4192600.00	1.0191
Aroclor 1248	3	Averaged	4.812	4.778	4.846	2030080.20	2116228.00	4.2436
Aroclor 1248	4	Averaged	4.878	4.845	4.913	5037445.65	5214738.00	3.5195
Aroclor 1248	5	Averaged	5.037	5.004	5.072	3588546.15	3736722.00	4.1291
Decachlorobiphenyl (S)		Averaged	8.569	8.537	8.605	109559990.	108248000.	-1.1975
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	119920640.	-2.7369

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

10858107CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/31/2018 Time: 01:18

Instrument ID: 40GCSJ GC Column: Col 1
Init. Calib. Date(s): 03/06/2018 03/06/2018

Lab File ID: 033018.B\033018040.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40157825

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1254	1	Averaged	5.161	5.128	5.196	5235247.45	5440054.00	3.9121
Aroclor 1254	2	Averaged	5.406	5.374	5.442	4301054.45	4533664.00	5.4082
Aroclor 1254	3	Averaged	5.508	5.476	5.544	7766063.85	8086166.00	4.1218
Aroclor 1254	4	Averaged	6.024	5.993	6.061	4869683.55	5294696.00	8.7277
Aroclor 1254	5	Averaged	6.297	6.265	6.333	6507103.75	6936822.00	6.6038
Decachlorobiphenyl (S)		Averaged	8.569	8.537	8.605	109559990.	113311960.	3.4246
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	124423960.	0.9156

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

10862544CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/31/2018 Time: 04:28

Instrument ID: 40GCSJ GC Column: Col 1
Init. Calib. Date(s): 03/06/2018 03/06/2018

Lab File ID: 033018.B\033018052.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40157825

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1016	1	Averaged	3.317	3.284	3.352	3080830.60	3183922.00	3.3462
Aroclor 1016	2	Averaged	3.512	3.478	3.546	3099002.40	3158442.00	1.9180
Aroclor 1016	3	Averaged	3.825	3.792	3.86	8861786.20	9251614.00	4.3990
Aroclor 1016	4	Averaged	3.928	3.895	3.963	3780223.45	3939236.00	4.2064
Aroclor 1016	5	Averaged	3.993	3.96	4.028	2603349.30	2674784.00	2.7440
Aroclor 1260	1	Averaged	6.299	6.266	6.334	8862352.50	9391290.00	5.9684
Aroclor 1260	2	Averaged	7.003	6.972	7.04	10014373.3	10730744.0	7.1534
Aroclor 1260	3	Averaged	7.25	7.217	7.285	4779803.15	5261122.00	10.0698
Aroclor 1260	4	Averaged	7.441	7.409	7.477	2915110.60	3056778.00	4.8598
Aroclor 1260	5	Averaged	7.9	7.867	7.935	2638735.95	2847404.00	7.9079
Decachlorobiphenyl (S)		Averaged	8.569	8.537	8.605	109559990.	115973180.	5.8536
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	124398320.	0.8948

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

10862543CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/31/2018 Time: 07:23

Instrument ID: 40GCSJ GC Column: Col 1
Init. Calib. Date(s): 03/06/2018 03/06/2018

Lab File ID: 033018.B\033018063.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40157825

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1221	1	Averaged	1.804	1.77	1.838	1041256.70	1044746.00	0.3351
Aroclor 1221	2	Averaged	2.406	2.373	2.441	547842.900	543216.000	-0.8446
Aroclor 1221	3	Averaged	2.688	2.654	2.722	1383336.70	1443690.00	4.3629
Aroclor 1221	4	Averaged	2.788	2.755	2.823	1105769.55	1125144.00	1.7521
Aroclor 1221	5	Averaged	2.85	2.817	2.885	3255397.65	3437292.00	5.5875
Decachlorobiphenyl (S)		Averaged	8.57	8.537	8.605	109559990.	113177380.	3.3017
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	122449340.	-0.6860

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

10862661CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 04/03/2018 Time: 15:01

Instrument ID: 40GCSJ GC Column: Col 1
Init. Calib. Date(s): 03/06/2018 03/06/2018

Lab File ID: 040318.B\040318004.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40157825

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1016	1	Averaged	3.317	3.284	3.352	3080830.60	3201068.00	3.9028
Aroclor 1016	2	Averaged	3.514	3.478	3.546	3099002.40	3213670.00	3.7001
Aroclor 1016	3	Averaged	3.826	3.792	3.86	8861786.20	9028538.00	1.8817
Aroclor 1016	4	Averaged	3.929	3.895	3.963	3780223.45	3862206.00	2.1687
Aroclor 1016	5	Averaged	3.994	3.96	4.028	2603349.30	2596426.00	-0.2659
Aroclor 1260	1	Averaged	6.299	6.266	6.334	8862352.50	9040592.00	2.0112
Aroclor 1260	2	Averaged	7.004	6.972	7.04	10014373.3	10246752.0	2.3205
Aroclor 1260	3	Averaged	7.251	7.217	7.285	4779803.15	4876322.00	2.0193
Aroclor 1260	4	Averaged	7.441	7.409	7.477	2915110.60	3050982.00	4.6609
Aroclor 1260	5	Averaged	7.9	7.867	7.935	2638735.95	2694334.00	2.1070
Decachlorobiphenyl (S)		Averaged	8.571	8.537	8.605	109559990.	114158140.	4.1969
Tetrachloro-m-xylene		Averaged	2.485	2.45	2.518	123295106.	127438280.	3.3604

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

10862662CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 04/03/2018 Time: 18:11

Instrument ID: 40GCSJ GC Column: Col 1
Init. Calib. Date(s): 03/06/2018 03/06/2018

Lab File ID: 040318.B\040318016.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40157825

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1221	1	Averaged	1.804	1.77	1.838	1041256.70	1075366.00	3.2758
Aroclor 1221	2	Averaged	2.408	2.373	2.441	547842.900	567032.000	3.5027
Aroclor 1221	3	Averaged	2.688	2.654	2.722	1383336.70	1463202.00	5.7734
Aroclor 1221	4	Averaged	2.788	2.755	2.823	1105769.55	1146626.00	3.6948
Aroclor 1221	5	Averaged	2.851	2.817	2.885	3255397.65	3519598.00	8.1158
Decachlorobiphenyl (S)		Averaged	8.572	8.537	8.605	109559990.	111571480.	1.8360
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	126502800.	2.6016

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

10883265CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 04/10/2018 Time: 19:39

Instrument ID: 40GCSJ GC Column: Col 1
Init. Calib. Date(s): 03/06/2018 03/06/2018

Lab File ID: 041018.B\041018028.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40157825

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1232	1	Averaged	2.85	2.817	2.885	2500024.00	2667442.00	6.6967
Aroclor 1232	2	Averaged	3.514	3.479	3.547	1339782.00	1383046.00	3.2292
Aroclor 1232	3	Averaged	3.825	3.793	3.861	3749726.00	3969136.00	5.8514
Aroclor 1232	4	Averaged	3.928	3.895	3.963	1606492.00	1704804.00	6.1197
Aroclor 1232	5	Averaged	3.993	3.961	4.029	1091876.00	1112998.00	1.9345
Decachlorobiphenyl (S)		Averaged	8.57	8.537	8.605	109559990.	105091020.	-4.0790
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	118805060.	-3.6417

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

10883264CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 04/10/2018 Time: 22:49

Instrument ID: 40GCSJ GC Column: Col 1
Init. Calib. Date(s): 03/06/2018 03/06/2018

Lab File ID: 041018.B\041018040.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40157825

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1242	1	Averaged	3.316	3.284	3.352	2533198.70	2657754.00	4.9169
Aroclor 1242	2	Averaged	3.512	3.479	3.547	2520033.45	2626344.00	4.2186
Aroclor 1242	3	Averaged	3.825	3.793	3.861	7116457.95	7550162.00	6.0944
Aroclor 1242	4	Averaged	3.928	3.895	3.963	3041534.65	3225182.00	6.0380
Aroclor 1242	5	Averaged	3.993	3.961	4.029	2047746.90	2162356.00	5.5968
Decachlorobiphenyl (S)		Averaged	8.569	8.537	8.605	109559990.	110791280.	1.1238
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	124422140.	0.9141

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

10893626CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 04/11/2018 Time: 01:59

Instrument ID: 40GCSJ GC Column: Col 1
Init. Calib. Date(s): 03/06/2018 03/06/2018

Lab File ID: 041018.B\041018052.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40157825

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1248	1	Averaged	4.26	4.227	4.295	2342973.85	2471400.00	5.4813
Aroclor 1248	2	Averaged	4.545	4.512	4.58	4150305.95	4330402.00	4.3393
Aroclor 1248	3	Averaged	4.812	4.778	4.846	2030080.20	2169900.00	6.8874
Aroclor 1248	4	Averaged	4.878	4.845	4.913	5037445.65	5359698.00	6.3971
Aroclor 1248	5	Averaged	5.036	5.004	5.072	3588546.15	3846072.00	7.1763
Decachlorobiphenyl (S)		Averaged	8.569	8.537	8.605	109559990.	113293120.	3.4074
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	124476080.	0.9578

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

10893627CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 04/11/2018 Time: 05:10

Instrument ID: 40GCSJ GC Column: Col 1
Init. Calib. Date(s): 03/06/2018 03/06/2018

Lab File ID: 041018.B\041018064.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40157825

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1254	1	Averaged	5.161	5.128	5.196	5235247.45	5292888.00	1.1010
Aroclor 1254	2	Averaged	5.406	5.374	5.442	4301054.45	4413072.00	2.6044
Aroclor 1254	3	Averaged	5.509	5.476	5.544	7766063.85	7881908.00	1.4917
Aroclor 1254	4	Averaged	6.024	5.993	6.061	4869683.55	5137738.00	5.5046
Aroclor 1254	5	Averaged	6.297	6.265	6.333	6507103.75	6779146.00	4.1807
Decachlorobiphenyl (S)		Averaged	8.57	8.537	8.605	109559990.	112291200.	2.4929
Tetrachloro-m-xylene		Averaged	2.485	2.45	2.518	123295106.	120958320.	-1.8953

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618070.D
Lab Smp Id: 1221-ICV Client Smp ID: 1221-ICV
Inj Date : 06-MAR-2018 20:11
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-icv, 188142:1
Misc Info : 17498,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 36 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1221.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.430	40840	33323	0.816	0.23		
1.537	17254	12915	0.749	0.09		
1.688	12270	8463	0.690	0.07		
1.804	537154	469858	0.875	3.07	1 Aroclor 1221	BA
2.158	11282	10928	0.969	0.06		
2.198	158378	141258	0.892	0.90		
2.407	279229	204848	0.734	1.60	1 Aroclor 1221	BA
2.485	5973454	5698500	0.954	34.47	$ 2 Tetrachloro-m-xylene	BA
2.688	723322	608616	0.841	4.14	1 Aroclor 1221	BA
2.789	557097	532699	0.956	3.19	1 Aroclor 1221	BA
2.851	1723482	1520837	0.882	9.87	1 Aroclor 1221	BA
3.053	42842	31274	0.730	0.24		
3.281	125722	92702	0.737	0.72		
3.324	409120	233739	0.571	2.34		
3.433	41957	33921	0.808	0.24		
3.514	152248	110173	0.724	0.87		
3.609	20491	17352	0.847	0.11		
3.693	13172	11957	0.908	0.07		
3.731	39776	40682	1.023	0.22		
3.755	38316	38664	1.009	0.21		
3.827	333479	205587	0.616	1.91		
3.930	166253	139975	0.842	0.95		
3.994	101078	94563	0.936	0.57		
4.058	16842	14008	0.832	0.09		
4.214	43249	38654	0.894	0.24		
4.260	30501	31686	1.039	0.17		
4.291	19839	13076	0.659	0.11		
4.418	34788	38094	1.095	0.19		
4.447	27970	19186	0.686	0.16		
4.544	57594	51561	0.895	0.33		
4.616	16740	13977	0.835	0.09		
4.815	23044	20925	0.908	0.13		
4.847	36853	34664	0.941	0.21		
4.879	53269	36786	0.691	0.30		
5.037	34294	32438	0.946	0.19		
5.103	10234	8648	0.845	0.05		
5.408	11500	8513	0.740	0.06		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.512	18851	12253	0.650	0.10	
5.783	9303	7027	0.755	0.05	
6.347	10003	6690	0.669	0.05	
6.867	9564	7223	0.755	0.05	
7.729	30210	25344	0.839	0.17	
7.802	20371	17570	0.862	0.11	
8.278	45102	38714	0.858	0.25	
8.572	5321926	4509273	0.847	30.49	$ 12 Decachlorobiphenyl
8.942	13753	10341	0.752	0.07	
9.470	11610	10452	0.900	0.06	
9.960	25620	14968	0.584	0.14	
	17451246	15314905		100.000	

Total unknown % area = 13

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618070.D
Lab Smp Id: 1221-ICV Client Smp ID: 1221-ICV
Inj Date : 06-MAR-2018 20:11
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-icv, 188142:1
Misc Info : 17498,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 36 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1221.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	5973454	0.05000	0.048		(M)	BA
1 Aroclor 1221					CAS #: 11104-28-2			
1.804	1.804	0.000	537154	0.50000	0.52	0.00- 20.00	100.00(M)	BA
2.407	2.407	0.000	279229	0.50000	0.51	0.00- 20.00	51.98	BA
2.688	2.688	0.000	723321	0.50000	0.52	0.00- 20.00	134.66	BA
2.789	2.789	0.000	557097	0.50000	0.50	0.00- 20.00	103.71	BA
2.851	2.851	0.000	1723482	0.50000	0.53	0.00- 20.00	320.85	BA
Average of Peak Amounts =					0.51600			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	5321926	0.05000	0.048			

QC Flag Legend

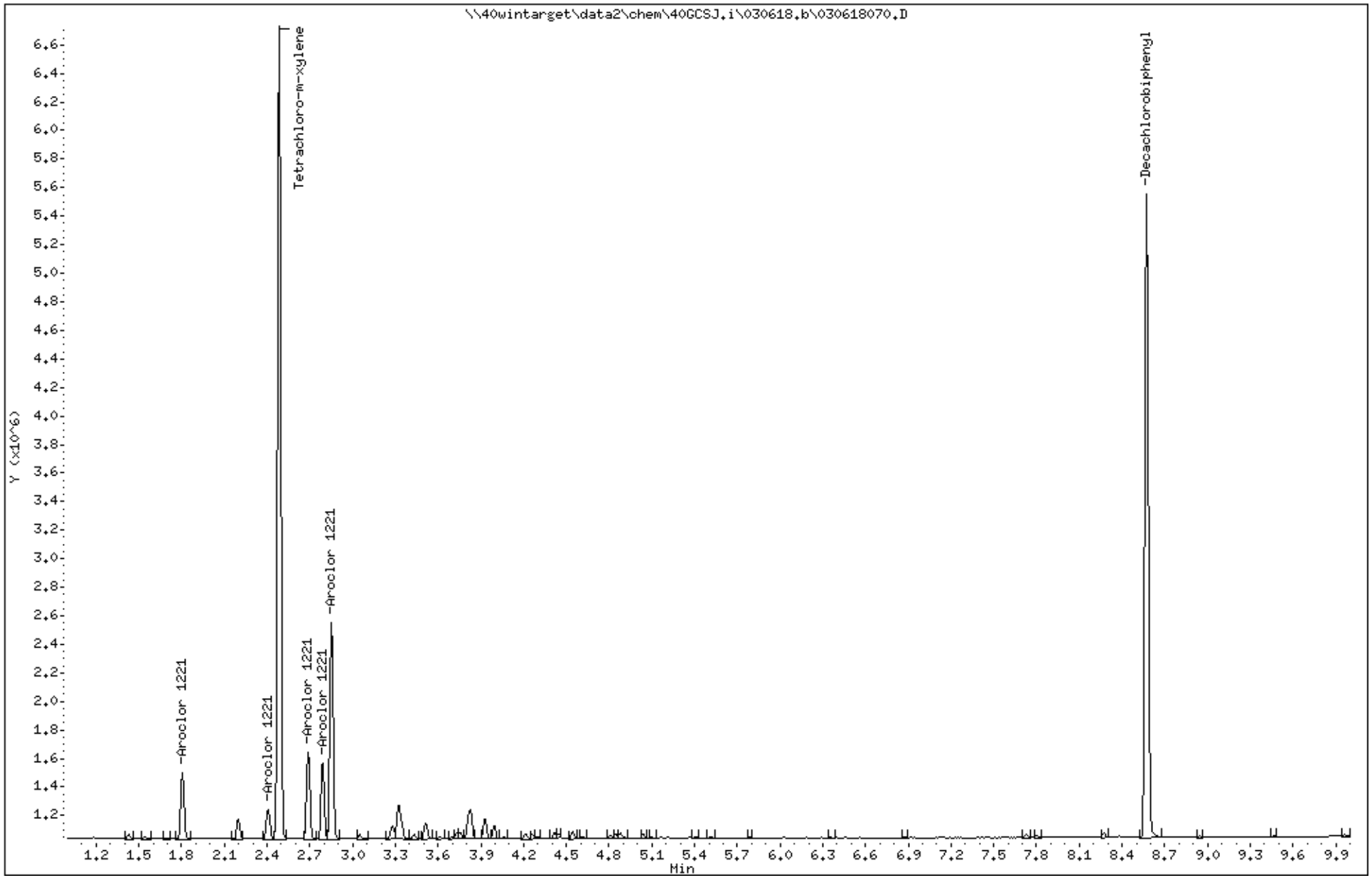
M - Compound response manually integrated.

Review Codes Legend

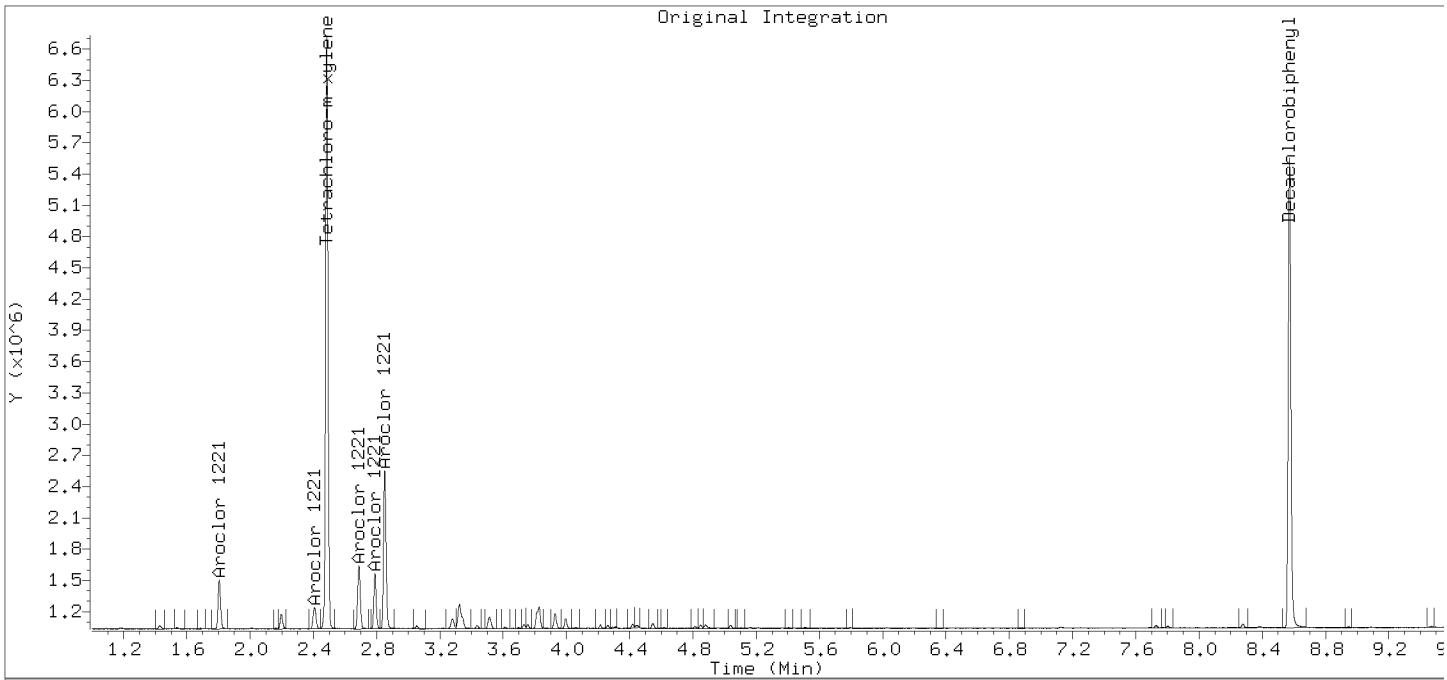
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

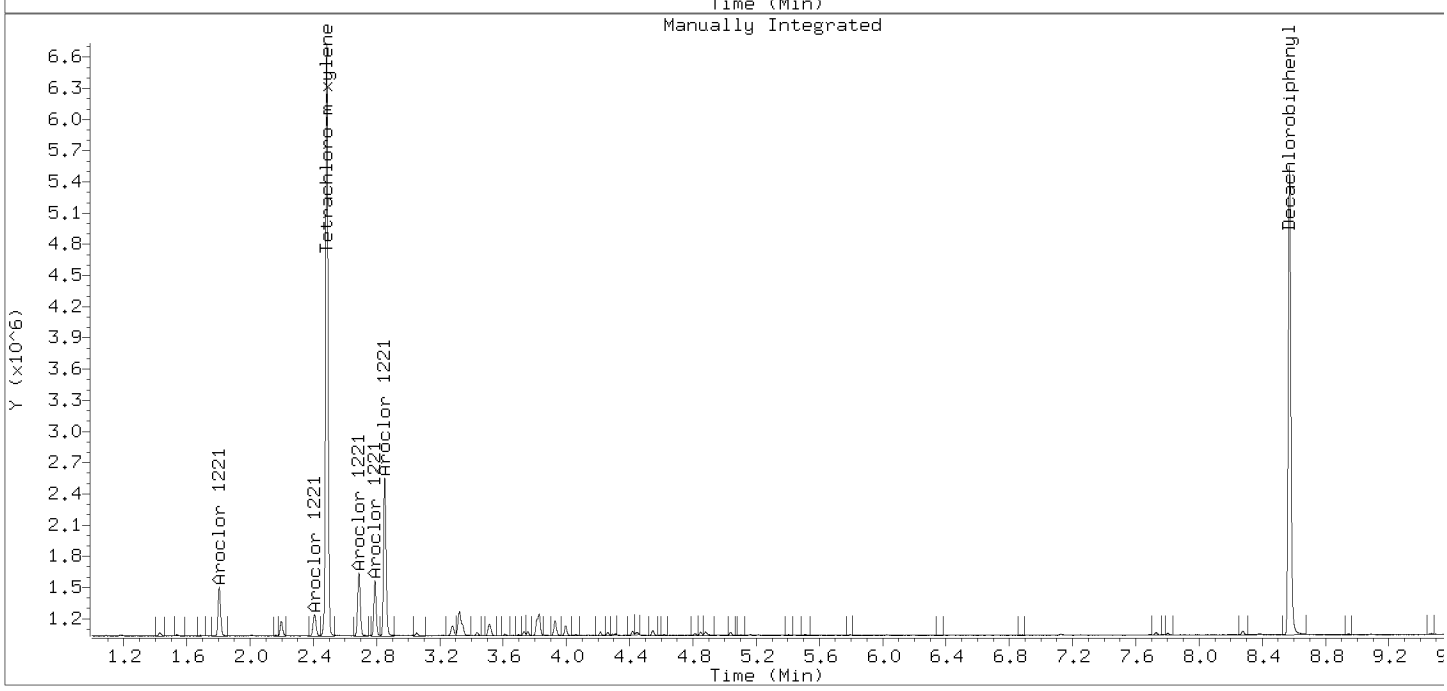
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618070.D
Date : 06-MAR-2018 20:11
Client ID: 1221-ICV
Sample Info: 1221-ICV, 188142:1

Instrument: 40GCSJ.i
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618070.D (ManInt: AR1221.sub Orig: AR1221.sub)
Injection Date: 06-MAR-2018 20:11 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1221-ICV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1221	531813	537154	BA
Aroclor 1221	531813	537154	BA
Aroclor 1221	531813	537154	BA
Aroclor 1221	531813	537154	BA
Aroclor 1221	531813	537154	BA
Tetrachloro-m-xylene	5952668	5973454	BA
Decachlorobiphenyl	5321926	5321926	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618072.D
Lab Smp Id: 1242-ICV Client Smp ID: 1242-ICV
Inj Date : 06-MAR-2018 20:27
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-icv, 185562:1
Misc Info : 17498,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 37 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1242.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.182	14288	12968	0.908	0.03		
1.428	37134	32784	0.883	0.09		
1.539	20685	13744	0.664	0.05		
1.806	19059	17804	0.934	0.05		
2.404	134346	103552	0.771	0.35		
2.485	5873636	5676099	0.966	16.03	$ 2 Tetrachloro-m-xylene	
2.686	193190	158466	0.820	0.51		
2.788	283870	272236	0.959	0.75		
2.850	999209	952371	0.953	2.66		
3.054	145787	130280	0.894	0.38		
3.279	24447	19522	0.799	0.06		
3.317	1287474	1200238	0.932	3.43	3 Aroclor 1242	BA
3.344	730459	693075	0.949	1.94		
3.435	207883	189325	0.911	0.55		
3.513	1293863	944289	0.730	3.44	3 Aroclor 1242	BA
3.612	22860	18377	0.804	0.06		
3.647	23439	16349	0.698	0.06		
3.696	36476	35506	0.973	0.09		
3.731	322838	319621	0.990	0.86		
3.756	213073	205263	0.963	0.56		
3.826	3581222	2097110	0.586	9.54	3 Aroclor 1242	BA
3.928	1554671	1293077	0.832	4.14	3 Aroclor 1242	BA
3.994	1041253	986439	0.947	2.77	3 Aroclor 1242	BA
4.058	279247	251769	0.902	0.74		
4.136	113510	101678	0.896	0.30		
4.215	824770	788034	0.955	2.19		
4.261	781405	765245	0.979	2.08		
4.292	312524	328346	1.051	0.83		
4.311	404517	367665	0.909	1.07		
4.372	27372	22538	0.823	0.07		
4.417	1118646	1040424	0.930	2.98		
4.452	854457	630460	0.738	2.27		
4.545	1421692	1283823	0.903	3.78		
4.618	334338	302865	0.906	0.89		
4.679	28007	18667	0.667	0.07		
4.728	68438	58015	0.848	0.18		
4.768	73081	69415	0.950	0.19		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.812	640662	618887	0.966	1.70	
4.848	1131783	1062264	0.939	3.01	
4.878	1453285	1083159	0.745	3.87	
4.957	156083	126825	0.813	0.41	
5.037	1224571	1114748	0.910	3.26	
5.099	245239	185939	0.758	0.65	
5.162	276625	246249	0.890	0.73	
5.212	201147	175293	0.871	0.53	
5.285	18730	16061	0.858	0.04	
5.312	50903	39235	0.771	0.13	
5.362	178111	159411	0.895	0.47	
5.407	296369	257265	0.868	0.78	
5.446	185486	163132	0.879	0.49	
5.509	494170	376849	0.763	1.31	
5.604	157705	129475	0.821	0.42	
5.670	15998	12262	0.766	0.04	
5.716	27499	21293	0.774	0.07	
5.741	38080	32982	0.866	0.10	
5.792	324066	249256	0.769	0.86	
5.891	46598	28590	0.614	0.12	
6.025	300272	225833	0.752	0.80	
6.173	22376	16996	0.760	0.05	
6.299	61219	54211	0.886	0.16	
6.335	9981	10468	1.049	0.02	
6.367	9764	8232	0.843	0.02	
6.801	13109	12142	0.926	0.03	
7.008	20895	16561	0.793	0.05	
7.124	16181	11660	0.721	0.04	
7.253	9479	8109	0.855	0.02	
7.392	10765	9021	0.838	0.02	
7.727	30633	26862	0.877	0.08	
7.802	22807	20254	0.888	0.06	
8.275	44979	37205	0.827	0.11	
8.381	12768	10411	0.815	0.03	
8.572	5034014	4309550	0.856	13.41	$ 12 Decachlorobiphenyl
9.466	9953	6796	0.683	0.02	
9.962	21579	14184	0.657	0.05	
	37517051	32315109		100.000	

Total unknown % area = 47

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618072.D
Lab Smp Id: 1242-ICV Client Smp ID: 1242-ICV
Inj Date : 06-MAR-2018 20:27
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-icv, 185562:1
Misc Info : 17498,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 37 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1242.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.484	2.484	0.000	5873636	0.05000	0.048			
3 Aroclor 1242						CAS #: 53469-21-9		
3.317	3.318	-0.001	1287474	0.50000	0.51	0.00- 20.00	100.00(M)	BA
3.513	3.513	0.000	1293862	0.50000	0.51	0.00- 20.00	100.50	BA
3.825	3.827	-0.002	3581221	0.50000	0.50	0.00- 20.00	278.16	BA
3.928	3.929	-0.001	1554671	0.50000	0.51	0.00- 20.00	120.75	BA
3.993	3.995	-0.002	1041252	0.50000	0.51	0.00- 20.00	80.88	BA
Average of Peak Amounts =					0.50800			
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
8.571	8.571	0.000	5034013	0.05000	0.046			

QC Flag Legend

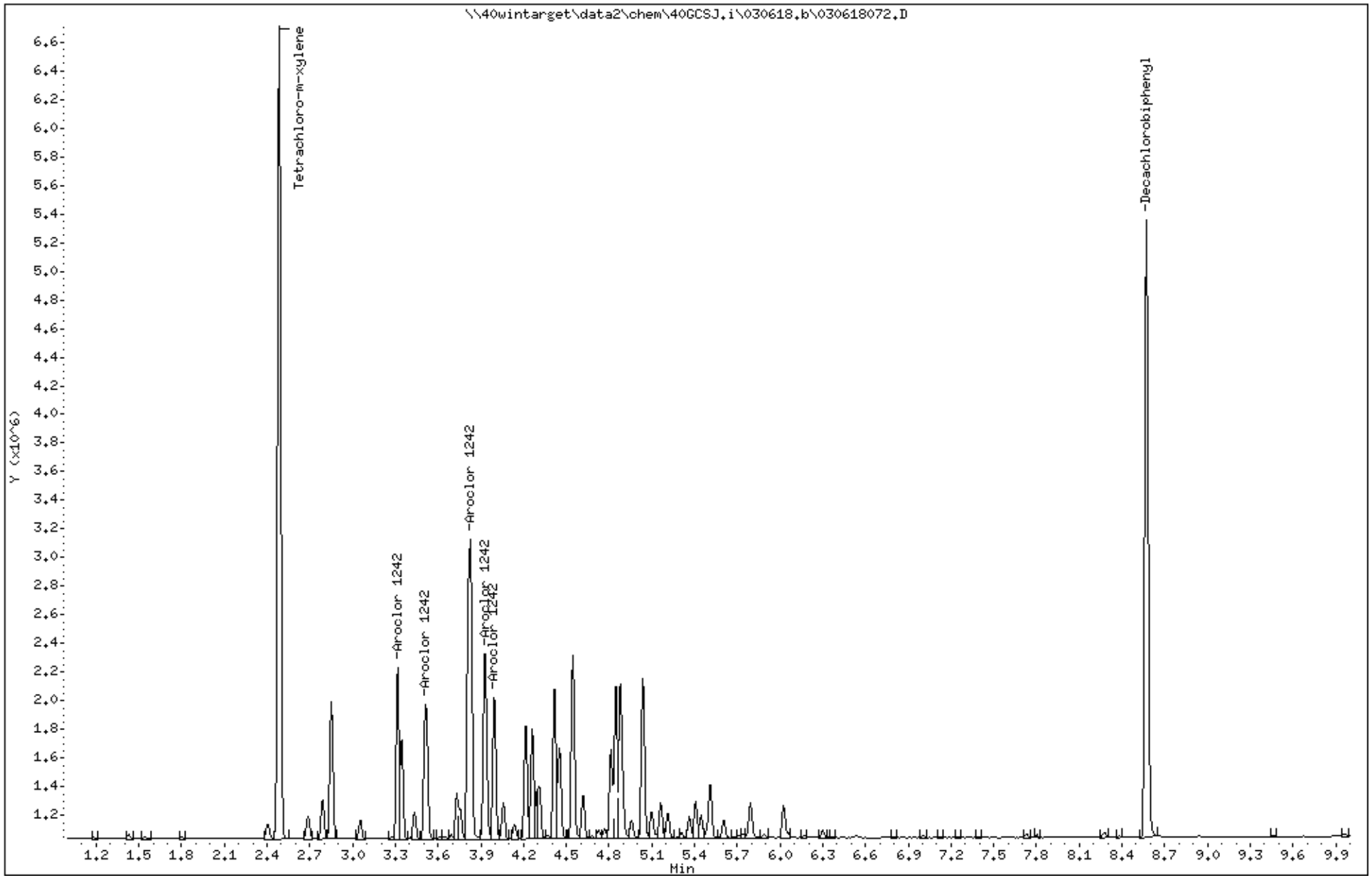
M - Compound response manually integrated.

Review Codes Legend

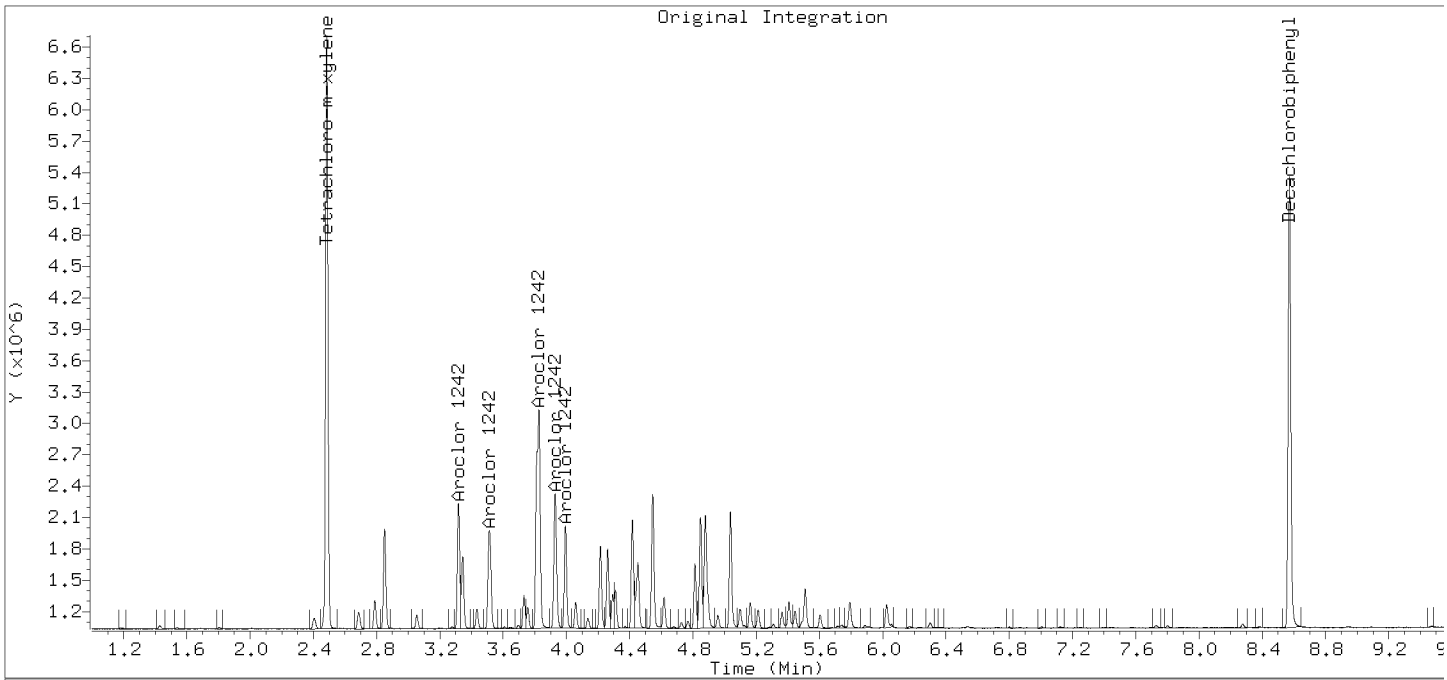
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

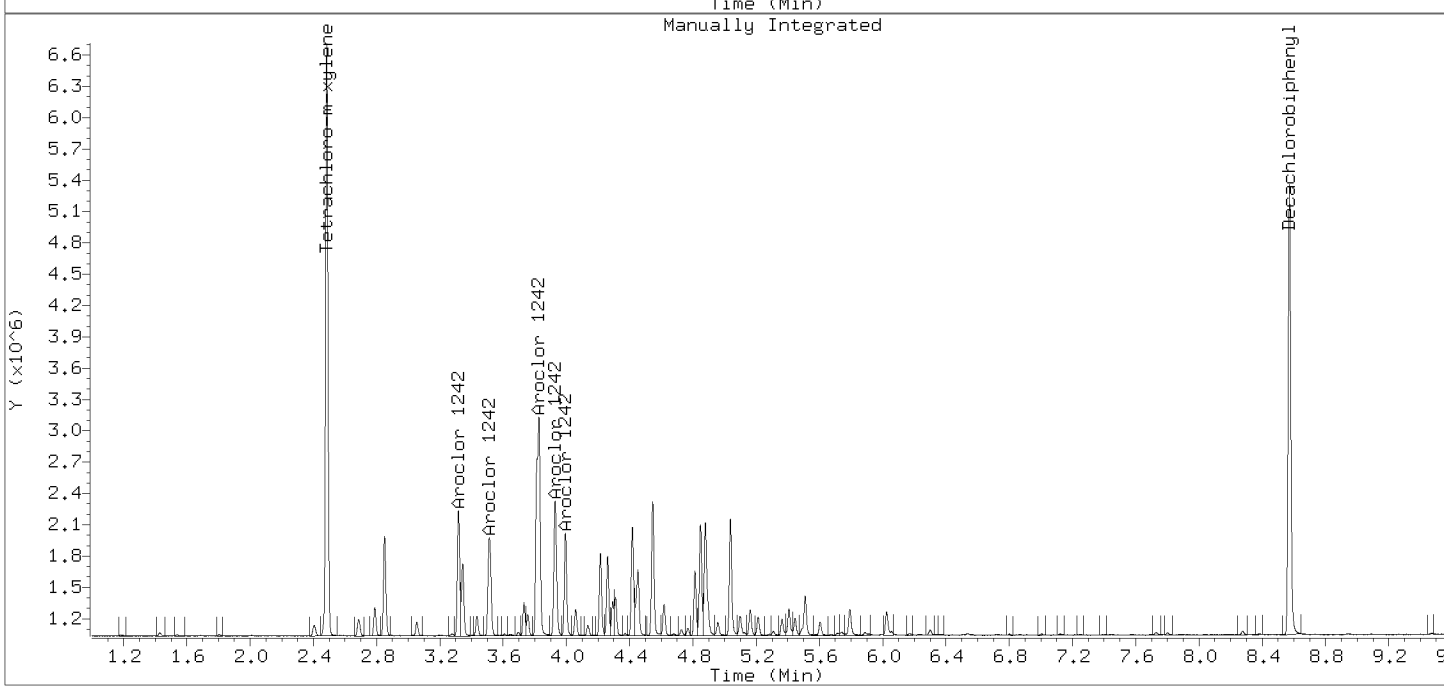
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618072.D
Date : 06-MAR-2018 20:27
Client ID: 1242-ICV
Sample Info: 1242-ICV, 185562:1

Instrument: 40GCSJ.i
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618072.D (ManInt: AR1242.sub Orig: AR1242.sub)
Injection Date: 06-MAR-2018 20:27 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1242-ICV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1242	1280662	1287474	BA
Aroclor 1242	1280662	1287474	BA
Aroclor 1242	1280662	1287474	BA
Aroclor 1242	1280662	1287474	BA
Aroclor 1242	1280662	1287474	BA
Tetrachloro-m-xylene	5873636	5873636	
Decachlorobiphenyl	5034013	5034013	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618074.D
Lab Smp Id: 1248-ICV Client Smp ID: 1248-ICV
Inj Date : 06-MAR-2018 20:44
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-icv, 185563:1
Misc Info : 17498,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 38 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1248.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.181	17909	14420	0.805	0.04		
1.427	41300	30754	0.745	0.09		
1.534	17534	12165	0.694	0.04		
1.683	10383	10019	0.965	0.02		
2.405	14088	10428	0.740	0.03		
2.485	5899761	5544150	0.940	14.05	$ 2 Tetrachloro-m-xylene	
2.689	16668	12362	0.742	0.03		
2.788	95501	90846	0.951	0.22		
2.852	103096	93433	0.906	0.23		
3.055	53842	46986	0.873	0.12		
3.318	652092	633367	0.971	1.50		
3.344	255476	242530	0.949	0.58		
3.433	54381	45369	0.834	0.12		
3.515	528681	378059	0.715	1.22		
3.612	17192	16665	0.969	0.03		
3.733	139942	107922	0.771	0.32		
3.815	998138	1180553	1.183	2.30		
3.825	1248615	1194584	0.957	2.88		
3.931	835250	638277	0.764	1.92		
3.995	550006	533435	0.970	1.26		
4.059	343387	326192	0.950	0.79		
4.137	145276	132173	0.910	0.33		
4.215	1486323	1403883	0.945	3.43		
4.262	1208004	1159133	0.960	2.78	6 Aroclor 1248	BA
4.293	511269	526568	1.030	1.17		
4.311	543428	513963	0.946	1.25		
4.418	1823450	1718104	0.942	4.20		
4.452	908943	795006	0.875	2.09		
4.546	2136003	1914178	0.896	4.92	6 Aroclor 1248	BA
4.588	34235	33628	0.982	0.07		
4.618	485337	462281	0.952	1.12		
4.680	28053	23489	0.837	0.06		
4.728	63611	50641	0.796	0.14		
4.769	114596	110060	0.960	0.26		
4.813	1072572	1047618	0.977	2.47	6 Aroclor 1248	BA
4.848	2019974	1872521	0.927	4.66		
4.880	2628588	1729939	0.658	6.06	6 Aroclor 1248	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.958	300549	254865	0.848	0.69	
5.037	1890857	1718796	0.909	4.36	6 Aroclor 1248
5.099	658439	515140	0.782	1.51	
5.163	778429	704282	0.905	1.79	
5.212	561933	511880	0.911	1.29	
5.284	37417	36848	0.985	0.08	
5.309	124762	104101	0.834	0.28	
5.364	496549	440266	0.887	1.14	
5.408	826216	719936	0.871	1.90	
5.446	528194	462528	0.876	1.21	
5.510	1373479	1108021	0.807	3.16	
5.604	398982	348600	0.874	0.92	
5.675	36019	29954	0.832	0.08	
5.717	78189	59388	0.760	0.18	
5.739	98549	89525	0.908	0.22	
5.793	935796	748637	0.800	2.15	
5.889	98768	81563	0.826	0.22	
5.996	31650	25516	0.806	0.07	
6.024	912880	698617	0.765	2.10	
6.169	70680	48903	0.692	0.16	
6.228	45926	27843	0.606	0.10	
6.301	222697	182730	0.821	0.51	
6.335	46487	36946	0.795	0.10	
6.372	40036	31572	0.789	0.09	
6.512	15047	14089	0.936	0.03	
6.536	93754	63840	0.681	0.21	
6.607	16189	11424	0.706	0.03	
6.719	21159	16941	0.801	0.04	
6.759	10928	9914	0.907	0.02	
6.804	35912	32894	0.916	0.08	
7.005	37431	32956	0.880	0.08	
7.126	11973	10422	0.870	0.02	
7.253	25115	21545	0.858	0.05	
7.683	12978	7477	0.576	0.02	
7.730	34860	28466	0.817	0.08	
7.799	36493	21426	0.587	0.08	
7.900	14089	11492	0.816	0.03	
8.274	45874	41456	0.904	0.10	
8.380	17315	11279	0.651	0.03	
8.571	5173433	4424436	0.855	11.93	$ 12 Decachlorobiphenyl
8.940	12157	9669	0.795	0.02	
9.960	18949	14032	0.741	0.04	
	43330043	38425916		100.000	

Total unknown % area = 53

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618074.D
Lab Smp Id: 1248-ICV Client Smp ID: 1248-ICV
Inj Date : 06-MAR-2018 20:44
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-icv, 185563:1
Misc Info : 17498,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 38 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1248.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	5899761	0.05000	0.048			
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	1208003	0.50000	0.52	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	2136003	0.50000	0.51	0.00- 20.00	176.82	BA
4.813	4.812	0.001	1072571	0.50000	0.53	0.00- 20.00	88.79	BA
4.879	4.879	0.000	2628587	0.50000	0.52	0.00- 20.00	217.60	BA
5.037	5.038	-0.001	1890857	0.50000	0.53	0.00- 20.00	156.53	BA
Average of Peak Amounts =					0.52200			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	5173433	0.05000	0.047			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618074.D

Date : 06-MAR-2018 20:44

Client ID: 1248-ICV

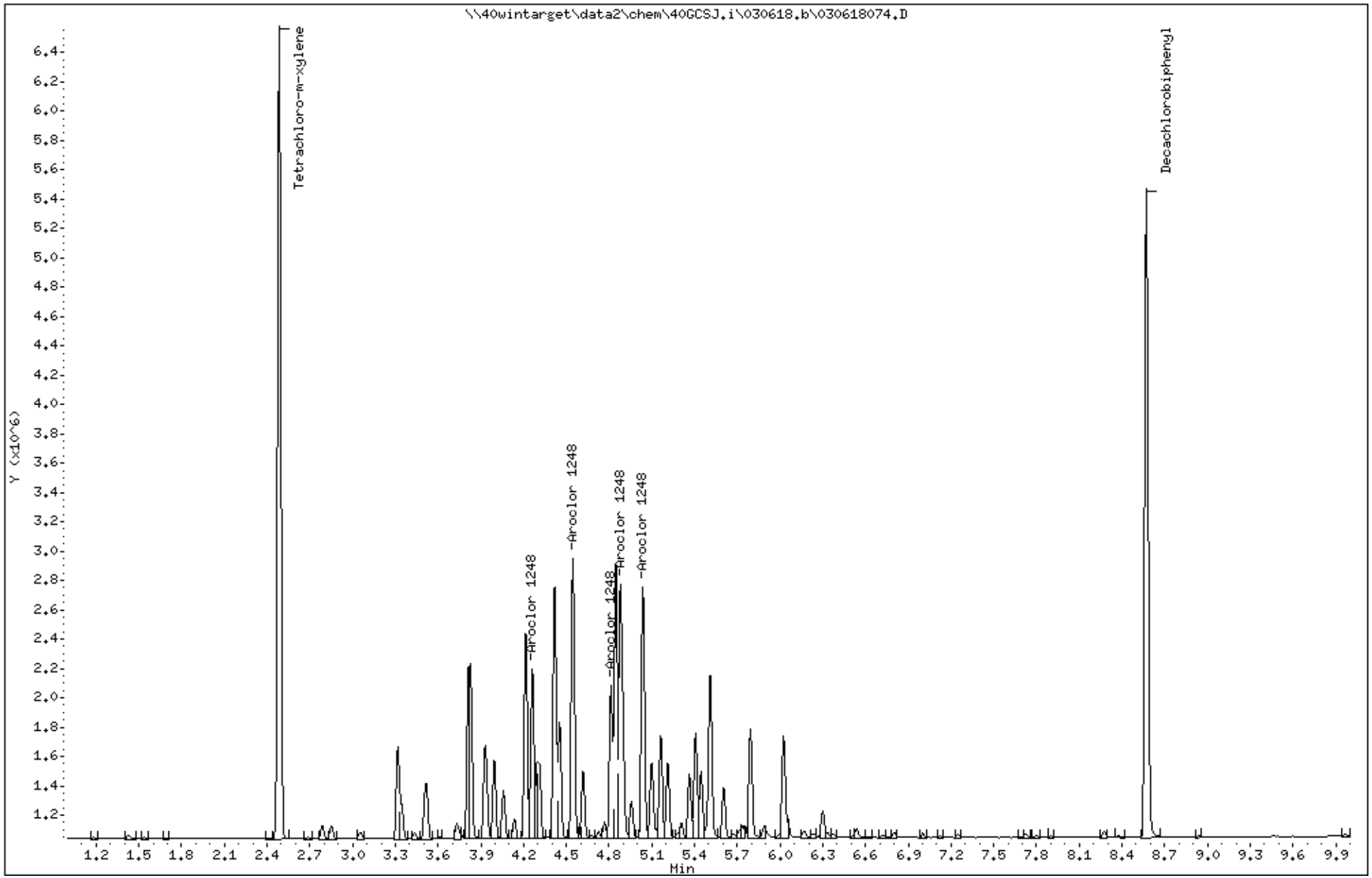
Instrument: 40GCSJ.i

Sample Info: 1248-ICV, 185563:1

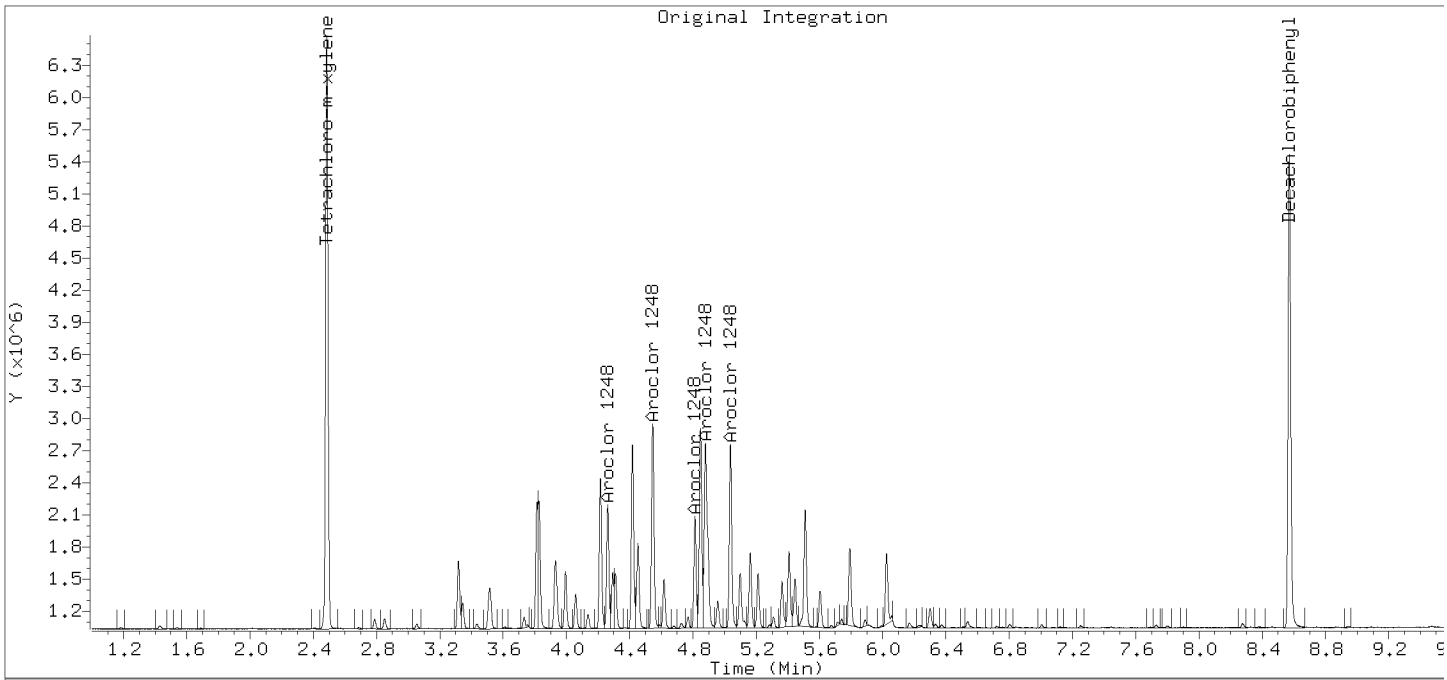
Operator: BLM

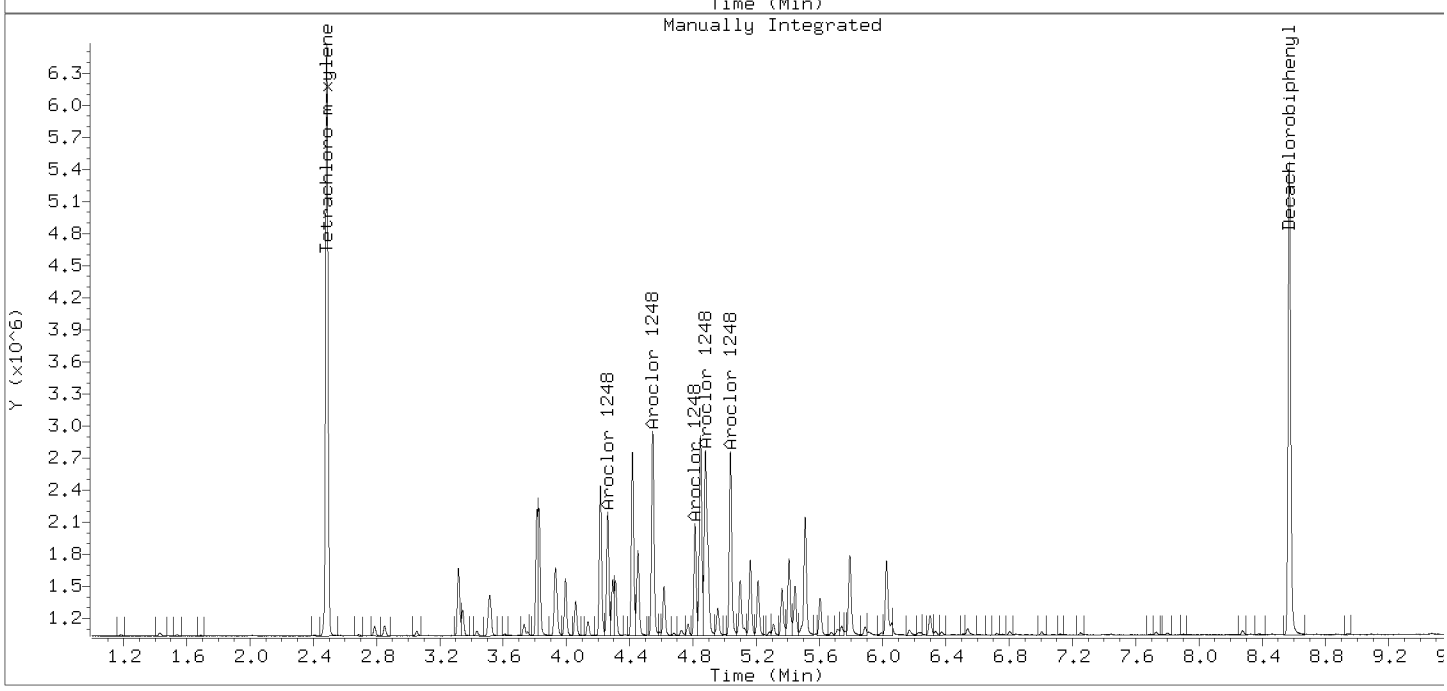
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618074.D (ManInt: AR1248.sub Orig: AR1248.sub)
Injection Date: 06-MAR-2018 20:44 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1248-ICV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1248	1202018	1208003	BA
Aroclor 1248	1202018	1208003	BA
Aroclor 1248	1202018	1208003	BA
Aroclor 1248	1202018	1208003	BA
Aroclor 1248	1202018	1208003	BA
Tetrachloro-m-xylene	5899761	5899761	
Decachlorobiphenyl	5173433	5173433	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618076.D
Lab Smp Id: 1254-ICV Client Smp ID: 1254-ICV
Inj Date : 06-MAR-2018 21:00
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-icv, 185564:1
Misc Info : 17498,AR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 39 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1254.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.181	11241	11145	0.991	0.02		
1.429	37023	29359	0.793	0.07		
1.536	18870	14547	0.771	0.03		
2.485	5956441	5624399	0.944	12.17	$ 2 Tetrachloro-m-xylene	
2.787	83932	83545	0.995	0.16		
2.847	23487	12751	0.543	0.04		
3.053	22053	16758	0.760	0.04		
3.320	24424	22137	0.906	0.04		
3.343	16533	14772	0.894	0.03		
3.511	21956	15136	0.689	0.04		
3.610	23047	18723	0.812	0.04		
3.813	73837	44648	0.605	0.14		
3.936	54806	35146	0.641	0.10		
3.991	21322	19067	0.894	0.04		
4.057	16084	14470	0.900	0.03		
4.216	1104737	1042404	0.944	2.18		
4.261	294439	287244	0.976	0.58		
4.293	55355	38898	0.703	0.10		
4.417	645490	619185	0.959	1.27		
4.453	65034	55154	0.848	0.12		
4.546	297966	280995	0.943	0.58		
4.590	13297	14947	1.124	0.02		
4.615	52626	43507	0.827	0.10		
4.682	14760	14823	1.004	0.02		
4.769	19864	18032	0.908	0.03		
4.813	255256	243907	0.956	0.50		
4.848	954635	917189	0.961	1.88		
4.895	2240553	1806193	0.806	4.42		
4.957	378746	331044	0.874	0.74		
5.039	197483	178932	0.906	0.39		
5.100	1331660	1130632	0.849	2.63		
5.163	2454299	2245562	0.915	4.84	7 Aroclor 1254	BA
5.212	1112261	987906	0.888	2.19		
5.285	62054	59649	0.961	0.12		
5.310	206656	186551	0.903	0.40		
5.363	957753	888665	0.928	1.89		
5.407	2011999	1826444	0.908	3.97	7 Aroclor 1254	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.445	683522	603976	0.884	1.35	
5.478	263671	258349	0.980	0.52	
5.510	3557061	3172502	0.892	7.02	7 Aroclor 1254
5.577	41056	36384	0.886	0.08	
5.605	496084	429134	0.865	0.98	
5.676	353874	332146	0.939	0.69	
5.711	557893	345779	0.620	1.10	
5.741	316074	271838	0.860	0.62	
5.790	3702485	2959912	0.799	7.31	
5.885	349557	271841	0.778	0.69	
5.928	191368	119957	0.627	0.37	
5.994	332278	306209	0.922	0.65	
6.027	2279656	1881319	0.825	4.50	7 Aroclor 1254
6.055	1742805	1415445	0.812	3.44	
6.169	710083	597581	0.842	1.40	
6.228	301903	298212	0.988	0.59	
6.242	317472	282700	0.890	0.62	
6.300	3175762	2557382	0.805	6.27	7 Aroclor 1254
6.335	613369	538823	0.878	1.21	
6.374	338945	280771	0.828	0.66	
6.441	98349	54990	0.559	0.19	
6.487	20933	19173	0.916	0.04	
6.510	122159	127890	1.047	0.24	
6.537	1093807	836036	0.764	2.16	
6.606	171691	137034	0.798	0.33	
6.662	39774	29158	0.733	0.07	
6.720	225492	189217	0.839	0.44	
6.760	134652	118490	0.880	0.26	
6.802	627925	538577	0.858	1.24	
6.843	186255	113960	0.612	0.36	
6.943	65536	50712	0.774	0.12	
7.006	455898	370505	0.813	0.90	
7.074	28987	20562	0.709	0.05	
7.121	17906	16606	0.927	0.03	
7.253	362457	317889	0.877	0.71	
7.281	86561	71028	0.821	0.17	
7.390	15134	15178	1.003	0.02	
7.445	25464	19955	0.784	0.05	
7.555	25575	19764	0.773	0.05	
7.692	17214	14547	0.845	0.03	
7.731	30335	26152	0.862	0.05	
7.802	25782	20334	0.789	0.05	
7.898	15405	15400	1.000	0.03	
8.277	51144	41782	0.817	0.10	
8.571	5194608	4290400	0.826	10.26	$ 12 Decachlorobiphenyl
9.963	10137	8532	0.842	0.02	
	50606079	43638597		100.000	

Total unknown % area = 51

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618076.D
Lab Smp Id: 1254-ICV Client Smp ID: 1254-ICV
Inj Date : 06-MAR-2018 21:00
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-icv, 185564:1
Misc Info : 17498,AR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 39 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1254.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	5956440	0.05000	0.048			
7 Aroclor 1254					CAS #: 11097-69-1			
5.162	5.162	0.000	2454298	0.50000	0.47	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	2011998	0.50000	0.47	0.00- 20.00	81.98	BA
5.510	5.510	0.000	3557060	0.50000	0.46	0.00- 20.00	144.93	BA
6.026	6.027	-0.001	2279656	0.50000	0.47	0.00- 20.00	92.88	BA
6.299	6.299	0.000	3175761	0.50000	0.49	0.00- 20.00	129.40	BA
Average of Peak Amounts =					0.47200			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	5194608	0.05000	0.047			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618076.D

Date : 06-MAR-2018 21:00

Client ID: 1254-ICV

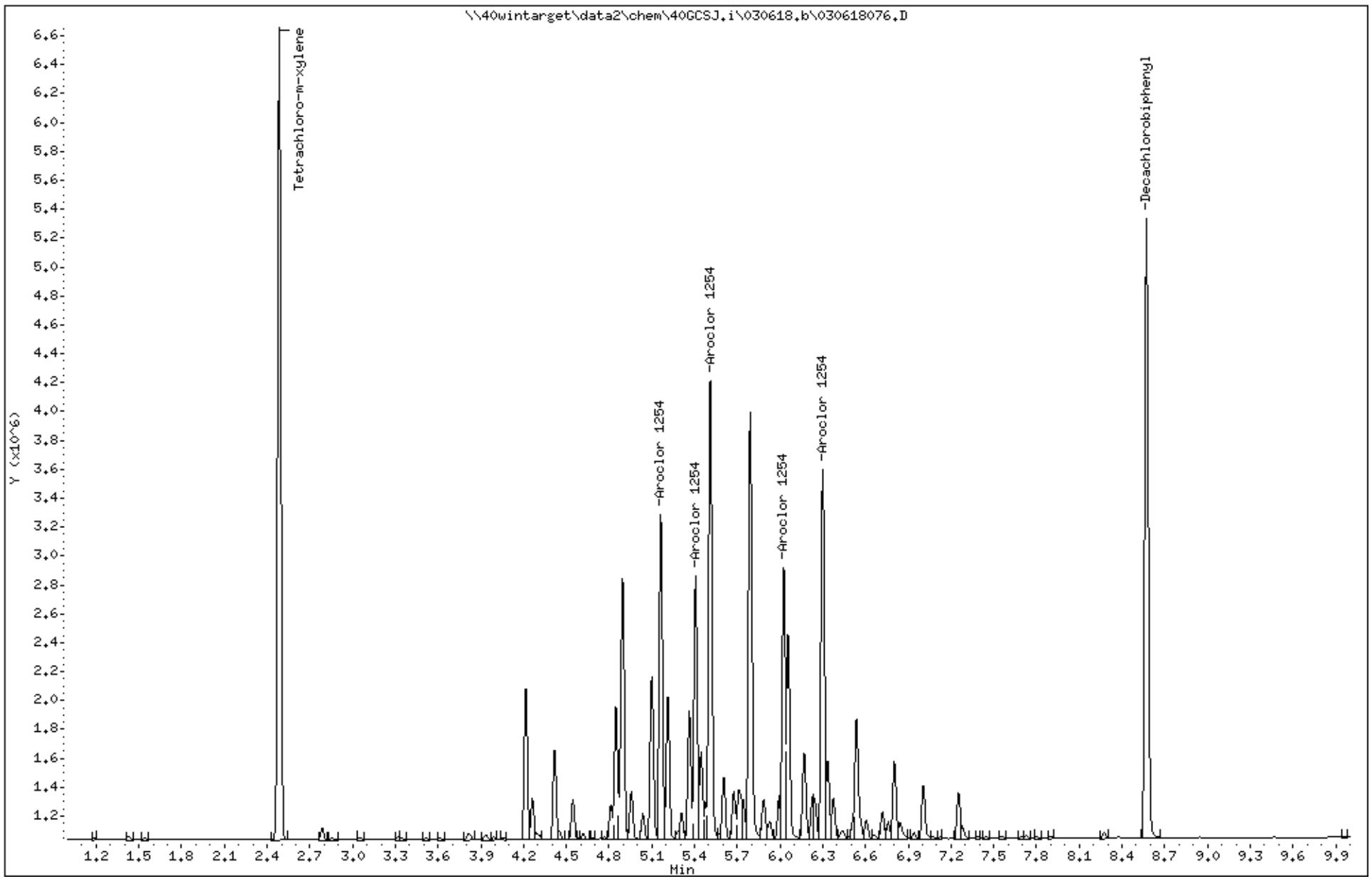
Instrument: 40GCSJ.i

Sample Info: 1254-ICV, 185564:1

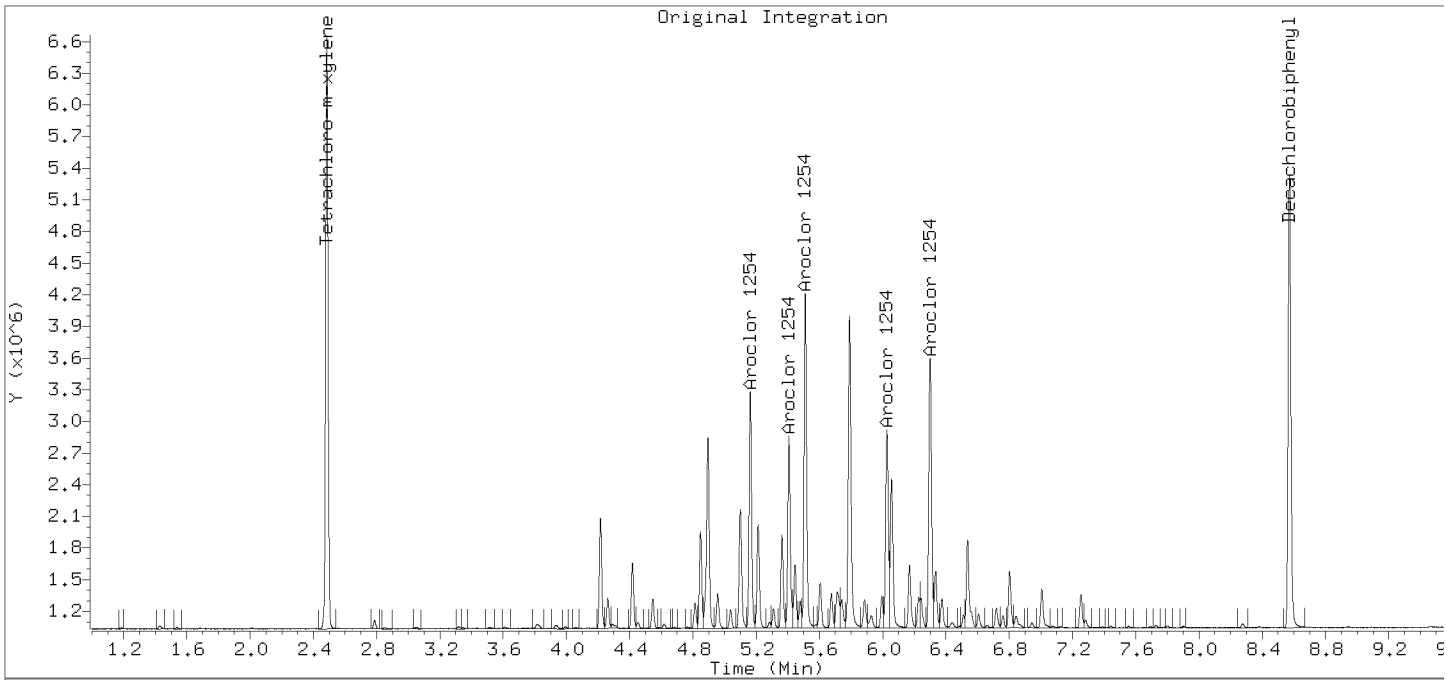
Operator: BLM

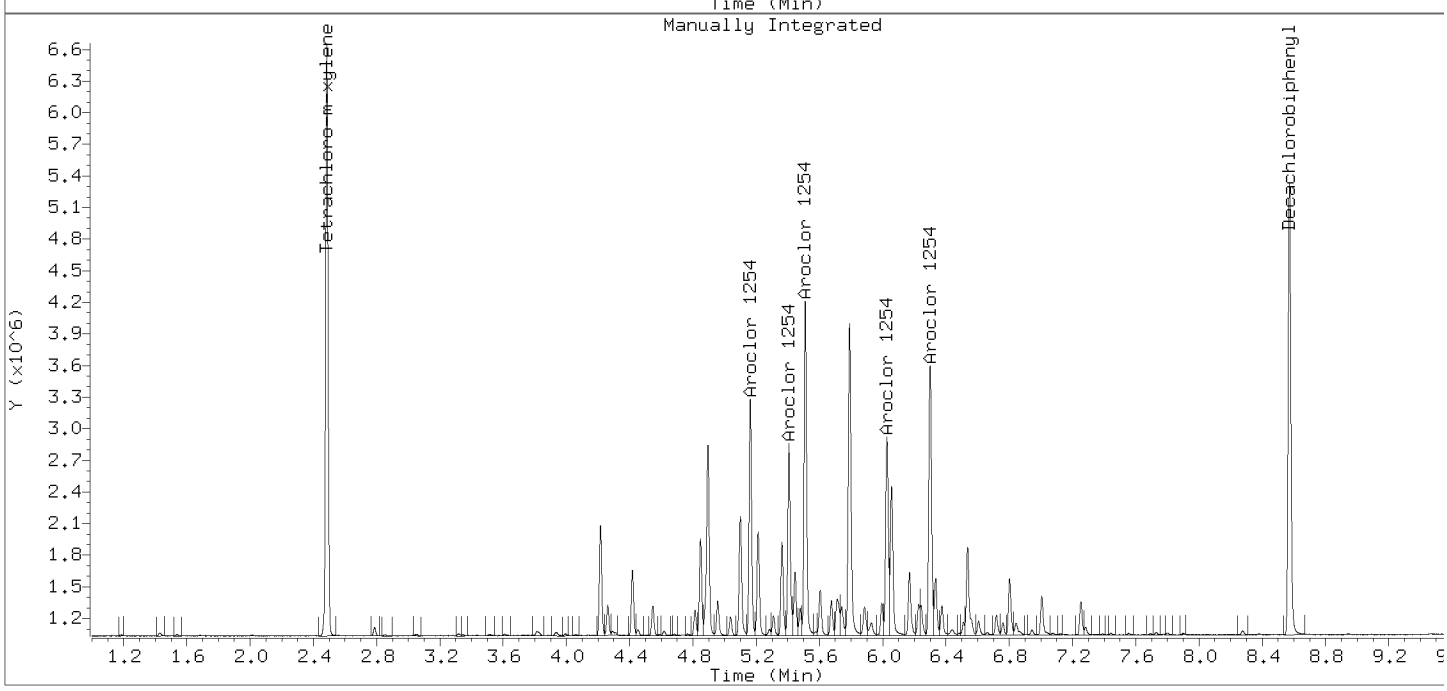
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618076.D (ManInt: AR1254.sub Orig: AR1254.sub)
Injection Date: 06-MAR-2018 21:00 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1254-ICV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1254	2444116	2454298	BA
Aroclor 1254	2444116	2454298	BA
Aroclor 1254	2444116	2454298	BA
Aroclor 1254	2444116	2454298	BA
Aroclor 1254	2444116	2454298	BA
Tetrachloro-m-xylene	5956440	5956440	
Decachlorobiphenyl	5194608	5194608	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618078.D
Lab Smp Id: 1660-ICV Client Smp ID: 1660-ICV
Inj Date : 06-MAR-2018 21:16
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-icv, 185565:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 40 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.182	21221	17184	0.810	0.02		
1.431	40838	31713	0.777	0.04		
1.536	17776	15618	0.879	0.02		
1.804	13311	13960	1.049	0.01		
2.011	10268	7617	0.742	0.01		
2.405	140776	109473	0.778	0.16		
2.484	5932090	5726918	0.965	7.56	$ 2 Tetrachloro-m-xylene	
2.687	201068	164753	0.819	0.24		
2.788	295756	279701	0.946	0.35		
2.851	1113041	1029534	0.925	1.33		
3.055	169967	158668	0.934	0.20		
3.277	24278	19456	0.801	0.02		
3.317	1575915	1463198	0.928	1.88	5 Aroclor 1016	BA
3.344	915512	854579	0.933	1.09		
3.435	250094	229311	0.917	0.29		
3.513	1583523	1159648	0.732	1.89	5 Aroclor 1016	BA
3.610	21286	19905	0.935	0.02		
3.645	25464	17411	0.684	0.03		
3.696	44251	42008	0.949	0.05		
3.732	398780	398305	0.999	0.47		
3.756	256467	255771	0.997	0.30		
3.827	4508685	2620847	0.581	5.39	5 Aroclor 1016	BA
3.929	1926630	1599827	0.830	2.30	5 Aroclor 1016	BA
3.994	1286237	1237455	0.962	1.54	5 Aroclor 1016	BA
4.058	377180	342508	0.908	0.45		
4.136	150296	140468	0.935	0.17		
4.214	1102455	1039229	0.943	1.32		
4.261	1029907	980757	0.952	1.23		
4.293	425562	439845	1.034	0.50		
4.310	540061	519083	0.961	0.64		
4.370	26189	19343	0.739	0.03		
4.417	1387264	1301927	0.938	1.66		
4.453	895338	753232	0.841	1.07		
4.545	1576424	1430306	0.907	1.88		
4.591	17433	23996	1.376	0.02		
4.618	301465	279443	0.927	0.36		
4.680	19837	14137	0.713	0.02		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.728	37013	29354	0.793	0.04	
4.768	30417	27693	0.910	0.03	
4.814	156037	149062	0.955	0.18	
4.848	239300	233617	0.976	0.28	
4.895	1221737	985481	0.807	1.46	
4.958	58840	41257	0.701	0.07	
5.037	85057	75952	0.893	0.10	
5.100	246503	215312	0.873	0.29	
5.163	1183240	1075758	0.909	1.41	
5.212	41947	29637	0.707	0.05	
5.310	13373	10637	0.795	0.01	
5.363	57749	52832	0.915	0.06	
5.407	268815	254856	0.948	0.32	
5.446	13974	15175	1.086	0.01	
5.478	527498	492186	0.933	0.63	
5.510	745390	669137	0.898	0.89	
5.576	10212	10260	1.005	0.01	
5.603	17026	12475	0.733	0.02	
5.676	1384577	1280481	0.925	1.65	
5.710	943302	526346	0.558	1.12	
5.786	3233298	2804467	0.867	3.87	
5.882	208249	189092	0.908	0.24	
5.930	96479	76874	0.797	0.11	
5.993	545401	501421	0.919	0.65	
6.029	1181491	1139915	0.965	1.41	
6.055	3616031	3141367	0.869	4.33	
6.169	2379439	1526966	0.642	2.84	
6.256	501646	311664	0.621	0.60	
6.301	4216761	3413991	0.810	5.04	8 Aroclor 1260
6.334	589361	516529	0.876	0.70	
6.373	133856	105313	0.787	0.16	
6.433	474923	416467	0.877	0.56	
6.486	96367	124001	1.287	0.11	
6.510	2278472	2020249	0.887	2.72	
6.535	319186	362341	1.135	0.38	
6.561	1371229	1239953	0.904	1.64	
6.606	126514	100966	0.798	0.15	
6.661	435030	401966	0.924	0.52	
6.718	2436948	2139504	0.878	2.91	
6.760	1379678	1221074	0.885	1.65	
6.803	1012423	886702	0.876	1.21	
6.839	204549	179535	0.878	0.24	
6.867	101951	86190	0.845	0.12	
6.915	150840	138650	0.919	0.18	
6.944	471585	431542	0.915	0.56	
7.006	5169251	4474270	0.866	6.18	8 Aroclor 1260
7.035	349824	352477	1.008	0.41	
7.076	161438	129444	0.802	0.19	
7.122	226639	191125	0.843	0.27	
7.252	2431978	2174432	0.894	2.91	8 Aroclor 1260
7.282	689708	552481	0.801	0.82	
7.391	1295375	1038752	0.802	1.55	
7.443	1492830	1281759	0.859	1.78	8 Aroclor 1260
7.554	105447	79274	0.752	0.12	
7.692	611618	562958	0.920	0.73	
7.728	153573	121839	0.793	0.18	
7.801	84844	63857	0.753	0.10	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.902	1408195	1200861	0.853	1.68	8 Aroclor 1260
7.965	99066	72839	0.735	0.11	
8.277	469900	412226	0.877	0.56	
8.379	12566	10774	0.857	0.01	
8.571	5248206	4347540	0.828	6.28	$ 12 Decachlorobiphenyl
8.945	16720	11361	0.679	0.02	
9.471	16512	10298	0.624	0.01	
	83510046	71509948		100.000	

Total unknown % area = 56

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618078.D
Lab Smp Id: 1660-ICV Client Smp ID: 1660-ICV
Inj Date : 06-MAR-2018 21:16
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-icv, 185565:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 40 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	5932090	0.05000	0.048			
5 Aroclor 1016					CAS #: 12674-11-2			
3.317	3.318	-0.001	1575914	0.50000	0.51	0.00- 20.00	100.00(M)	BA
3.512	3.512	0.000	1583522	0.50000	0.51	0.00- 20.00	100.48	BA
3.826	3.826	0.000	4508685	0.50000	0.51	0.00- 20.00	286.10	BA
3.928	3.929	-0.001	1926630	0.50000	0.51	0.00- 20.00	122.25	BA
3.994	3.994	0.000	1286237	0.50000	0.49	0.00- 20.00	81.62	BA
Average of Peak Amounts =					0.50600			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	4216761	0.50000	0.48	0.00- 20.00	100.00(M)	CO
7.005	7.006	-0.001	5169251	0.50000	0.52	0.00- 20.00	122.59	CO
7.251	7.251	0.000	2431977	0.50000	0.51	0.00- 20.00	57.67	CO
7.442	7.443	-0.001	1492830	0.50000	0.51	0.00- 20.00	35.40	CO
7.901	7.901	0.000	1408195	0.50000	0.53	0.00- 20.00	33.40	CO
Average of Peak Amounts =					0.51000			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	5248206	0.05000	0.048			

QC Flag Legend

M - Compound response manually integrated.

QC Flag Legend

Review Codes Legend

BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618078.D

Date : 06-MAR-2018 21:16

Client ID: 1660-ICV

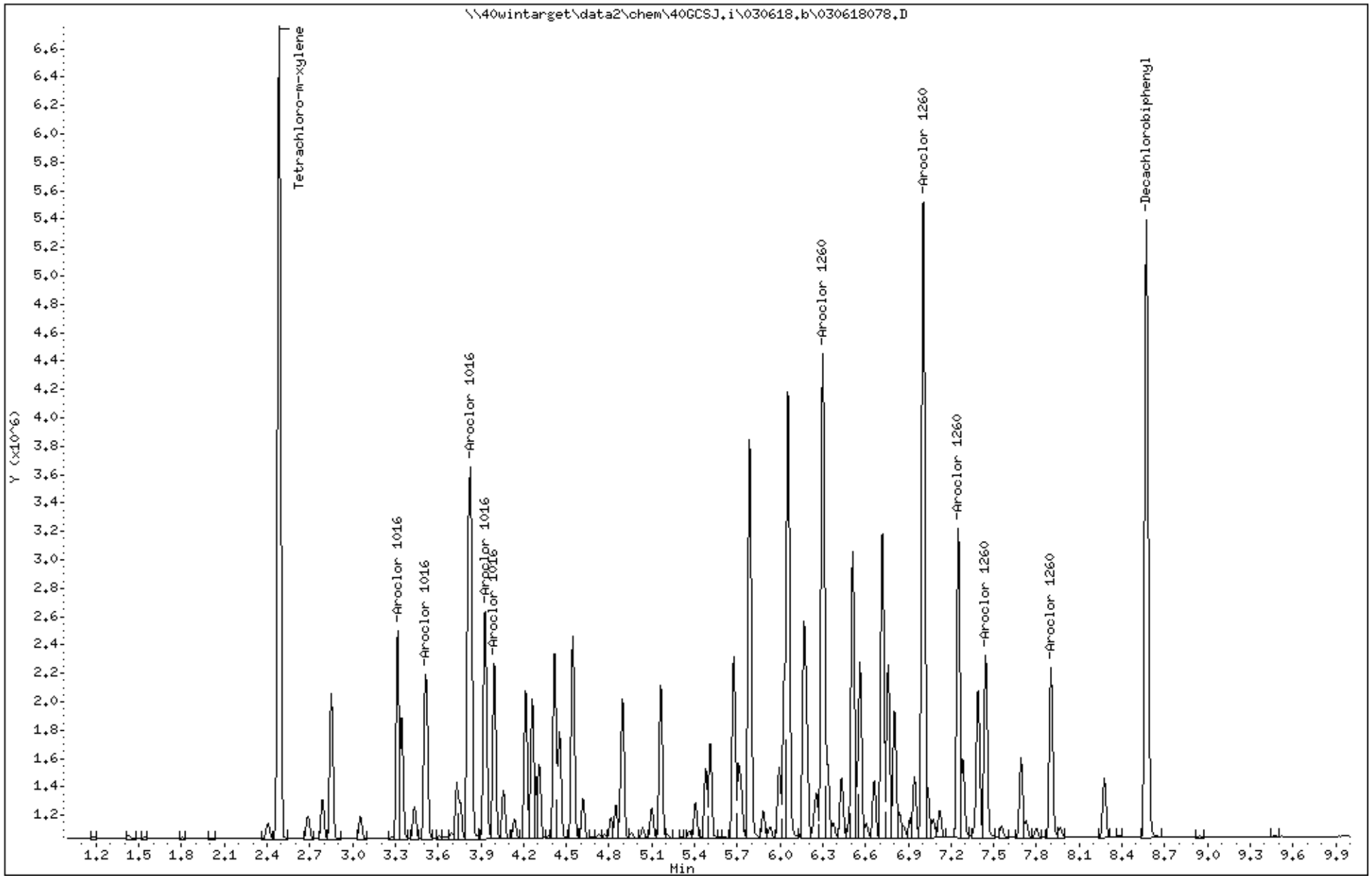
Instrument: 40GCSJ.i

Sample Info: 1660-ICV, 185565:1

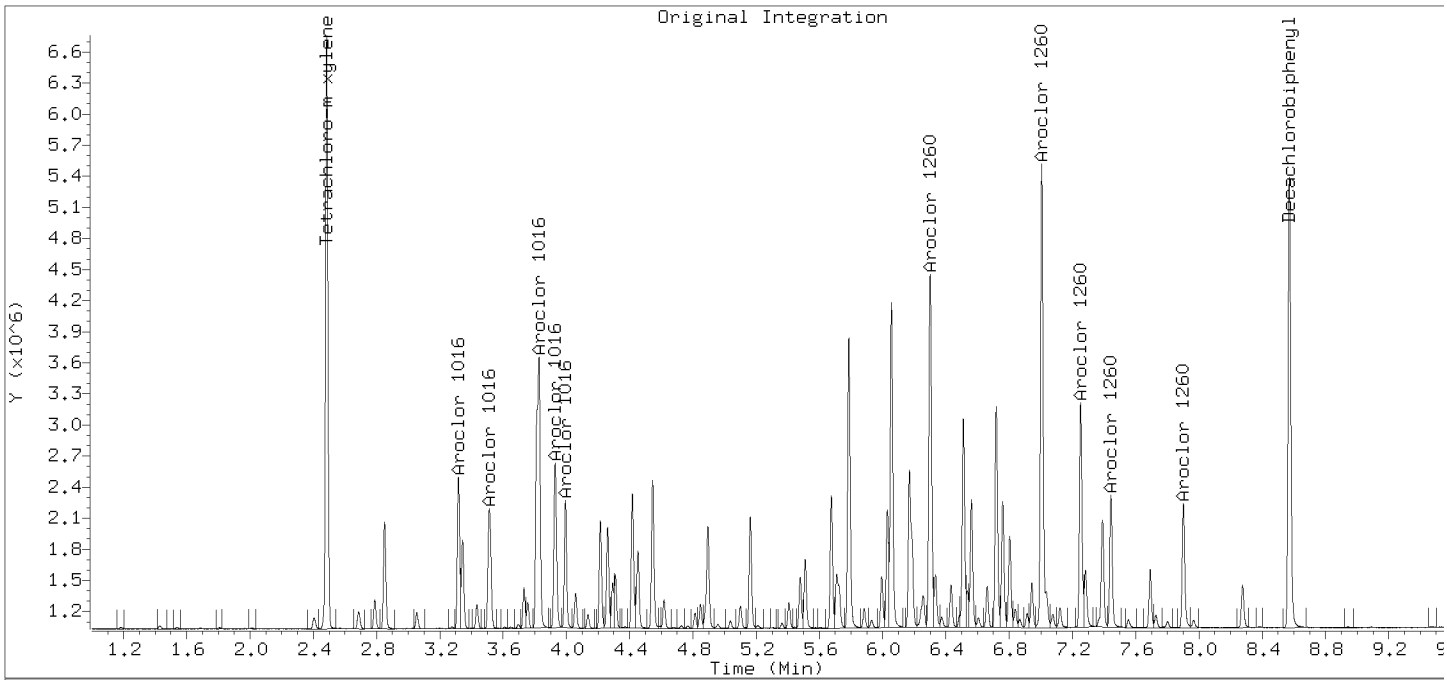
Operator: BLM

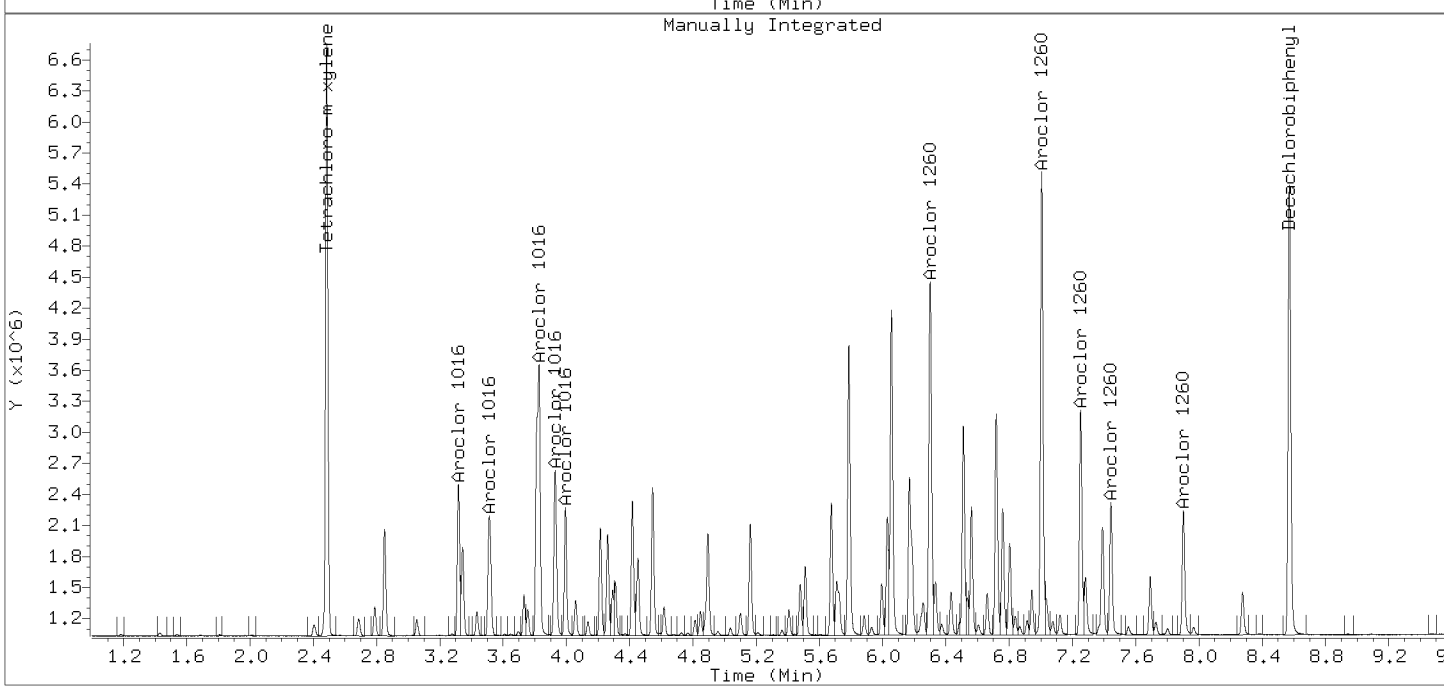
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618078.D (ManInt: AR1660.sub Orig: AR1660.sub)
Injection Date: 06-MAR-2018 21:16 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1660-ICV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1566175	1575914	BA
Aroclor 1016	1566175	1575914	BA
Aroclor 1016	1566175	1575914	BA
Aroclor 1016	1566175	1575914	BA
Aroclor 1016	1566175	1575914	BA
Aroclor 1260	4198281	4216761	CO
Aroclor 1260	4198281	4216761	CO
Aroclor 1260	4198281	4216761	CO
Aroclor 1260	4198281	4216761	CO
Aroclor 1260	4198281	4216761	CO
Tetrachloro-m-xylene	5932090	5932090	
Decachlorobiphenyl	5248206	5248206	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018004.D
Lab Smp Id: 1232-CCV Client Smp ID: 1232-CCV
Inj Date : 30-MAR-2018 15:47
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1232-ccv, 185539:1
Misc Info : 17498,AR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 04-Apr-2018 13:12 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1232.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.184	28611	24110	0.843	0.10		
1.432	38050	29406	0.773	0.14		
1.537	16847	14036	0.833	0.06		
1.686	18795	16246	0.864	0.07		
1.806	293863	246585	0.839	1.11		
2.011	20417	15641	0.766	0.07		
2.198	82173	72036	0.877	0.31		
2.406	195034	143989	0.738	0.73		
2.485	5786443	5418296	0.936	22.29	$ 2 Tetrachloro-m-xylene	
2.688	423326	346437	0.818	1.60		
2.789	394101	358789	0.910	1.49		
2.851	1269350	1141797	0.900	4.80	4 Aroclor 1232	BA
3.029	11732	14025	1.195	0.04		
3.054	90724	73974	0.815	0.34		
3.281	66768	49387	0.740	0.25		
3.318	736732	655403	0.890	2.79		
3.344	402334	361823	0.899	1.52		
3.433	113342	103719	0.915	0.42		
3.513	669053	481887	0.720	2.53	4 Aroclor 1232	BA
3.609	20062	17884	0.891	0.07		
3.698	24610	20932	0.851	0.09		
3.732	176560	173194	0.981	0.66		
3.756	126992	114145	0.899	0.48		
3.826	1865355	1089801	0.584	7.06	4 Aroclor 1232	BA
3.930	797462	669657	0.840	3.02	4 Aroclor 1232	BA
3.995	527323	498762	0.946	1.99	4 Aroclor 1232	BA
4.059	153252	131901	0.861	0.58		
4.137	59676	53239	0.892	0.22		
4.215	394581	370771	0.940	1.49		
4.261	383584	358821	0.935	1.45		
4.293	168081	172238	1.025	0.63		
4.310	197644	184817	0.935	0.74		
4.417	533725	493147	0.924	2.02		
4.452	414687	311008	0.750	1.57		
4.547	676915	620446	0.917	2.56		
4.618	163928	152581	0.931	0.62		
4.677	16561	13343	0.806	0.06		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.727	33649	30922	0.919	0.12	
4.768	37020	33477	0.904	0.14	
4.813	297483	283159	0.952	1.12	
4.848	519297	483260	0.931	1.96	
4.879	679028	512647	0.755	2.57	
4.958	74870	56417	0.754	0.28	
5.037	551301	496890	0.901	2.08	
5.098	114768	86161	0.751	0.43	
5.163	127977	114468	0.894	0.48	
5.212	90559	78383	0.866	0.34	
5.308	25509	19884	0.780	0.09	
5.363	78766	67279	0.854	0.29	
5.407	138700	114980	0.829	0.52	
5.446	84273	70209	0.833	0.31	
5.510	220958	164243	0.743	0.83	
5.605	67711	57426	0.848	0.25	
5.672	13331	11647	0.874	0.05	
5.791	146328	110676	0.756	0.55	
5.884	18310	13481	0.736	0.06	
6.025	106645	95460	0.895	0.40	
6.056	33501	27285	0.814	0.12	
6.170	14328	11980	0.836	0.05	
6.299	39749	32967	0.829	0.15	
6.509	12262	11270	0.919	0.04	
6.719	16301	13619	0.835	0.06	
7.003	30494	20946	0.687	0.11	
7.124	27056	15787	0.583	0.10	
7.251	15684	11663	0.744	0.05	
7.438	9492	7819	0.824	0.03	
7.692	13467	9906	0.736	0.05	
7.726	30600	26257	0.858	0.11	
7.768	16249	11313	0.696	0.06	
7.799	27557	22489	0.816	0.10	
8.277	47916	40368	0.842	0.18	
8.378	21581	16221	0.752	0.08	
8.571	5107752	4316134	0.845	19.35	$ 12 Decachlorobiphenyl
8.938	10862	9594	0.883	0.04	
9.410	9812	13044	1.329	0.03	
9.426	12356	16262	1.316	0.04	
9.465	69759	22340	0.320	0.26	
9.854	13935	10507	0.754	0.05	
9.867	13247	9964	0.752	0.05	
9.957	13957	11464	0.821	0.05	
	26393094	22604541		100.000	

Total unknown % area = 39

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018004.D
Lab Smp Id: 1232-CCV Client Smp ID: 1232-CCV
Inj Date : 30-MAR-2018 15:47
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1232-ccv, 185539:1
Misc Info : 17498,AR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 04-Apr-2018 13:12 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1232.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.485	2.484	0.001	5786442	0.05000	0.047			
4 Aroclor 1232						CAS #: 1114-16-5		
2.851	2.851	0.000	1269349	0.50000	0.51	0.00- 20.00	100.00(M)	BA
3.513	3.513	0.000	669052	0.50000	0.50	0.00- 20.00	52.71	BA
3.826	3.827	-0.001	1865355	0.50000	0.50	0.00- 20.00	146.95	BA
3.929	3.929	0.000	797462	0.50000	0.50	0.00- 20.00	62.82	BA
3.994	3.995	-0.001	527322	0.50000	0.48	0.00- 20.00	41.54	BA
Average of Peak Amounts =					0.49800			
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
8.571	8.571	0.000	5107751	0.05000	0.047			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018004.D

Date : 30-MAR-2018 15:47

Client ID: 1232-CCV

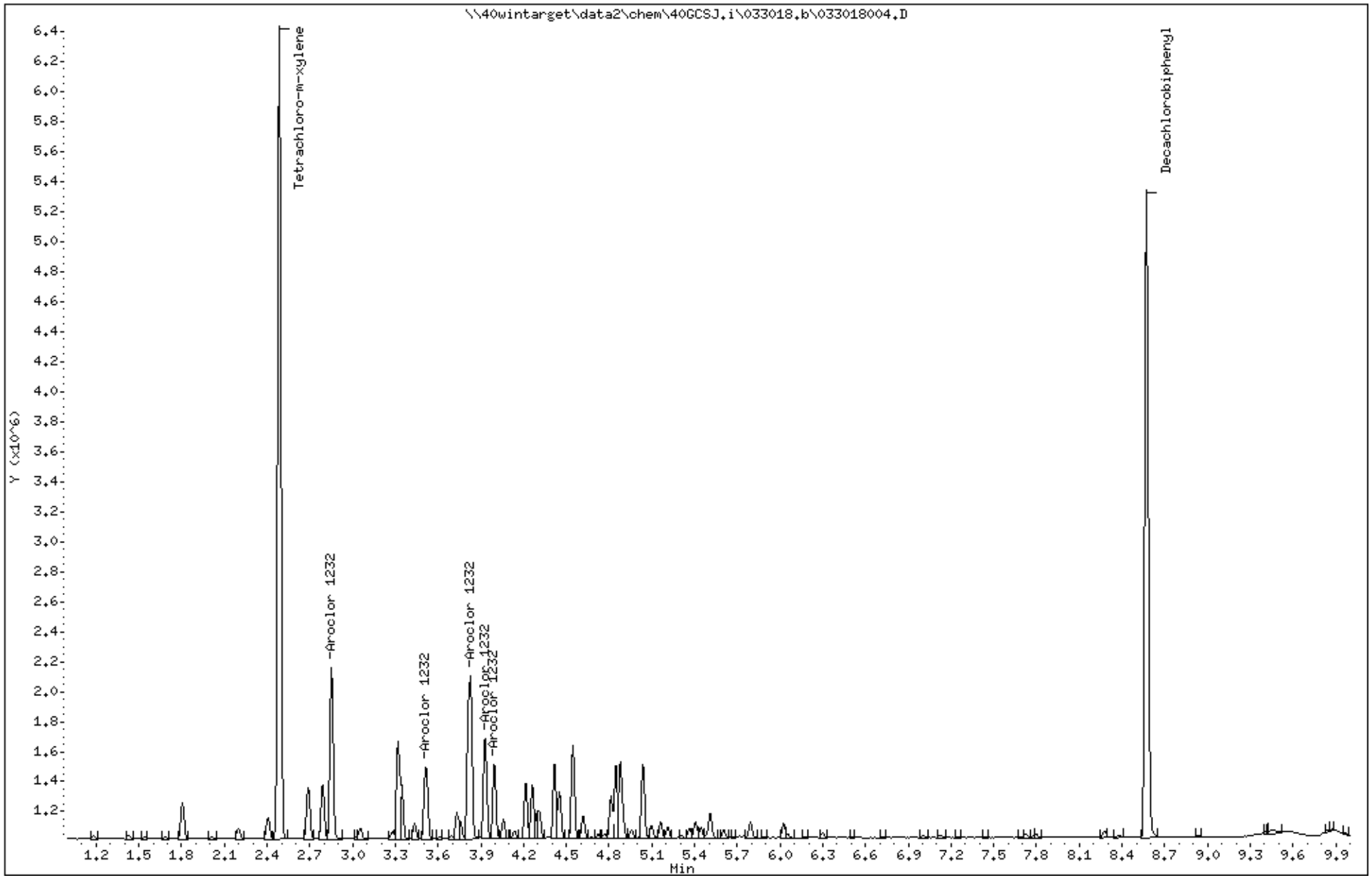
Instrument: 40GCSJ.i

Sample Info: 1232-CCV, 185539:1

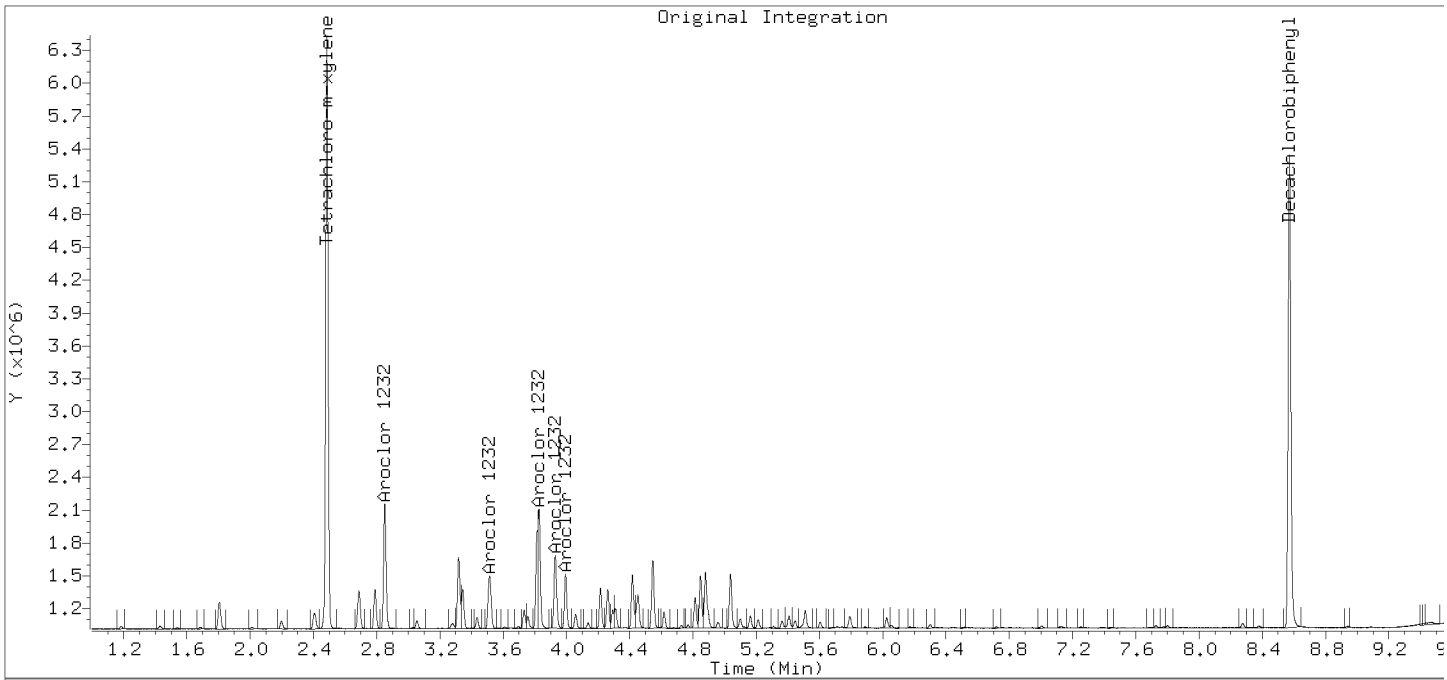
Operator: BLM

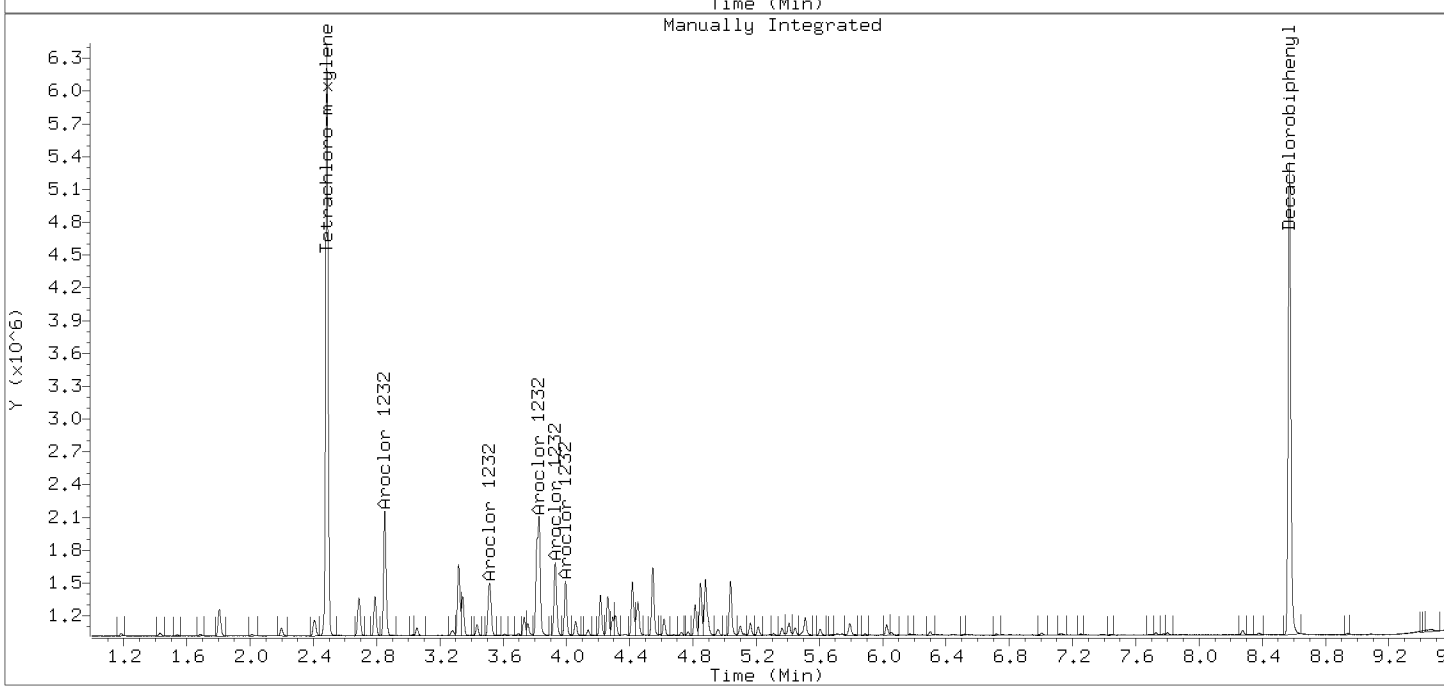
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b/033018004.D (ManInt: AR1232.sub Orig: AR1232.sub)
Injection Date: 30-MAR-2018 15:47 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1232-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1232	1259674	1269349	BA
Aroclor 1232	1259674	1269349	BA
Aroclor 1232	1259674	1269349	BA
Aroclor 1232	1259674	1269349	BA
Aroclor 1232	1259674	1269349	BA
Tetrachloro-m-xylene	5786442	5786442	
Decachlorobiphenyl	5107751	5107751	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018016.D
Lab Smp Id: 1242-CCV Client Smp ID: 1242-CCV
Inj Date : 30-MAR-2018 18:57
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-ccv, 185544:1
Misc Info : 17498,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 04-Apr-2018 13:12 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 16 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1242.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.183	22405	18532	0.827	0.05		
1.431	40276	30743	0.763	0.10		
1.539	21364	14547	0.681	0.05		
1.688	39933	33591	0.841	0.10		
1.806	15485	14673	0.948	0.03		
2.405	121508	92266	0.759	0.30		
2.485	6015047	5620296	0.934	15.57	$ 2 Tetrachloro-m-xylene	
2.686	179100	142673	0.797	0.45		
2.788	272860	250720	0.919	0.68		
2.851	954082	877697	0.920	2.40		
3.054	143309	127113	0.887	0.36		
3.278	26506	18895	0.713	0.06		
3.318	1295039	1187612	0.917	3.27	3 Aroclor 1242	BA
3.344	747922	694661	0.929	1.88		
3.435	208397	185067	0.888	0.52		
3.512	1286692	915338	0.711	3.25	3 Aroclor 1242	BA
3.610	24609	19552	0.795	0.06		
3.651	23747	16018	0.675	0.05		
3.697	36677	35434	0.966	0.09		
3.731	326714	316997	0.970	0.82		
3.756	224700	206128	0.917	0.56		
3.826	3677233	2126529	0.578	9.28	3 Aroclor 1242	BA
3.929	1578983	1297420	0.822	3.98	3 Aroclor 1242	BA
3.994	1048461	998756	0.953	2.64	3 Aroclor 1242	BA
4.058	319715	283616	0.887	0.80		
4.137	129269	107709	0.833	0.32		
4.214	874601	807996	0.924	2.20		
4.260	836630	806365	0.964	2.11		
4.292	341738	359002	1.051	0.86		
4.310	446814	398295	0.891	1.12		
4.370	31927	21945	0.687	0.08		
4.416	1142103	1082234	0.948	2.88		
4.451	913690	659762	0.722	2.30		
4.545	1510362	1343728	0.890	3.81		
4.617	346342	309594	0.894	0.87		
4.680	28187	21496	0.763	0.07		
4.725	76119	62203	0.817	0.19		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.768	83108	78177	0.941	0.20	
4.812	699910	670567	0.958	1.76	
4.847	1202699	1133950	0.943	3.03	
4.878	1544124	1135518	0.735	3.90	
4.957	178912	133914	0.748	0.45	
5.037	1280421	1148948	0.897	3.23	
5.098	277704	209878	0.756	0.70	
5.161	321799	274805	0.854	0.81	
5.212	247007	219787	0.890	0.62	
5.284	20360	19125	0.939	0.05	
5.306	56120	46311	0.825	0.14	
5.362	209417	177043	0.845	0.52	
5.405	350926	280474	0.799	0.88	
5.444	220385	194602	0.883	0.55	
5.509	566724	432643	0.763	1.43	
5.603	171864	143328	0.834	0.43	
5.671	16234	12840	0.791	0.04	
5.714	36570	29147	0.797	0.09	
5.740	47521	42277	0.890	0.12	
5.760	14752	20251	1.373	0.03	
5.792	396864	315002	0.794	1.00	
5.888	62266	38258	0.614	0.15	
6.023	379459	274459	0.723	0.95	
6.168	37049	22222	0.600	0.09	
6.225	31667	17003	0.537	0.07	
6.298	108595	93635	0.862	0.27	
6.332	23600	21579	0.914	0.05	
6.372	18762	14987	0.799	0.04	
6.533	46511	33158	0.713	0.11	
6.799	24472	18645	0.762	0.06	
7.250	11396	10214	0.896	0.02	
7.726	29012	23418	0.807	0.07	
7.796	24839	18196	0.733	0.06	
8.274	54802	45908	0.838	0.13	
8.570	5404034	4589082	0.849	13.65	$ 12 Decachlorobiphenyl
8.934	12372	9481	0.766	0.03	
9.463	21668	13742	0.634	0.05	
9.959	26183	16834	0.643	0.06	
	39588648	33484611		100.000	

Total unknown % area = 48

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018016.D
Lab Smp Id: 1242-CCV Client Smp ID: 1242-CCV
Inj Date : 30-MAR-2018 18:57
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-ccv, 185544:1
Misc Info : 17498,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 04-Apr-2018 13:12 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 16 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1242.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.484	2.484	0.000	6015046	0.05000	0.049			
3 Aroclor 1242						CAS #: 53469-21-9		
3.318	3.318	0.000	1295038	0.50000	0.51	0.00- 20.00	100.00(M)	BA
3.512	3.513	-0.001	1286692	0.50000	0.51	0.00- 20.00	99.36	BA
3.825	3.827	-0.002	3677232	0.50000	0.52	0.00- 20.00	283.95	BA
3.928	3.929	-0.001	1578983	0.50000	0.52	0.00- 20.00	121.93	BA
3.994	3.995	-0.001	1048461	0.50000	0.51	0.00- 20.00	80.96	BA
Average of Peak Amounts =					0.51400			
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
8.570	8.571	-0.001	5404034	0.05000	0.049			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

BA: Indicates that the baseline had to be adjusted correctly by the analyst.

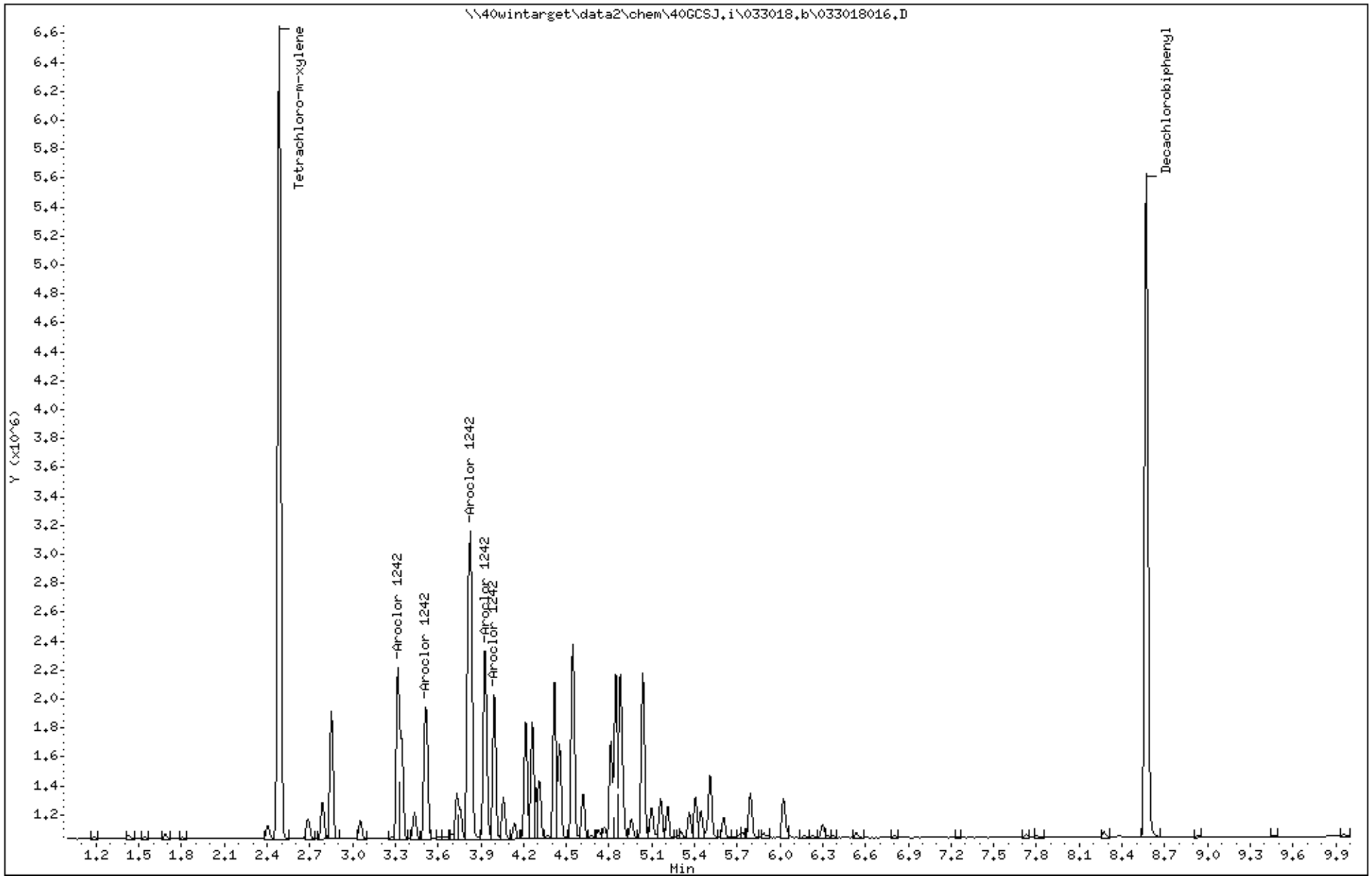
Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018016.D
Date : 30-MAR-2018 18:57
Client ID: 1242-CCV
Sample Info: 1242-CCV, 185544:1

Instrument: 40GCSJ.i

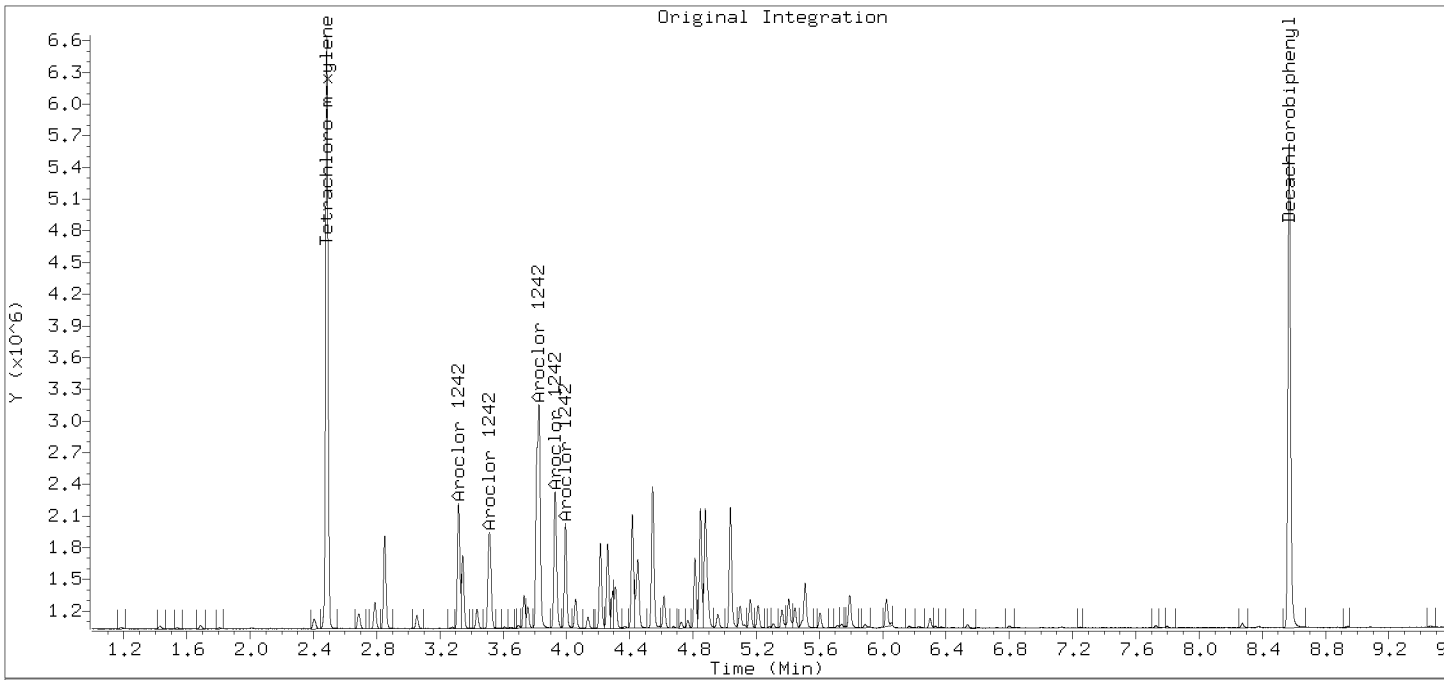
Operator: BLM

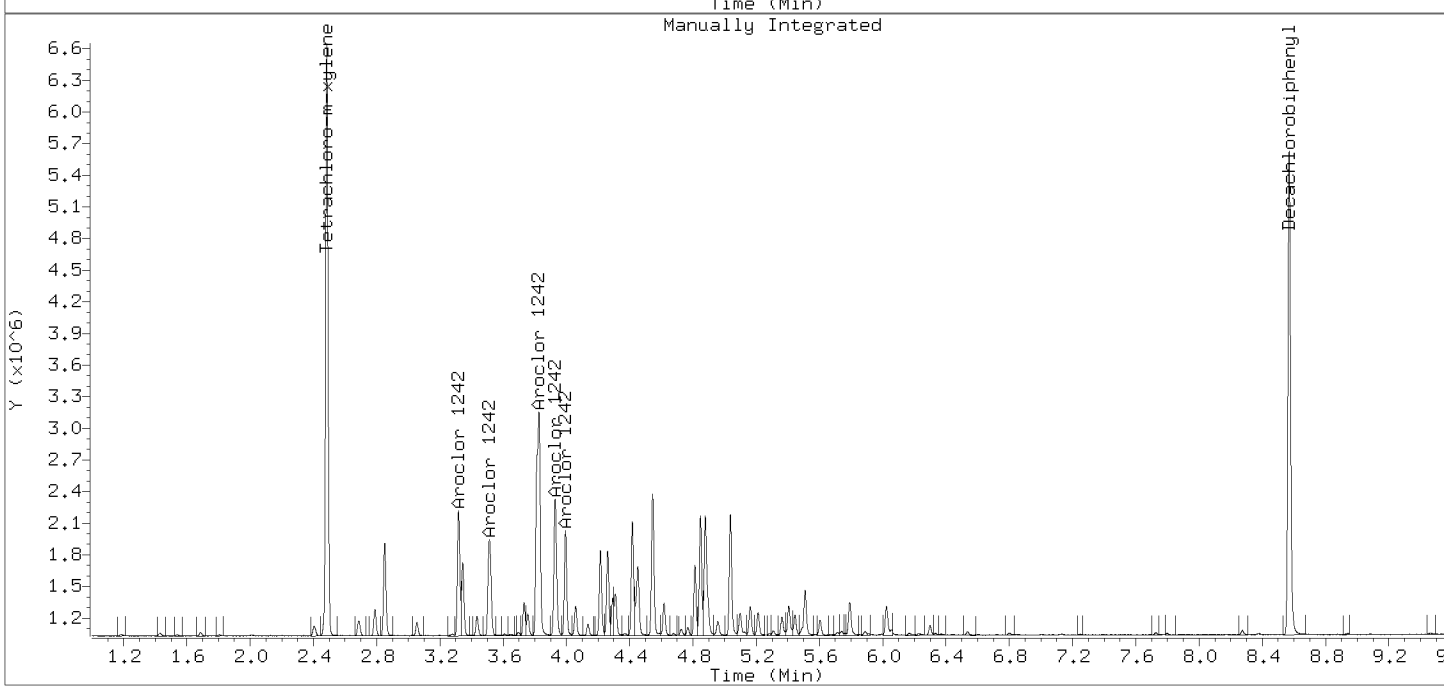
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b/033018016.D (ManInt: AR1242.sub Orig: AR1242.sub)
Injection Date: 30-MAR-2018 18:57 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1242-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1242	1286633	1295038	BA
Aroclor 1242	1286633	1295038	BA
Aroclor 1242	1286633	1295038	BA
Aroclor 1242	1286633	1295038	BA
Aroclor 1242	1286633	1295038	BA
Tetrachloro-m-xylene	6015046	6015046	
Decachlorobiphenyl	5404034	5404034	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018028.D
Lab Smp Id: 1248-CCV Client Smp ID: 1248-CCV
Inj Date : 30-MAR-2018 22:08
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-ccv, 185549:1
Misc Info : 17498,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 05-Apr-2018 14:48 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 28 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1248.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.183	23743	21786	0.918	0.05		
1.431	42573	33796	0.794	0.09		
1.539	19538	16382	0.838	0.04		
1.688	26670	20840	0.781	0.05		
2.009	21106	14213	0.673	0.04		
2.407	24464	17135	0.700	0.05		
2.484	5996033	5688808	0.949	13.82	$ 2 Tetrachloro-m-xylene	
2.688	36985	28736	0.777	0.08		
2.788	114561	110085	0.961	0.25		
2.851	189519	178114	0.940	0.42		
3.054	63934	56465	0.883	0.14		
3.317	724158	689393	0.952	1.61		
3.344	293401	285200	0.972	0.65		
3.434	70590	61038	0.865	0.15		
3.515	605094	436837	0.722	1.35		
3.610	21297	20577	0.966	0.04		
3.732	143953	139387	0.968	0.32		
3.758	59978	57765	0.963	0.13		
3.813	1059486	1251056	1.181	2.36		
3.826	1378434	1314517	0.954	3.08		
3.930	920109	719002	0.781	2.05		
3.993	609241	585972	0.962	1.36		
4.057	351411	322030	0.916	0.78		
4.135	144108	129994	0.902	0.32		
4.215	1509025	1393121	0.923	3.37		
4.260	1200305	1142114	0.952	2.68	6 Aroclor 1248	BA
4.291	489636	502528	1.026	1.09		
4.309	535463	499514	0.933	1.19		
4.417	1839335	1706679	0.928	4.11		
4.452	906103	791852	0.874	2.02		
4.545	2096301	1929033	0.920	4.68	6 Aroclor 1248	BA
4.590	32259	31498	0.976	0.07		
4.616	480516	450483	0.937	1.07		
4.679	26361	21165	0.803	0.05		
4.727	63117	52682	0.835	0.14		
4.767	112761	105685	0.937	0.25		
4.813	1058115	1021812	0.966	2.36	6 Aroclor 1248	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.847	2023894	1938732	0.958	4.52	
4.878	2607370	1724490	0.661	5.82	6 Aroclor 1248
4.957	294339	252933	0.859	0.65	
5.037	1868361	1752219	0.938	4.17	6 Aroclor 1248
5.098	647325	522746	0.808	1.44	
5.162	783242	698611	0.892	1.75	
5.211	561748	518379	0.923	1.25	
5.285	36901	35375	0.959	0.08	
5.308	119034	103776	0.872	0.26	
5.362	492072	432077	0.878	1.10	
5.407	842341	721071	0.856	1.88	
5.445	502454	449600	0.895	1.12	
5.509	1386093	1166135	0.841	3.09	
5.603	390968	343634	0.879	0.87	
5.677	44342	38103	0.859	0.09	
5.712	81685	63787	0.781	0.18	
5.740	104901	92466	0.881	0.23	
5.792	970563	808450	0.833	2.16	
5.887	125899	79834	0.634	0.28	
5.994	27921	27544	0.986	0.06	
6.024	810195	743129	0.917	1.81	
6.054	150180	129242	0.861	0.33	
6.169	82251	54535	0.663	0.18	
6.227	50072	29229	0.584	0.11	
6.299	239788	203639	0.849	0.53	
6.333	44929	38318	0.853	0.10	
6.372	33147	28861	0.871	0.07	
6.507	33964	36968	1.088	0.07	
6.534	78218	67662	0.865	0.17	
6.603	15841	10420	0.658	0.03	
6.655	14206	9574	0.674	0.03	
6.718	39516	34211	0.866	0.08	
6.759	21499	19868	0.924	0.04	
6.801	46365	39497	0.852	0.10	
6.841	24902	16080	0.646	0.05	
6.945	9571	8007	0.837	0.02	
7.005	77691	65581	0.844	0.17	
7.124	19491	12504	0.642	0.04	
7.253	32171	28806	0.895	0.07	
7.281	16030	9600	0.599	0.03	
7.391	35261	27989	0.794	0.07	
7.442	39150	31763	0.811	0.08	
7.689	14454	14514	1.004	0.03	
7.726	24928	24323	0.976	0.05	
7.797	29344	20299	0.692	0.06	
7.901	34520	26168	0.758	0.07	
8.274	62888	53848	0.856	0.14	
8.376	17173	11520	0.671	0.03	
8.570	5412400	4745037	0.877	12.10	$ 12 Decachlorobiphenyl
9.954	16173	8104	0.501	0.03	
	44727454	40166552		100.000	

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018028.D
Lab Smp Id: 1248-CCV Client Smp ID: 1248-CCV
Inj Date : 30-MAR-2018 22:08
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-ccv, 185549:1
Misc Info : 17498,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 05-Apr-2018 14:48 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 28 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1248.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	5996032	0.05000	0.049			
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	1200304	0.50000	0.51	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	2096300	0.50000	0.50	0.00- 20.00	174.65	BA
4.812	4.812	0.000	1058114	0.50000	0.52	0.00- 20.00	88.15	BA
4.878	4.879	-0.001	2607369	0.50000	0.52	0.00- 20.00	217.23	BA
5.037	5.038	-0.001	1868361	0.50000	0.52	0.00- 20.00	155.66	BA
Average of Peak Amounts =					0.51400			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	5412400	0.05000	0.049			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

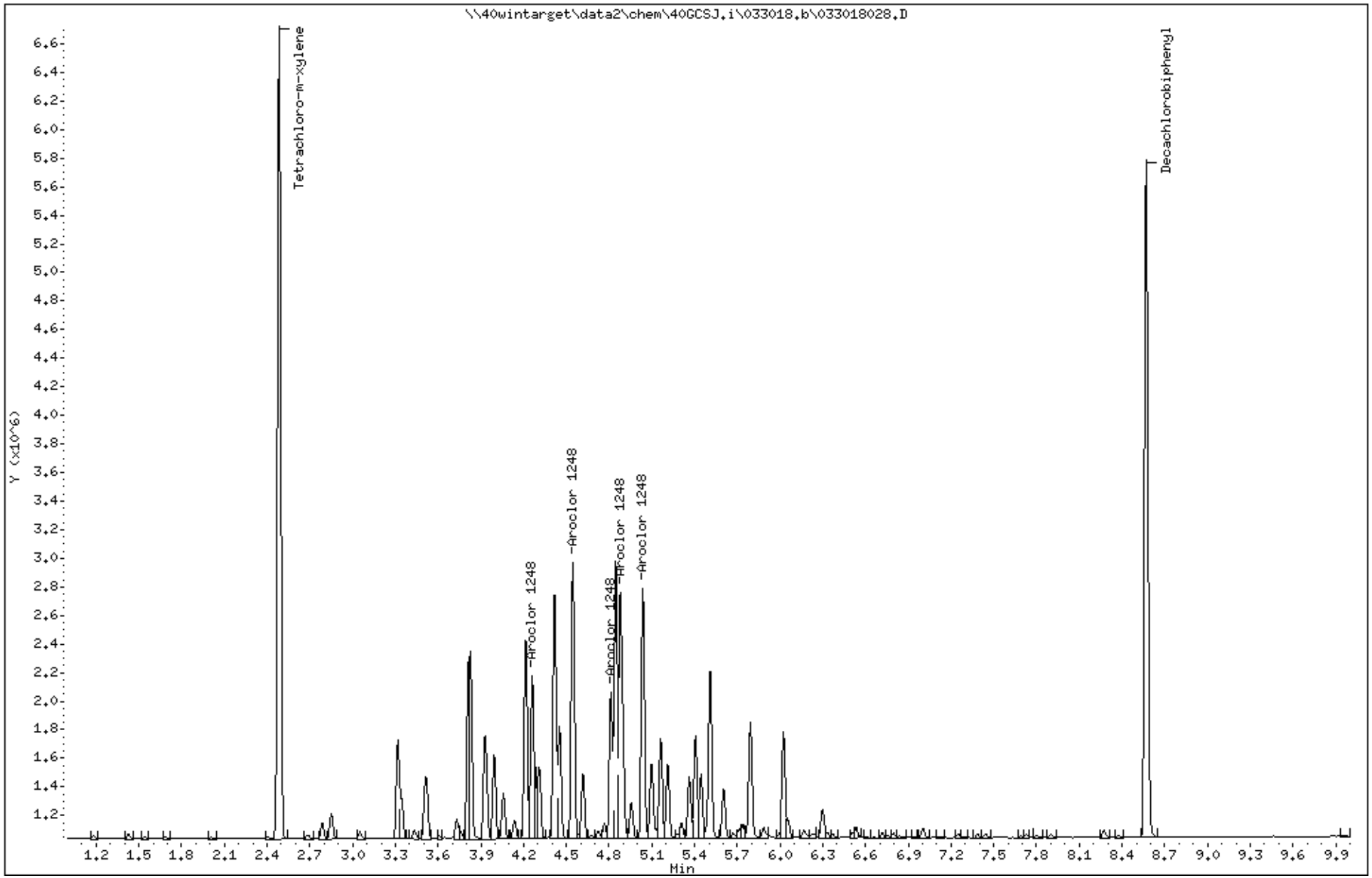
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018028.D
Date : 30-MAR-2018 22:08
Client ID: 1248-CCV
Sample Info: 1248-CCV, 185549:1

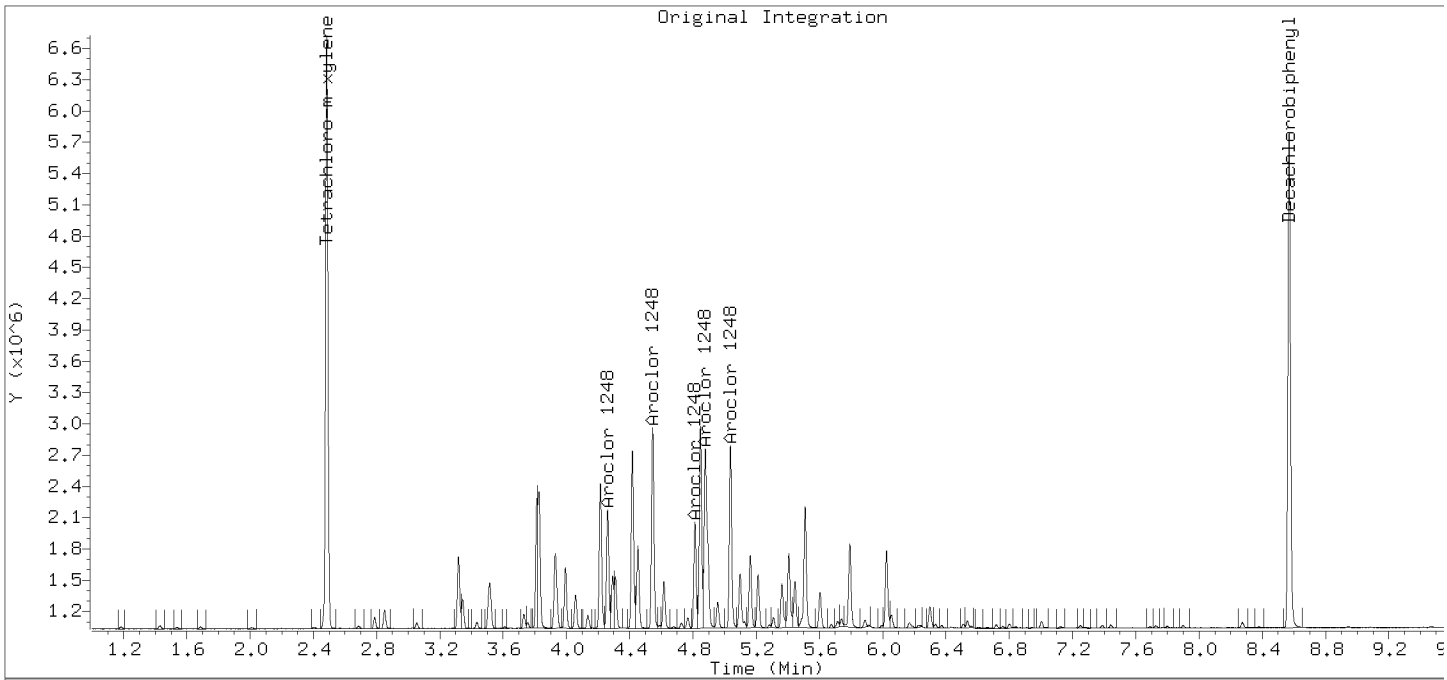
Column phase: ZB-1ms

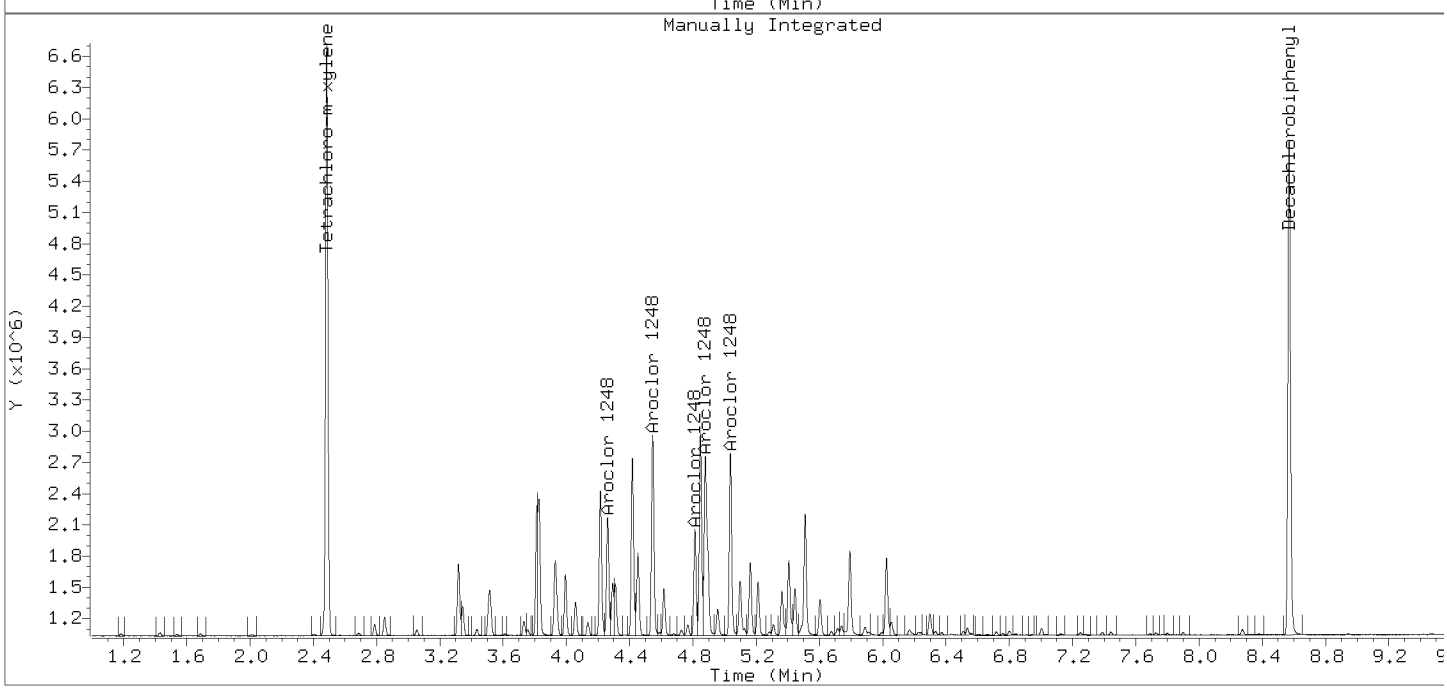
Instrument: 40GCSJ.i

Operator: BLM
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b/033018028.D (ManInt: AR1248.sub Orig: AR1248.sub)
Injection Date: 30-MAR-2018 22:08 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1248-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1248	1191553	1200304	BA
Aroclor 1248	1191553	1200304	BA
Aroclor 1248	1191553	1200304	BA
Aroclor 1248	1191553	1200304	BA
Aroclor 1248	1191553	1200304	BA
Tetrachloro-m-xylene	5996032	5996032	
Decachlorobiphenyl	5412400	5412400	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018040.D
Lab Smp Id: 1254-CCV Client Smp ID: 1254-CCV
Inj Date : 31-MAR-2018 01:18
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-ccv, 185554:1
Misc Info : 17498,AR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 05-Apr-2018 14:48 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 40 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1254.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.186	21140	16699	0.790	0.03		
1.427	41999	32916	0.784	0.07		
1.538	22134	15734	0.711	0.03		
1.686	44464	34247	0.770	0.07		
2.014	10170	9404	0.925	0.01		
2.413	10557	6634	0.628	0.01		
2.485	6221198	5839024	0.939	11.57	$ 2 Tetrachloro-m-xylene	
2.787	95868	87690	0.915	0.17		
2.849	26414	20028	0.758	0.04		
3.050	23746	21049	0.886	0.04		
3.318	34357	31394	0.914	0.06		
3.342	20003	18282	0.914	0.03		
3.512	30866	21959	0.711	0.05		
3.612	26431	18611	0.704	0.04		
3.730	14704	13742	0.935	0.02		
3.813	13504	24466	1.812	0.02		
3.935	65301	42797	0.655	0.11		
3.994	30867	27536	0.892	0.05		
4.057	25706	19287	0.750	0.04		
4.161	10104	9555	0.946	0.01		
4.214	1285826	1208288	0.940	2.28		
4.260	344307	330726	0.961	0.61		
4.292	60616	46795	0.772	0.10		
4.417	797201	765420	0.960	1.41		
4.453	84280	71476	0.848	0.15		
4.546	357733	341632	0.955	0.63		
4.592	19107	15409	0.806	0.03		
4.618	60962	56235	0.922	0.10		
4.679	31059	19839	0.639	0.05		
4.765	20877	19302	0.925	0.03		
4.813	304936	300039	0.984	0.54		
4.847	1181199	1118169	0.947	2.10		
4.895	2514126	2000217	0.796	4.47		
4.957	400311	356070	0.889	0.71		
5.036	253219	240103	0.948	0.45		
5.099	1478956	1268342	0.858	2.63		
5.162	2720027	2465314	0.906	4.84	7 Aroclor 1254	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.212	1245437	1149786	0.923	2.21	
5.283	63706	60491	0.950	0.11	
5.308	223108	209590	0.939	0.39	
5.362	1101800	994241	0.902	1.96	
5.407	2266833	1999147	0.882	4.03	7 Aroclor 1254
5.445	772799	712298	0.922	1.37	
5.478	274807	263550	0.959	0.48	
5.509	4043084	3692883	0.913	7.20	7 Aroclor 1254
5.576	46978	42866	0.912	0.08	
5.603	572282	523062	0.914	1.01	
5.674	359318	344649	0.959	0.63	
5.711	559484	364619	0.652	0.99	
5.740	353096	289609	0.820	0.62	
5.790	4157605	3299587	0.794	7.40	
5.883	359517	282123	0.785	0.64	
5.928	182191	115225	0.632	0.32	
5.993	352863	323833	0.918	0.62	
6.025	2647349	2228910	0.842	4.71	7 Aroclor 1254
6.054	1831984	1566539	0.855	3.26	
6.167	755562	646286	0.855	1.34	
6.225	295167	310571	1.052	0.52	
6.240	344817	293530	0.851	0.61	
6.298	3468411	2829688	0.816	6.17	7 Aroclor 1254
6.333	601912	560736	0.932	1.07	
6.373	349949	301178	0.861	0.62	
6.437	90875	51973	0.572	0.16	
6.487	17299	17404	1.006	0.03	
6.509	121611	126033	1.036	0.21	
6.535	1192633	942811	0.791	2.12	
6.605	167394	145297	0.868	0.29	
6.660	27212	23928	0.879	0.04	
6.718	236668	197172	0.833	0.42	
6.758	134178	119599	0.891	0.23	
6.800	667264	619072	0.928	1.18	
6.841	171727	120085	0.699	0.30	
6.906	19740	15067	0.763	0.03	
6.941	57850	52551	0.908	0.10	
7.003	464609	415862	0.895	0.82	
7.075	28321	25062	0.885	0.05	
7.128	30149	17939	0.595	0.05	
7.249	389338	348933	0.896	0.69	
7.280	83090	75656	0.911	0.14	
7.332	9317	7113	0.763	0.01	
7.389	12677	12315	0.971	0.02	
7.443	23201	21589	0.931	0.04	
7.555	32663	21049	0.644	0.05	
7.688	17517	16427	0.938	0.03	
7.728	28883	26155	0.906	0.05	
7.776	30321	18469	0.609	0.05	
7.901	30068	21832	0.726	0.05	
8.273	49592	43980	0.887	0.08	
8.374	57600	38667	0.671	0.10	
8.569	5665599	4919331	0.868	10.08	$ 12 Decachlorobiphenyl
8.938	87476	55888	0.639	0.15	
9.464	120288	74973	0.623	0.21	
9.718	9380	4565	0.487	0.01	
9.957	142449	86794	0.609	0.25	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
	56151322	49023018		100.000	

Total unknown % area = 51

Pace Analytical Services, Inc.

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Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018040.D
Lab Smp Id: 1254-CCV Client Smp ID: 1254-CCV
Inj Date : 31-MAR-2018 01:18
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-ccv, 185554:1
Misc Info : 17498,AR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 05-Apr-2018 14:48 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 40 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1254.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	6221198	0.05000	0.050			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	2720027	0.50000	0.52	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	2266832	0.50000	0.53	0.00- 20.00	83.34	BA
5.508	5.510	-0.002	4043083	0.50000	0.52	0.00- 20.00	148.64	BA
6.024	6.027	-0.003	2647348	0.50000	0.54	0.00- 20.00	97.33	BA
6.297	6.299	-0.002	3468411	0.50000	0.53	0.00- 20.00	127.51	BA
Average of Peak Amounts =					0.52800			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	5665598	0.05000	0.052			

QC Flag Legend

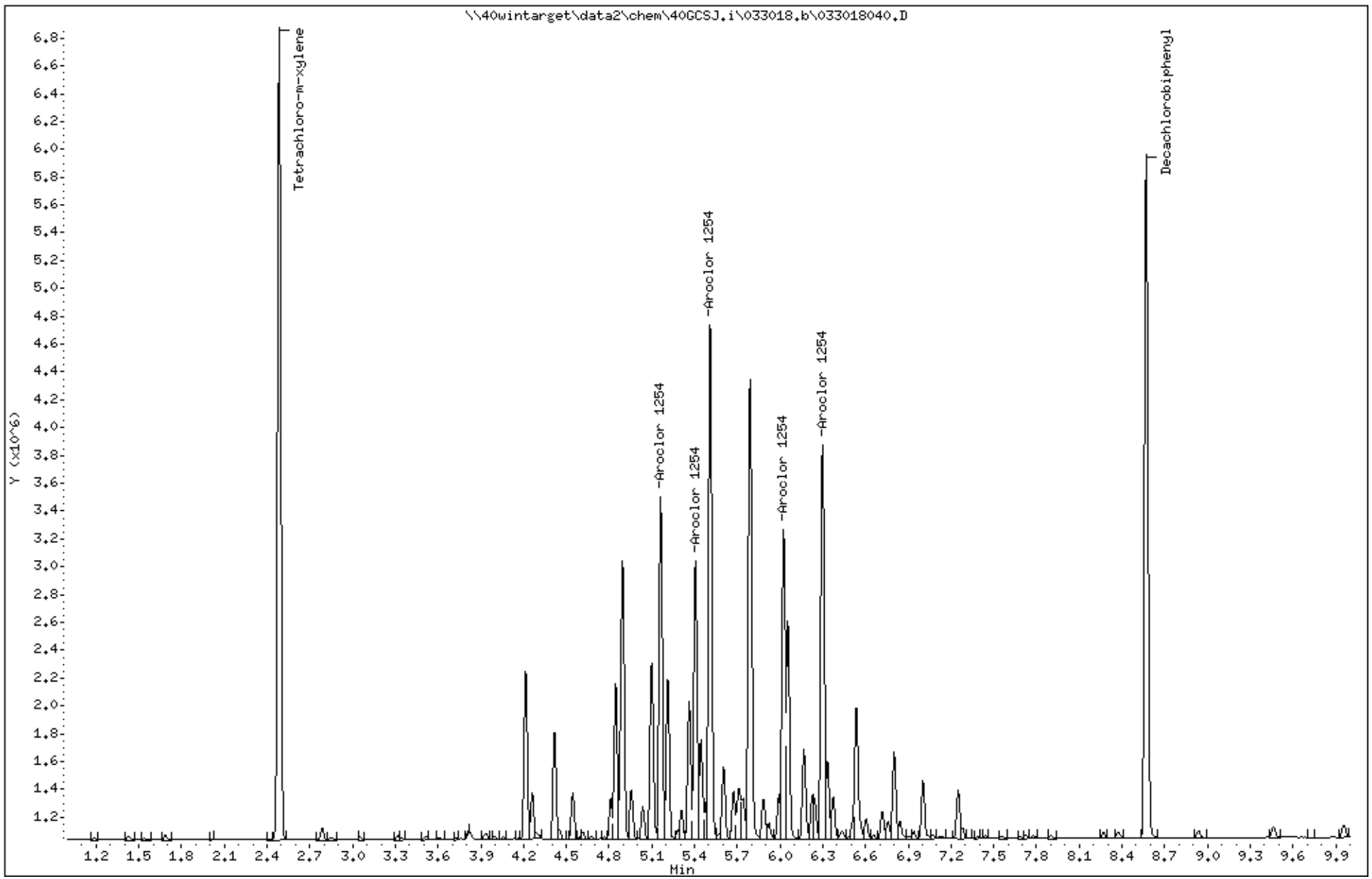
M - Compound response manually integrated.

Review Codes Legend

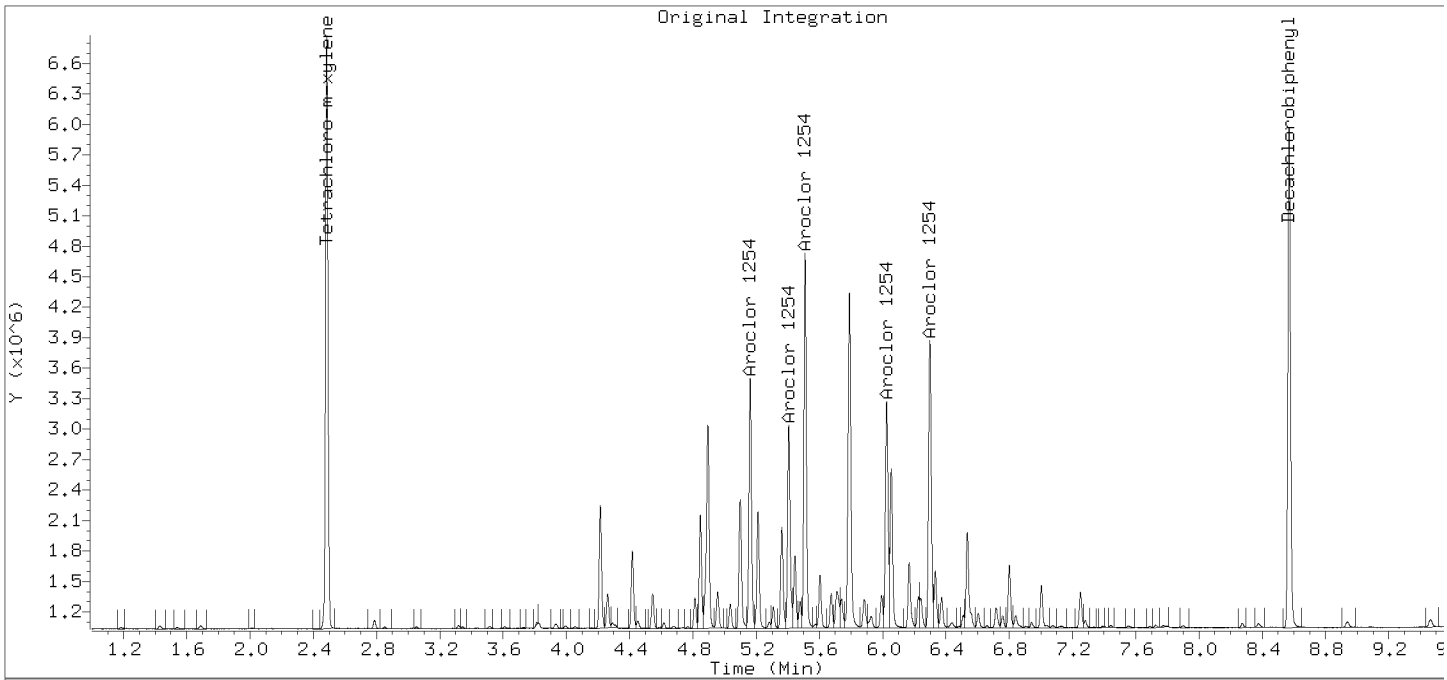
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

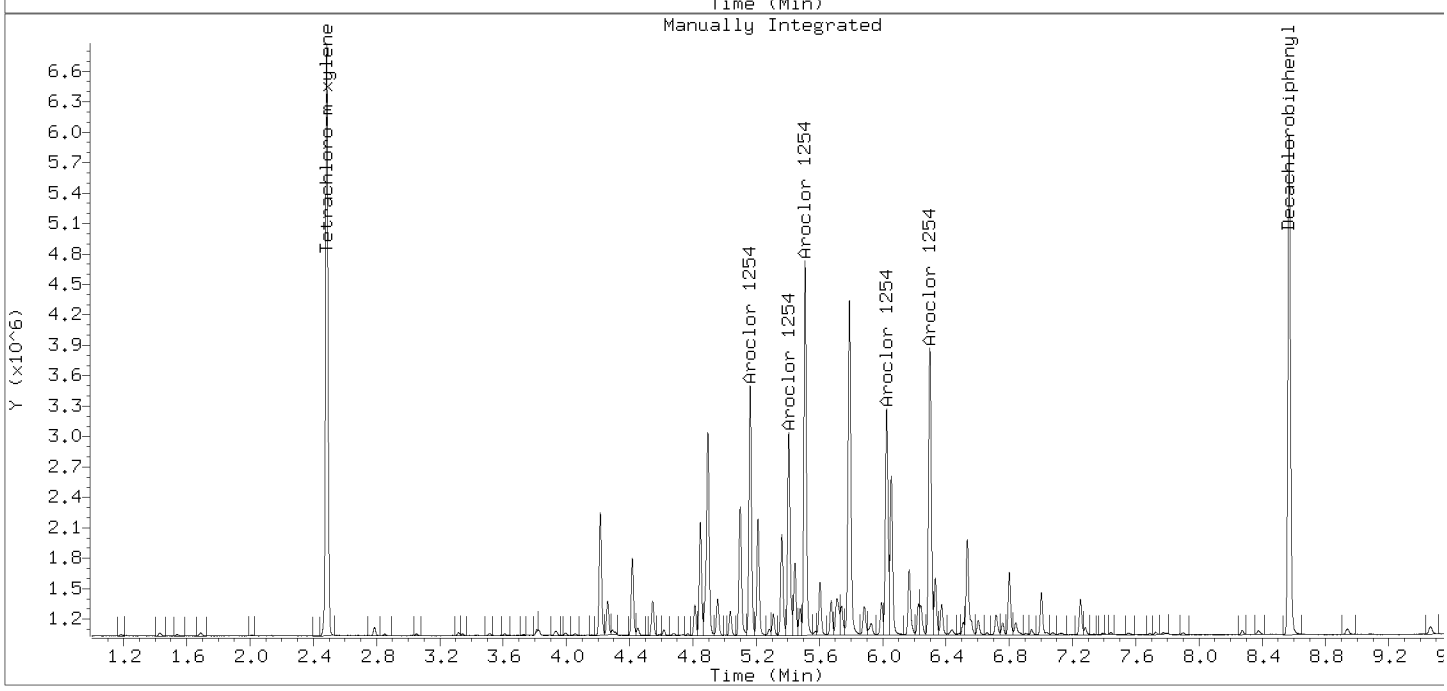
Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018040.D
Date : 31-MAR-2018 01:18
Client ID: 1254-CCV
Sample Info: 1254-CCV, 185554:1

Instrument: 40GCSJ.i
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b/033018040.D (ManInt: AR1254.sub Orig: AR1254.sub)
Injection Date: 31-MAR-2018 01:18 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1254-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1254	2718377	2720027	BA
Aroclor 1254	2718377	2720027	BA
Aroclor 1254	2718377	2720027	BA
Aroclor 1254	2718377	2720027	BA
Aroclor 1254	2718377	2720027	BA
Tetrachloro-m-xylene	6221198	6221198	
Decachlorobiphenyl	5665598	5665598	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018052.D
Lab Smp Id: 1660-CCV Client Smp ID: 1660-CCV
Inj Date : 31-MAR-2018 04:28
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-ccv, 185559:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 06-Apr-2018 14:21 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 52 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.185	55907	45979	0.822	0.06		
1.429	38888	32399	0.833	0.04		
1.537	25766	16184	0.628	0.02		
1.686	24823	19501	0.786	0.02		
1.805	17112	15013	0.877	0.01		
2.009	34482	25478	0.739	0.03		
2.197	12657	8906	0.704	0.01		
2.405	149127	112111	0.752	0.16		
2.485	6219917	5912763	0.951	7.47	$ 2 Tetrachloro-m-xylene	
2.687	214955	176811	0.823	0.24		
2.789	317364	296153	0.933	0.35		
2.850	1171307	1080385	0.922	1.31		
3.028	18653	19616	1.052	0.02		
3.054	167847	156032	0.930	0.18		
3.278	29615	21705	0.733	0.03		
3.318	1591961	1454348	0.914	1.78	5 Aroclor 1016	BA
3.343	908581	854120	0.940	1.02		
3.435	248495	228392	0.919	0.27		
3.512	1579222	1139611	0.722	1.77	5 Aroclor 1016	BA
3.610	21745	21139	0.972	0.02		
3.645	27453	17282	0.630	0.03		
3.694	45399	44285	0.975	0.05		
3.731	404461	410825	1.016	0.45		
3.756	277435	257447	0.928	0.31		
3.825	4625808	2703910	0.585	5.19	5 Aroclor 1016	BA
3.928	1969619	1629783	0.827	2.21	5 Aroclor 1016	BA
3.994	1337393	1260603	0.943	1.50	5 Aroclor 1016	BA
4.058	378423	346880	0.917	0.42		
4.136	144861	135123	0.933	0.16		
4.215	1137743	1084965	0.954	1.27		
4.260	1028909	967207	0.940	1.15		
4.292	422256	449754	1.065	0.47		
4.309	536316	499746	0.932	0.60		
4.370	37734	27180	0.720	0.04		
4.417	1422387	1321547	0.929	1.59		
4.452	1059334	806522	0.761	1.18		
4.545	1803335	1677975	0.930	2.02		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.616	403345	378612	0.939	0.45	
4.679	26261	19740	0.752	0.02	
4.725	64000	55260	0.863	0.07	
4.768	59206	57216	0.966	0.06	
4.813	336455	328481	0.976	0.37	
4.847	528899	497649	0.941	0.59	
4.894	1648459	1232592	0.748	1.85	
4.955	103596	83258	0.804	0.11	
5.037	94851	86695	0.914	0.10	
5.099	343173	297232	0.866	0.38	
5.163	1361269	1241848	0.912	1.52	
5.212	56991	51698	0.907	0.06	
5.308	15807	14018	0.887	0.01	
5.362	97568	83728	0.858	0.10	
5.406	371787	349650	0.940	0.41	
5.444	15340	15424	1.005	0.01	
5.477	535559	494040	0.922	0.60	
5.509	947791	872083	0.920	1.06	
5.605	19682	16262	0.826	0.02	
5.674	1383906	1271894	0.919	1.55	
5.708	996621	560485	0.562	1.11	
5.785	3399878	2883912	0.848	3.81	
5.882	229560	208642	0.909	0.25	
5.928	108792	89462	0.822	0.12	
5.993	585681	538851	0.920	0.65	
6.029	1320191	1324832	1.004	1.48	
6.054	3805699	3295937	0.866	4.27	
6.167	2480608	1583773	0.638	2.78	
6.255	554708	320023	0.577	0.62	
6.299	4695646	3932340	0.837	5.27	8 Aroclor 1260
6.333	643632	592600	0.921	0.72	
6.372	152976	132932	0.869	0.17	
6.430	475543	409516	0.861	0.53	
6.484	102361	125508	1.226	0.11	
6.508	2260796	2051082	0.907	2.53	
6.533	446065	468654	1.051	0.50	
6.560	1400779	1241097	0.886	1.57	
6.603	146773	128618	0.876	0.16	
6.659	440172	418201	0.950	0.49	
6.718	2431855	2194241	0.902	2.73	
6.758	1362160	1215660	0.892	1.52	
6.802	1150202	1023047	0.889	1.29	
6.838	200924	176706	0.879	0.22	
6.865	100634	87935	0.874	0.11	
6.913	151757	142859	0.941	0.17	
6.942	487618	451296	0.926	0.54	
7.003	5365372	4761787	0.888	6.02	8 Aroclor 1260
7.034	341359	335050	0.982	0.38	
7.074	154331	128725	0.834	0.17	
7.121	231835	191527	0.826	0.26	
7.220	11464	14385	1.255	0.01	
7.250	2630561	2326387	0.884	2.95	8 Aroclor 1260
7.281	703494	615802	0.875	0.79	
7.388	1275946	1081111	0.847	1.43	
7.441	1528389	1419238	0.929	1.71	8 Aroclor 1260
7.551	118469	97964	0.827	0.13	
7.689	633495	573692	0.906	0.71	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.727	86716	76936	0.887	0.09	
7.771	18445	17936	0.972	0.02	
7.800	75824	60256	0.795	0.08	
7.900	1423703	1208395	0.849	1.59	8 Aroclor 1260
7.964	95393	79433	0.833	0.10	
8.273	374568	322980	0.862	0.42	
8.378	31507	20149	0.640	0.03	
8.569	5798660	4974366	0.858	6.51	$ 12 Decachlorobiphenyl
8.940	28458	19622	0.690	0.03	
9.465	28180	18783	0.667	0.03	
9.960	28036	19441	0.693	0.03	
	89037072	76687234		100.000	

Total unknown % area = 56

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018052.D
Lab Smp Id: 1660-CCV Client Smp ID: 1660-CCV
Inj Date : 31-MAR-2018 04:28
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-ccv, 185559:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 06-Apr-2018 14:21 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 52 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	6219916	0.05000	0.050			
5 Aroclor 1016					CAS #: 12674-11-2			
3.317	3.318	-0.001	1591961	0.50000	0.52	0.00- 20.00	100.00(M)	BA
3.512	3.512	0.000	1579221	0.50000	0.51	0.00- 20.00	99.20	BA
3.825	3.826	-0.001	4625807	0.50000	0.52	0.00- 20.00	290.57	BA
3.928	3.929	-0.001	1969618	0.50000	0.52	0.00- 20.00	123.72	BA
3.993	3.994	-0.001	1337392	0.50000	0.51	0.00- 20.00	84.01	BA
Average of Peak Amounts =					0.51600			
8 Aroclor 1260					CAS #: 11096-82-5			
6.299	6.300	-0.001	4695645	0.50000	0.53	0.00- 20.00	100.00(M)	BA
7.003	7.006	-0.003	5365372	0.50000	0.54	0.00- 20.00	114.26	BA
7.250	7.251	-0.001	2630561	0.50000	0.55	0.00- 20.00	56.02	BA
7.441	7.443	-0.002	1528389	0.50000	0.52	0.00- 20.00	32.55	BA
7.900	7.901	-0.001	1423702	0.50000	0.54	0.00- 20.00	30.32	BA
Average of Peak Amounts =					0.53600			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	5798659	0.05000	0.053			

QC Flag Legend

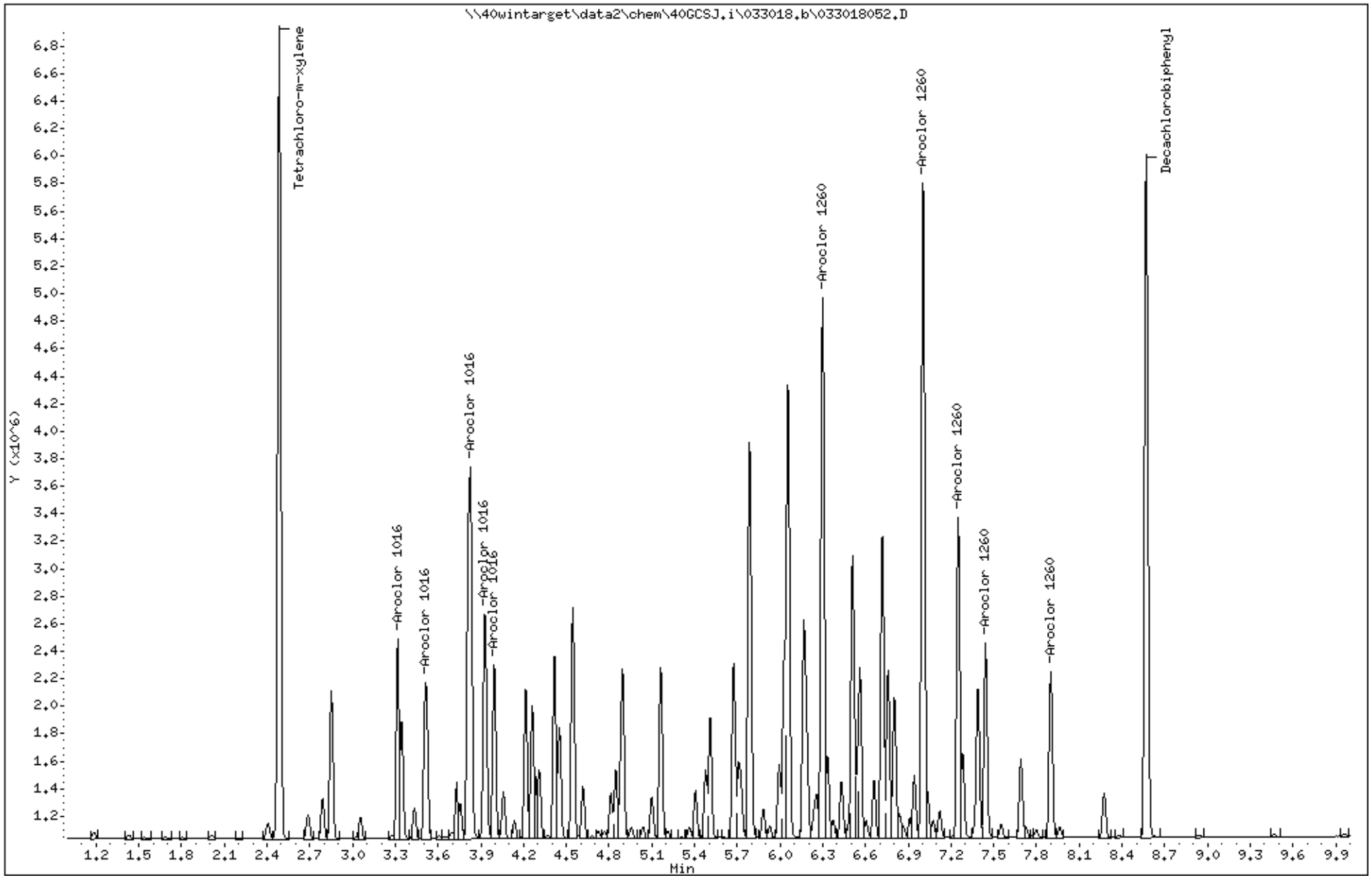
M - Compound response manually integrated.

Review Codes Legend

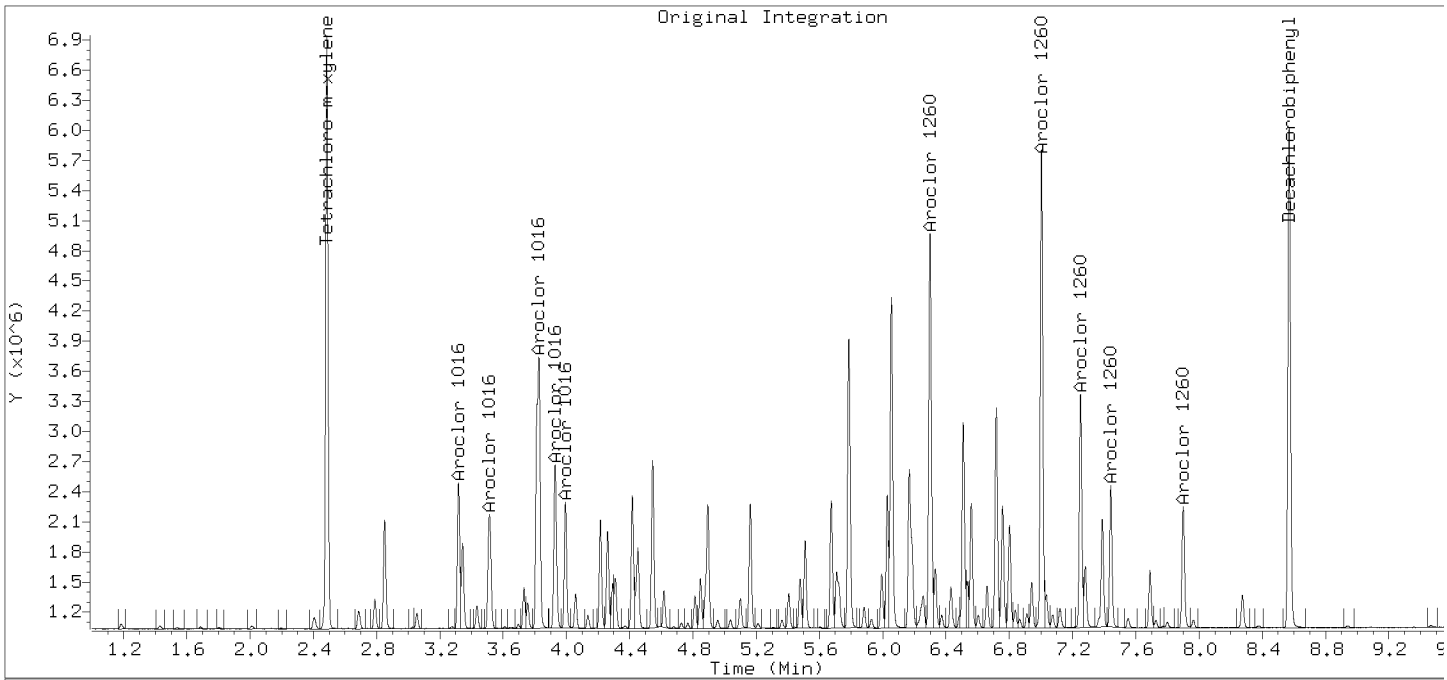
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

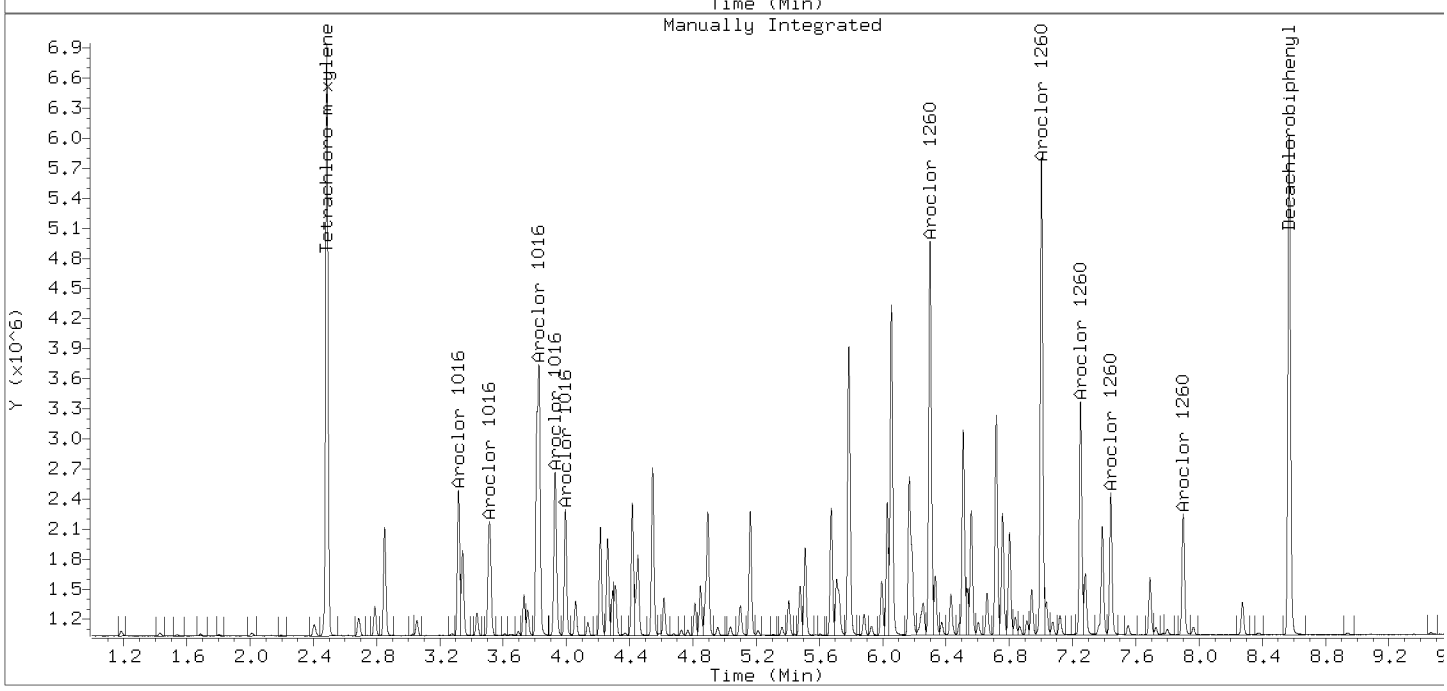
Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018052.D
Date : 31-MAR-2018 04:28
Client ID: 1660-CCV
Sample Info: 1660-CCV, 185559:1

Instrument: 40GCSJ.i
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b/033018052.D (ManInt: AR1660.sub Orig: AR1660.sub)
Injection Date: 31-MAR-2018 04:28 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1660-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1585695	1591961	BA
Aroclor 1016	1585695	1591961	BA
Aroclor 1016	1585695	1591961	BA
Aroclor 1016	1585695	1591961	BA
Aroclor 1016	1585695	1591961	BA
Aroclor 1260	4683020	4695645	BA
Aroclor 1260	4683020	4695645	BA
Aroclor 1260	4683020	4695645	BA
Aroclor 1260	4683020	4695645	BA
Aroclor 1260	4683020	4695645	BA
Tetrachloro-m-xylene	6219916	6219916	
Decachlorobiphenyl	5798659	5798659	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018063.D
Lab Smp Id: 1221-CCV Client Smp ID: 1221-CCV
Inj Date : 31-MAR-2018 07:23
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-ccv, 185538:1
Misc Info : 17498,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 06-Apr-2018 14:21 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 63 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1221.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS	REVIEW CODE
1.184	25547	16888	0.661	0.14			
1.428	38408	33132	0.863	0.21			
1.538	21254	14876	0.700	0.11			
1.685	25229	20652	0.819	0.14			
1.804	522373	449634	0.861	2.90		1 Aroclor 1221	BA
2.012	18022	14751	0.819	0.10			
2.160	13144	11017	0.838	0.07			
2.196	172546	148669	0.862	0.95			
2.406	271608	199121	0.733	1.51		1 Aroclor 1221	BA
2.484	6122468	5783191	0.945	34.28	$	2 Tetrachloro-m-xylene	BA
2.688	721846	602254	0.834	4.01		1 Aroclor 1221	BA
2.788	562572	535853	0.953	3.12		1 Aroclor 1221	BA
2.850	1718646	1510537	0.879	9.56		1 Aroclor 1221	BA
3.053	36473	30564	0.838	0.20			
3.278	130460	99215	0.761	0.72			
3.324	415728	244776	0.589	2.31			
3.433	39636	32529	0.821	0.22			
3.512	153057	108031	0.706	0.85			
3.607	16008	16858	1.053	0.08			
3.732	46137	46753	1.013	0.25			
3.756	45457	42031	0.925	0.25			
3.825	349430	213183	0.610	1.94			
3.929	168906	141344	0.837	0.93			
3.993	107548	99369	0.924	0.59			
4.056	23583	18815	0.798	0.13			
4.214	38959	34922	0.896	0.21			
4.259	30777	30437	0.989	0.17			
4.291	17776	11155	0.628	0.09			
4.417	26706	33962	1.272	0.14			
4.546	61070	53677	0.879	0.33			
4.617	17908	12574	0.702	0.09			
4.811	23107	23926	1.035	0.12			
4.848	38729	36821	0.951	0.21			
4.880	58195	41186	0.708	0.32			
4.953	9332	6683	0.716	0.05			
5.038	38312	34040	0.888	0.21			
5.386	10868	11040	1.016	0.06			

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.510	17146	13295	0.775	0.09	
6.447	12036	9971	0.828	0.06	
7.728	24347	21461	0.881	0.13	
7.799	19845	17518	0.883	0.11	
8.274	48828	41741	0.855	0.27	
8.375	16571	14051	0.848	0.09	
8.570	5658869	4919982	0.869	31.48	$ 12 Decachlorobiphenyl
9.468	16120	12257	0.760	0.08	
9.961	22776	15433	0.678	0.12	
	17974362	15830175		100.000	

Total unknown % area = 13

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018063.D
Lab Smp Id: 1221-CCV Client Smp ID: 1221-CCV
Inj Date : 31-MAR-2018 07:23
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-ccv, 185538:1
Misc Info : 17498,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 06-Apr-2018 14:21 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 63 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1221.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	6122467	0.05000	0.050		(M)	BA
1 Aroclor 1221					CAS #: 11104-28-2			
1.804	1.804	0.000	522373	0.50000	0.50	0.00- 20.00	100.00(M)	BA
2.406	2.407	-0.001	271608	0.50000	0.50	0.00- 20.00	52.00	BA
2.688	2.688	0.000	721845	0.50000	0.52	0.00- 20.00	138.19	BA
2.788	2.789	-0.001	562572	0.50000	0.51	0.00- 20.00	107.70	BA
2.850	2.851	-0.001	1718646	0.50000	0.53	0.00- 20.00	329.01	BA
Average of Peak Amounts =					0.51200			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	5658869	0.05000	0.052			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018063.D

Date : 31-MAR-2018 07:23

Client ID: 1221-CCV

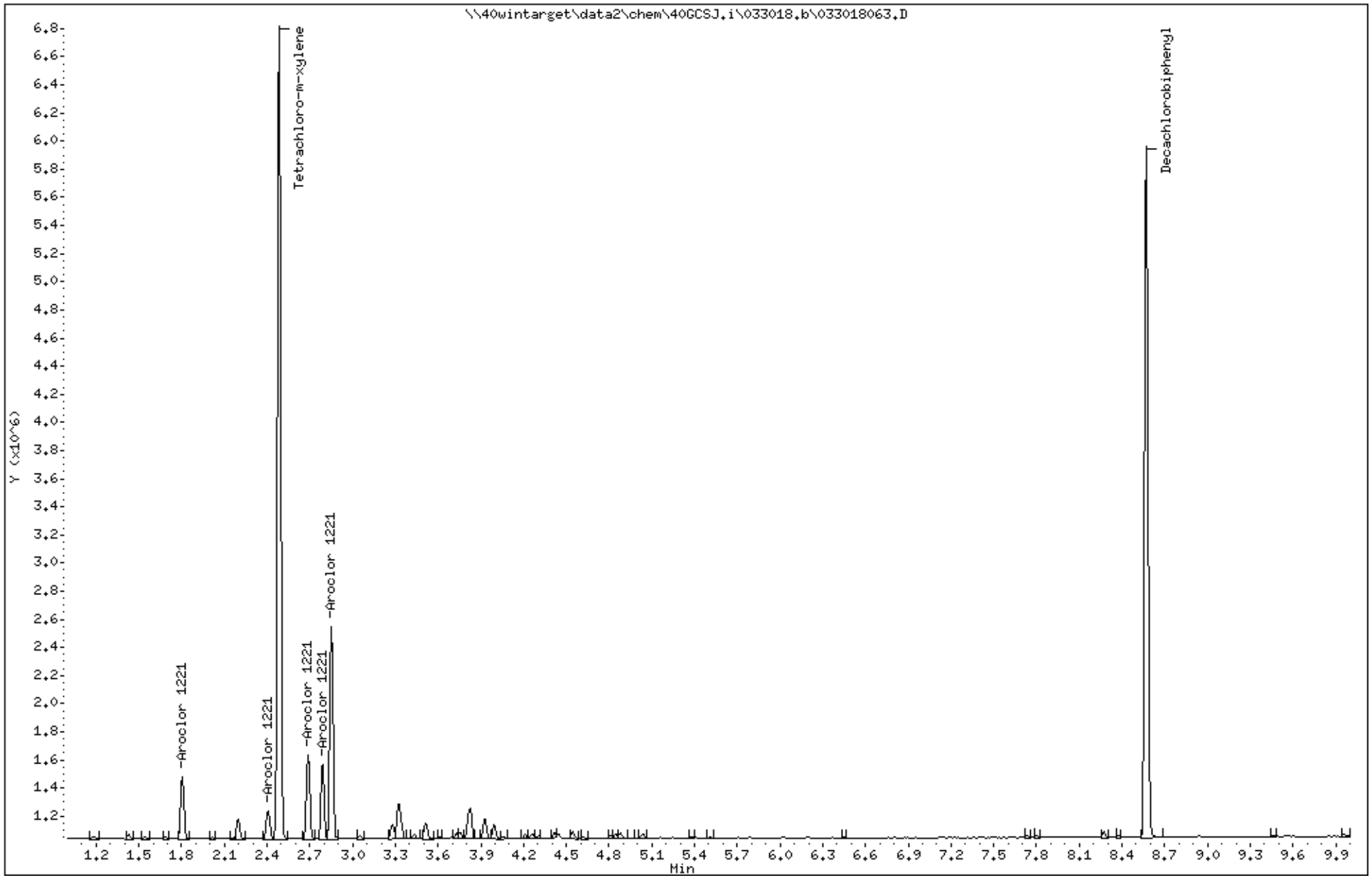
Instrument: 40GCSJ.i

Sample Info: 1221-CCV, 185538:1

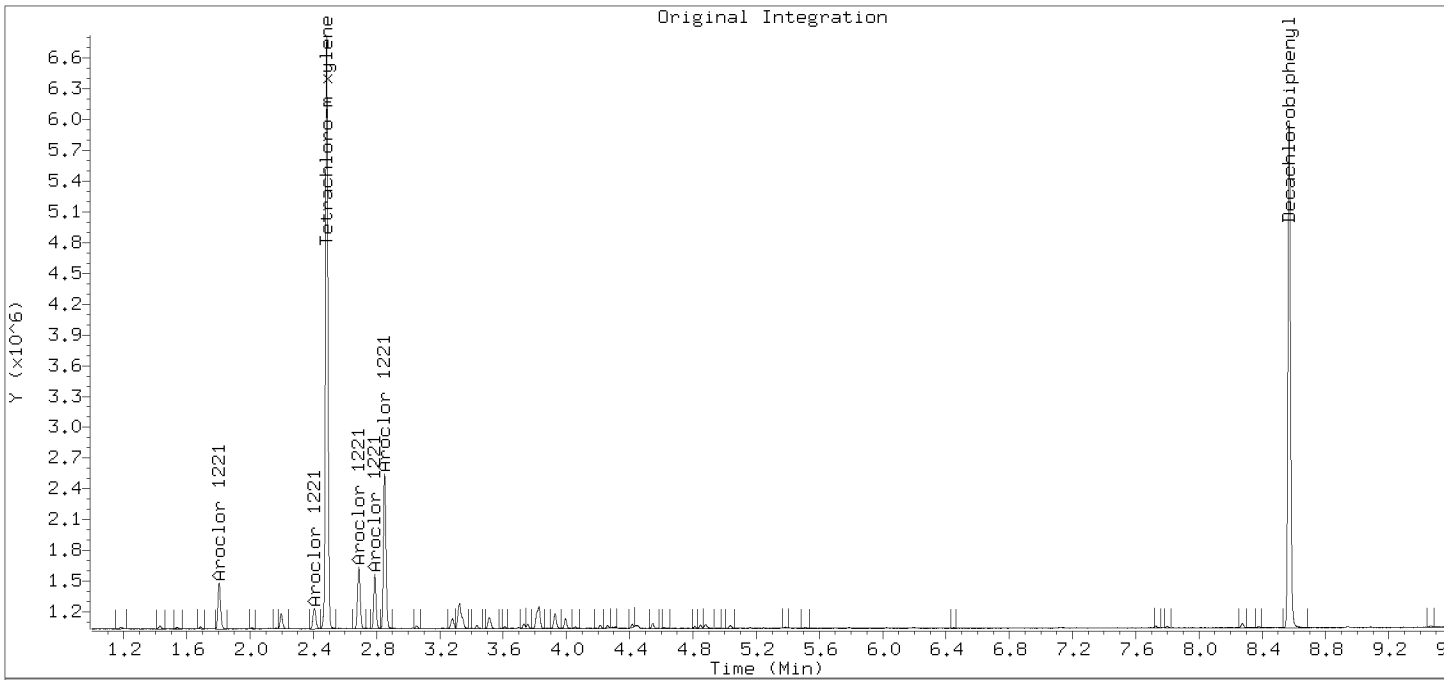
Operator: BLM

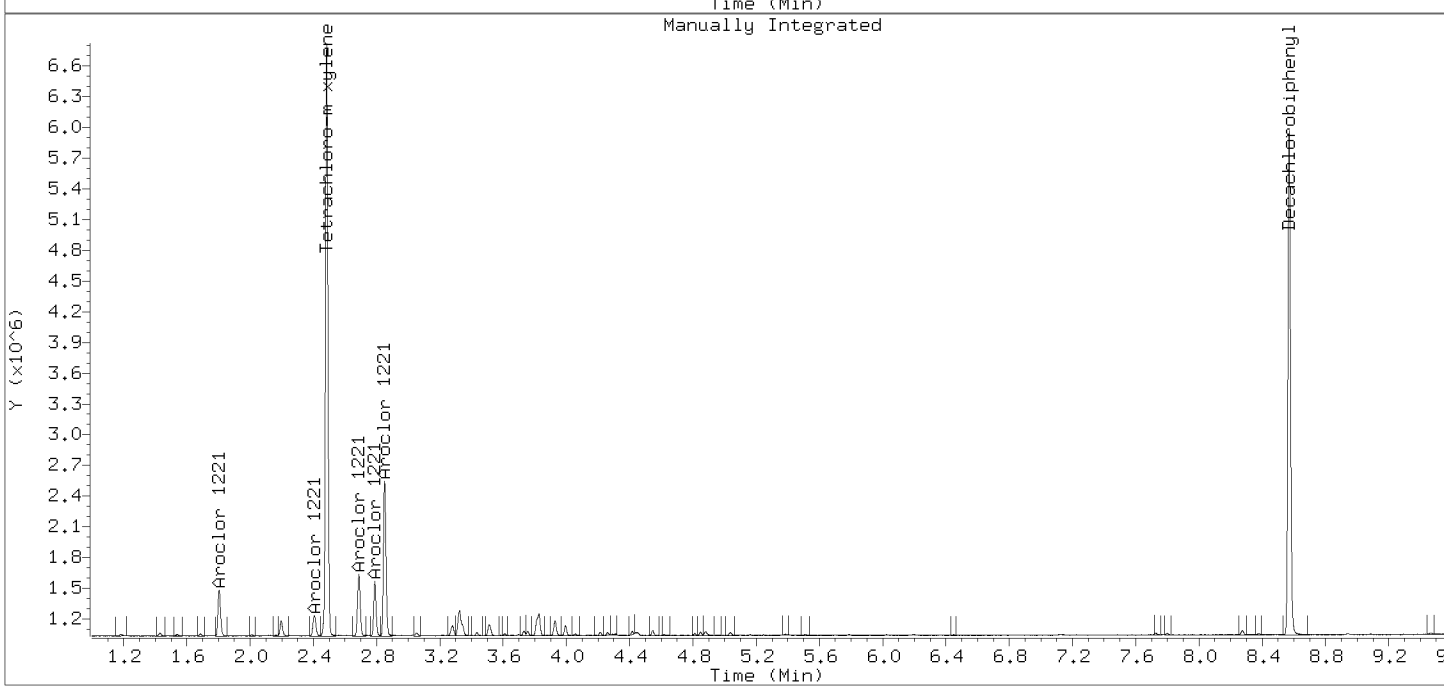
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b/033018063.D (ManInt: AR1221.sub Orig: AR1221.sub)
Injection Date: 31-MAR-2018 07:23 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1221-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1221	516929	522373	BA
Aroclor 1221	516929	522373	BA
Aroclor 1221	516929	522373	BA
Aroclor 1221	516929	522373	BA
Aroclor 1221	516929	522373	BA
Tetrachloro-m-xylene	6110856	6122467	BA
Decachlorobiphenyl	5658869	5658869	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318004.D
Lab Smp Id: 1660-CCV Client Smp ID: 1660-CCV
Inj Date : 03-APR-2018 15:01
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-ccv, 185559:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040318.b\pcba030618.m
Meth Date : 06-Apr-2018 14:26 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.184	34539	25943	0.751	0.03		
1.433	38857	30743	0.791	0.04		
1.540	19603	14651	0.747	0.02		
1.686	25756	20660	0.802	0.02		
1.810	14765	13084	0.886	0.01		
2.012	18840	14736	0.782	0.02		
2.128	9731	6666	0.685	0.01		
2.407	148696	110474	0.743	0.16		
2.485	6371915	5883653	0.923	7.70	$ 2 Tetrachloro-m-xylene	
2.686	207720	169490	0.816	0.23		
2.789	321302	291960	0.909	0.36		
2.850	1173606	1055627	0.899	1.33		
3.055	168097	155221	0.923	0.19		
3.278	25136	19961	0.794	0.02		
3.318	1600535	1479114	0.924	1.81	5 Aroclor 1016	BA
3.344	916091	855894	0.934	1.04		
3.434	260394	228260	0.877	0.29		
3.514	1606836	1133286	0.705	1.82	5 Aroclor 1016	BA
3.611	20303	17447	0.859	0.02		
3.646	28140	18402	0.654	0.03		
3.697	43925	42973	0.978	0.04		
3.732	404759	391001	0.966	0.45		
3.756	268613	251369	0.936	0.30		
3.826	4514270	2631229	0.583	5.12	5 Aroclor 1016	BA
3.930	1931104	1560241	0.808	2.19	5 Aroclor 1016	BA
3.995	1298214	1194192	0.920	1.47	5 Aroclor 1016	BA
4.058	385822	340947	0.884	0.43		
4.137	153520	131351	0.856	0.17		
4.215	1154379	1092284	0.946	1.31		
4.261	1032745	987266	0.956	1.17		
4.292	424347	444420	1.047	0.48		
4.311	550682	512192	0.930	0.62		
4.371	36940	24295	0.658	0.04		
4.417	1430804	1325005	0.926	1.62		
4.452	1032223	808200	0.783	1.17		
4.546	1831716	1642990	0.897	2.07		
4.617	409522	375521	0.917	0.46		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.680	30287	21062	0.695	0.03	
4.726	64625	53770	0.832	0.07	
4.769	59973	53524	0.892	0.06	
4.812	321506	305408	0.950	0.36	
4.848	509859	465369	0.913	0.57	
4.895	1654354	1202396	0.727	1.87	
4.958	107844	86367	0.801	0.12	
5.037	96001	80036	0.834	0.10	
5.101	348199	297381	0.854	0.39	
5.162	1366531	1251596	0.916	1.55	
5.211	62941	51563	0.819	0.07	
5.310	18264	13579	0.744	0.02	
5.363	95572	82783	0.866	0.10	
5.407	390633	331527	0.849	0.44	
5.478	549145	510076	0.929	0.62	
5.510	937459	846140	0.903	1.06	
5.605	24945	16971	0.680	0.02	
5.676	1392709	1286038	0.923	1.58	
5.710	947657	544421	0.574	1.07	
5.786	3426132	2956835	0.863	3.89	
5.882	235712	208816	0.886	0.26	
5.930	116665	89412	0.766	0.13	
5.994	575831	551479	0.958	0.65	
6.030	1304520	1262335	0.968	1.48	
6.056	3746187	3218769	0.859	4.25	
6.169	2451344	1523794	0.622	2.78	
6.256	565071	321761	0.569	0.64	
6.300	4520296	3576392	0.791	5.13	8 Aroclor 1260
6.334	659462	580250	0.880	0.74	
6.376	167105	132424	0.792	0.18	
6.431	485801	416254	0.857	0.55	
6.486	103742	129432	1.248	0.11	
6.510	2272530	1994129	0.877	2.58	
6.535	397841	444006	1.116	0.45	
6.561	1410047	1237176	0.877	1.60	
6.605	150593	116062	0.771	0.17	
6.661	442115	416435	0.942	0.50	
6.718	2409282	2132226	0.885	2.73	
6.759	1358935	1199126	0.882	1.54	
6.803	1096598	967101	0.882	1.24	
6.838	208227	180681	0.868	0.23	
6.865	110407	92981	0.842	0.12	
6.913	155034	146795	0.947	0.17	
6.943	473226	424875	0.898	0.53	
7.005	5123377	4430632	0.865	5.81	8 Aroclor 1260
7.035	341881	345161	1.010	0.38	
7.075	163457	128380	0.785	0.18	
7.121	244089	198236	0.812	0.27	
7.220	11306	11348	1.004	0.01	
7.252	2438162	2111509	0.866	2.76	8 Aroclor 1260
7.282	701151	596621	0.851	0.79	
7.390	1269692	1029148	0.811	1.44	
7.442	1525491	1252267	0.821	1.73	8 Aroclor 1260
7.554	106237	81066	0.763	0.12	
7.691	602992	528856	0.877	0.68	
7.728	106125	85166	0.803	0.12	
7.777	13766	14646	1.064	0.01	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.802	86554	64313	0.743	0.09	
7.901	1347168	1131402	0.840	1.52	8 Aroclor 1260
7.967	98028	74442	0.759	0.11	
8.275	366006	319053	0.872	0.41	
8.380	22054	15992	0.725	0.02	
8.571	5707908	4807768	0.842	6.48	$ 12 Decachlorobiphenyl
8.945	19617	14850	0.757	0.02	
9.471	18721	14336	0.766	0.02	
9.958	22774	15262	0.670	0.02	
	88072208	74390755		100.000	

Total unknown % area = 56

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318004.D
Lab Smp Id: 1660-CCV Client Smp ID: 1660-CCV
Inj Date : 03-APR-2018 15:01
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-ccv, 185559:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040318.b\pcba030618.m
Meth Date : 06-Apr-2018 14:26 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	6371914	0.05000	0.052			
5 Aroclor 1016					CAS #: 12674-11-2			
3.317	3.318	-0.001	1600534	0.50000	0.52	0.00- 20.00	100.00(M)	BA
3.514	3.512	0.002	1606835	0.50000	0.52	0.00- 20.00	100.39	BA
3.826	3.826	0.000	4514269	0.50000	0.51	0.00- 20.00	282.05	BA
3.929	3.929	0.000	1931103	0.50000	0.51	0.00- 20.00	120.65	BA
3.994	3.994	0.000	1298213	0.50000	0.50	0.00- 20.00	81.11	BA
Average of Peak Amounts =					0.51200			
8 Aroclor 1260					CAS #: 11096-82-5			
6.299	6.300	-0.001	4520296	0.50000	0.51	0.00- 20.00	100.00(M)	CO
7.004	7.006	-0.002	5123376	0.50000	0.51	0.00- 20.00	113.34	CO
7.251	7.251	0.000	2438161	0.50000	0.51	0.00- 20.00	53.94	CO
7.441	7.443	-0.002	1525491	0.50000	0.52	0.00- 20.00	33.75	CO
7.900	7.901	-0.001	1347167	0.50000	0.51	0.00- 20.00	29.80	CO
Average of Peak Amounts =					0.51200			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	5707907	0.05000	0.052			

QC Flag Legend

M - Compound response manually integrated.

QC Flag Legend

Review Codes Legend

:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

Data File: \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318004.D

Date : 03-APR-2018 15:01

Client ID: 1660-CCV

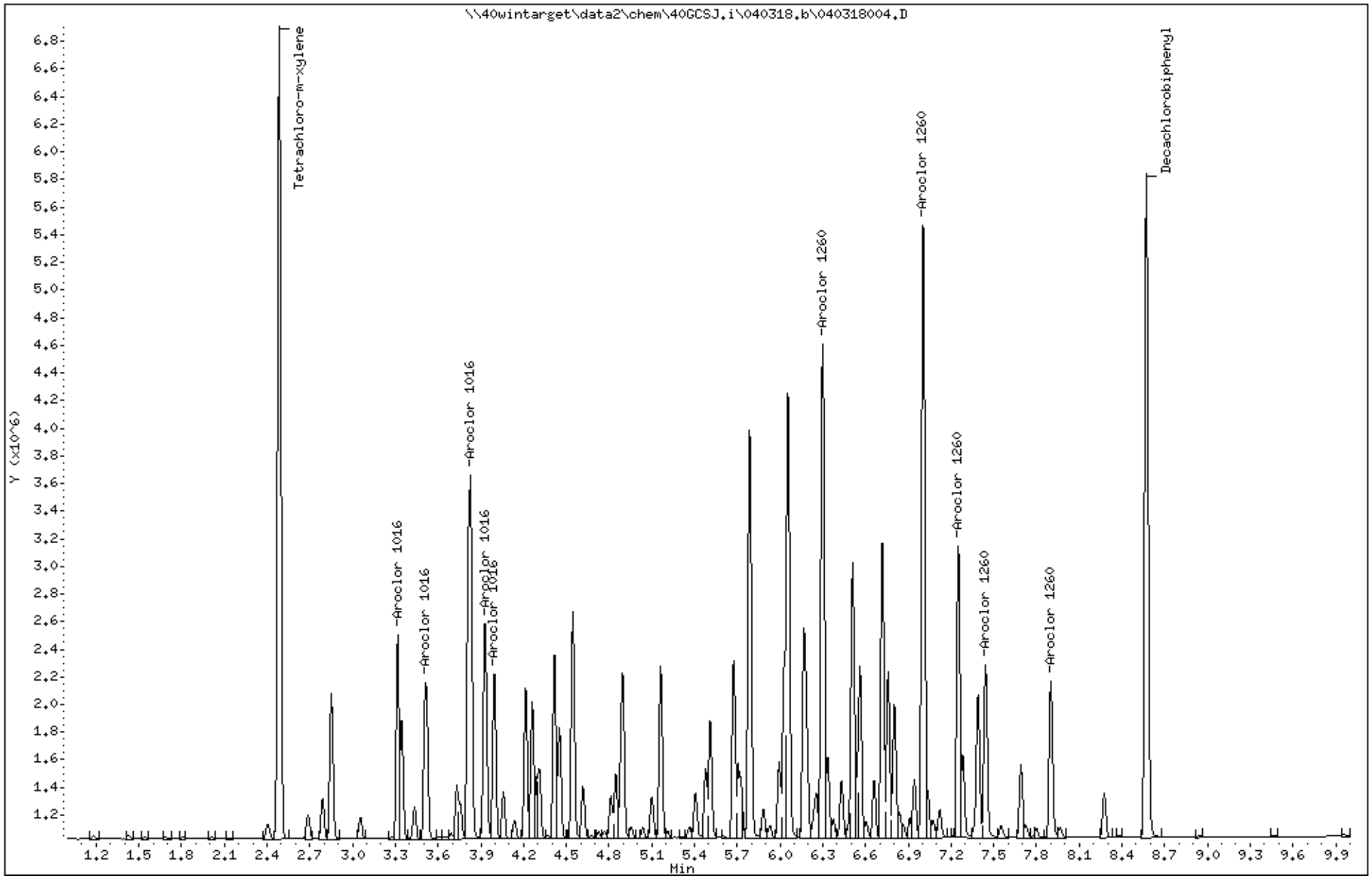
Instrument: 40GCSJ.i

Sample Info: 1660-CCV, 185559:1

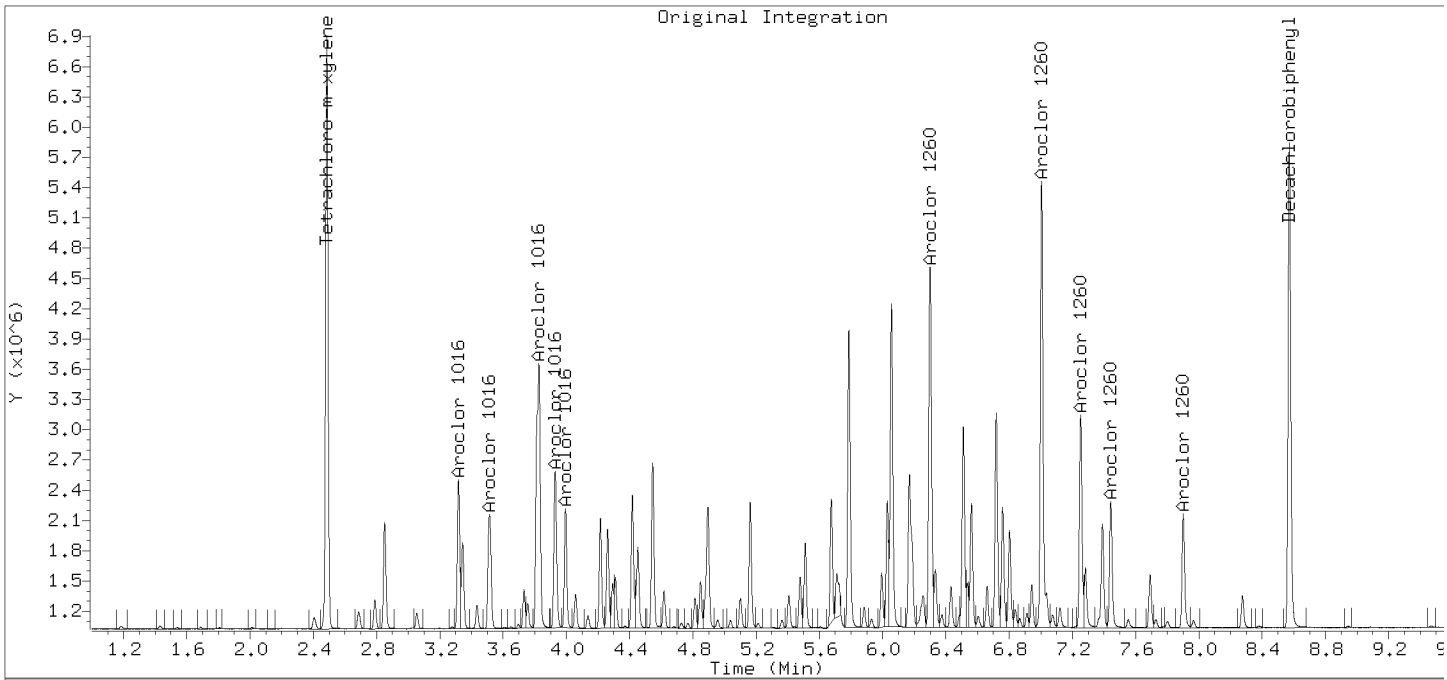
Operator: BLM

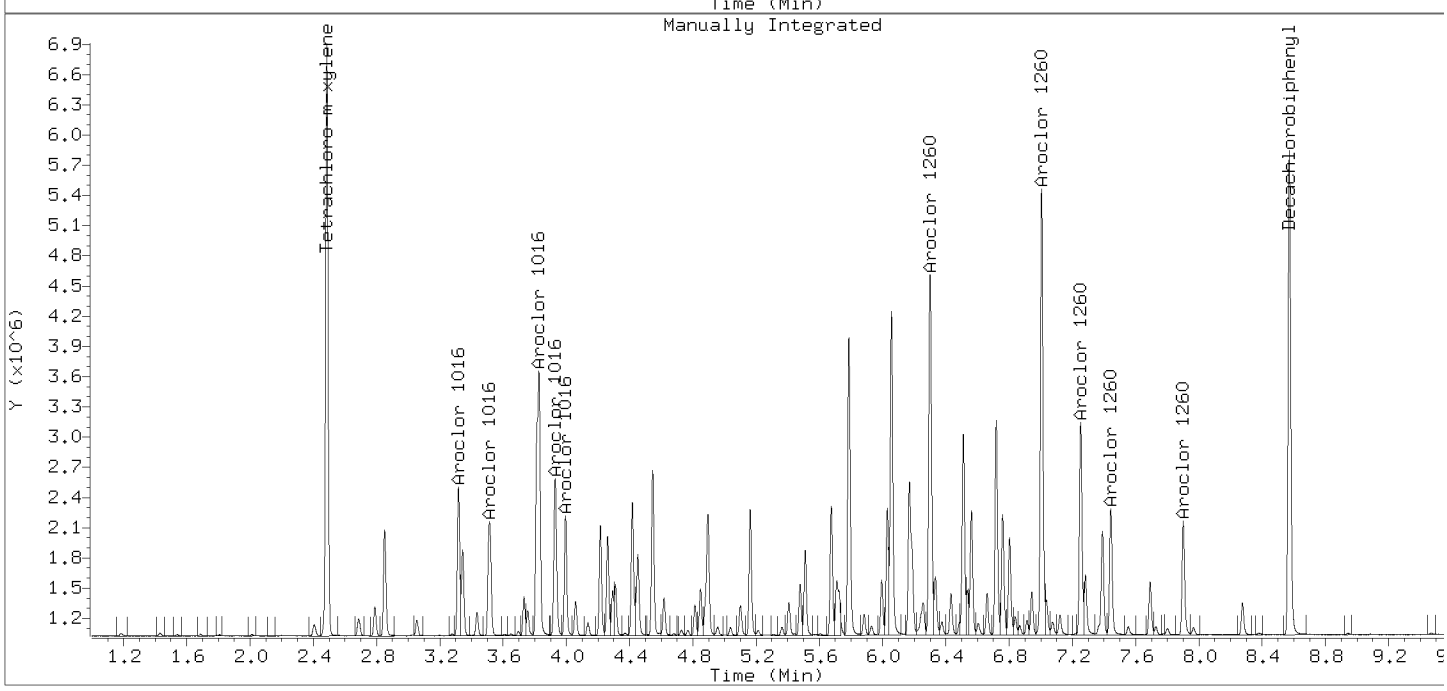
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\040318.b/040318004.D (ManInt: AR1660.sub Orig: AR1660.sub)
Injection Date: 03-APR-2018 15:01 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1660-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1592314	1600534	BA
Aroclor 1016	1592314	1600534	BA
Aroclor 1016	1592314	1600534	BA
Aroclor 1016	1592314	1600534	BA
Aroclor 1016	1592314	1600534	BA
Aroclor 1260	4499758	4520296	CO
Aroclor 1260	4499758	4520296	CO
Aroclor 1260	4499758	4520296	CO
Aroclor 1260	4499758	4520296	CO
Aroclor 1260	4499758	4520296	CO
Tetrachloro-m-xylene	6371914	6371914	
Decachlorobiphenyl	5707907	5707907	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318016.D
Lab Smp Id: 1221-CCV Client Smp ID: 1221-CCV
Inj Date : 03-APR-2018 18:11
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-ccv, 185538:1
Misc Info : 17498,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040318.b\pcba030618.m
Meth Date : 06-Apr-2018 14:26 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 16 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1221.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS	REVIEW CODE
1.185	68005	50409	0.741	0.36			
1.430	44672	34103	0.763	0.24			
1.536	16873	15660	0.928	0.09			
1.685	32989	28039	0.850	0.17			
1.804	537683	461822	0.859	2.89		1 Aroclor 1221	BA
2.012	48969	34298	0.700	0.26			
2.196	178636	145728	0.816	0.96			
2.408	283516	201425	0.710	1.52		1 Aroclor 1221	BA
2.484	6325140	5848215	0.925	34.28	$	2 Tetrachloro-m-xylene	BA
2.688	731601	599778	0.820	3.93		1 Aroclor 1221	BA
2.788	573313	532301	0.928	3.08		1 Aroclor 1221	BA
2.851	1759799	1507027	0.856	9.46		1 Aroclor 1221	BA
3.029	28825	23584	0.818	0.15			
3.051	41174	33098	0.804	0.22			
3.218	12402	8218	0.663	0.06			
3.280	128167	92928	0.725	0.68			
3.324	413389	228949	0.554	2.22			
3.436	38805	33603	0.866	0.20			
3.513	151587	108903	0.718	0.81			
3.610	17925	16582	0.925	0.09			
3.694	10636	11051	1.039	0.05			
3.732	43242	43190	0.999	0.23			
3.757	45982	39871	0.867	0.24			
3.826	353607	209060	0.591	1.90			
3.928	170577	140854	0.826	0.91			
3.995	119703	106004	0.886	0.64			
4.056	26156	19623	0.750	0.14			
4.133	11334	7703	0.680	0.06			
4.214	37578	34725	0.924	0.20			
4.261	32253	32105	0.995	0.17			
4.293	22112	12791	0.578	0.11			
4.415	43396	43362	0.999	0.23			
4.452	49519	30325	0.612	0.26			
4.544	55070	48983	0.889	0.29			
4.618	14121	13542	0.959	0.07			
4.813	20905	18780	0.898	0.11			
4.851	36321	32952	0.907	0.19			

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.881	65071	45371	0.697	0.35	
5.036	39990	32427	0.811	0.21	
5.160	11219	9374	0.836	0.06	
5.214	14171	10029	0.708	0.07	
5.440	9490	6987	0.736	0.05	
5.511	18948	12290	0.649	0.10	
5.706	15800	13199	0.835	0.08	
5.789	10042	7276	0.725	0.05	
6.451	17741	12803	0.722	0.09	
7.127	26753	16274	0.608	0.14	
7.685	10840	8112	0.748	0.05	
7.729	33617	27895	0.830	0.18	
7.777	21888	16874	0.771	0.11	
7.801	31467	22989	0.731	0.16	
8.277	56300	45097	0.801	0.30	
8.377	28236	19850	0.703	0.15	
8.572	5578575	4632517	0.830	30.01	$ 12 Decachlorobiphenyl
8.938	27443	17922	0.653	0.14	
9.465	25603	15044	0.588	0.13	
9.963	18945	14538	0.767	0.10	
	18588122	15836459		100.000	

Total unknown % area = 15

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318016.D
Lab Smp Id: 1221-CCV Client Smp ID: 1221-CCV
Inj Date : 03-APR-2018 18:11
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-ccv, 185538:1
Misc Info : 17498,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040318.b\pcba030618.m
Meth Date : 06-Apr-2018 14:26 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 16 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1221.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	6325140	0.05000	0.051		(M)	BA
1 Aroclor 1221					CAS #: 11104-28-2			
1.804	1.804	0.000	537683	0.50000	0.52	0.00- 20.00	100.00(M)	BA
2.408	2.407	0.001	283516	0.50000	0.52	0.00- 20.00	52.73	BA
2.688	2.688	0.000	731601	0.50000	0.53	0.00- 20.00	136.07	BA
2.788	2.789	-0.001	573313	0.50000	0.52	0.00- 20.00	106.63	BA
2.851	2.851	0.000	1759799	0.50000	0.54	0.00- 20.00	327.29	BA
Average of Peak Amounts =					0.52600			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.572	8.571	0.001	5578574	0.05000	0.051			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:

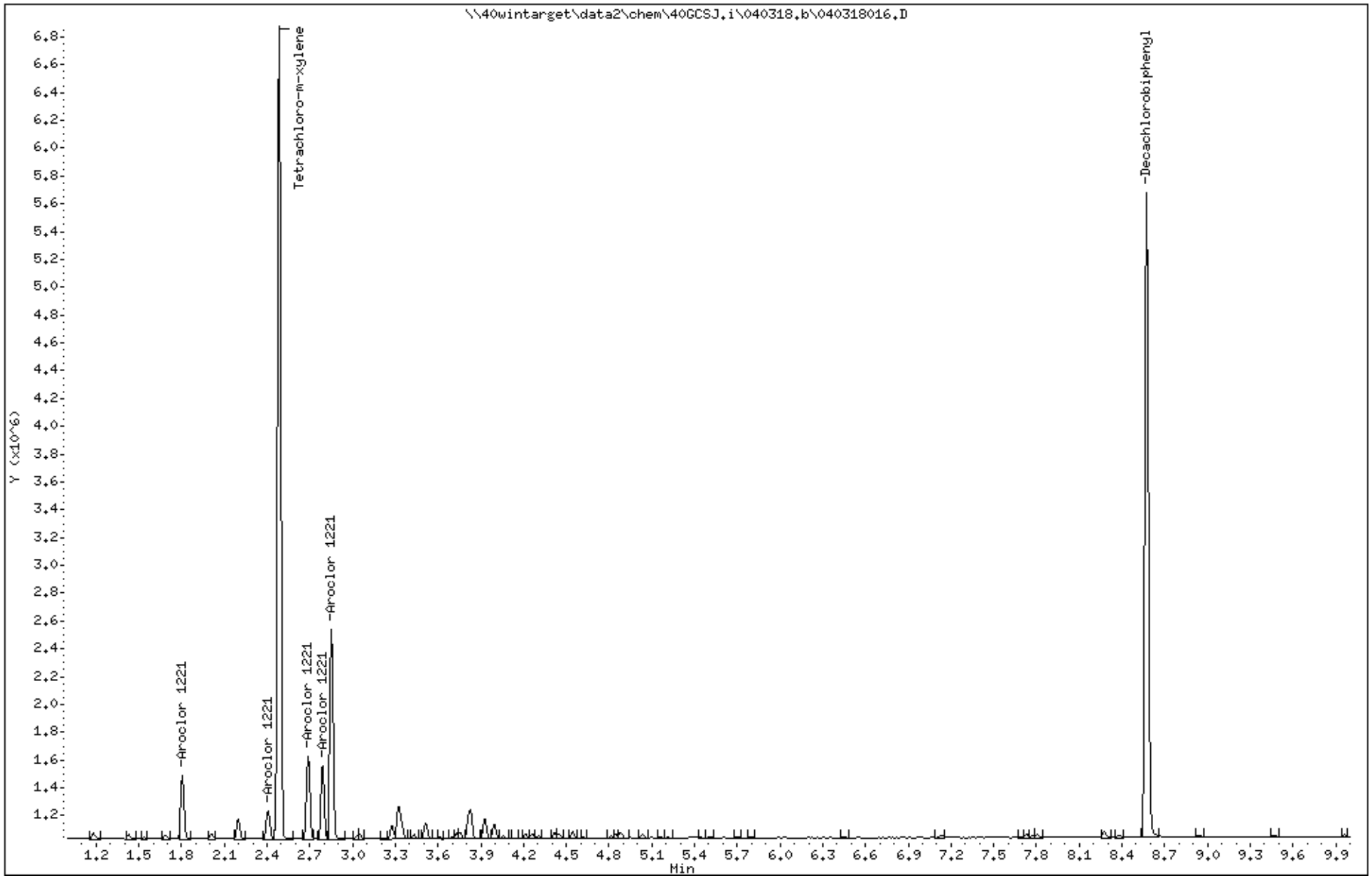
Data File: \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318016.D
Date : 03-APR-2018 18:11
Client ID: 1221-CCV
Sample Info: 1221-CCV, 185538:1

Instrument: 40GCSJ.i

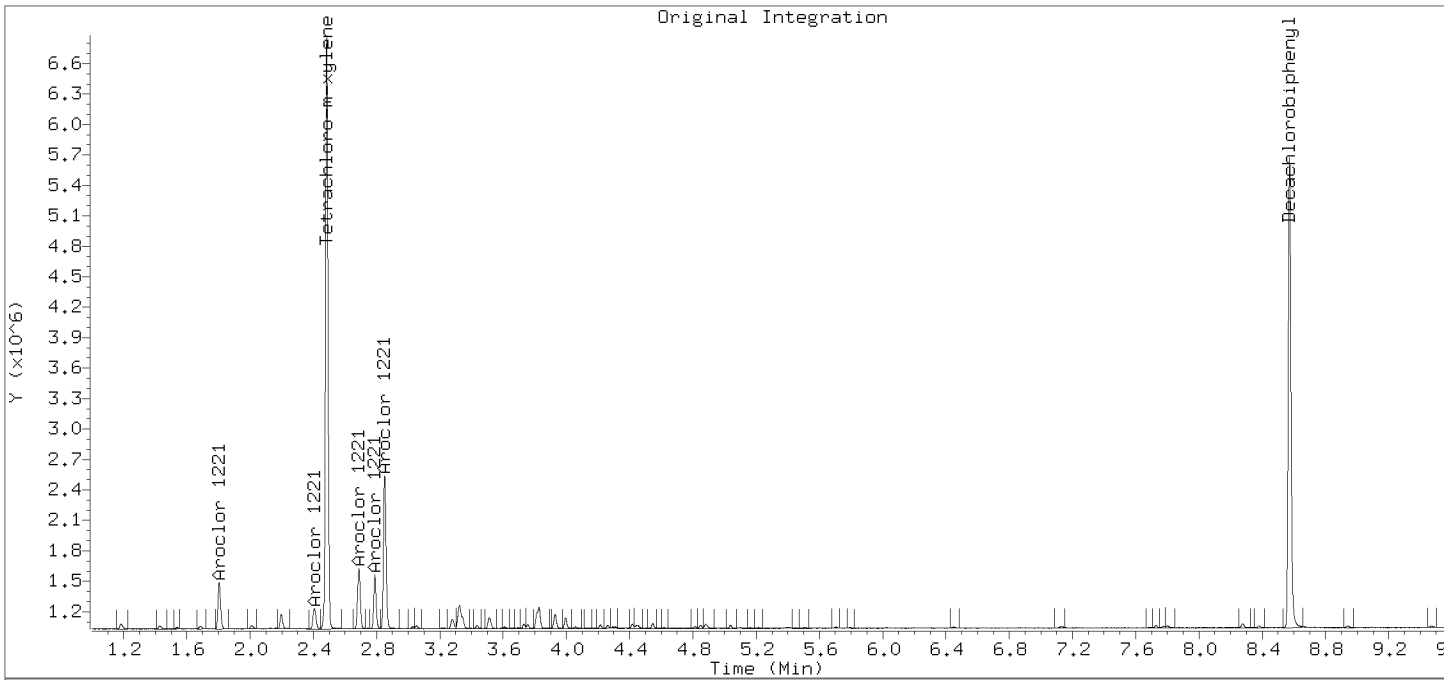
Operator: BLM

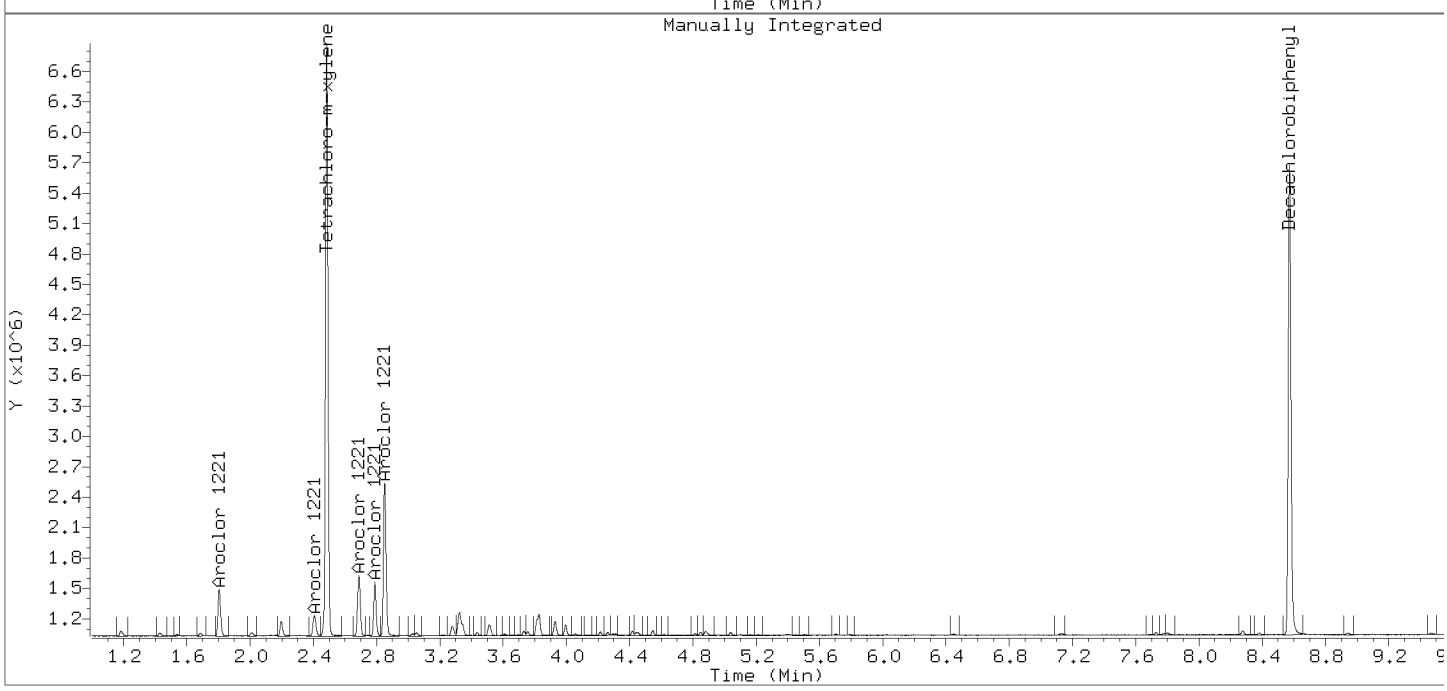
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\040318.b/040318016.D (ManInt: AR1221.sub Orig: AR1221.sub)
Injection Date: 03-APR-2018 18:11 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1221-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1221	531684	537683	BA
Aroclor 1221	531684	537683	BA
Aroclor 1221	531684	537683	BA
Aroclor 1221	531684	537683	BA
Aroclor 1221	531684	537683	BA
Tetrachloro-m-xylene	6314493	6325140	BA
Decachlorobiphenyl	5578574	5578574	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018028.D
Lab Smp Id: 1232-CCV Client Smp ID: 1232-CCV
Inj Date : 10-APR-2018 19:39
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1232-ccv, 185539:1
Misc Info : 17498,AR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 13-Apr-2018 11:26 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 28 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1232.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.182	37854	26493	0.700	0.13		
1.428	36502	31369	0.859	0.13		
1.541	18337	13278	0.724	0.06		
1.682	14585	11900	0.816	0.05		
1.804	306633	259866	0.847	1.12		
2.007	24279	14296	0.589	0.08		
2.197	83832	74872	0.893	0.30		
2.407	198784	146730	0.738	0.72		
2.484	5940254	5589667	0.941	22.07	$ 2 Tetrachloro-m-xylene	
2.688	446112	361477	0.810	1.63		
2.788	407371	375077	0.921	1.48		
2.850	1333721	1167621	0.875	4.87	4 Aroclor 1232	BA
3.053	87858	76901	0.875	0.32		
3.280	75026	54386	0.725	0.27		
3.317	761993	674789	0.886	2.78		
3.342	422534	382353	0.905	1.54		
3.434	121439	106547	0.877	0.44		
3.514	691523	493485	0.714	2.52	4 Aroclor 1232	BA
3.608	23499	18858	0.803	0.08		
3.646	15741	10842	0.689	0.05		
3.696	23707	22739	0.959	0.08		
3.731	176775	174987	0.990	0.64		
3.756	137994	120152	0.871	0.50		
3.826	1984568	1140998	0.575	7.25	4 Aroclor 1232	BA
3.928	852402	700721	0.822	3.11	4 Aroclor 1232	BA
3.993	556499	513643	0.923	2.03	4 Aroclor 1232	BA
4.058	153800	133829	0.870	0.56		
4.135	61965	53029	0.856	0.22		
4.214	408726	373634	0.914	1.49		
4.261	394493	355104	0.900	1.44		
4.293	156288	170271	1.089	0.57		
4.309	226655	191517	0.845	0.82		
4.369	17679	13729	0.777	0.06		
4.416	554417	516318	0.931	2.02		
4.450	448510	316663	0.706	1.63		
4.545	714586	640980	0.897	2.61		
4.616	171993	155745	0.906	0.62		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.676	13876	11492	0.828	0.05	
4.725	36960	29918	0.809	0.13	
4.769	39886	35144	0.881	0.14	
4.812	317789	290571	0.914	1.16	
4.848	554706	512255	0.923	2.02	
4.879	724787	535072	0.738	2.64	
4.957	82875	59262	0.715	0.30	
5.037	601961	537527	0.893	2.19	
5.098	118660	86202	0.726	0.43	
5.161	132038	119862	0.908	0.48	
5.211	93368	80719	0.865	0.34	
5.309	23642	19398	0.820	0.08	
5.362	80789	68055	0.842	0.29	
5.406	143938	115387	0.802	0.52	
5.446	89862	73288	0.816	0.32	
5.510	236132	164868	0.698	0.86	
5.605	72392	58497	0.808	0.26	
5.672	13799	12724	0.922	0.05	
5.715	18964	13820	0.729	0.06	
5.739	18225	16297	0.894	0.06	
5.791	154195	111198	0.721	0.56	
5.887	16724	13719	0.820	0.06	
6.023	117836	96540	0.819	0.43	
6.054	38272	31575	0.825	0.13	
6.167	16981	12340	0.727	0.06	
6.297	39774	32275	0.811	0.14	
6.511	9991	10389	1.040	0.03	
6.718	16896	13291	0.787	0.06	
6.755	12127	8674	0.715	0.04	
7.004	33575	22775	0.678	0.12	
7.253	15548	10646	0.685	0.05	
7.727	26914	23680	0.880	0.09	
7.774	9803	8128	0.829	0.03	
7.801	21461	17600	0.820	0.07	
7.899	12382	7784	0.629	0.04	
8.275	54606	40784	0.747	0.19	
8.372	9723	8774	0.902	0.03	
8.571	5254551	4329601	0.824	19.20	$ 12 Decachlorobiphenyl
	27364942	23124997		100.000	

Total unknown % area = 39

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018028.D
Lab Smp Id: 1232-CCV Client Smp ID: 1232-CCV
Inj Date : 10-APR-2018 19:39
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1232-ccv, 185539:1
Misc Info : 17498,AR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 13-Apr-2018 11:26 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 28 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1232.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.484	2.484	0.000	5940253	0.05000	0.048			
4 Aroclor 1232						CAS #: 1114-16-5		
2.850	2.851	-0.001	1333721	0.50000	0.53	0.00- 20.00	100.00(M)	BA
3.514	3.513	0.001	691523	0.50000	0.52	0.00- 20.00	51.85	BA
3.825	3.827	-0.002	1984568	0.50000	0.53	0.00- 20.00	148.80	BA
3.928	3.929	-0.001	852402	0.50000	0.53	0.00- 20.00	63.91	BA
3.993	3.995	-0.002	556499	0.50000	0.51	0.00- 20.00	41.73	BA
Average of Peak Amounts =					0.52400			
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
8.570	8.571	-0.001	5254551	0.05000	0.048			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018028.D

Date : 10-APR-2018 19:39

Client ID: 1232-CCV

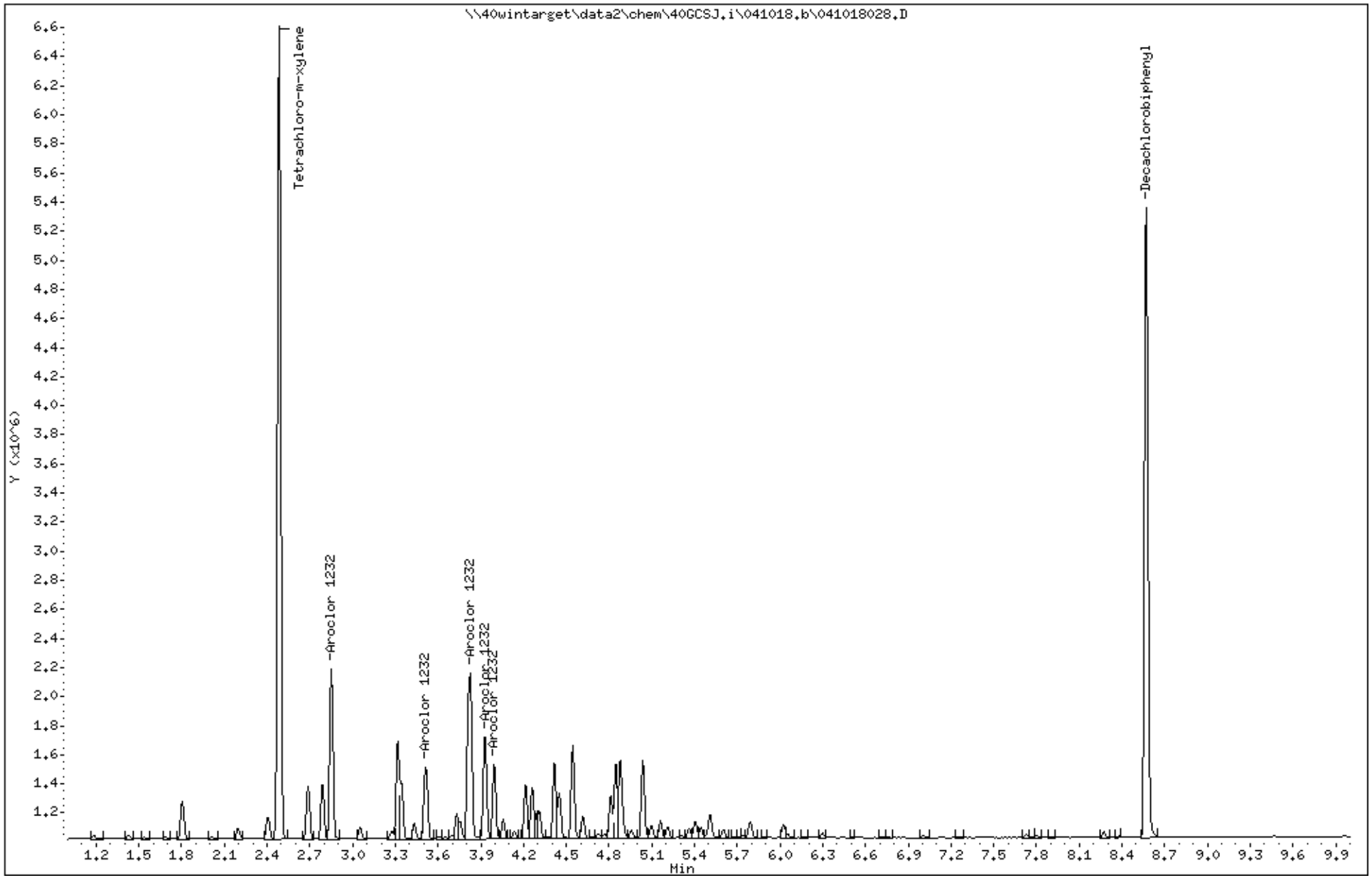
Instrument: 40GCSJ.i

Sample Info: 1232-CCV, 185539:1

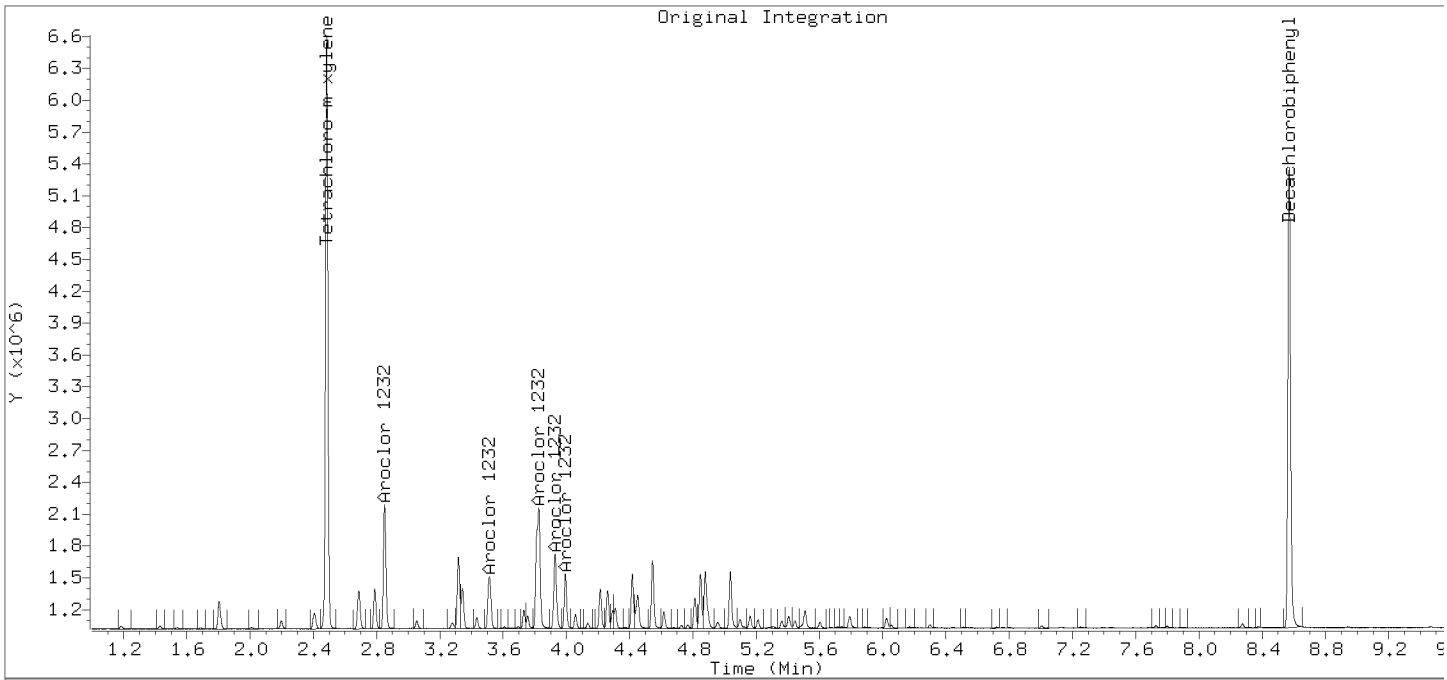
Operator: BLM

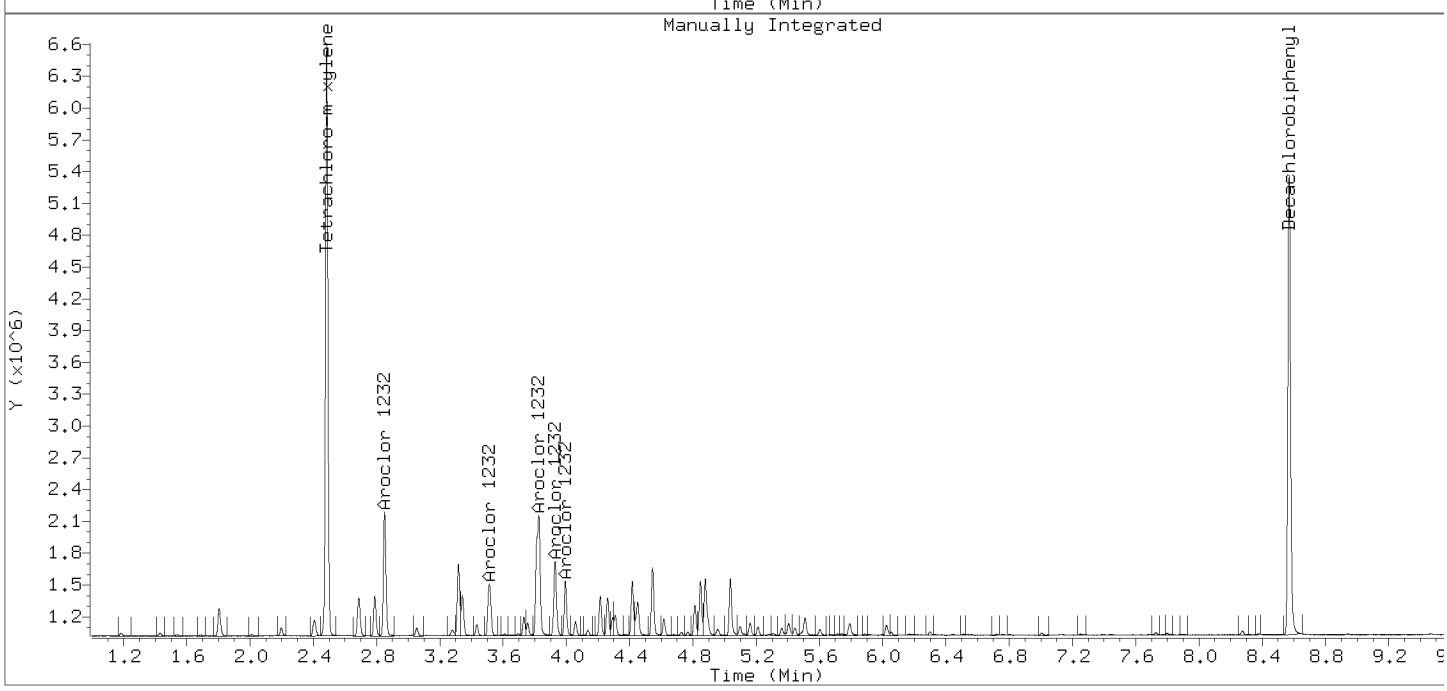
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b/041018028.D (ManInt: AR1232.sub Orig: AR1232.sub)
Injection Date: 10-APR-2018 19:39 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1232-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1232	1325427	1333721	BA
Aroclor 1232	1325427	1333721	BA
Aroclor 1232	1325427	1333721	BA
Aroclor 1232	1325427	1333721	BA
Aroclor 1232	1325427	1333721	BA
Tetrachloro-m-xylene	5940253	5940253	
Decachlorobiphenyl	5254551	5254551	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018040.D
Lab Smp Id: 1242-CCV Client Smp ID: 1242-CCV
Inj Date : 10-APR-2018 22:49
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-ccv, 185544:1
Misc Info : 17498,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 13-Apr-2018 11:26 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 40 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1242.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.185	51261	37733	0.736	0.12		
1.429	33865	30721	0.907	0.08		
1.534	20060	14201	0.708	0.04		
1.686	17924	16199	0.904	0.04		
1.805	18404	15749	0.856	0.04		
2.008	23091	17788	0.770	0.05		
2.405	127348	94496	0.742	0.31		
2.484	6221108	5872455	0.944	15.82	$ 2 Tetrachloro-m-xylene	
2.686	184630	149952	0.812	0.45		
2.788	280448	259495	0.925	0.69		
2.850	980713	901281	0.919	2.42		
3.054	154293	131491	0.852	0.38		
3.278	22434	18974	0.846	0.05		
3.317	1328878	1218671	0.917	3.28	3 Aroclor 1242	BA
3.343	762840	705721	0.925	1.88		
3.434	208844	193024	0.924	0.51		
3.513	1313172	940223	0.716	3.25	3 Aroclor 1242	BA
3.611	19756	18392	0.931	0.04		
3.645	21340	14929	0.700	0.05		
3.695	36473	35467	0.972	0.09		
3.731	332669	327171	0.983	0.82		
3.755	219390	199217	0.908	0.54		
3.826	3775082	2226689	0.590	9.34	3 Aroclor 1242	BA
3.929	1612592	1333199	0.827	3.99	3 Aroclor 1242	BA
3.994	1081179	1007723	0.932	2.67	3 Aroclor 1242	BA
4.058	318244	283881	0.892	0.78		
4.136	124255	107850	0.868	0.30		
4.214	885257	844169	0.954	2.19		
4.260	858526	808492	0.942	2.12		
4.292	342230	365676	1.069	0.84		
4.309	458921	406505	0.886	1.13		
4.368	25952	19632	0.756	0.06		
4.416	1175134	1112270	0.947	2.90		
4.451	921222	670567	0.728	2.28		
4.545	1522511	1385991	0.910	3.76		
4.617	348793	318164	0.912	0.86		
4.679	24943	20599	0.826	0.06		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.725	73608	62265	0.846	0.18	
4.767	81594	77316	0.948	0.20	
4.812	710381	665416	0.937	1.75	
4.847	1215339	1155904	0.951	3.00	
4.878	1601381	1140546	0.712	3.96	
4.957	175608	137696	0.784	0.43	
5.037	1295359	1154461	0.891	3.20	
5.099	286013	217951	0.762	0.70	
5.161	324785	294143	0.906	0.80	
5.211	246332	215355	0.874	0.60	
5.286	20967	18593	0.887	0.05	
5.309	54810	45682	0.833	0.13	
5.362	209107	177511	0.849	0.51	
5.406	350674	289517	0.826	0.86	
5.446	227608	192669	0.846	0.56	
5.510	568043	437721	0.771	1.40	
5.604	168563	146777	0.871	0.41	
5.673	13868	11820	0.852	0.03	
5.715	38522	27447	0.713	0.09	
5.741	45186	39555	0.875	0.11	
5.792	409894	316635	0.772	1.01	
5.889	62303	36660	0.588	0.15	
6.023	374890	267139	0.713	0.92	
6.169	15439	15847	1.026	0.03	
6.297	108333	87694	0.809	0.26	
6.335	26265	20230	0.770	0.06	
6.372	18351	13567	0.739	0.04	
6.446	10701	10579	0.989	0.02	
6.537	40781	31760	0.779	0.10	
6.799	23283	19475	0.836	0.05	
6.843	16016	10126	0.632	0.03	
7.130	19841	11751	0.592	0.04	
7.727	31593	24991	0.791	0.07	
7.778	12216	11804	0.966	0.03	
7.797	23904	17953	0.751	0.05	
8.275	54580	42152	0.772	0.13	
8.379	19062	14196	0.745	0.04	
8.570	5539564	4616000	0.833	13.71	$ 12 Decachlorobiphenyl
8.941	15579	11922	0.765	0.03	
9.962	15333	10856	0.708	0.03	
	40399459	34224439		100.000	

Total unknown % area = 48

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018040.D
Lab Smp Id: 1242-CCV Client Smp ID: 1242-CCV
Inj Date : 10-APR-2018 22:49
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-ccv, 185544:1
Misc Info : 17498,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 13-Apr-2018 11:26 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 40 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1242.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.484	2.484	0.000	6221107	0.05000	0.050			
3 Aroclor 1242						CAS #: 53469-21-9		
3.316	3.318	-0.002	1328877	0.50000	0.52	0.00- 20.00	100.00(M)	BA
3.512	3.513	-0.001	1313172	0.50000	0.52	0.00- 20.00	98.82	BA
3.825	3.827	-0.002	3775081	0.50000	0.53	0.00- 20.00	284.08	BA
3.928	3.929	-0.001	1612591	0.50000	0.53	0.00- 20.00	121.35	BA
3.993	3.995	-0.002	1081178	0.50000	0.53	0.00- 20.00	81.36	BA
Average of Peak Amounts =					0.52600			
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
8.569	8.571	-0.002	5539564	0.05000	0.050			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018040.D

Date : 10-APR-2018 22:49

Client ID: 1242-CCV

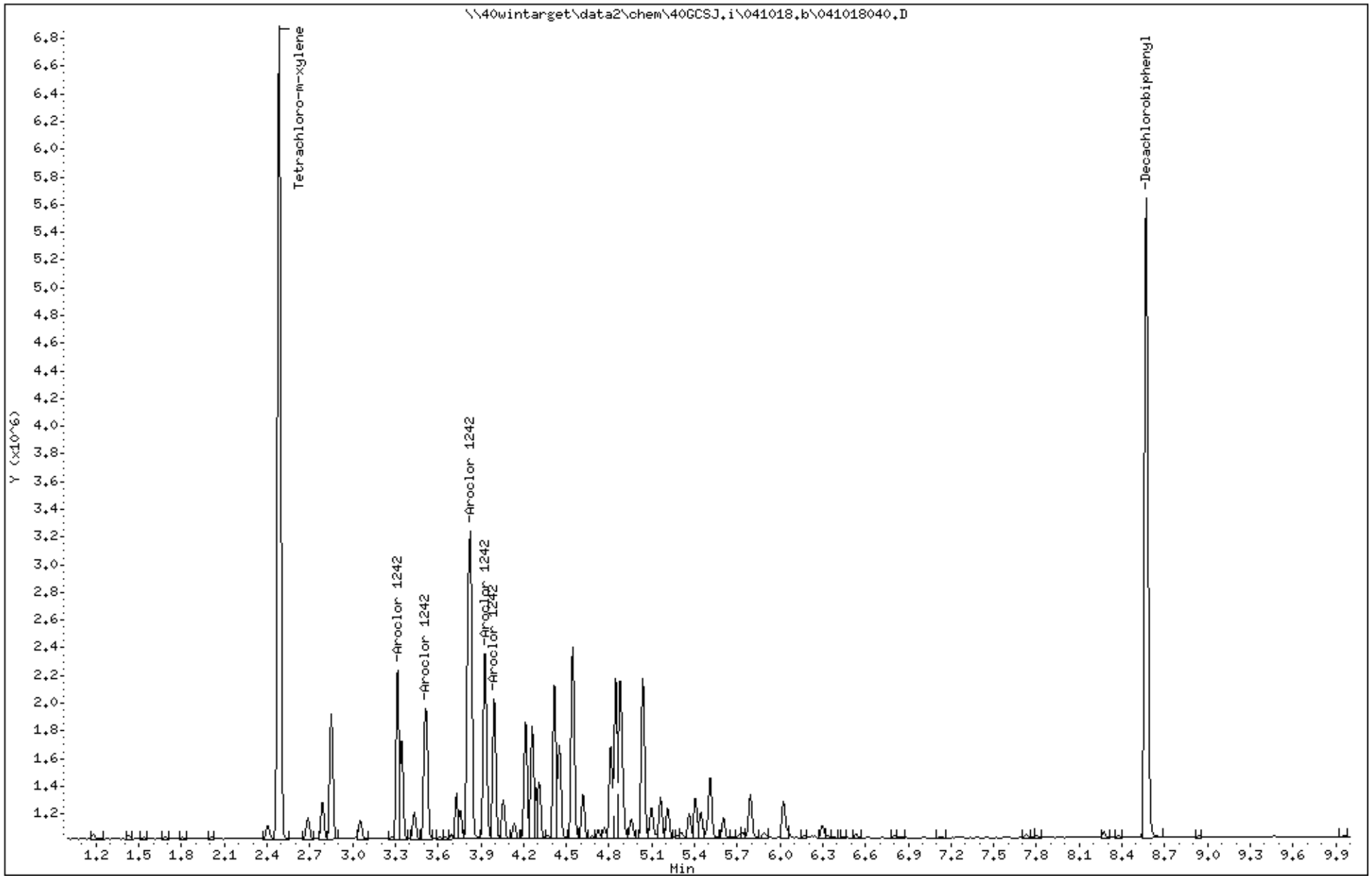
Instrument: 40GCSJ.i

Sample Info: 1242-CCV, 185544:1

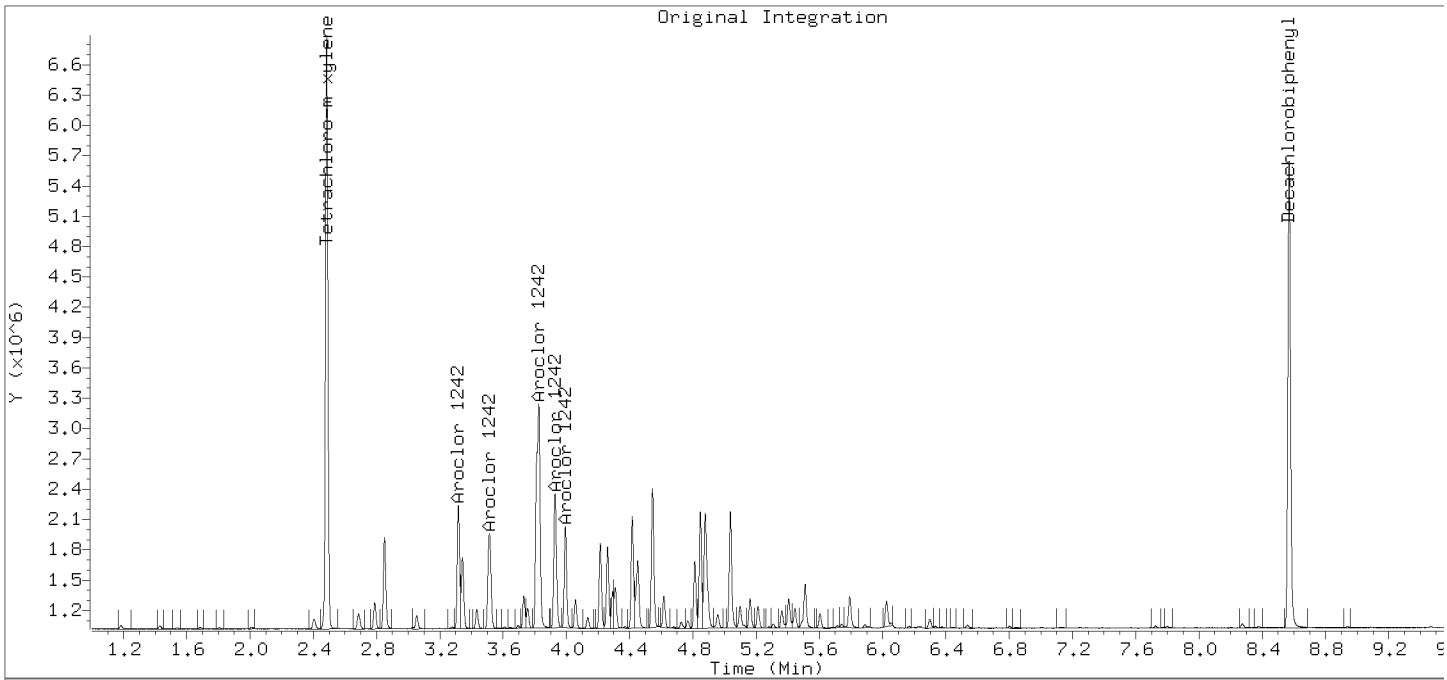
Operator: BLM

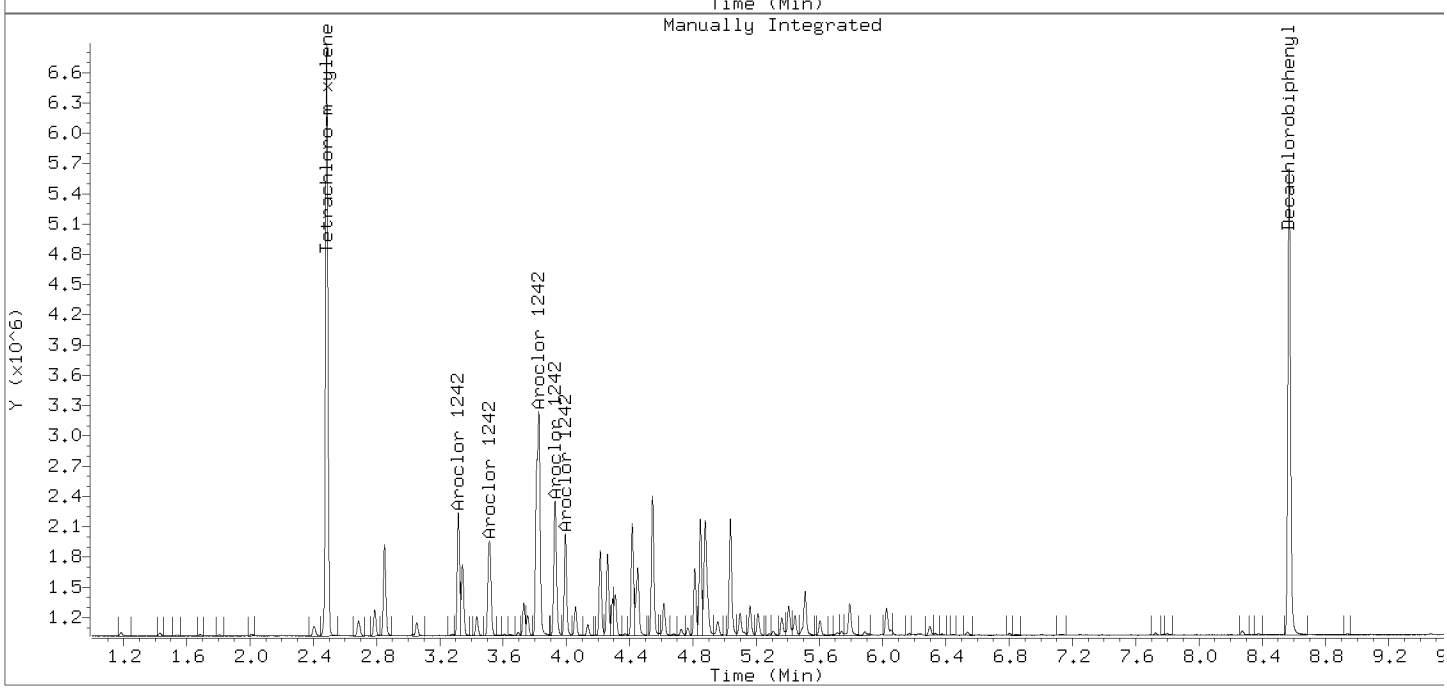
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b/041018040.D (ManInt: AR1242.sub Orig: AR1242.sub)
Injection Date: 10-APR-2018 22:49 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1242-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1242	1323262	1328877	BA
Aroclor 1242	1323262	1328877	BA
Aroclor 1242	1323262	1328877	BA
Aroclor 1242	1323262	1328877	BA
Aroclor 1242	1323262	1328877	BA
Tetrachloro-m-xylene	6221107	6221107	
Decachlorobiphenyl	5539564	5539564	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018052.D
Lab Smp Id: 1248-CCV Client Smp ID: 1248-CCV
Inj Date : 11-APR-2018 01:59
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-ccv, 185549:1
Misc Info : 17498,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 17-Apr-2018 14:35 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 52 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1248.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.188	43394	26381	0.608	0.09		
1.430	40737	29455	0.723	0.08		
1.540	20080	14232	0.709	0.04		
1.689	17555	15549	0.886	0.03		
2.012	26308	15081	0.573	0.05		
2.404	28090	18628	0.663	0.06		
2.485	6223805	5677398	0.912	13.92	$ 2 Tetrachloro-m-xylene	
2.687	31654	24773	0.783	0.06		
2.787	115505	104057	0.901	0.24		
2.851	196430	174841	0.890	0.42		
3.053	69151	54243	0.784	0.14		
3.318	736712	687272	0.933	1.59		
3.344	311445	288291	0.926	0.67		
3.433	73867	61753	0.836	0.15		
3.515	622500	443580	0.713	1.34		
3.609	20756	18873	0.909	0.04		
3.731	137696	134620	0.978	0.29		
3.756	61926	57817	0.934	0.13		
3.814	1114207	1283527	1.152	2.40		
3.825	1383341	1322360	0.956	2.99		
3.929	936574	724421	0.773	2.02		
3.994	622056	588458	0.946	1.34		
4.059	357325	326191	0.913	0.77		
4.135	144706	135555	0.937	0.31		
4.215	1549067	1443378	0.932	3.35		
4.261	1235700	1179538	0.955	2.67	6 Aroclor 1248	BA
4.292	504038	516005	1.024	1.09		
4.309	554807	517325	0.932	1.19		
4.416	1893266	1713718	0.905	4.09		
4.452	933109	809187	0.867	2.01		
4.545	2165202	1961697	0.906	4.68	6 Aroclor 1248	BA
4.590	30976	32390	1.046	0.06		
4.617	495270	465915	0.941	1.07		
4.679	27808	20707	0.745	0.06		
4.726	60809	52674	0.866	0.13		
4.767	115348	107049	0.928	0.24		
4.813	1084950	1027655	0.947	2.34	6 Aroclor 1248	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.847	2082047	1918327	0.921	4.50	
4.878	2679850	1738570	0.649	5.79	6 Aroclor 1248
4.957	316991	255356	0.806	0.68	
5.037	1923037	1741899	0.906	4.15	6 Aroclor 1248
5.099	670154	529395	0.790	1.44	
5.162	806034	728090	0.903	1.74	
5.211	585915	520949	0.889	1.26	
5.282	39361	37009	0.940	0.08	
5.309	125510	105675	0.842	0.27	
5.363	506921	434975	0.858	1.09	
5.406	863388	760642	0.881	1.86	
5.444	526585	467436	0.888	1.13	
5.509	1423875	1186897	0.834	3.07	
5.604	402149	354700	0.882	0.86	
5.676	50204	39238	0.782	0.10	
5.716	90746	66381	0.732	0.19	
5.740	97243	90540	0.931	0.21	
5.761	35177	40461	1.150	0.07	
5.791	969860	809411	0.835	2.09	
5.887	129333	80187	0.620	0.27	
5.994	28619	28038	0.980	0.06	
6.024	819955	714171	0.871	1.77	
6.053	169692	138194	0.814	0.36	
6.167	90586	58065	0.641	0.19	
6.228	55723	30427	0.546	0.12	
6.298	249689	205304	0.822	0.54	
6.333	49919	41254	0.826	0.10	
6.373	38119	30575	0.802	0.08	
6.433	27594	13755	0.498	0.05	
6.511	44032	40684	0.924	0.09	
6.536	97197	72009	0.741	0.21	
6.660	10614	10362	0.976	0.02	
6.717	40325	35817	0.888	0.08	
6.760	21141	18763	0.888	0.04	
6.802	43742	38072	0.870	0.09	
6.840	14171	12883	0.909	0.03	
7.003	81034	67462	0.833	0.17	
7.121	25902	15847	0.612	0.05	
7.249	31669	26343	0.832	0.06	
7.280	11251	10520	0.935	0.02	
7.389	35495	29953	0.844	0.07	
7.445	34372	31280	0.910	0.07	
7.692	16387	14371	0.877	0.03	
7.728	31121	24885	0.800	0.06	
7.800	34022	19228	0.565	0.07	
7.899	26867	24257	0.903	0.05	
8.276	65775	52934	0.805	0.14	
8.379	20468	13943	0.681	0.04	
8.570	5664657	4700058	0.830	12.25	$ 12 Decachlorobiphenyl
8.941	10242	9567	0.934	0.02	
9.464	19040	12222	0.642	0.04	
9.962	15944	10904	0.684	0.03	
	46235913	40532879		100.000	

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018052.D
Lab Smp Id: 1248-CCV Client Smp ID: 1248-CCV
Inj Date : 11-APR-2018 01:59
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-ccv, 185549:1
Misc Info : 17498,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 17-Apr-2018 14:35 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 52 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1248.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	6223804	0.05000	0.050			
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	1235700	0.50000	0.53	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	2165201	0.50000	0.52	0.00- 20.00	175.22	BA
4.812	4.812	0.000	1084950	0.50000	0.53	0.00- 20.00	87.80	BA
4.878	4.879	-0.001	2679849	0.50000	0.53	0.00- 20.00	216.87	BA
5.036	5.038	-0.002	1923036	0.50000	0.54	0.00- 20.00	155.62	BA
Average of Peak Amounts =					0.53000			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	5664656	0.05000	0.052			

QC Flag Legend

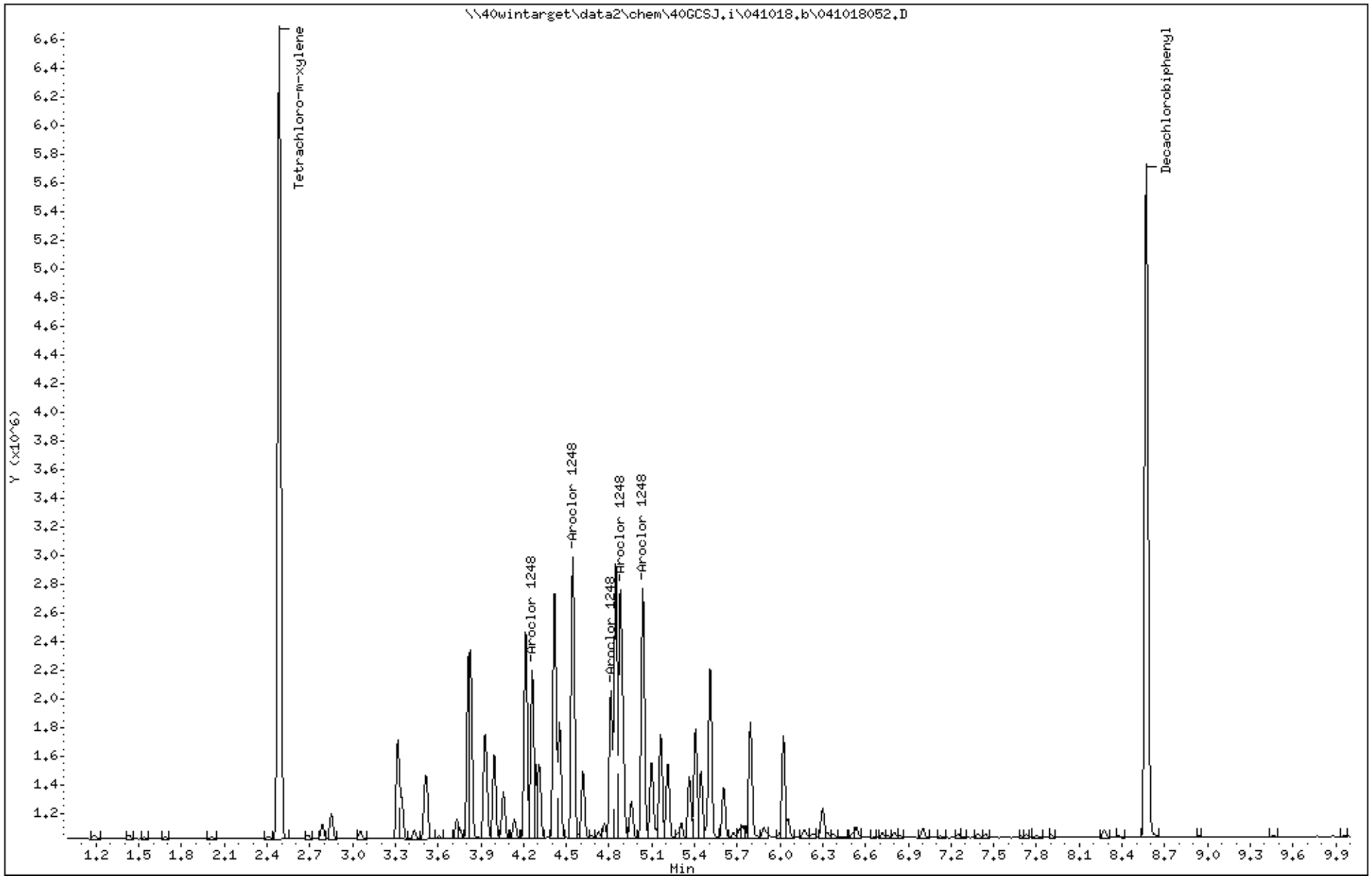
M - Compound response manually integrated.

Review Codes Legend

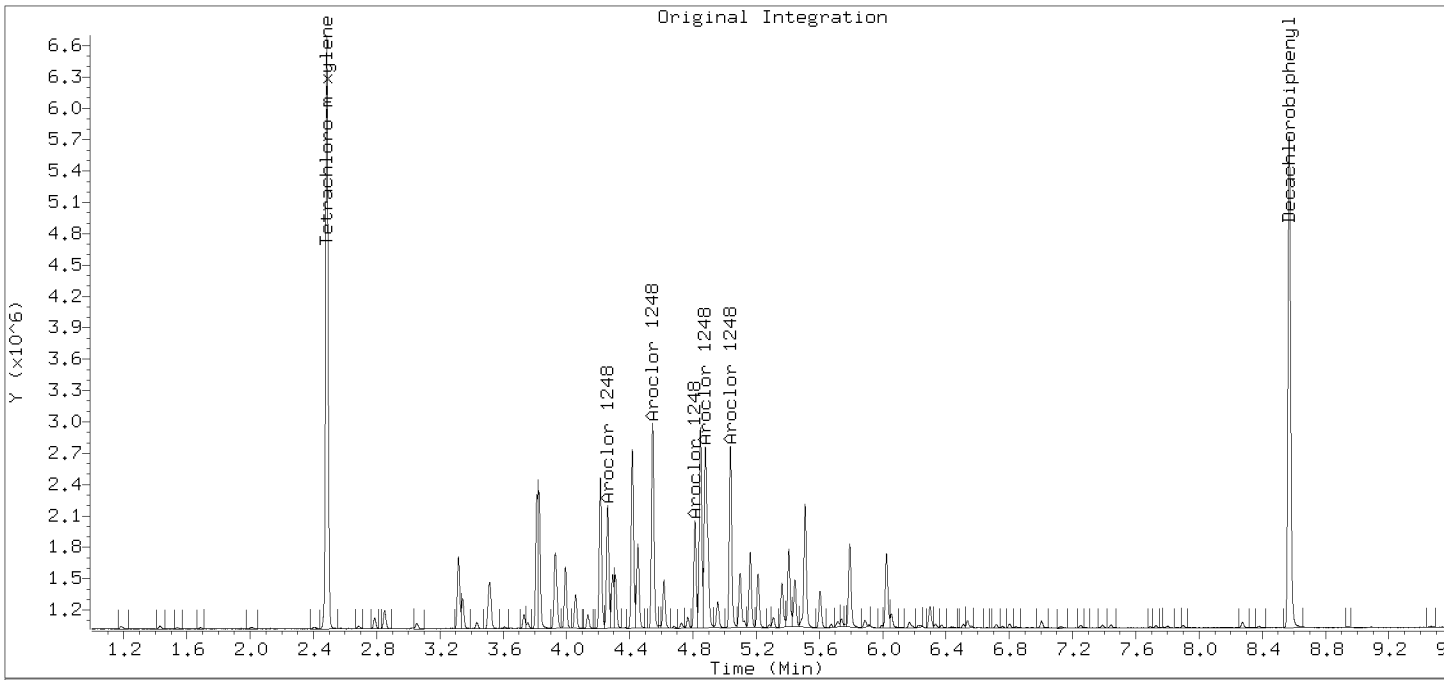
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

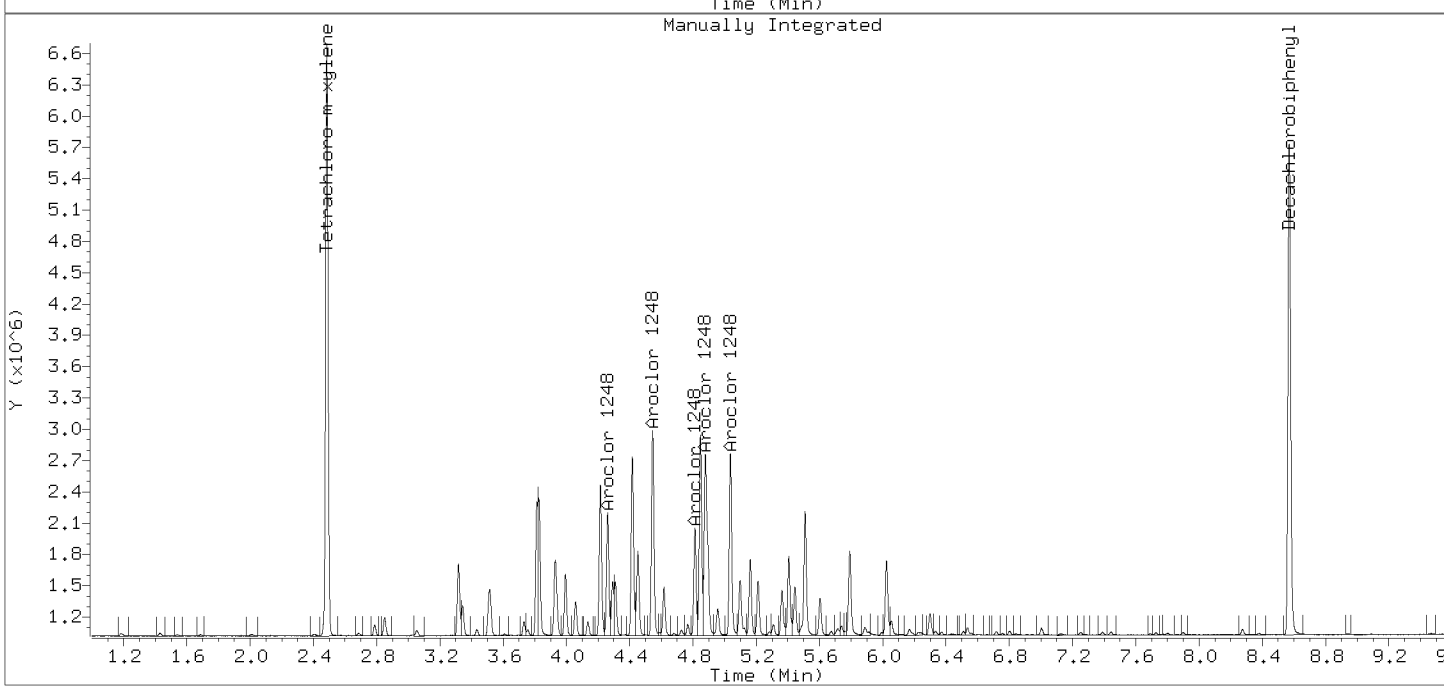
Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018052.D
Date : 11-APR-2018 01:59
Client ID: 1248-CCV
Sample Info: 1248-CCV, 185549:1

Instrument: 40GCSJ.i
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b/041018052.D (ManInt: AR1248.sub Orig: AR1248.sub)
Injection Date: 11-APR-2018 01:59 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1248-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1248	1227629	1235700	BA
Aroclor 1248	1227629	1235700	BA
Aroclor 1248	1227629	1235700	BA
Aroclor 1248	1227629	1235700	BA
Aroclor 1248	1227629	1235700	BA
Tetrachloro-m-xylene	6223804	6223804	
Decachlorobiphenyl	5664656	5664656	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018064.D
Lab Smp Id: 1254-CCV Client Smp ID: 1254-CCV
Inj Date : 11-APR-2018 05:10
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-ccv, 185554:1
Misc Info : 17498,AR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 17-Apr-2018 14:35 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 64 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1254.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.431	37757	26025	0.689	0.06		
1.686	15757	13441	0.853	0.02		
2.486	6047917	5435148	0.899	11.52	$ 2 Tetrachloro-m-xylene	
2.788	85466	81836	0.958	0.15		
2.852	22233	19173	0.862	0.04		
3.054	23885	16973	0.711	0.04		
3.316	32516	29096	0.895	0.05		
3.342	13361	14530	1.087	0.02		
3.514	34738	22783	0.656	0.06		
3.611	18645	18148	0.973	0.03		
3.728	9222	11828	1.283	0.01		
3.780	16327	11695	0.716	0.02		
3.814	106408	60347	0.567	0.19		
3.933	66437	42788	0.644	0.12		
3.994	30195	24924	0.825	0.05		
4.057	35330	22688	0.642	0.06		
4.135	10129	8822	0.871	0.01		
4.214	1247626	1172087	0.939	2.28		
4.261	331311	324481	0.979	0.60		
4.292	65516	48350	0.738	0.12		
4.417	767225	720713	0.939	1.40		
4.452	76078	68798	0.904	0.13		
4.545	346322	325501	0.940	0.63		
4.590	13911	16091	1.157	0.02		
4.618	61852	57137	0.924	0.11		
4.681	23432	18264	0.779	0.04		
4.766	21381	18872	0.883	0.03		
4.813	293470	283446	0.966	0.53		
4.847	1148860	1095438	0.954	2.10		
4.894	2437382	1897822	0.779	4.46		
4.957	389647	354015	0.909	0.71		
5.036	245994	227597	0.925	0.45		
5.099	1437479	1226700	0.853	2.63		
5.162	2646444	2493839	0.942	4.84	7 Aroclor 1254	BA
5.212	1210381	1133943	0.937	2.21		
5.284	60047	59227	0.986	0.11		
5.308	219695	203248	0.925	0.40		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.362	1064756	976619	0.917	1.95	
5.407	2206537	1977829	0.896	4.04	7 Aroclor 1254
5.446	752241	679118	0.903	1.37	
5.476	272154	253617	0.932	0.49	
5.509	3940955	3596557	0.913	7.22	7 Aroclor 1254
5.577	39341	35582	0.904	0.07	
5.603	551394	502543	0.911	1.01	
5.674	354299	326038	0.920	0.64	
5.712	535240	359587	0.672	0.98	
5.740	351033	282669	0.805	0.64	
5.790	4063691	3147540	0.775	7.44	
5.885	344032	273941	0.796	0.63	
5.928	183656	114898	0.626	0.33	
5.993	339030	311466	0.919	0.62	
6.025	2568870	2133386	0.830	4.70	7 Aroclor 1254
6.055	1803783	1520365	0.843	3.30	
6.168	739313	632277	0.855	1.35	
6.226	291765	304261	1.043	0.53	
6.240	336608	293147	0.871	0.61	
6.298	3389574	2827531	0.834	6.21	7 Aroclor 1254
6.333	597412	544577	0.912	1.09	
6.372	346383	290537	0.839	0.63	
6.440	79758	50555	0.634	0.14	
6.481	21979	18204	0.828	0.04	
6.508	118885	130027	1.094	0.21	
6.535	1169286	922362	0.789	2.14	
6.604	169644	141062	0.832	0.31	
6.662	25921	22902	0.884	0.04	
6.718	232906	192298	0.826	0.42	
6.758	133434	118642	0.889	0.24	
6.801	653301	595247	0.911	1.19	
6.843	172398	118287	0.686	0.31	
6.908	20858	16839	0.807	0.03	
6.942	61314	53729	0.876	0.11	
7.003	460223	385575	0.838	0.84	
7.076	31979	26122	0.817	0.05	
7.250	384457	341975	0.890	0.70	
7.281	83990	70618	0.841	0.15	
7.391	28570	16864	0.590	0.05	
7.442	33951	24964	0.735	0.06	
7.555	32009	19530	0.610	0.05	
7.691	16989	14738	0.868	0.03	
7.729	44787	33561	0.749	0.08	
7.786	11157	10967	0.983	0.02	
7.800	25061	21381	0.853	0.04	
7.897	29499	21973	0.745	0.05	
8.027	10667	8443	0.792	0.01	
8.177	28333	13243	0.467	0.05	
8.275	51296	45872	0.894	0.09	
8.318	21059	14234	0.676	0.03	
8.377	13671	10157	0.743	0.02	
8.462	17362	12541	0.722	0.03	
8.570	5614561	4614505	0.822	10.28	$ 12 Decachlorobiphenyl
8.738	11678	9488	0.812	0.02	
8.866	14237	10607	0.745	0.02	
8.999	11721	8607	0.734	0.02	
9.959	20029	13218	0.660	0.03	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
	54579410	47119236		100.000	

Total unknown % area = 51

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018064.D
Lab Smp Id: 1254-CCV Client Smp ID: 1254-CCV
Inj Date : 11-APR-2018 05:10
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-ccv, 185554:1
Misc Info : 17498,AR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 17-Apr-2018 14:35 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 64 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1254.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	6047916	0.05000	0.049			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	2646444	0.50000	0.50	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	2206536	0.50000	0.51	0.00- 20.00	83.38	BA
5.509	5.510	-0.001	3940954	0.50000	0.51	0.00- 20.00	148.92	BA
6.024	6.027	-0.003	2568869	0.50000	0.53	0.00- 20.00	97.07	BA
6.297	6.299	-0.002	3389573	0.50000	0.52	0.00- 20.00	128.08	BA
Average of Peak Amounts =					0.51400			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	5614560	0.05000	0.051			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

BA: Indicates that the baseline had to be adjusted correctly by the analyst.

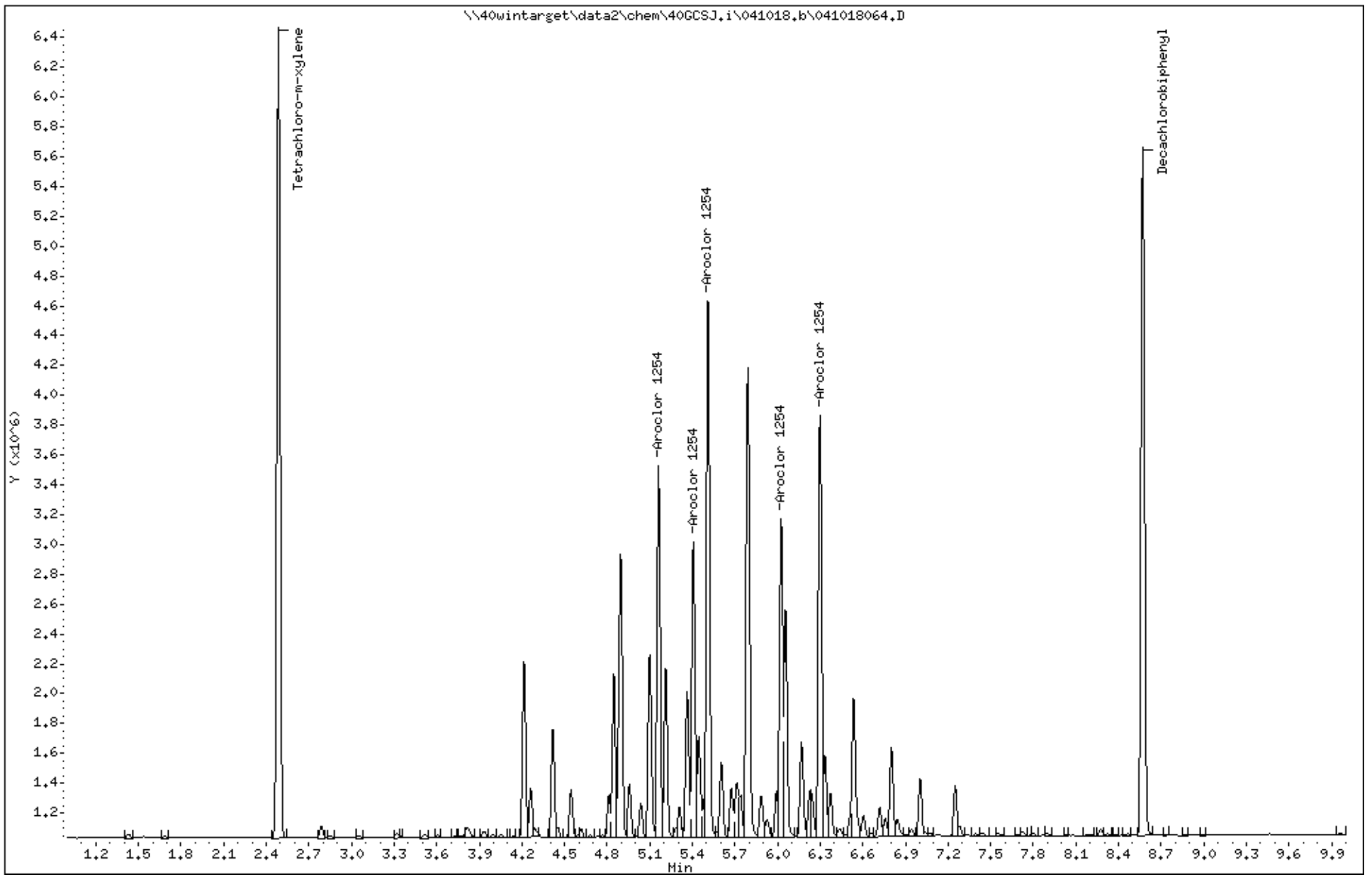
Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018064.D
Date : 11-APR-2018 05:10
Client ID: 1254-CCV
Sample Info: 1254-CCV, 185554:1

Instrument: 40GCSJ.i

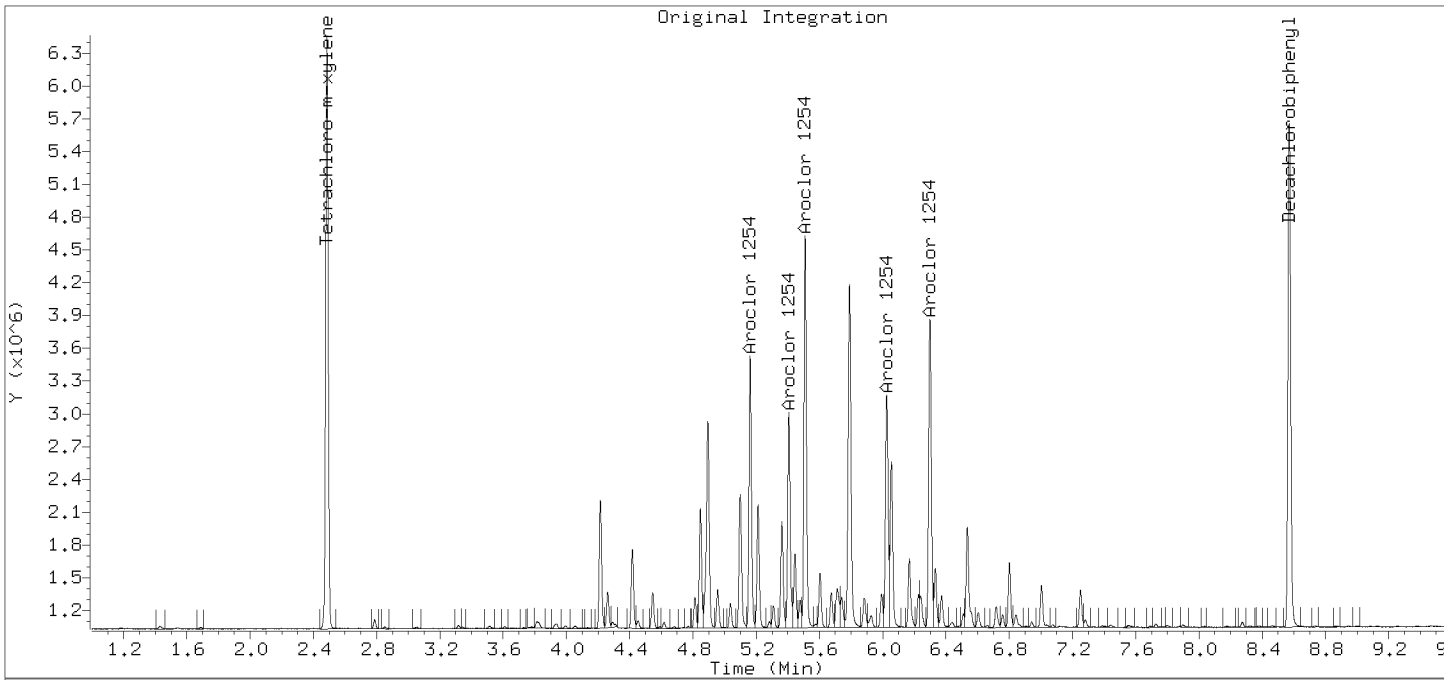
Operator: BLM

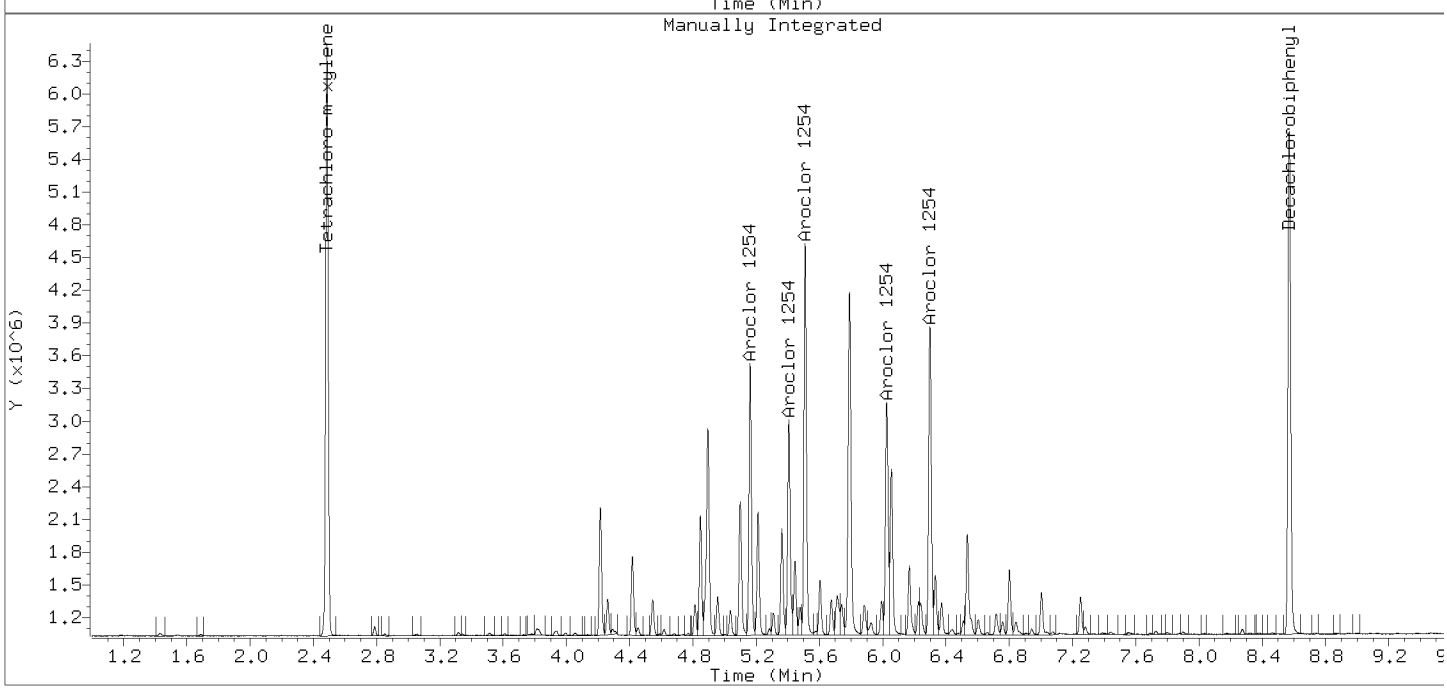
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b/041018064.D (ManInt: AR1254.sub Orig: AR1254.sub)
Injection Date: 11-APR-2018 05:10 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1254-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1254	2637546	2646444	BA
Aroclor 1254	2637546	2646444	BA
Aroclor 1254	2637546	2646444	BA
Aroclor 1254	2637546	2646444	BA
Aroclor 1254	2637546	2646444	BA
Tetrachloro-m-xylene	6047916	6047916	
Decachlorobiphenyl	5614560	5614560	

SAMPLE NO.

BLANK

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTION M

Date Received:

Matrix: Tissue SDG No.: 40157825

Date Extracted: 03/28/2018 08:09

Lab Sample ID: 1664793

Date Analyzed: 03/30/2018 17:22

Lab File ID: 033018.B\033018010.D

Initial wt/vol: 10 g Final wt/vol: 5 mL Dilution: 1

Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<11.4	U
11104-28-2	PCB-1221 (Aroclor 1221)	<11.4	U
11141-16-5	PCB-1232 (Aroclor 1232)	<11.4	U
53469-21-9	PCB-1242 (Aroclor 1242)	<11.4	U
12672-29-6	PCB-1248 (Aroclor 1248)	<11.4	U
11097-69-1	PCB-1254 (Aroclor 1254)	<11.4	U
11096-82-5	PCB-1260 (Aroclor 1260)	<11.4	U

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018010.D
Lab Smp Id: 1664793 Client Smp ID: MB
Inj Date : 30-MAR-2018 17:22
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1664793,
Misc Info : 17591,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 05-Apr-2018 14:48 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 10 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndV

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.000	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.184	14570	13384	0.919	0.07		
1.539	10323	9103	0.882	0.05		
1.688	11405	8619	0.756	0.05		
2.199	61443	30725	0.500	0.31		
2.485	9345991	8986785	0.962	48.06	$ 2 Tetrachloro-m-xylene	
2.788	19349	15309	0.791	0.09		
7.125	21633	13203	0.610	0.11		
7.725	44824	39078	0.872	0.23		
7.800	29631	28981	0.978	0.15		
8.274	87961	73547	0.836	0.45		
8.378	20602	13224	0.642	0.10		
8.570	9756823	8203778	0.841	50.24	$ 12 Decachlorobiphenyl	
8.938	10515	8884	0.845	0.05		
9.958	9403	7914	0.842	0.04		
	19444473	17452534		100.000		

Total unknown % area = 1.7

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018010.D
Lab Smp Id: 1664793 Client Smp ID: MB
Inj Date : 30-MAR-2018 17:22
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1664793,
Misc Info : 17591,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 05-Apr-2018 14:48 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 10 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndV

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.000	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221						CAS #: 11104-28-2		
Peaks not detected for Quant. or Qual. signal(s).								
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.485	2.484	0.001	9345991	0.07580	38			
3 Aroclor 1242						CAS #: 53469-21-9		
Peaks not detected for Quant. or Qual. signal(s).								
4 Aroclor 1232						CAS #: 1114-16-5		
Peaks not detected for Quant. or Qual. signal(s).								

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE

5 Aroclor 1016 CAS #: 12674-11-2

Peaks not detected for Quant. or Qual. signal(s).

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6 Aroclor 1248 CAS #: 12672-29-6

Peaks not detected for Quant. or Qual. signal(s).

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7 Aroclor 1254 CAS #: 11097-69-1

Peaks not detected for Quant. or Qual. signal(s).

---

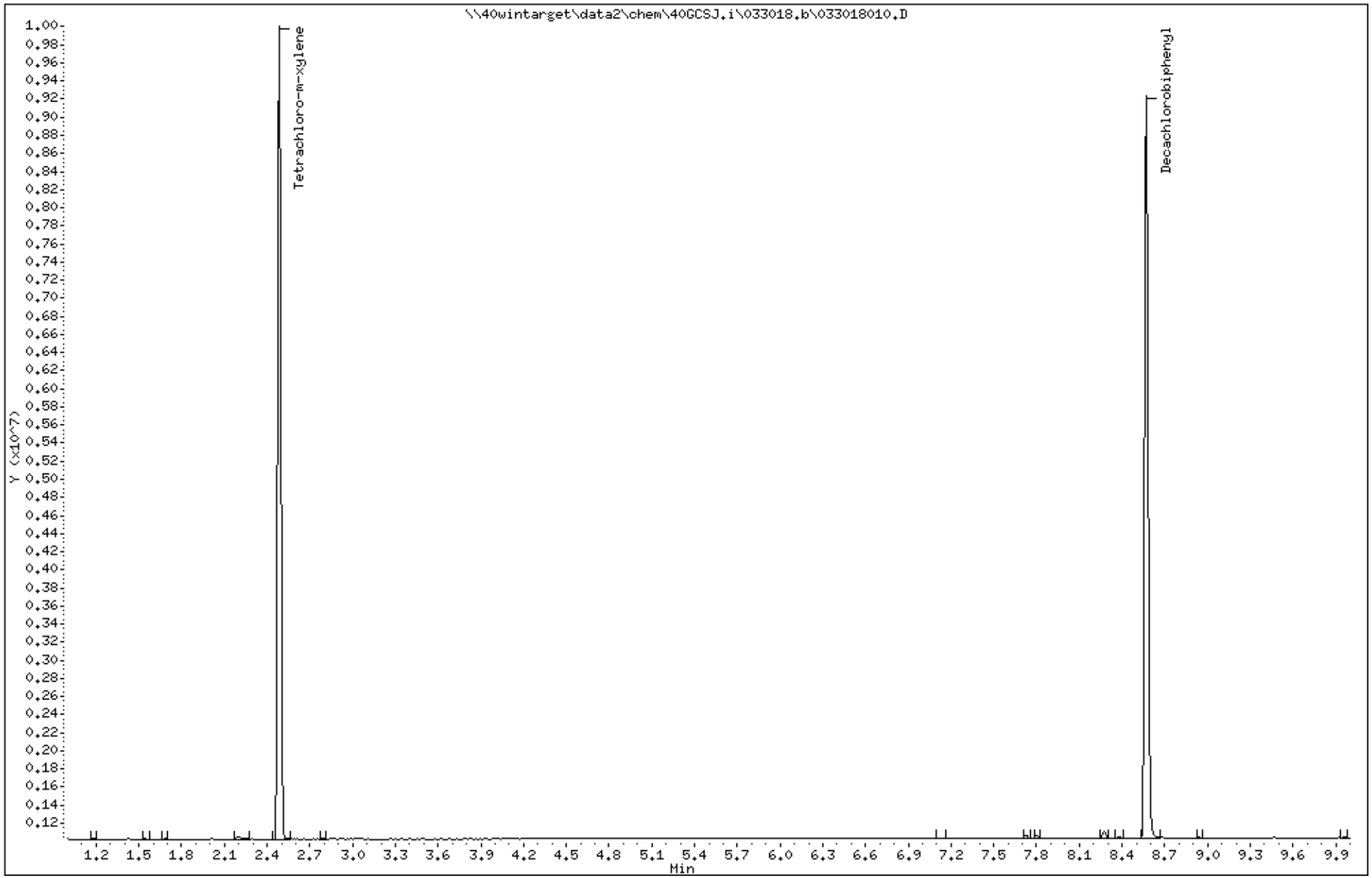
8 Aroclor 1260 CAS #: 11096-82-5

Peaks not detected for Quant. or Qual. signal(s).

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

8.569	8.571	-0.002	9756823	0.08905		44		

Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018010.D
Date : 30-MAR-2018 17:22
Client ID: MB
Instrument: 40GCSJ.i
Sample Info: 1664793,
Volume Injected (uL): 1.0
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b/033018010.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 30-MAR-2018 17:22 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1664793

NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	0	0	
Aroclor 1016	0	0	
Aroclor 1016	0	0	
Aroclor 1016	0	0	
Aroclor 1016	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	0	0	
Aroclor 1232	0	0	
Aroclor 1232	0	0	
Aroclor 1232	0	0	
Aroclor 1232	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1248	0	0	
Aroclor 1248	0	0	
Aroclor 1248	0	0	
Aroclor 1248	0	0	
Aroclor 1248	0	0	
Aroclor 1254	0	0	
Aroclor 1254	0	0	
Aroclor 1254	0	0	
Aroclor 1254	0	0	
Aroclor 1254	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Tetrachloro-m-xylene	9345991	9345991	
Decachlorobiphenyl	9756823	9756823	

SAMPLE NO.

LCS

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTION M

Date Received:

Matrix: Tissue SDG No.: 40157825

Date Extracted: 03/28/2018 08:09

Lab Sample ID: 1664794

Date Analyzed: 03/30/2018 17:38

Lab File ID: 033018.B\033018011.D

Initial wt/vol: 10 g Final wt/vol: 5 mL Dilution: 1

Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<11.4	U
11104-28-2	PCB-1221 (Aroclor 1221)	<11.4	U
11141-16-5	PCB-1232 (Aroclor 1232)	<11.4	U
53469-21-9	PCB-1242 (Aroclor 1242)	236	
12672-29-6	PCB-1248 (Aroclor 1248)	<11.4	U
11097-69-1	PCB-1254 (Aroclor 1254)	<11.4	U
11096-82-5	PCB-1260 (Aroclor 1260)	<11.4	U

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018011.D
Lab Smp Id: 1664794 Client Smp ID: MBLCS
Inj Date : 30-MAR-2018 17:38
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1664794,
Misc Info : 17591,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 05-Apr-2018 14:48 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 11 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndV

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.000	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.185	14371	12627	0.879	0.03		
1.423	10530	7685	0.730	0.02		
1.536	13414	7924	0.591	0.02		
1.686	11381	10053	0.883	0.02		
2.198	54145	32734	0.605	0.11		
2.405	112460	86945	0.773	0.24		
2.484	10031155	9542303	0.951	22.16	$ 2 Tetrachloro-m-xylene	
2.687	169882	137424	0.809	0.37		
2.789	206912	194056	0.938	0.45		
2.850	916005	843455	0.921	2.02		
3.054	109450	106780	0.976	0.24		
3.276	24277	17988	0.741	0.05		
3.318	1194942	1102529	0.923	2.63	3 Aroclor 1242	BA
3.344	673074	628279	0.933	1.48		
3.433	189004	166505	0.881	0.41		
3.513	1179824	838056	0.710	2.60	3 Aroclor 1242	BA
3.647	20606	14963	0.726	0.04		
3.696	33251	32704	0.984	0.07		
3.731	305888	299746	0.980	0.67		
3.756	201569	189205	0.939	0.44		
3.827	3390735	1931255	0.570	7.49	3 Aroclor 1242	BA
3.928	1455755	1202014	0.826	3.21	3 Aroclor 1242	BA
3.993	960656	896360	0.933	2.12	3 Aroclor 1242	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.057	264291	236277	0.894	0.58	
4.136	107261	95815	0.893	0.23	
4.214	794554	739961	0.931	1.75	
4.260	755016	715461	0.948	1.66	
4.292	310234	311821	1.005	0.68	
4.309	379143	345005	0.910	0.83	
4.370	23790	19392	0.815	0.05	
4.417	1056407	979658	0.927	2.33	
4.451	808986	599820	0.741	1.78	
4.545	1342685	1194659	0.890	2.96	
4.617	306653	277666	0.905	0.67	
4.681	21743	18158	0.835	0.04	
4.727	68527	54682	0.798	0.15	
4.767	71956	65521	0.911	0.15	
4.812	606613	573568	0.946	1.34	
4.847	1080460	1003008	0.928	2.38	
4.878	1382549	1012969	0.733	3.05	
4.957	157241	119163	0.758	0.34	
5.037	1141778	1008137	0.883	2.52	
5.099	236608	175642	0.742	0.52	
5.162	271430	237736	0.876	0.59	
5.212	196259	173485	0.884	0.43	
5.284	17550	15371	0.876	0.03	
5.308	48879	38335	0.784	0.10	
5.362	170525	144062	0.845	0.37	
5.406	294036	234927	0.799	0.64	
5.446	178715	155302	0.869	0.39	
5.509	476178	345620	0.726	1.05	
5.605	140916	119367	0.847	0.31	
5.674	15337	14250	0.929	0.03	
5.716	27794	21374	0.769	0.06	
5.741	51456	31217	0.607	0.11	
5.792	299958	231188	0.771	0.66	
5.888	48680	27142	0.558	0.10	
6.023	280916	206418	0.735	0.62	
6.167	30563	17934	0.587	0.06	
6.299	63446	50975	0.803	0.14	8 Aroclor 1260
6.334	16217	13312	0.821	0.03	
6.511	9835	10746	1.093	0.02	
6.535	25592	16656	0.651	0.05	
6.805	14085	11480	0.815	0.03	
7.005	20456	15271	0.747	0.04	8 Aroclor 1260
7.124	18063	14848	0.822	0.03	
7.245	11908	10334	0.868	0.02	8 Aroclor 1260
7.444	13524	9088	0.672	0.02	8 Aroclor 1260
7.727	48321	42048	0.870	0.10	
7.801	31610	31396	0.993	0.06	
7.899	9566	7815	0.817	0.02	8 Aroclor 1260
8.275	89863	76286	0.849	0.19	
8.378	17149	13847	0.807	0.03	
8.570	10109187	8088140	0.800	22.73	$ 12 Decachlorobiphenyl
9.462	11459	9498	0.829	0.02	
9.956	11260	11145	0.990	0.02	
	45266512	38294586		100.000	

Total unknown % area = 37

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018011.D
Lab Smp Id: 1664794 Client Smp ID: MBLCS
Inj Date : 30-MAR-2018 17:38
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1664794,
Misc Info : 17591,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 05-Apr-2018 14:48 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 11 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndV

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.000	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	10031154	0.08136	41			
3 Aroclor 1242					CAS #: 53469-21-9			
3.317	3.318	-0.001	1194941	0.47171	240	0.00- 20.00	100.00(M)	BA
3.513	3.513	0.000	1179824	0.46818	230	0.00- 20.00	98.73	BA
3.826	3.827	-0.001	3390734	0.47646	240	0.00- 20.00	283.76	BA
3.928	3.929	-0.001	1455755	0.47863	240	0.00- 20.00	121.83	BA
3.993	3.995	-0.002	960656	0.46913	230	0.00- 20.00	80.39	BA
Average of Peak Concentrations =					240			

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE

4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

---

5 Aroclor 1016 CAS #: 12674-11-2

Operator disabled compound identification.

---

6 Aroclor 1248 CAS #: 12672-29-6

Operator disabled compound identification.

---

7 Aroclor 1254 CAS #: 11097-69-1

Operator disabled compound identification.

---

8 Aroclor 1260 CAS #: 11096-82-5

Qualifier signal(s) failed ratio test. BA

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

8.570	8.571	-0.001	10109187	0.09227		46		

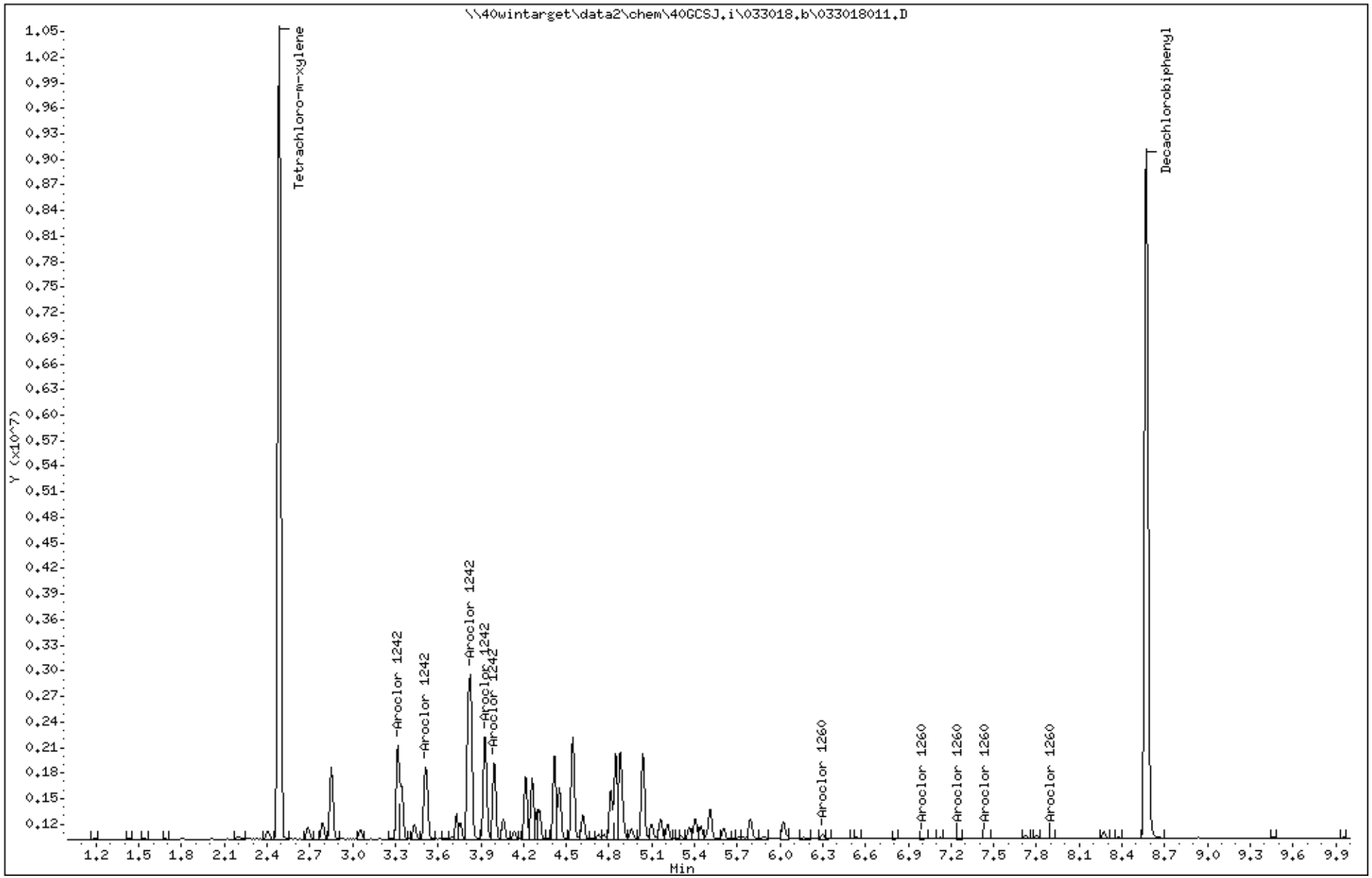
QC Flag Legend

M - Compound response manually integrated.

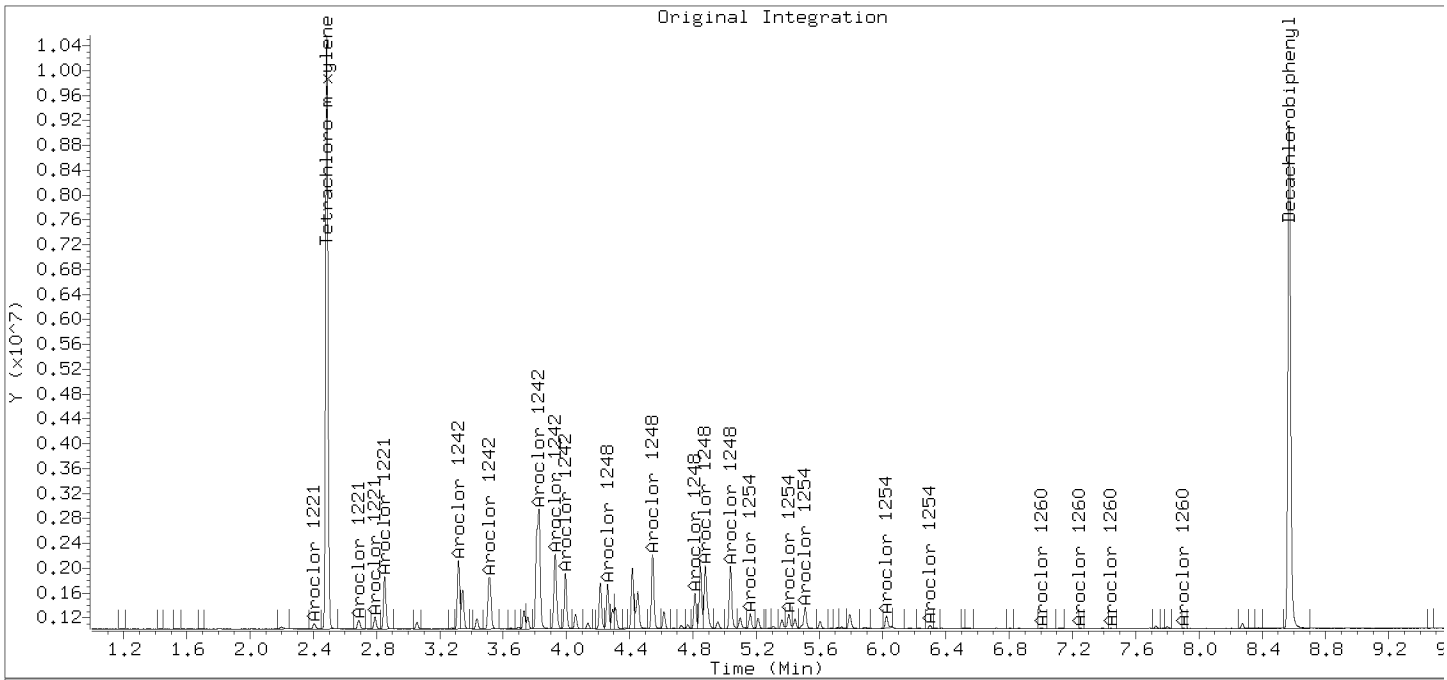
Review Codes Legend

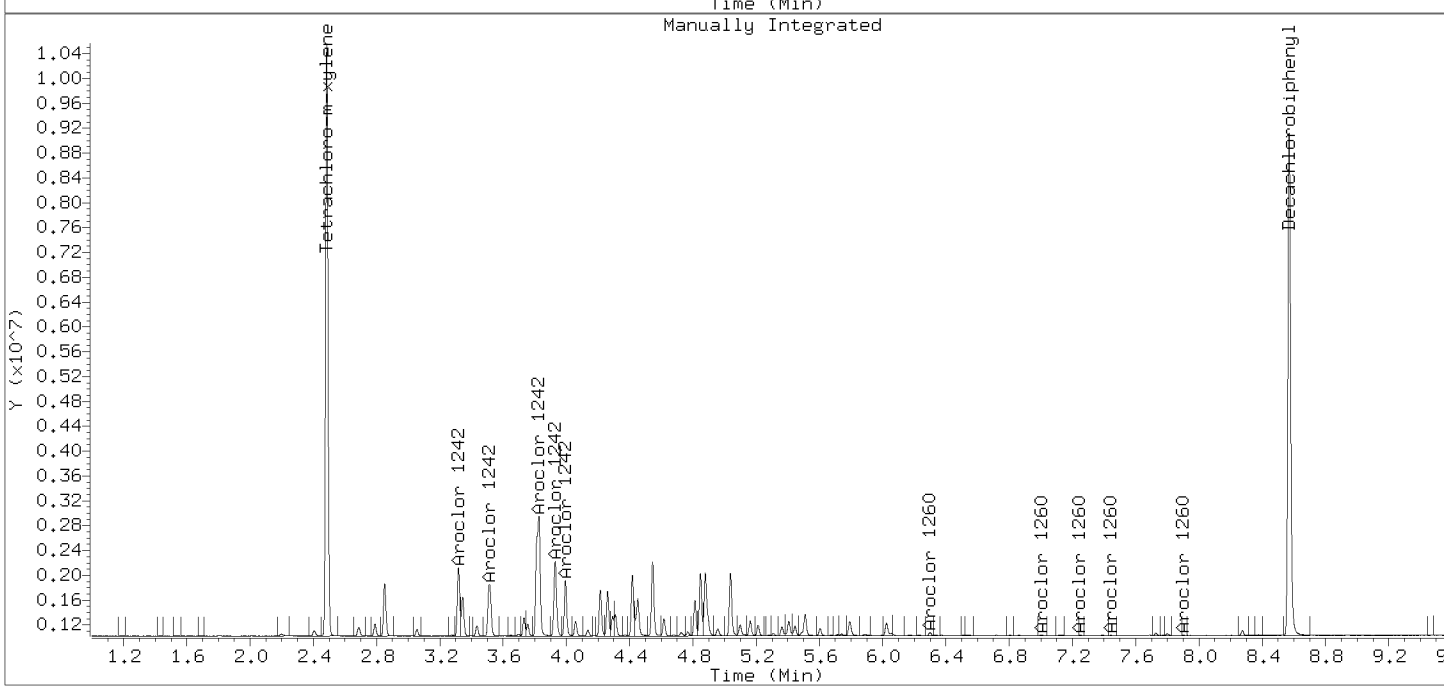
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018011.D
Date : 30-MAR-2018 17:38
Client ID: MBLCS
Instrument: 40GCSJ.i
Sample Info: 1664794,
Volume Injected (uL): 1.0
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b/033018011.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 30-MAR-2018 17:38 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1664794





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1186083	0	
Aroclor 1016	1186083	0	
Aroclor 1016	1186083	0	
Aroclor 1016	1186083	0	
Aroclor 1016	1186083	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	916004	0	
Aroclor 1232	916004	0	
Aroclor 1232	916004	0	
Aroclor 1232	916004	0	

Aroclor 1232	916004	0	
Aroclor 1242	1186083	1194941	BA
Aroclor 1242	1186083	1194941	BA
Aroclor 1242	1186083	1194941	BA
Aroclor 1242	1186083	1194941	BA
Aroclor 1242	1186083	1194941	BA
Aroclor 1248	753062	0	
Aroclor 1248	753062	0	
Aroclor 1248	753062	0	
Aroclor 1248	753062	0	
Aroclor 1248	753062	0	
Aroclor 1254	261395	0	
Aroclor 1254	261395	0	
Aroclor 1254	261395	0	
Aroclor 1254	261395	0	
Aroclor 1254	261395	0	
Aroclor 1260	0	0	BA
Aroclor 1260	0	0	BA
Aroclor 1260	0	0	BA
Aroclor 1260	0	0	BA
Aroclor 1260	0	0	BA
Tetrachloro-m-xylene	10031154	10031154	
Decachlorobiphenyl	10109187	10109187	

==========

SAMPLE NO.

DUP

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTION M

Date Received: 10/03/2017 10:20

Matrix: Tissue SDG No.: 40157825

Date Extracted: 03/28/2018 08:09

Lab Sample ID: 1664809

Date Analyzed: 03/30/2018 23:43

Lab File ID: 033018.B\033018034.D

Initial wt/vol: 10.019 g Final wt/vol: 5 mL Dilution: 1

Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<11.4	U
11104-28-2	PCB-1221 (Aroclor 1221)	<11.4	U
11141-16-5	PCB-1232 (Aroclor 1232)	<11.4	U
53469-21-9	PCB-1242 (Aroclor 1242)	<11.4	U
12672-29-6	PCB-1248 (Aroclor 1248)	344	
11097-69-1	PCB-1254 (Aroclor 1254)	147	
11096-82-5	PCB-1260 (Aroclor 1260)	26.4	J

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018034.D
Lab Smp Id: 1664809 Client Smp ID: TD5-170619-01-YB-02
Inj Date : 30-MAR-2018 23:43
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1664809,
Misc Info : 17591,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 05-Apr-2018 14:48 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 34 QC Sample: FIELDDUP
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndV

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.019	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.181	15164	10620	0.700	0.02		
2.199	97280	48514	0.499	0.14		
2.292	13352	10176	0.762	0.01		
2.407	33673	23623	0.702	0.04		
2.485	10487821	9820043	0.936	15.72	$ 2 Tetrachloro-m-xylene	
2.788	25208	22650	0.899	0.03		
2.853	48096	36517	0.759	0.06		
2.978	38349	22006	0.574	0.05		
3.019	58151	59348	1.021	0.08		
3.053	42201	39907	0.946	0.06		
3.316	53027	49211	0.928	0.07		
3.345	51059	47642	0.933	0.07		
3.396	9739	9919	1.018	0.01		
3.436	42356	34501	0.815	0.06		
3.518	289574	271522	0.938	0.41		
3.646	37310	30607	0.820	0.05		
3.692	13705	11500	0.839	0.01		
3.732	287487	230907	0.803	0.41		
3.827	2290552	1653304	0.722	3.32		
3.938	109087	75638	0.693	0.15		
3.994	371549	349671	0.941	0.53		
4.057	159975	137253	0.858	0.23		
4.133	29089	19031	0.654	0.04		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.214	2193054	2008978	0.916	3.17	
4.261	2073379	1960767	0.946	3.00	6 Aroclor 1248
4.292	2487907	2038760	0.819	3.60	
4.347	37125	23222	0.626	0.05	
4.417	1394609	1320330	0.947	2.02	
4.453	762671	691572	0.907	1.10	
4.545	2043351	1881518	0.921	2.96	6 Aroclor 1248
4.589	108597	92762	0.854	0.15	
4.617	72988	55425	0.759	0.10	
4.679	88321	72947	0.826	0.12	
4.736	120563	79875	0.663	0.17	
4.768	383532	361900	0.944	0.55	
4.812	1749841	1672824	0.956	2.53	6 Aroclor 1248
4.847	978613	953282	0.974	1.41	
4.878	3989461	2846154	0.713	5.78	6 Aroclor 1248
4.955	352621	287360	0.815	0.51	
5.036	1505708	1366102	0.907	2.18	6 Aroclor 1248
5.101	776317	666857	0.859	1.12	
5.161	1617313	1416121	0.876	2.34	7 Aroclor 1254
5.211	1420814	1240167	0.873	2.05	
5.283	147117	142683	0.970	0.21	
5.308	265547	215202	0.810	0.38	
5.362	531727	463153	0.871	0.77	
5.406	1243508	1082110	0.870	1.80	7 Aroclor 1254
5.446	1119990	926984	0.828	1.62	
5.509	2181581	1869850	0.857	3.16	7 Aroclor 1254
5.577	69902	50285	0.719	0.10	
5.603	105930	75732	0.715	0.15	
5.675	387756	349863	0.902	0.56	
5.713	282311	215314	0.763	0.40	
5.741	409186	285050	0.697	0.59	
5.791	2525290	1965192	0.778	3.66	
5.887	219327	163459	0.745	0.31	
5.930	142783	113167	0.793	0.20	
5.993	385820	360992	0.936	0.55	
6.022	1339165	1204904	0.900	1.94	7 Aroclor 1254
6.055	1086836	928786	0.855	1.57	
6.118	40239	24131	0.600	0.05	
6.168	385884	277488	0.719	0.55	
6.226	141881	150113	1.058	0.20	
6.241	183073	144549	0.790	0.26	
6.299	2057279	1714581	0.833	2.98	7 Aroclor 1254
6.333	220291	202046	0.917	0.31	
6.373	126846	90570	0.714	0.18	
6.432	184749	137818	0.746	0.26	
6.488	27725	22121	0.798	0.04	
6.509	601415	557231	0.927	0.87	
6.534	427782	390103	0.912	0.62	
6.559	131750	122557	0.930	0.19	
6.603	99166	65034	0.656	0.14	
6.659	47479	39098	0.823	0.06	
6.717	203787	172234	0.845	0.29	
6.757	141185	119157	0.844	0.20	
6.800	290222	256193	0.883	0.42	
6.839	122887	87051	0.708	0.17	
6.909	22667	19136	0.844	0.03	
6.940	151368	135943	0.898	0.21	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.004	497428	456377	0.917	0.72	8 Aroclor 1260
7.034	57101	52763	0.924	0.08	
7.121	30534	18885	0.618	0.04	
7.249	250173	215925	0.863	0.36	8 Aroclor 1260
7.281	97381	78481	0.806	0.14	
7.336	18156	14020	0.772	0.02	
7.387	184234	155239	0.843	0.26	
7.441	169907	137187	0.807	0.24	8 Aroclor 1260
7.547	16278	15509	0.953	0.02	
7.579	10591	9988	0.943	0.01	
7.689	50496	49405	0.978	0.07	
7.726	67753	57560	0.850	0.09	
7.764	15824	11493	0.726	0.02	
7.809	55366	31972	0.577	0.08	
7.899	134956	112083	0.831	0.19	8 Aroclor 1260
7.960	19829	13395	0.676	0.02	
8.048	84590	73089	0.864	0.12	
8.272	150662	131395	0.872	0.21	
8.376	17140	14136	0.825	0.02	
8.570	10141721	8895795	0.877	14.70	$ 12 Decachlorobiphenyl
8.720	21529	14347	0.666	0.03	
8.945	11695	8938	0.764	0.01	
9.053	12883	12214	0.948	0.01	
9.170	21675	19315	0.891	0.03	
9.464	17693	9024	0.510	0.02	
9.961	9574	9443	0.986	0.01	
	68977209	59808891		100.000	

Total unknown % area = 39

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018034.D
Lab Smp Id: 1664809 Client Smp ID: TD5-170619-01-YB-02
Inj Date : 30-MAR-2018 23:43
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1664809,
Misc Info : 17591,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 05-Apr-2018 14:48 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 34 QC Sample: FIELDDUP
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndV

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.019	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	10487820	0.08506	42			
3 Aroclor 1242					CAS #: 53469-21-9			
Operator disabled compound identification.								
4 Aroclor 1232					CAS #: 1114-16-5			
Operator disabled compound identification.								

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	2073378	0.88493	440	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	2043350	0.49234	240	0.00- 20.00	98.55	BA
4.812	4.812	0.000	1749841	0.86196	430	0.00- 20.00	84.40	BA
4.877	4.879	-0.002	3989461	0.79196	400	0.00- 20.00	192.41	BA
5.036	5.038	-0.002	1505708	0.41959	210	0.00- 20.00	72.62	BA
Average of Peak Concentrations =					340			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	1617313	0.30893	150	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	1243508	0.28912	140	0.00- 20.00	76.89	BA
5.508	5.510	-0.002	2181581	0.28091	140	0.00- 20.00	134.89	BA
6.022	6.027	-0.005	1339164	0.27500	140	0.00- 20.00	82.80	BA
6.298	6.299	-0.001	2057279	0.31616	160	0.00- 20.00	127.20	BA
Average of Peak Concentrations =					150			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
7.004	7.006	-0.002	497428	0.04967	25	0.00- 20.00	24.18	BA
7.249	7.251	-0.002	250173	0.05234	26	0.00- 20.00	12.16	BA
7.440	7.443	-0.003	169906	0.05828	29	0.00- 20.00	8.26	BA
7.898	7.901	-0.003	134955	0.05114	26	0.00- 20.00	6.56	BA
Average of Peak Concentrations =					26			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	10141721	0.09257	46			

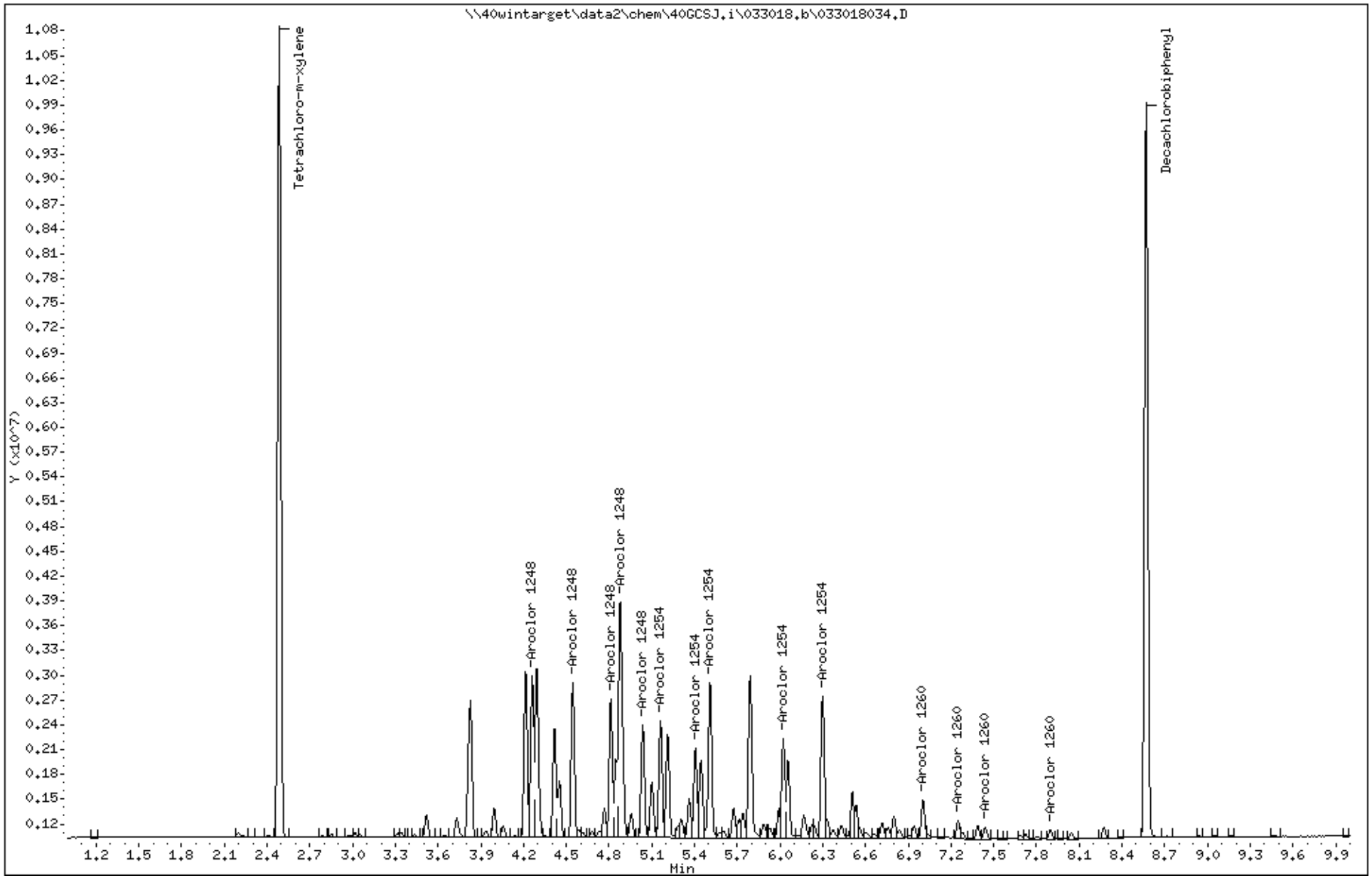
QC Flag Legend

M - Compound response manually integrated.

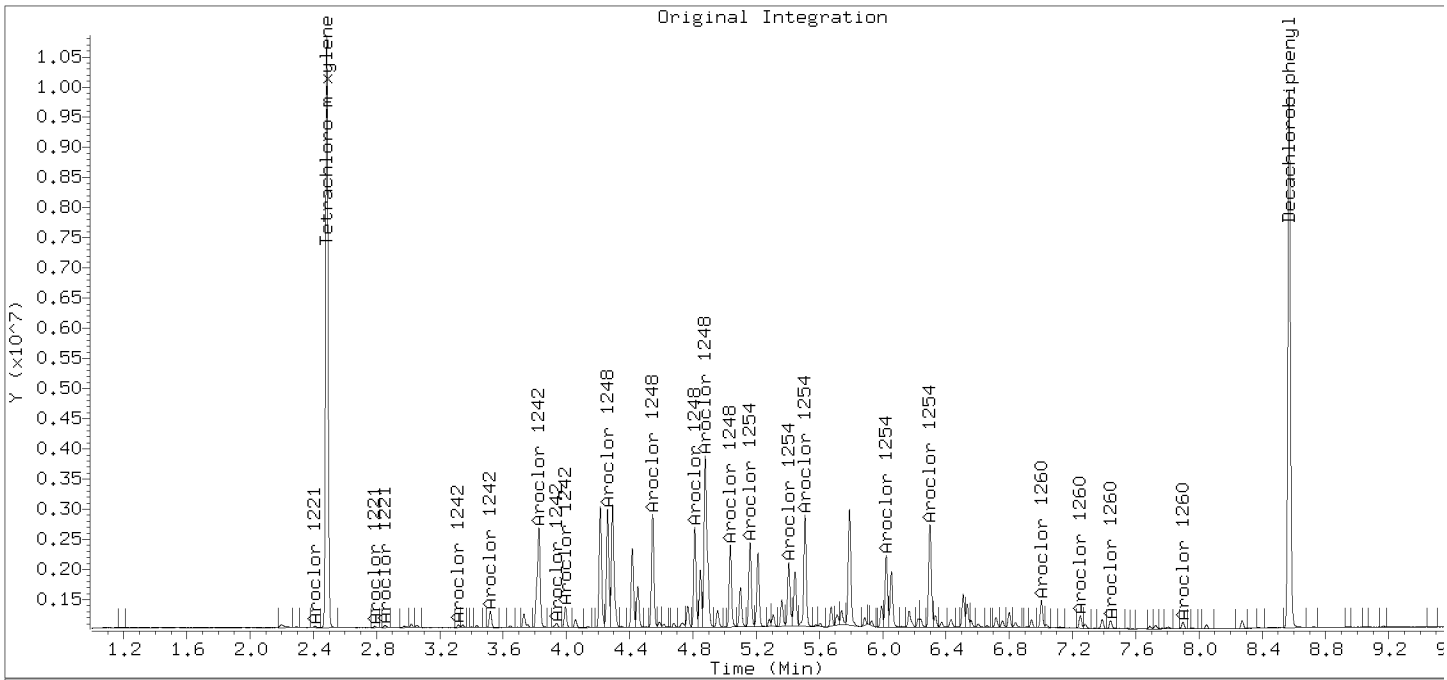
Review Codes Legend

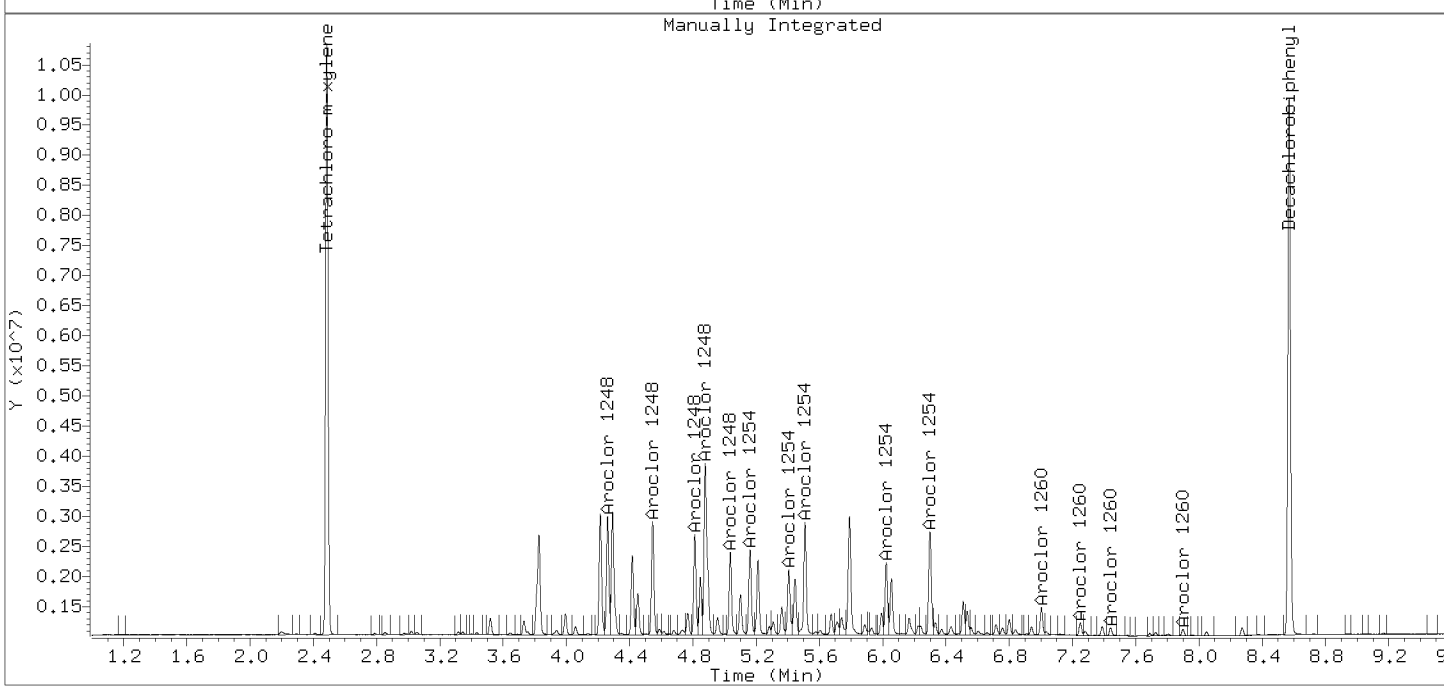
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018034.D
Date : 30-MAR-2018 23:43
Client ID: TD5-170619-01-YB-02
Instrument: 40GCSJ.i
Sample Info: 1664809,
Volume Injected (uL): 1.0
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b/033018034.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 30-MAR-2018 23:43 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1664809





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	53027	0	
Aroclor 1016	53027	0	
Aroclor 1016	53027	0	
Aroclor 1016	53027	0	
Aroclor 1016	53027	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	48095	0	
Aroclor 1232	48095	0	
Aroclor 1232	48095	0	
Aroclor 1232	48095	0	

Aroclor 1232	48095	0	
Aroclor 1242	53027	0	
Aroclor 1242	53027	0	
Aroclor 1242	53027	0	
Aroclor 1242	53027	0	
Aroclor 1242	53027	0	
Aroclor 1248	2059540	2073378	BA
Aroclor 1248	2059540	2073378	BA
Aroclor 1248	2059540	2073378	BA
Aroclor 1248	2059540	2073378	BA
Aroclor 1248	2059540	2073378	BA
Aroclor 1254	1561515	1617313	BA
Aroclor 1254	1561515	1617313	BA
Aroclor 1254	1561515	1617313	BA
Aroclor 1254	1561515	1617313	BA
Aroclor 1254	1561515	1617313	BA
Aroclor 1260	2025405	0	BA
Aroclor 1260	2025405	0	BA
Aroclor 1260	2025405	0	BA
Aroclor 1260	2025405	0	BA
Aroclor 1260	2025405	0	BA
Tetrachloro-m-xylene	10487820	10487820	
Decachlorobiphenyl	10141721	10141721	

==========

SAMPLE NO.

BLANK

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTION M

Date Received:

Matrix: Tissue SDG No.: 40157825

Date Extracted: 03/29/2018 07:15

Lab Sample ID: 1665641

Date Analyzed: 03/30/2018 23:59

Lab File ID: 033018.B\033018035.D

Initial wt/vol: 10 g Final wt/vol: 5 mL Dilution: 1

Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<11.4	U
11104-28-2	PCB-1221 (Aroclor 1221)	<11.4	U
11141-16-5	PCB-1232 (Aroclor 1232)	<11.4	U
53469-21-9	PCB-1242 (Aroclor 1242)	<11.4	U
12672-29-6	PCB-1248 (Aroclor 1248)	<11.4	U
11097-69-1	PCB-1254 (Aroclor 1254)	<11.4	U
11096-82-5	PCB-1260 (Aroclor 1260)	<11.4	U

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018035.D
Lab Smp Id: 1665641 Client Smp ID: MB
Inj Date : 30-MAR-2018 23:59
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1665641,
Misc Info : 17602,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 06-Apr-2018 14:21 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 35 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndV

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.000	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.539	12220	8835	0.723	0.06		
1.688	11802	11350	0.962	0.06		
2.200	68511	43341	0.633	0.35		
2.485	9062472	8790861	0.970	46.54	$ 2 Tetrachloro-m-xylene	
2.785	18940	15303	0.808	0.09		
2.860	20255	13190	0.651	0.10		
4.239	15325	12224	0.798	0.07		
5.345	13411	8291	0.618	0.06		
6.187	13873	8129	0.586	0.07		
7.119	12646	11143	0.881	0.06		
7.727	42443	38851	0.915	0.21		
7.798	31456	26503	0.843	0.16		
8.274	88646	77800	0.878	0.45		
8.377	11100	9263	0.834	0.05		
8.568	10019632	8531151	0.851	51.53	$ 12 Decachlorobiphenyl	
9.465	13707	9361	0.683	0.07		
9.956	13874	10369	0.747	0.07		
	19470313	17625965		100.000		

Total unknown % area = 1.9

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018035.D
Lab Smp Id: 1665641 Client Smp ID: MB
Inj Date : 30-MAR-2018 23:59
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1665641,
Misc Info : 17602,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 06-Apr-2018 14:21 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 35 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndV

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.000	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE

1 Aroclor 1221 CAS #: 11104-28-2

Peaks not detected for Quant. or Qual. signal(s).

$ 2 Tetrachloro-m-xylene CAS #: 877-09-8

2.484	2.484	0.000	9062471	0.07350	37			

---

3 Aroclor 1242 CAS #: 53469-21-9

Peaks not detected for Quant. or Qual. signal(s).

---

4 Aroclor 1232 CAS #: 1114-16-5

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE

5 Aroclor 1016 CAS #: 12674-11-2

Peaks not detected for Quant. or Qual. signal(s).

---

6 Aroclor 1248 CAS #: 12672-29-6

Peaks not detected for Quant. or Qual. signal(s).

---

7 Aroclor 1254 CAS #: 11097-69-1

Peaks not detected for Quant. or Qual. signal(s).

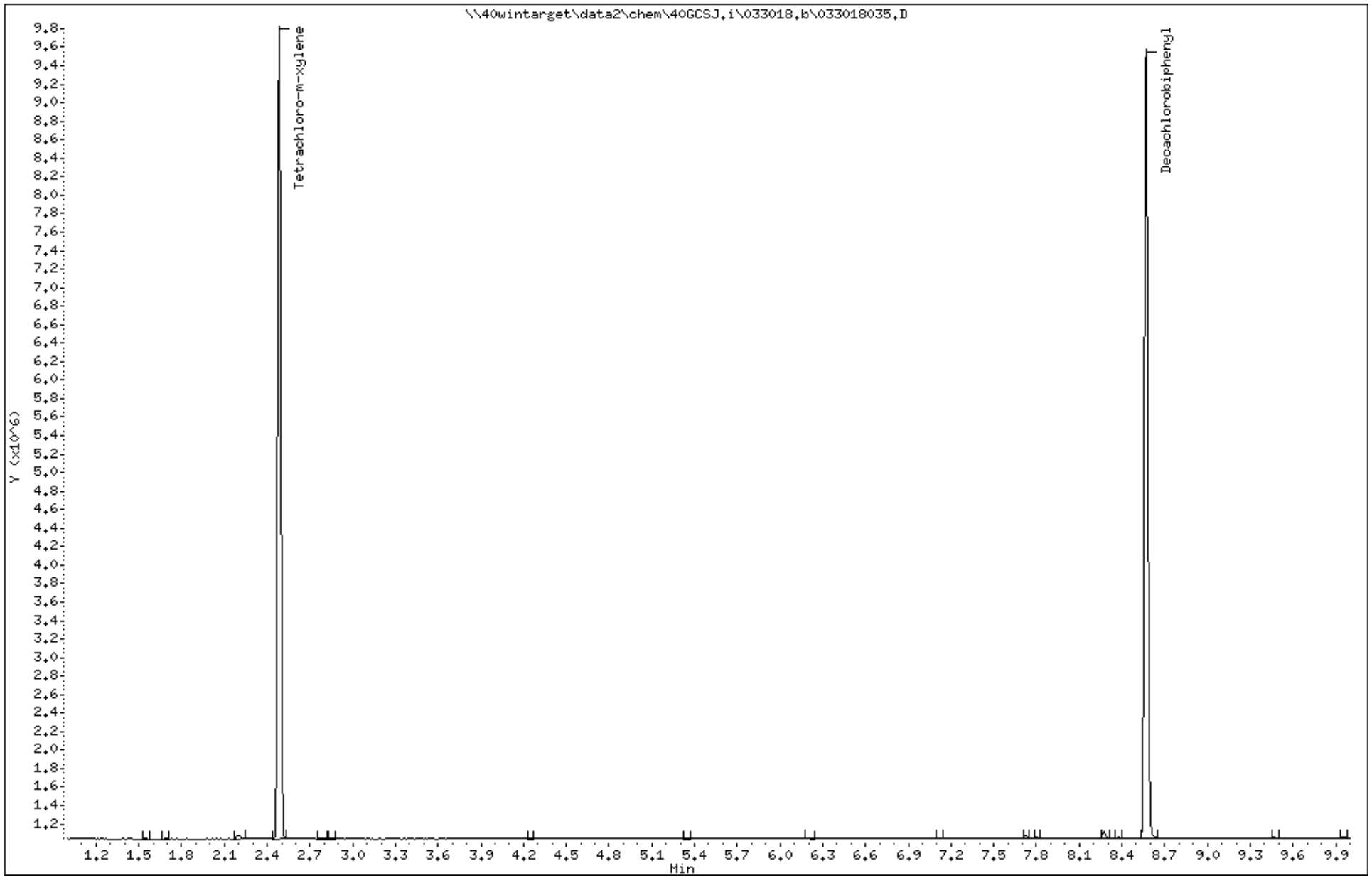
---

8 Aroclor 1260 CAS #: 11096-82-5

Peaks not detected for Quant. or Qual. signal(s).

$ 12	Decachlorobiphenyl					CAS #: 2051-24-3		
8.568	8.571	-0.003	10019631	0.09145	46			

Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018035.D
Date : 30-MAR-2018 23:59
Client ID: MB
Instrument: 40GCSJ.i
Sample Info: 1665641,
Volume Injected (uL): 1.0
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b/033018035.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 30-MAR-2018 23:59 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1665641

NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	0	0	
Aroclor 1016	0	0	
Aroclor 1016	0	0	
Aroclor 1016	0	0	
Aroclor 1016	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	0	0	
Aroclor 1232	0	0	
Aroclor 1232	0	0	
Aroclor 1232	0	0	
Aroclor 1232	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1248	0	0	
Aroclor 1248	0	0	
Aroclor 1248	0	0	
Aroclor 1248	0	0	
Aroclor 1248	0	0	
Aroclor 1254	0	0	
Aroclor 1254	0	0	
Aroclor 1254	0	0	
Aroclor 1254	0	0	
Aroclor 1254	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Tetrachloro-m-xylene	9062471	9062471	
Decachlorobiphenyl	10019631	10019631	

SAMPLE NO.

LCS

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTION M

Date Received:

Matrix: Tissue SDG No.: 40157825

Date Extracted: 03/29/2018 07:15

Lab Sample ID: 1665642

Date Analyzed: 03/31/2018 00:15

Lab File ID: 033018.B\033018036.D

Initial wt/vol: 10 g Final wt/vol: 5 mL Dilution: 1

Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<11.4	U
11104-28-2	PCB-1221 (Aroclor 1221)	<11.4	U
11141-16-5	PCB-1232 (Aroclor 1232)	<11.4	U
53469-21-9	PCB-1242 (Aroclor 1242)	235	
12672-29-6	PCB-1248 (Aroclor 1248)	<11.4	U
11097-69-1	PCB-1254 (Aroclor 1254)	<11.4	U
11096-82-5	PCB-1260 (Aroclor 1260)	<11.4	U

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018036.D
Lab Smp Id: 1665642 Client Smp ID: MBLCS
Inj Date : 31-MAR-2018 00:15
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1665642,
Misc Info : 17602,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 06-Apr-2018 14:21 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 36 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndV

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.000	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.689	9567	8721	0.912	0.02		
1.805	20559	13969	0.679	0.04		
2.198	66762	42285	0.633	0.14		
2.405	111970	85494	0.764	0.25		
2.484	9456231	9078106	0.960	21.15	$ 2 Tetrachloro-m-xylene	
2.687	180467	141806	0.786	0.40		
2.789	213030	194507	0.913	0.47		
2.850	930475	860048	0.924	2.08		
3.054	122920	108298	0.881	0.27		
3.273	23253	17821	0.766	0.05		
3.318	1178256	1105363	0.938	2.63	3 Aroclor 1242	BA
3.344	662981	625367	0.943	1.48		
3.434	186370	169047	0.907	0.41		
3.514	1156450	841473	0.728	2.58	3 Aroclor 1242	BA
3.644	19465	14133	0.726	0.04		
3.694	35055	33087	0.944	0.07		
3.731	302428	301015	0.995	0.67		
3.755	205225	194718	0.949	0.45		
3.826	3402183	1988081	0.584	7.61	3 Aroclor 1242	BA
3.929	1455672	1216355	0.836	3.25	3 Aroclor 1242	BA
3.994	961596	931069	0.968	2.15	3 Aroclor 1242	BA
4.058	259287	236505	0.912	0.58		
4.135	106038	91718	0.865	0.23		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.214	788617	743473	0.943	1.76	
4.261	738528	704191	0.954	1.65	
4.291	316064	312831	0.990	0.70	
4.310	362123	340362	0.940	0.81	
4.369	28188	20875	0.741	0.06	
4.417	1028837	968120	0.941	2.30	
4.451	814846	597139	0.733	1.82	
4.544	1315593	1195983	0.909	2.94	
4.590	16530	19390	1.173	0.03	
4.616	306666	282306	0.921	0.68	
4.679	20369	17439	0.856	0.04	
4.726	67549	58380	0.864	0.15	
4.767	72356	66113	0.914	0.16	
4.813	625968	611183	0.976	1.40	
4.847	1102485	1048042	0.951	2.46	
4.878	1391704	1047049	0.752	3.11	
4.956	142482	116342	0.817	0.31	
5.036	1175277	1100256	0.936	2.62	
5.099	226327	174365	0.770	0.50	
5.162	265415	242424	0.913	0.59	
5.211	194381	174500	0.898	0.43	
5.282	16312	15608	0.957	0.03	
5.307	47023	38141	0.811	0.10	
5.361	179989	143907	0.800	0.40	
5.406	278893	244083	0.875	0.62	
5.445	183492	160873	0.877	0.41	
5.509	475999	353957	0.744	1.06	
5.604	140589	123198	0.876	0.31	
5.678	20133	14159	0.703	0.04	
5.715	29517	24007	0.813	0.06	
5.740	36988	34028	0.920	0.08	
5.791	309292	263957	0.853	0.69	
5.888	38487	31246	0.812	0.08	
6.024	267857	233628	0.872	0.59	
6.053	50420	38269	0.759	0.11	
6.166	32484	16835	0.518	0.07	
6.297	65841	54326	0.825	0.14	
6.336	18776	13613	0.725	0.04	
6.369	17125	11893	0.694	0.03	
6.509	9800	11350	1.158	0.02	
6.535	17560	16057	0.914	0.03	
6.718	9244	9548	1.033	0.02	
6.798	17808	12795	0.718	0.03	
7.004	23102	18454	0.799	0.05	
7.122	13037	10576	0.811	0.02	
7.440	10726	7371	0.687	0.02	
7.727	41946	37634	0.897	0.09	
7.800	36536	27117	0.742	0.08	
8.273	89985	78837	0.876	0.20	
8.375	13748	12157	0.884	0.03	
8.569	10136396	8853501	0.873	23.01	$ 12 Decachlorobiphenyl
	44695648	39050874		100.000	

Total unknown % area = 38

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018036.D
Lab Smp Id: 1665642 Client Smp ID: MBLCS
Inj Date : 31-MAR-2018 00:15
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1665642,
Misc Info : 17602,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 06-Apr-2018 14:21 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 36 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndV

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.000	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	9456231	0.07670	38			
3 Aroclor 1242					CAS #: 53469-21-9			
3.317	3.318	-0.001	1178255	0.46513	230	0.00- 20.00	100.00(M)	BA
3.513	3.513	0.000	1156450	0.45890	230	0.00- 20.00	98.15	BA
3.826	3.827	-0.001	3402183	0.47807	240	0.00- 20.00	288.75	BA
3.929	3.929	0.000	1455671	0.47860	240	0.00- 20.00	123.54	BA
3.993	3.995	-0.002	961596	0.46959	230	0.00- 20.00	81.61	BA
Average of Peak Concentrations =					240			

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE

4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

---

5 Aroclor 1016 CAS #: 12674-11-2

Operator disabled compound identification.

---

6 Aroclor 1248 CAS #: 12672-29-6

Operator disabled compound identification.

---

7 Aroclor 1254 CAS #: 11097-69-1

Operator disabled compound identification.

---

8 Aroclor 1260 CAS #: 11096-82-5

Peaks not detected for Quant. or Qual. signal(s).

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

8.569	8.571	-0.002	10136395	0.09252	46	

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018036.D

Date : 31-MAR-2018 00:15

Client ID: MBLCS

Instrument: 40GCSJ.i

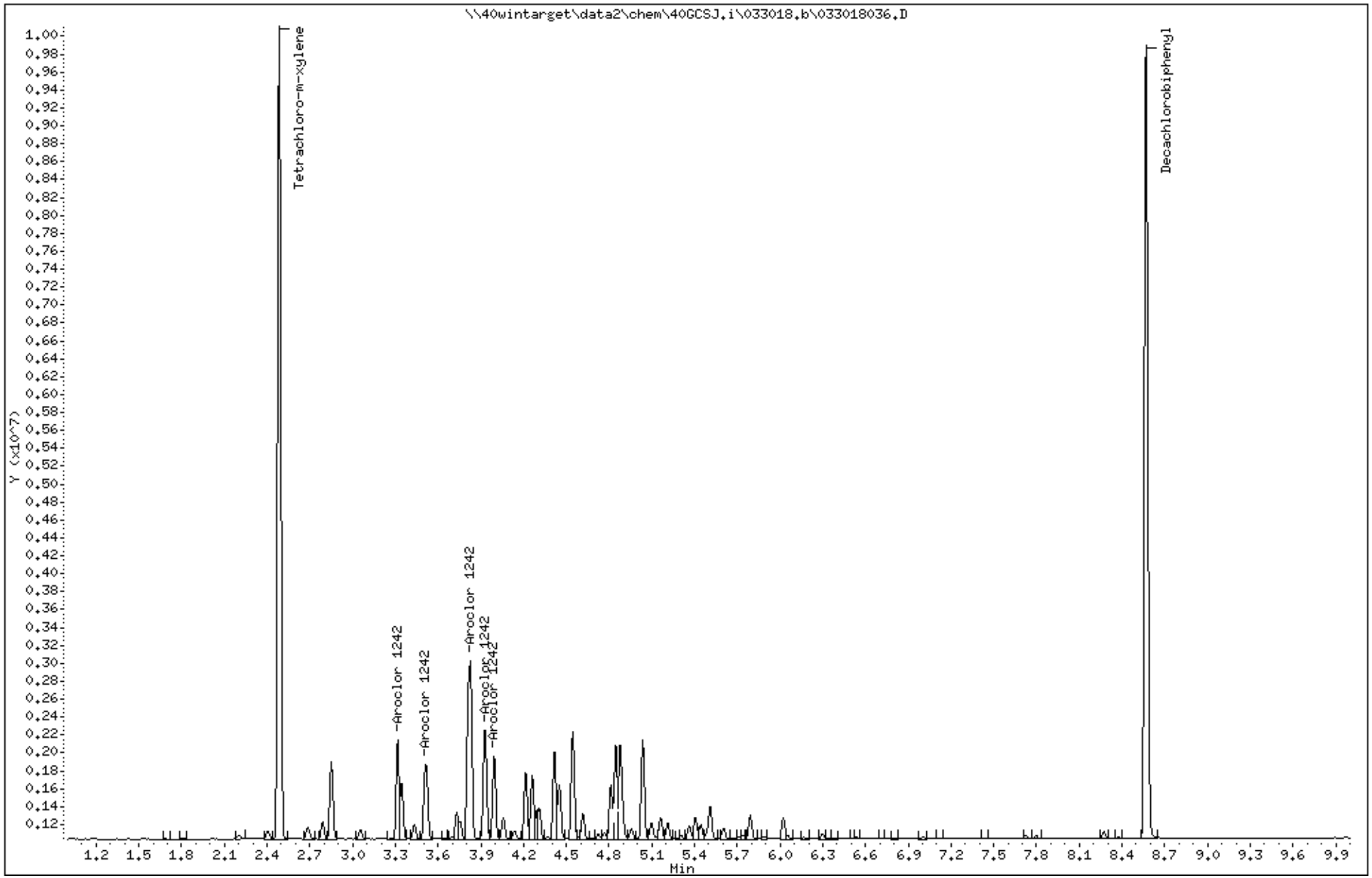
Sample Info: 1665642,

Volume Injected (uL): 1.0

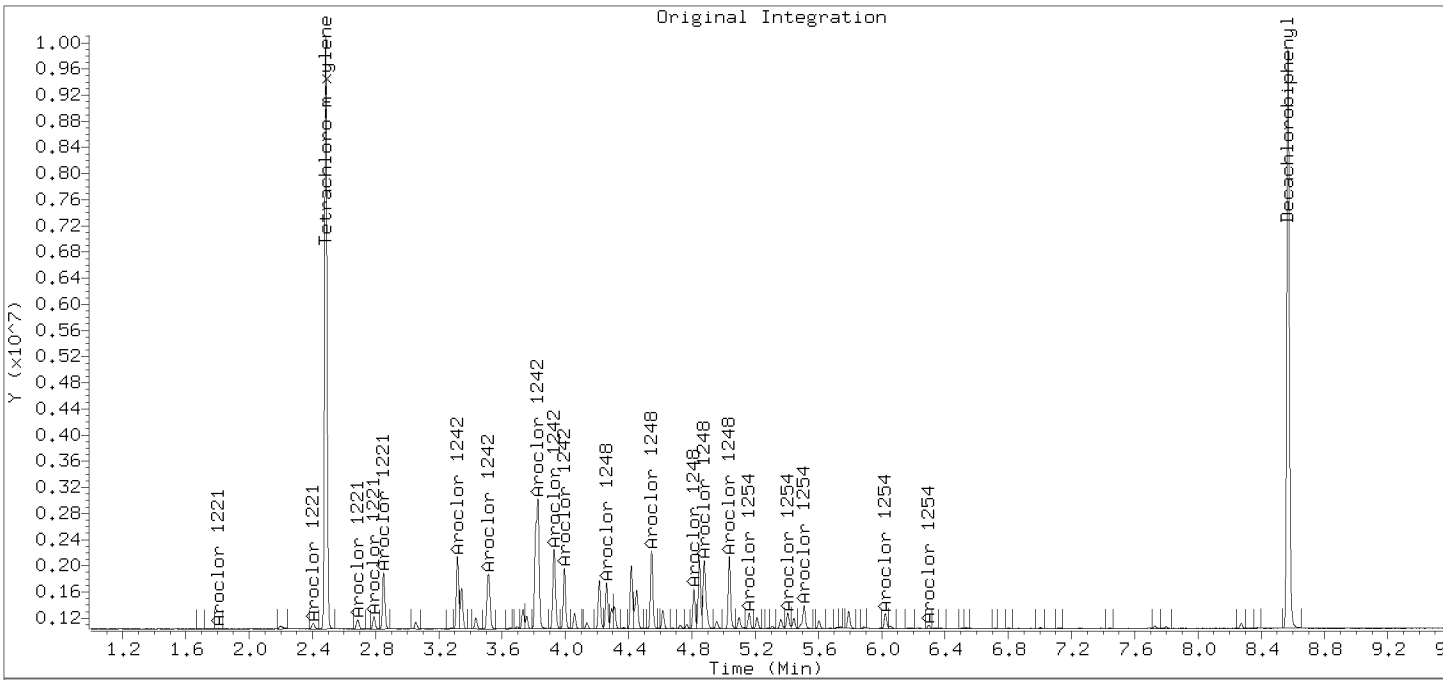
Operator: BLM

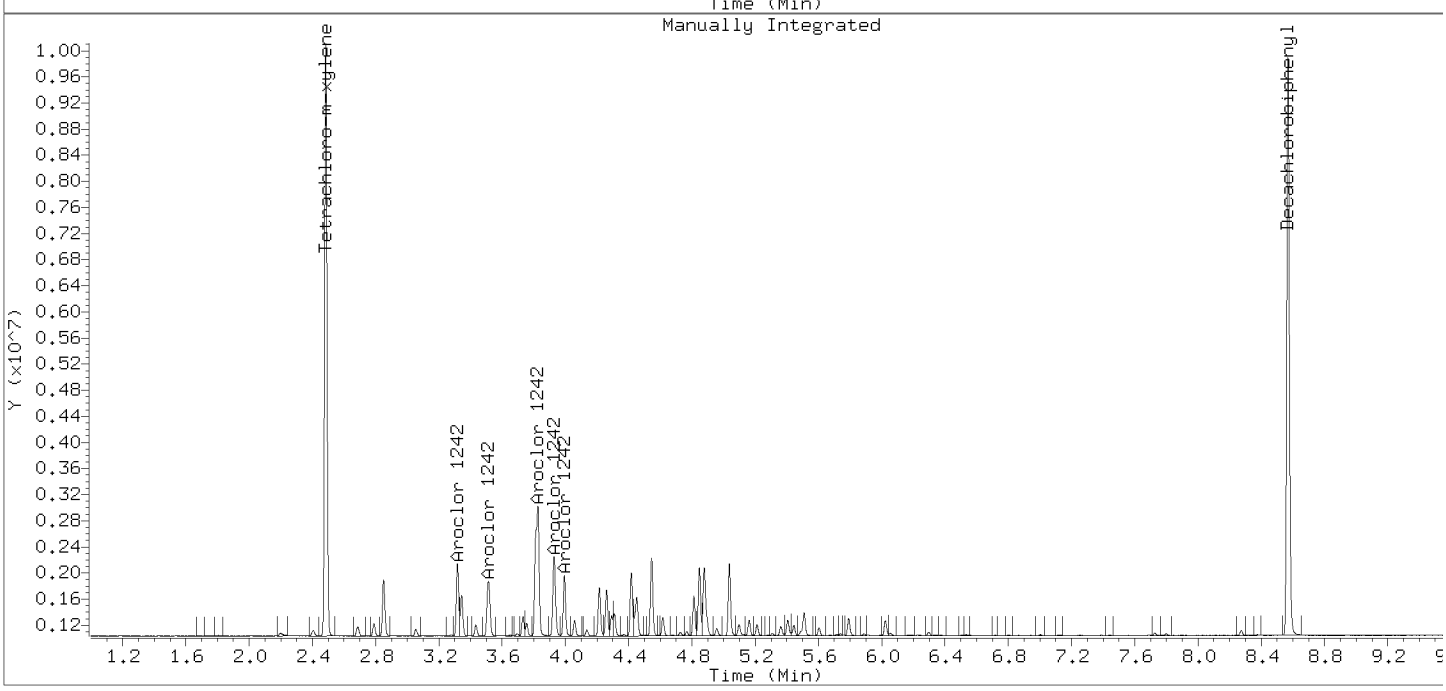
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b/033018036.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 31-MAR-2018 00:15 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1665642





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1168733	0	
Aroclor 1016	1168733	0	
Aroclor 1016	1168733	0	
Aroclor 1016	1168733	0	
Aroclor 1016	1168733	0	
Aroclor 1221	20558	0	
Aroclor 1221	20558	0	
Aroclor 1221	20558	0	
Aroclor 1221	20558	0	
Aroclor 1221	20558	0	
Aroclor 1232	917084	0	
Aroclor 1232	917084	0	
Aroclor 1232	917084	0	
Aroclor 1232	917084	0	

Aroclor 1232	917084	0	
Aroclor 1242	1168733	1178255	BA
Aroclor 1242	1168733	1178255	BA
Aroclor 1242	1168733	1178255	BA
Aroclor 1242	1168733	1178255	BA
Aroclor 1242	1168733	1178255	BA
Aroclor 1248	730592	0	
Aroclor 1248	730592	0	
Aroclor 1248	730592	0	
Aroclor 1248	730592	0	
Aroclor 1248	730592	0	
Aroclor 1254	255964	0	
Aroclor 1254	255964	0	
Aroclor 1254	255964	0	
Aroclor 1254	255964	0	
Aroclor 1254	255964	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Tetrachloro-m-xylene	9456231	9456231	
Decachlorobiphenyl	10136395	10136395	

==========

SAMPLE NO.

DUP

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTION M

Date Received: 10/03/2017 10:20

Matrix: Tissue SDG No.: 40157825

Date Extracted: 03/29/2018 07:15

Lab Sample ID: 1665645

Date Analyzed: 03/31/2018 06:04

Lab File ID: 033018.B\033018058.D

Initial wt/vol: 9.9927 g Final wt/vol: 5 mL Dilution: 1

Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<11.4	U
11104-28-2	PCB-1221 (Aroclor 1221)	<11.4	U
11141-16-5	PCB-1232 (Aroclor 1232)	<11.4	U
53469-21-9	PCB-1242 (Aroclor 1242)	<11.4	U
12672-29-6	PCB-1248 (Aroclor 1248)	120	
11097-69-1	PCB-1254 (Aroclor 1254)	73.4	
11096-82-5	PCB-1260 (Aroclor 1260)	20.7	J

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018058.D
Lab Smp Id: 1665645 Client Smp ID: TD2-170619-01-YP-06
Inj Date : 31-MAR-2018 06:04
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1665645,
Misc Info : 17602,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 06-Apr-2018 14:21 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 58 QC Sample: FIELDDUP
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndV

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.993	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.428	13636	9085	0.666	0.03		
2.199	103812	51587	0.497	0.24		
2.411	52810	45086	0.854	0.12		
2.485	10570012	10056460	0.951	25.47	$ 2 Tetrachloro-m-xylene	
2.788	18808	19226	1.022	0.04		
2.858	34082	20511	0.602	0.08		
2.972	25198	22501	0.893	0.05		
2.988	30592	31963	1.045	0.07		
3.019	34190	33851	0.990	0.08		
3.055	33054	29120	0.881	0.07		
3.317	30535	28727	0.941	0.07		
3.346	31793	28781	0.905	0.07		
3.435	39812	33865	0.851	0.09		
3.520	103674	94839	0.915	0.24		
3.733	43909	45503	1.036	0.10		
3.754	31831	30569	0.960	0.07		
3.827	532927	352616	0.662	1.25		
3.936	64643	40853	0.632	0.15		
3.994	135507	125576	0.927	0.32		
4.057	67891	56330	0.830	0.16		
4.214	638827	599718	0.939	1.50		
4.260	674356	649517	0.963	1.59	6 Aroclor 1248	BA
4.293	571202	468834	0.821	1.34		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.417	435856	404390	0.928	1.02	
4.452	321338	288774	0.899	0.75	
4.545	666805	619479	0.929	1.57	6 Aroclor 1248
4.587	31277	31213	0.998	0.07	
4.617	99522	87098	0.875	0.23	
4.679	42673	36347	0.852	0.10	
4.729	67415	41008	0.608	0.15	
4.768	119936	112766	0.940	0.28	
4.812	586970	572095	0.975	1.38	6 Aroclor 1248
4.847	496298	473917	0.955	1.17	
4.878	1404003	953839	0.679	3.31	6 Aroclor 1248
4.957	206710	173356	0.839	0.48	
5.037	671368	628592	0.936	1.58	6 Aroclor 1248
5.100	375045	318261	0.849	0.88	
5.161	830854	767600	0.924	1.96	7 Aroclor 1254
5.211	605437	534597	0.883	1.43	
5.281	61713	60614	0.982	0.14	
5.310	159337	125710	0.789	0.37	
5.362	290599	261227	0.899	0.68	
5.406	597819	515979	0.863	1.41	7 Aroclor 1254
5.447	544575	460128	0.845	1.28	
5.480	59159	57430	0.971	0.13	
5.510	960774	855522	0.890	2.27	7 Aroclor 1254
5.576	48791	30993	0.635	0.11	
5.604	187163	150871	0.806	0.44	
5.674	188662	169877	0.900	0.44	
5.713	151532	104610	0.690	0.35	
5.740	205381	142725	0.695	0.48	
5.790	1289544	1005211	0.780	3.04	
5.887	163751	104572	0.639	0.38	
5.930	94234	54583	0.579	0.22	
5.992	186560	166136	0.891	0.44	
6.024	734528	660139	0.899	1.73	7 Aroclor 1254
6.054	723966	595258	0.822	1.71	
6.168	227032	147414	0.649	0.53	
6.226	180783	93289	0.516	0.42	
6.299	1048392	884561	0.844	2.47	7 Aroclor 1254
6.332	143464	127465	0.888	0.33	
6.374	91362	57370	0.628	0.21	
6.431	133130	79986	0.601	0.31	
6.509	314894	268172	0.852	0.74	
6.534	208649	188967	0.906	0.49	
6.560	115283	93062	0.807	0.27	
6.604	54741	33284	0.608	0.12	
6.659	51737	29933	0.579	0.12	
6.717	126954	98013	0.772	0.29	
6.755	158811	116841	0.736	0.37	
6.800	191772	161644	0.843	0.45	
6.838	97286	58324	0.600	0.22	
6.913	23938	21125	0.882	0.05	
6.941	186549	163499	0.876	0.44	
7.004	306599	269391	0.879	0.72	8 Aroclor 1260
7.034	23291	26590	1.142	0.05	
7.077	21913	12593	0.575	0.05	
7.121	41404	21668	0.523	0.09	
7.251	175750	138675	0.789	0.41	8 Aroclor 1260
7.280	85438	58167	0.681	0.20	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.336	32433	22559	0.696	0.07	
7.388	115654	102640	0.887	0.27	
7.440	170622	116206	0.681	0.40	8 Aroclor 1260
7.579	18678	13418	0.718	0.04	
7.621	33616	18393	0.547	0.07	
7.662	15209	16487	1.084	0.03	
7.693	33210	33738	1.016	0.07	
7.727	78309	57541	0.735	0.18	
7.809	85851	48917	0.570	0.20	
7.898	104550	78228	0.748	0.24	8 Aroclor 1260
8.049	43848	36858	0.841	0.10	
8.275	143516	130852	0.912	0.33	
8.376	14474	12272	0.848	0.03	
8.570	9861036	8767823	0.889	23.29	$ 12 Decachlorobiphenyl
8.724	23711	19293	0.814	0.05	
9.168	29134	26476	0.909	0.06	
9.960	17160	13193	0.769	0.04	
	42322879	37104962		100.000	

Total unknown % area = 30

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018058.D
Lab Smp Id: 1665645 Client Smp ID: TD2-170619-01-YP-06
Inj Date : 31-MAR-2018 06:04
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1665645,
Misc Info : 17602,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 06-Apr-2018 14:21 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 58 QC Sample: FIELDDUP
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndV

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.993	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	10570012	0.08573	43			
3 Aroclor 1242					CAS #: 53469-21-9			
Operator disabled compound identification.								
4 Aroclor 1232					CAS #: 1114-16-5			
Operator disabled compound identification.								

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	674355	0.28782	140	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	666804	0.16066	80	0.00- 20.00	98.88	BA
4.812	4.812	0.000	586970	0.28914	140	0.00- 20.00	87.04	BA
4.878	4.879	-0.001	1404003	0.27871	140	0.00- 20.00	208.20	BA
5.037	5.038	-0.001	671367	0.18709	94	0.00- 20.00	99.56	BA
Average of Peak Concentrations =					120			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	830853	0.15870	79	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	597818	0.13899	70	0.00- 20.00	71.95	BA
5.509	5.510	-0.001	960773	0.12371	62	0.00- 20.00	115.64	BA
6.023	6.027	-0.004	734528	0.15084	75	0.00- 20.00	88.41	BA
6.298	6.299	-0.001	1048392	0.16111	81	0.00- 20.00	126.18	BA
Average of Peak Concentrations =					73			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
7.003	7.006	-0.003	306599	0.03062	15	0.00- 20.00	29.24	BA
7.250	7.251	-0.001	175749	0.03677	18	0.00- 20.00	16.76	BA
7.440	7.443	-0.003	170622	0.05853	29	0.00- 20.00	16.27	BA
7.898	7.901	-0.003	104549	0.03962	20	0.00- 20.00	9.97	BA
Average of Peak Concentrations =					21			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	9861035	0.09001	45			

QC Flag Legend

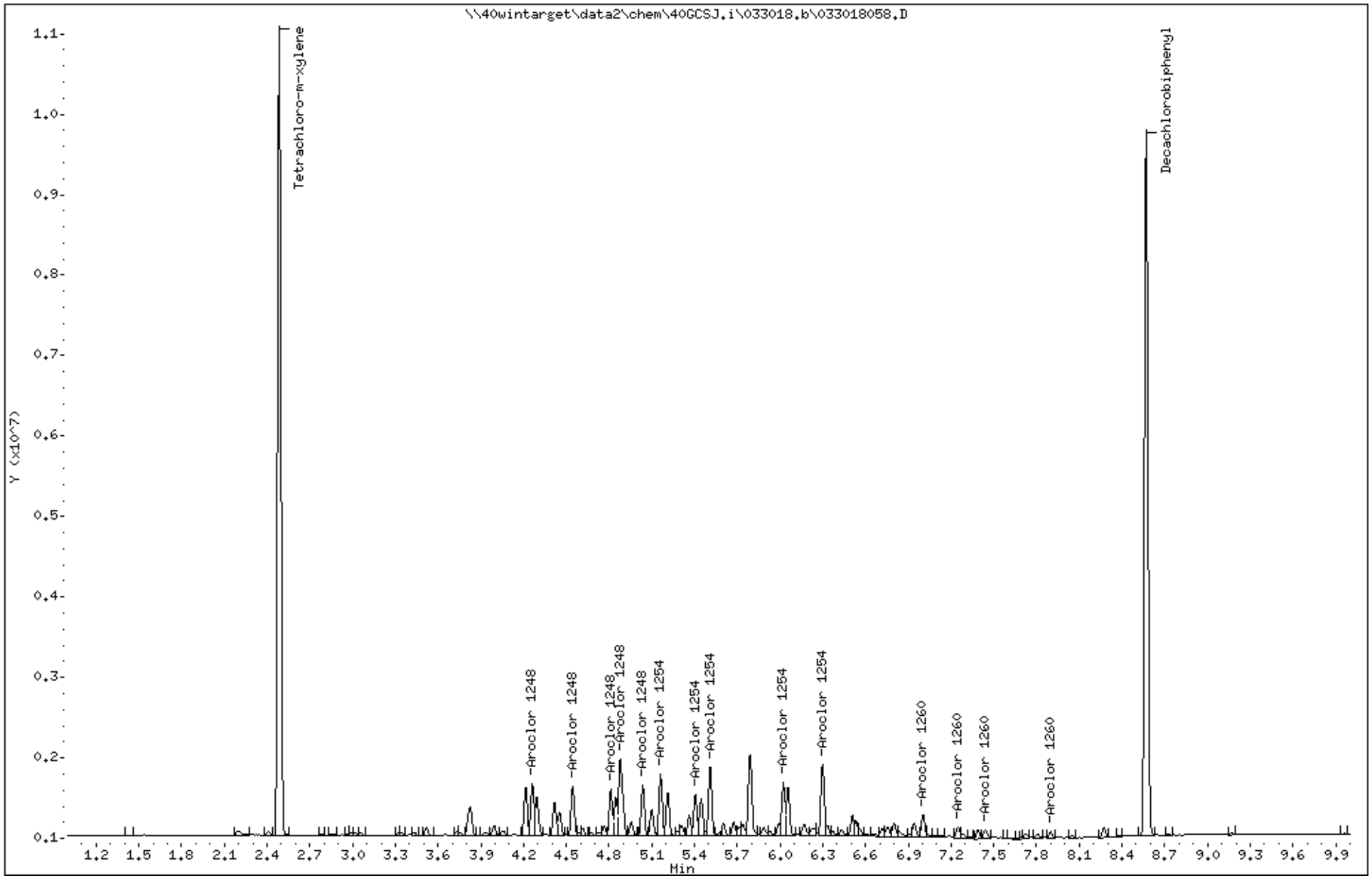
M - Compound response manually integrated.

Review Codes Legend

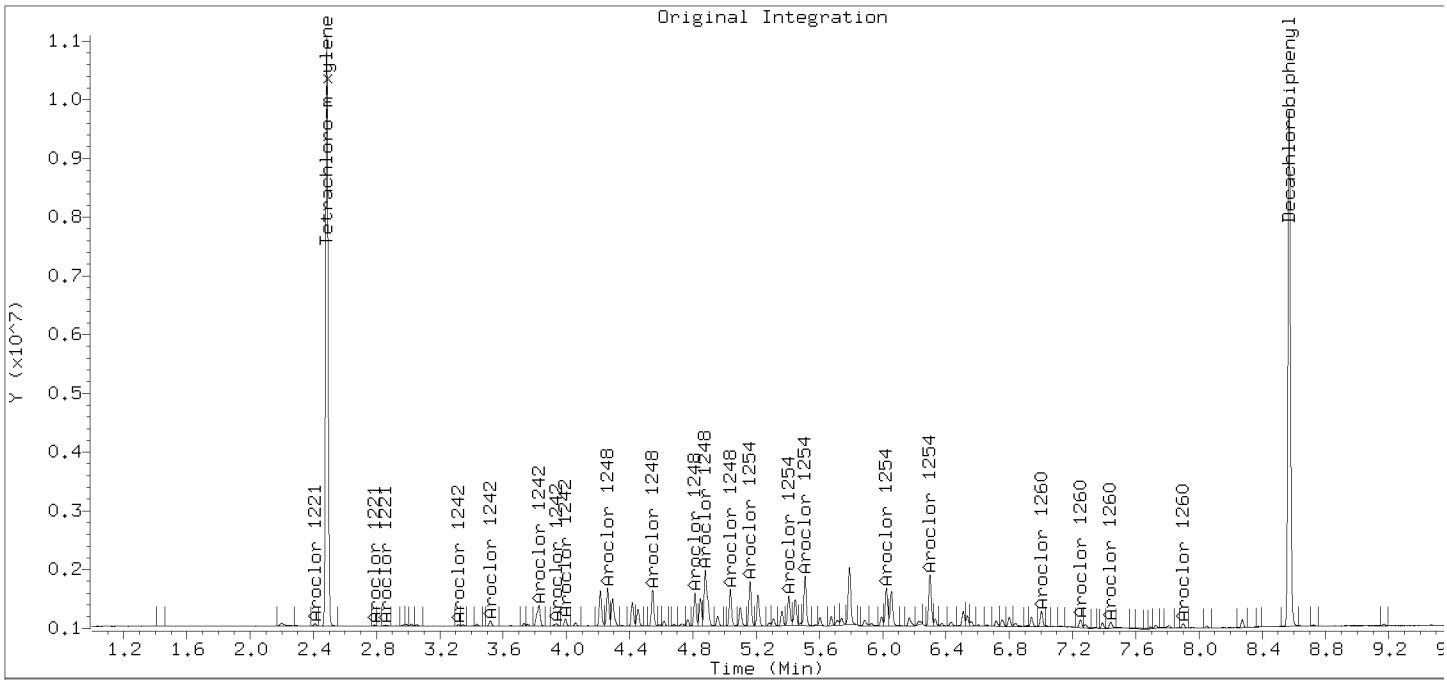
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

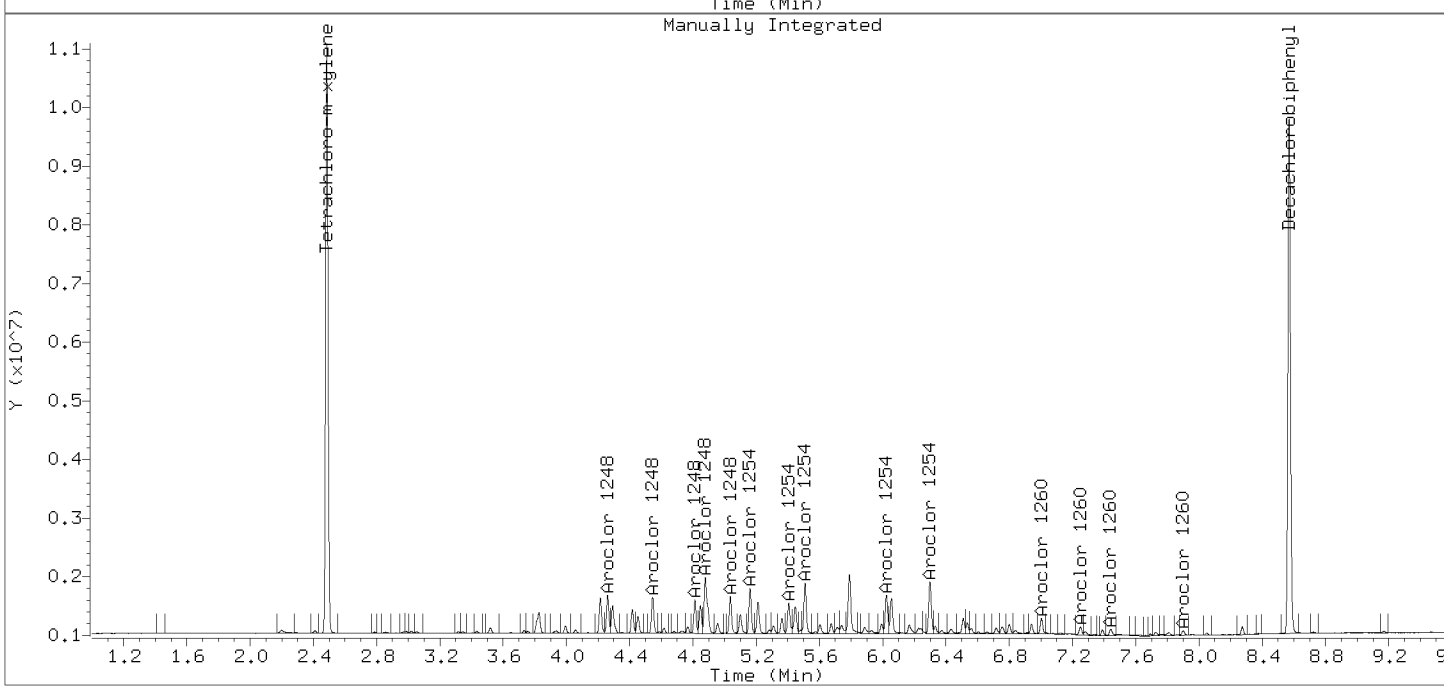
Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018058.D
Date : 31-MAR-2018 06:04
Client ID: TD2-170619-01-YP-06
Sample Info: 1665645,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

Instrument: 40GCSJ.i
Operator: BLM
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b/033018058.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 31-MAR-2018 06:04 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1665645





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	30535	0	
Aroclor 1016	30535	0	
Aroclor 1016	30535	0	
Aroclor 1016	30535	0	
Aroclor 1016	30535	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	34081	0	
Aroclor 1232	34081	0	
Aroclor 1232	34081	0	
Aroclor 1232	34081	0	

Aroclor 1232	34081	0	
Aroclor 1242	30535	0	
Aroclor 1242	30535	0	
Aroclor 1242	30535	0	
Aroclor 1242	30535	0	
Aroclor 1242	30535	0	
Aroclor 1248	664630	674355	BA
Aroclor 1248	664630	674355	BA
Aroclor 1248	664630	674355	BA
Aroclor 1248	664630	674355	BA
Aroclor 1248	664630	674355	BA
Aroclor 1254	802792	830853	BA
Aroclor 1254	802792	830853	BA
Aroclor 1254	802792	830853	BA
Aroclor 1254	802792	830853	BA
Aroclor 1254	802792	830853	BA
Aroclor 1260	1009252	0	BA
Aroclor 1260	1009252	0	BA
Aroclor 1260	1009252	0	BA
Aroclor 1260	1009252	0	BA
Aroclor 1260	1009252	0	BA
Tetrachloro-m-xylene	10570012	10570012	
Decachlorobiphenyl	9861035	9861035	

==========

SAMPLE NO.

BLANK

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTION M

Date Received:

Matrix: Tissue SDG No.: 40157825

Date Extracted: 04/09/2018 07:13

Lab Sample ID: 1670714

Date Analyzed: 04/10/2018 21:46

Lab File ID: 041018.B\041018036.D

Initial wt/vol: 10 g Final wt/vol: 5 mL Dilution: 1

Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<11.4	U
11104-28-2	PCB-1221 (Aroclor 1221)	<11.4	U
11141-16-5	PCB-1232 (Aroclor 1232)	<11.4	U
53469-21-9	PCB-1242 (Aroclor 1242)	<11.4	U
12672-29-6	PCB-1248 (Aroclor 1248)	<11.4	U
11097-69-1	PCB-1254 (Aroclor 1254)	<11.4	U
11096-82-5	PCB-1260 (Aroclor 1260)	<11.4	U

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018036.D
Lab Smp Id: 1670714 Client Smp ID: MB
Inj Date : 10-APR-2018 21:46
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1670714,
Misc Info : 17645,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 17-Apr-2018 14:35 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 36 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndV

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.000	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.540	9974	8191	0.821	0.04		
1.689	10881	10450	0.960	0.05		
2.485	9386710	8818354	0.939	46.66	$ 2 Tetrachloro-m-xylene	
2.787	19695	15768	0.801	0.09		
4.293	15375	11998	0.780	0.07		
4.415	10609	8345	0.787	0.05		
4.544	19864	15251	0.768	0.09		
4.809	13117	11378	0.867	0.06		
5.036	10902	9201	0.844	0.05		
5.096	12324	8498	0.690	0.06		
5.159	12685	11631	0.917	0.06	7 Aroclor 1254	
5.211	14211	11037	0.777	0.07		
5.405	11750	9878	0.841	0.05	7 Aroclor 1254	
5.509	21430	18662	0.871	0.10	7 Aroclor 1254	
5.788	23356	17282	0.740	0.11		
6.057	10277	8674	0.844	0.05	7 Aroclor 1254	
6.196	9760	9778	1.002	0.04		
6.299	19564	16159	0.826	0.09	7 Aroclor 1254	
7.123	14352	13548	0.944	0.07		
7.689	10211	9079	0.889	0.05		
7.727	48287	41945	0.869	0.24		
7.798	40458	30693	0.759	0.20		
8.051	11418	7225	0.633	0.05		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
8.275	96829	75355	0.778	0.48	
8.376	19286	12516	0.649	0.09	
8.569	10189829	8595077	0.843	50.79	$ 12 Decachlorobiphenyl
8.938	13433	10279	0.765	0.06	
9.464	16920	10230	0.605	0.08	
9.960	21619	14234	0.658	0.10	
	20115130	17840716		100.000	

Total unknown % area = 2.2

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018036.D
Lab Smp Id: 1670714 Client Smp ID: MB
Inj Date : 10-APR-2018 21:46
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1670714,
Misc Info : 17645,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 17-Apr-2018 14:35 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 36 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndV

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.000	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221						CAS #: 11104-28-2		
Peaks not detected for Quant. or Qual. signal(s).								
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.484	2.484	0.000	9386710	0.07613	38			
3 Aroclor 1242						CAS #: 53469-21-9		
Peaks not detected for Quant. or Qual. signal(s).								
4 Aroclor 1232						CAS #: 1114-16-5		
Peaks not detected for Quant. or Qual. signal(s).								

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE

5 Aroclor 1016 CAS #: 12674-11-2

Peaks not detected for Quant. or Qual. signal(s).

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6 Aroclor 1248 CAS #: 12672-29-6

Peaks not detected for Quant. or Qual. signal(s).

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7 Aroclor 1254 CAS #: 11097-69-1

Qualifier signal(s) failed ratio test.

---

8 Aroclor 1260 CAS #: 11096-82-5

Peaks not detected for Quant. or Qual. signal(s).

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

8.569	8.571	-0.002	10189828	0.09301	46			

Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018036.D

Date : 10-APR-2018 21:46

Client ID: MB

Instrument: 40GCSJ.i

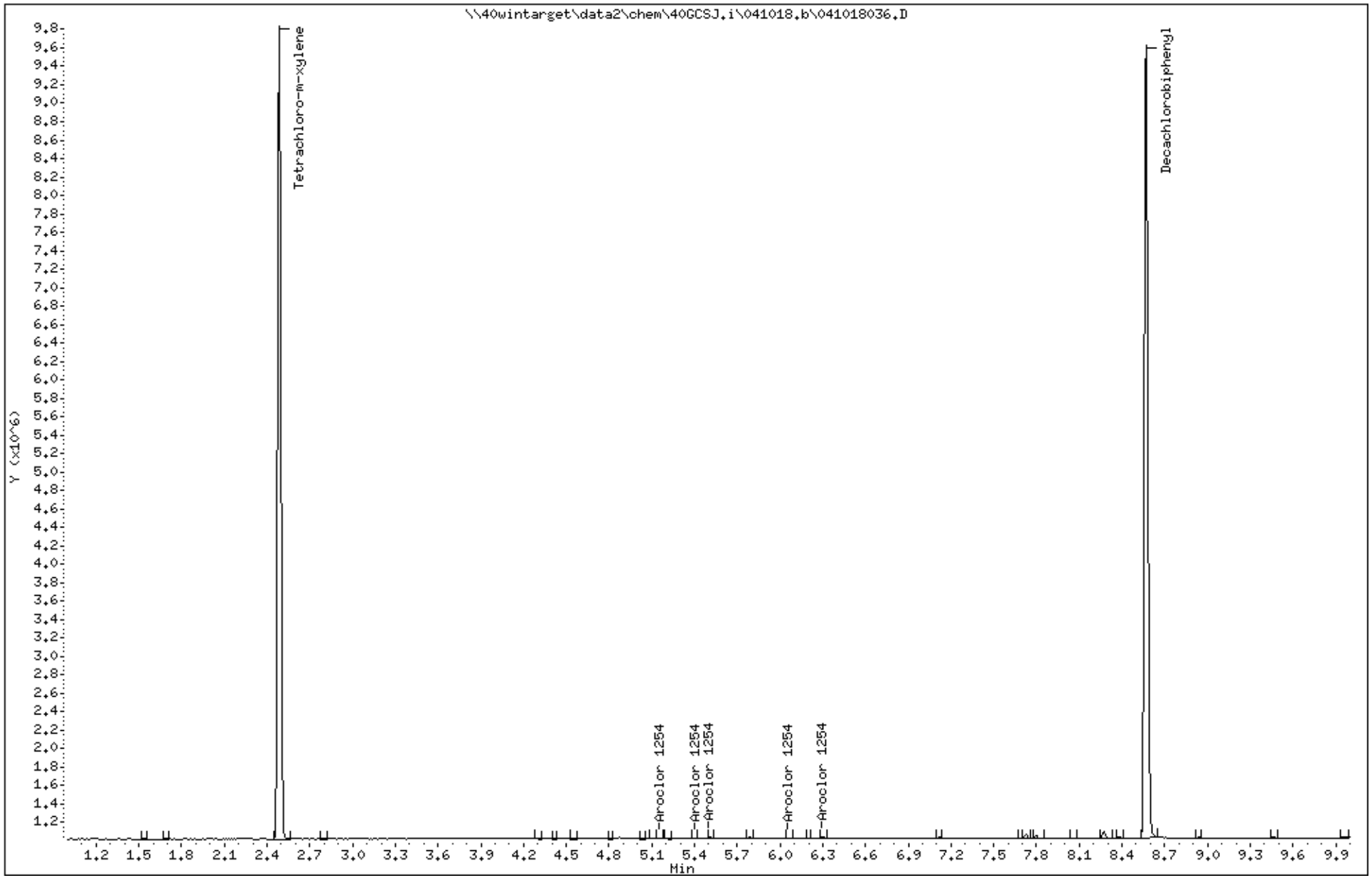
Sample Info: 1670714,

Volume Injected (uL): 1.0

Operator: BLM

Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b/041018036.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 10-APR-2018 21:46 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1670714

NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	0	0	
Aroclor 1016	0	0	
Aroclor 1016	0	0	
Aroclor 1016	0	0	
Aroclor 1016	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	0	0	
Aroclor 1232	0	0	
Aroclor 1232	0	0	
Aroclor 1232	0	0	
Aroclor 1232	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1248	0	0	
Aroclor 1248	0	0	
Aroclor 1248	0	0	
Aroclor 1248	0	0	
Aroclor 1248	0	0	
Aroclor 1254	0	0	
Aroclor 1254	0	0	
Aroclor 1254	0	0	
Aroclor 1254	0	0	
Aroclor 1254	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Tetrachloro-m-xylene	9386710	9386710	
Decachlorobiphenyl	10189828	10189828	

SAMPLE NO.

LCS

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTION M

Date Received:

Matrix: Tissue SDG No.: 40157825

Date Extracted: 04/09/2018 07:13

Lab Sample ID: 1670715

Date Analyzed: 04/10/2018 22:02

Lab File ID: 041018.B\041018037.D

Initial wt/vol: 10 g Final wt/vol: 5 mL Dilution: 1

Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<11.4	U
11104-28-2	PCB-1221 (Aroclor 1221)	<11.4	U
11141-16-5	PCB-1232 (Aroclor 1232)	<11.4	U
53469-21-9	PCB-1242 (Aroclor 1242)	220	
12672-29-6	PCB-1248 (Aroclor 1248)	<11.4	U
11097-69-1	PCB-1254 (Aroclor 1254)	<11.4	U
11096-82-5	PCB-1260 (Aroclor 1260)	<11.4	U

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018037.D
Lab Smp Id: 1670715 Client Smp ID: MBLCS
Inj Date : 10-APR-2018 22:02
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1670715,
Misc Info : 17645,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 17-Apr-2018 14:35 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 37 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndV

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.000	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.187	11146	9052	0.812	0.02		
1.255	9906	6984	0.705	0.02		
1.807	16608	12646	0.761	0.03		
2.197	44263	23138	0.523	0.10		
2.405	110482	80577	0.729	0.25		
2.484	9324414	8781561	0.942	21.82	$ 2 Tetrachloro-m-xylene	
2.686	161559	127226	0.787	0.37		
2.789	198833	179835	0.904	0.46		
2.850	865207	782788	0.905	2.02		
3.055	110967	98904	0.891	0.25		
3.276	20220	17037	0.843	0.04		
3.317	1105478	1013036	0.916	2.58	3 Aroclor 1242	BA
3.343	638001	583208	0.914	1.49		
3.434	183912	157368	0.856	0.43		
3.513	1094863	787310	0.719	2.56	3 Aroclor 1242	BA
3.641	23868	14982	0.628	0.05		
3.697	34599	32024	0.926	0.08		
3.732	283812	280776	0.989	0.66		
3.755	194012	180051	0.928	0.45		
3.826	3183562	1803633	0.567	7.45	3 Aroclor 1242	BA
3.929	1358330	1101347	0.811	3.17	3 Aroclor 1242	BA
3.994	895587	826736	0.923	2.09	3 Aroclor 1242	BA
4.058	242258	220700	0.911	0.56		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.136	100975	89579	0.887	0.23	
4.215	737623	693622	0.940	1.72	
4.260	700429	652814	0.932	1.63	
4.292	277158	292837	1.057	0.64	
4.310	374363	320539	0.856	0.87	
4.369	28642	18805	0.657	0.06	
4.417	974606	916552	0.940	2.28	
4.451	754945	548825	0.727	1.76	
4.545	1257756	1117825	0.889	2.94	
4.618	291776	260315	0.892	0.68	
4.677	22716	17171	0.756	0.05	
4.727	65248	53410	0.819	0.15	
4.767	70370	65477	0.930	0.16	
4.812	567549	545566	0.961	1.32	
4.847	1011159	947790	0.937	2.36	
4.879	1293910	943365	0.729	3.02	
4.959	145297	108591	0.747	0.34	
5.037	1067927	942332	0.882	2.50	
5.099	222992	166158	0.745	0.52	
5.162	256510	223421	0.871	0.60	
5.212	188250	163372	0.868	0.44	
5.279	19108	16389	0.858	0.04	
5.306	42170	38323	0.909	0.09	
5.362	162457	136306	0.839	0.38	
5.405	269294	221232	0.822	0.63	
5.444	168149	142550	0.848	0.39	
5.508	449504	327588	0.729	1.05	
5.604	141281	110473	0.782	0.33	
5.676	19389	15491	0.799	0.04	
5.717	25750	20038	0.778	0.06	
5.741	34688	29967	0.864	0.08	
5.792	308549	222139	0.720	0.72	
5.887	35451	27169	0.766	0.08	
6.024	273380	194887	0.713	0.63	
6.168	24254	17566	0.724	0.05	
6.298	56956	49858	0.875	0.13	
6.506	10423	10387	0.997	0.02	
6.538	11688	13976	1.196	0.02	
6.717	15147	11323	0.748	0.03	
6.758	9244	7851	0.849	0.02	
6.804	15054	11683	0.776	0.03	
7.008	24217	16285	0.672	0.05	
7.118	14883	12456	0.837	0.03	
7.384	10307	8991	0.872	0.02	
7.687	12279	10170	0.828	0.02	
7.727	48047	42089	0.876	0.11	
7.801	35091	30379	0.866	0.08	
8.274	91356	75948	0.831	0.21	
8.569	9866724	8470556	0.858	23.44	$ 12 Decachlorobiphenyl
	42716927	36501355		100.000	

Total unknown % area = 37

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018037.D
Lab Smp Id: 1670715 Client Smp ID: MBLCS
Inj Date : 10-APR-2018 22:02
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1670715,
Misc Info : 17645,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 17-Apr-2018 14:35 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 37 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndV

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.000	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	9324414	0.07563	38			
3 Aroclor 1242					CAS #: 53469-21-9			
3.317	3.318	-0.001	1105478	0.43640	220	0.00- 20.00	100.00(M)	BA
3.512	3.513	-0.001	1094863	0.43446	220	0.00- 20.00	99.04	BA
3.825	3.827	-0.002	3183561	0.44735	220	0.00- 20.00	287.98	BA
3.929	3.929	0.000	1358329	0.44659	220	0.00- 20.00	122.87	BA
3.993	3.995	-0.002	895587	0.43735	220	0.00- 20.00	81.01	BA
Average of Peak Concentrations =					220			

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE

4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

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5 Aroclor 1016 CAS #: 12674-11-2

Operator disabled compound identification.

---

6 Aroclor 1248 CAS #: 12672-29-6

Operator disabled compound identification.

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7 Aroclor 1254 CAS #: 11097-69-1

Operator disabled compound identification.

---

8 Aroclor 1260 CAS #: 11096-82-5

Peaks not detected for Quant. or Qual. signal(s).

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

8.568	8.571	-0.003	9866723	0.09006		45

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018037.D

Date : 10-APR-2018 22:02

Client ID: MBLCS

Instrument: 40GCSJ.i

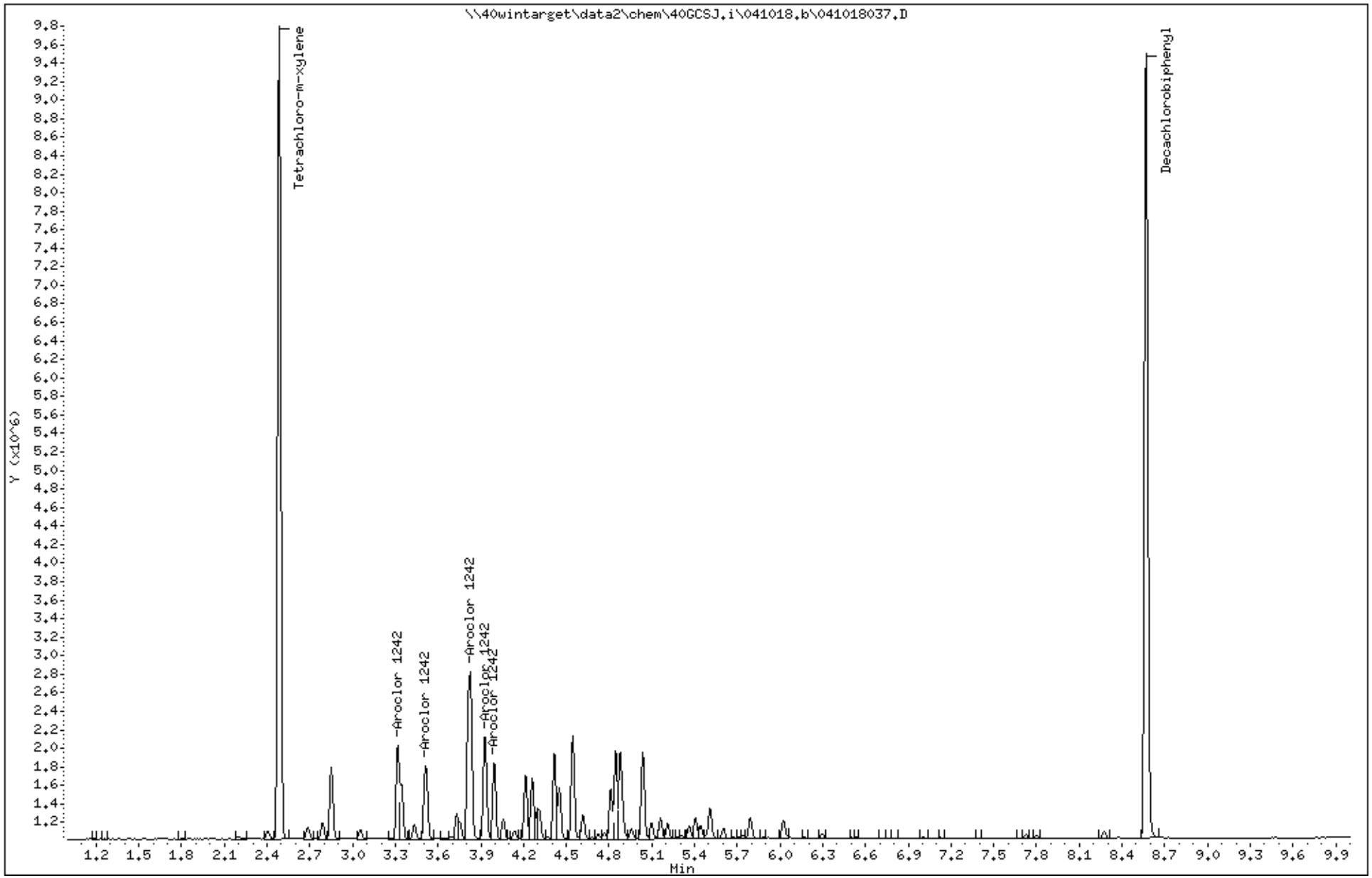
Sample Info: 1670715,

Volume Injected (uL): 1.0

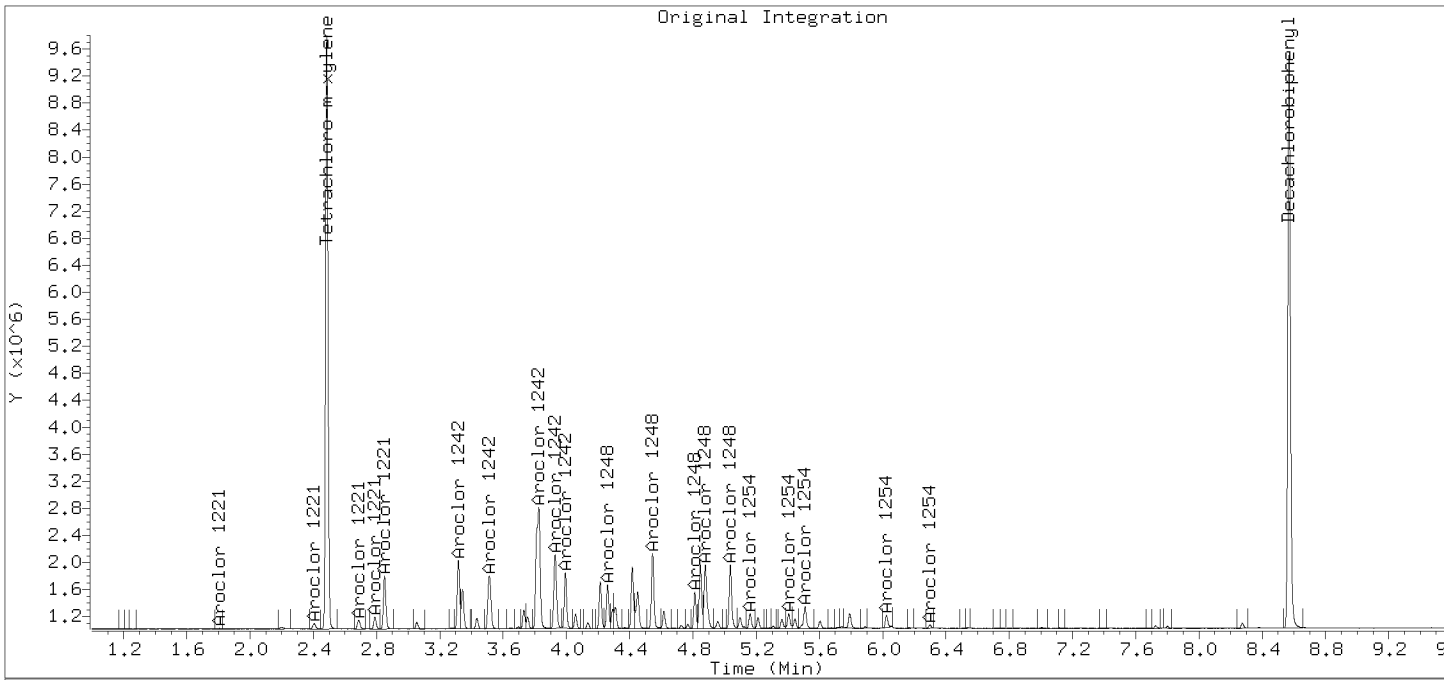
Operator: BLM

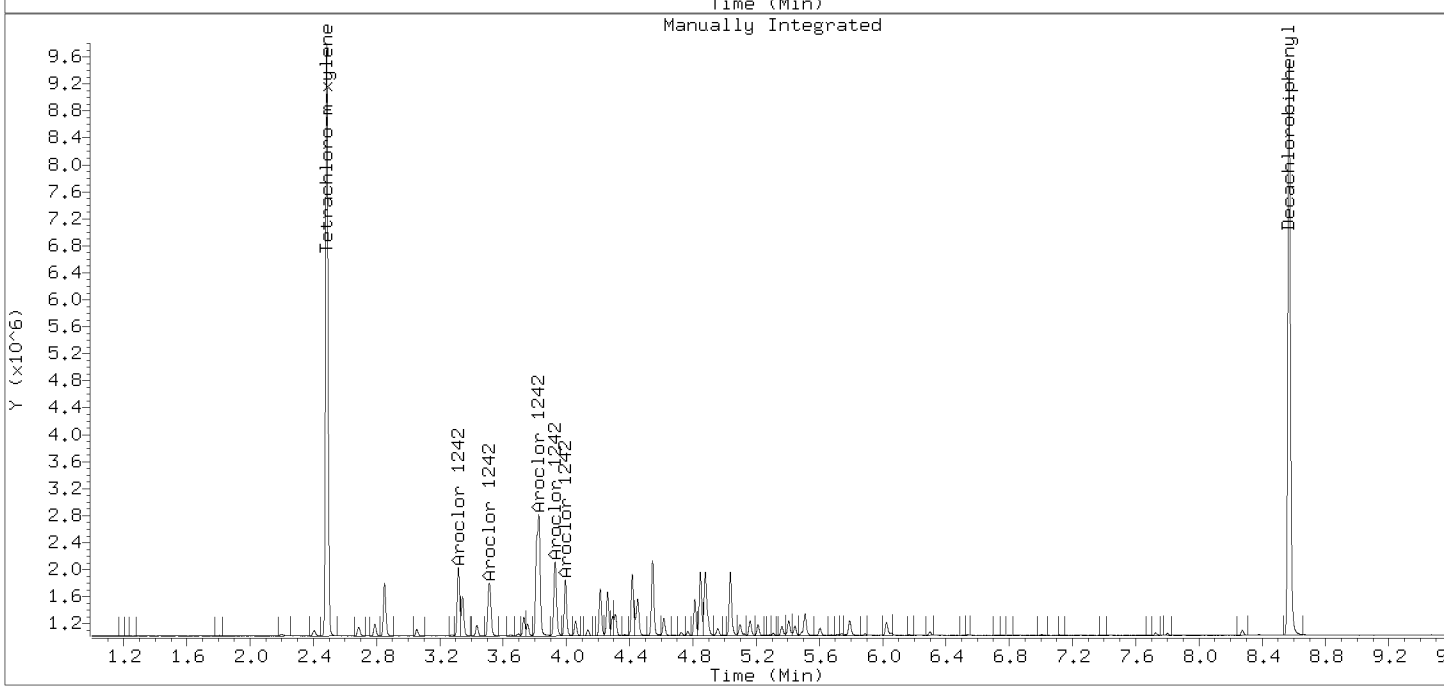
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b/041018037.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 10-APR-2018 22:02 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1670715





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1099252	0	
Aroclor 1016	1099252	0	
Aroclor 1016	1099252	0	
Aroclor 1016	1099252	0	
Aroclor 1016	1099252	0	
Aroclor 1221	16607	0	
Aroclor 1221	16607	0	
Aroclor 1221	16607	0	
Aroclor 1221	16607	0	
Aroclor 1221	16607	0	
Aroclor 1232	857981	0	
Aroclor 1232	857981	0	
Aroclor 1232	857981	0	
Aroclor 1232	857981	0	

Aroclor 1232	857981	0	
Aroclor 1242	1099252	1105478	BA
Aroclor 1242	1099252	1105478	BA
Aroclor 1242	1099252	1105478	BA
Aroclor 1242	1099252	1105478	BA
Aroclor 1242	1099252	1105478	BA
Aroclor 1248	690472	0	
Aroclor 1248	690472	0	
Aroclor 1248	690472	0	
Aroclor 1248	690472	0	
Aroclor 1248	690472	0	
Aroclor 1254	247081	0	
Aroclor 1254	247081	0	
Aroclor 1254	247081	0	
Aroclor 1254	247081	0	
Aroclor 1254	247081	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Tetrachloro-m-xylene	9324414	9324414	
Decachlorobiphenyl	9866723	9866723	

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Prep Log Report

Batch Information: OEXT 284454 PCB-B

Template Version: F-GB-O-113-Rev.05 (22Mar2018)

Prep Method	EPA 3541	Analysis Method	EPA 8082A Mod	Extracted By	AMC	Extracted Date/Time	03/28/2018 08:09:30:539
Spiked By	AMC	Spiked By Date/Time	03/28/2018 08:09:31:564	Witnessed By	ETB	Witnessed By Date/Time	03/28/2018 08:09:35:108
Instrument	40BALL	Conc. Temp #1	40	Conc. Temp #2	40	Methylene Chloride	None Added
Hexane/Acetone 1:1	192488	Hexane	188917	Sodium Sulfate	190953	Florisil	186910
3620B Date/Initials	03/29/18 ETB	H2SO4 - Conc.	179360	Acid 3665A Date/Initials	03/29/18 ETB	Tuna	None Added
Reviewed By	BLM	Reviewed By Date	04/06/2018 08:50	Batch Notes			

Sample Information:

QC Rule	Sample Type	Lab Sample ID	Initial Weight (g)	Final Volume (mL)	Volume Delivered (mL)	Sample Notes	8081-SS (mL)	AR1242-SPK (mL)
8082A TNYP	BLANK	**1664793**	10	5	3		189973 (.25)	
8082A TNYP	LCS	**1664794**	10	5	3		189973 (.25)	182336 (.125)
8082A TNYP	PS	**40151549001**	10.0051	5	3		189973 (.25)	
8082A TNYP	PS	**40151601001**	10.0134	5	3		189973 (.25)	
8082A TNYP	PS	**40151613001**	9.9785	5	3		189973 (.25)	
8082A TNYP	MS	**1664795**	9.9787	5	3		189973 (.25)	182336 (.125)
8082A TNYP	DUP	**1664796**	9.9864	5	3		189973 (.25)	
8082A TNYP	PS	**40151613002**	9.9976	5	3		189973 (.25)	
8082A TNYP	PS	**40151614002**	10.0031	5	3		189973 (.25)	
8082A TNYP	PS	**40151614003**	9.9906	5	3		189973 (.25)	
8082A TNYP	PS	**40151614004**	9.986	5	3		189973 (.25)	
8082A TNYP	PS	**40151613014**	10	5	3		189973 (.25)	
8082A TNYP	PS	**40151800005**	10.0085	5	3		189973 (.25)	
8082A TNYP	PS	**40151802001**	9.9815	5	3		189973 (.25)	
8082A TNYP	PS	**40151802002**	9.994	5	2.5	1*	189973 (.25)	
8082A TNYP	PS	**40151802003**	9.9604	5	3		189973 (.25)	

Prep Log Report

QC Rule	Sample Type	Lab Sample ID	Initial Weight (g)	Final Volume (mL)	Volume Delivered (mL)	Sample Notes	8081-SS (mL)	AR1242-SPK (mL)
8082A TNYP	PS	**40151802004**	10.0221	5	3		189973 (.25)	
8082A TNYP	PS	**40151802005**	9.9766	5	3		189973 (.25)	
8082A TNYP	PS	**40151805001**	10.0137	5	3		189973 (.25)	
8082A TNYP	PS	**40157825001**	9.9773	5	3		189973 (.25)	
8082A TNYP	DUP	**1664809**	10.019	5	3		189973 (.25)	

Sample Notes:

1*: An extra half a mL was added to the lipids tin so the delivered volumes is 0.5mL lower than usual. AMC 4/6/18

Standard Notes:

182336: Ar1242 Spike @20ug/mL 40GCS9. **189973: Pest/PCB Surrogate Spike 40GCSC.**

Prep Log Report

Batch Information: OEXT 284601 PCB-B

Template Version: F-GB-O-113-Rev.05 (22Mar2018)

Prep Method	EPA 3541	Analysis Method	EPA 8082A Mod	Extracted By	AMC	Extracted Date/Time	03/29/2018 07:15:36:252
Spiked By	AMC	Spiked By Date/Time	03/29/2018 07:15:37:899	Witnessed By	ETB	Witnessed By Date/Time	03/29/2018 07:15:39:516
Instrument	40BALL	Conc. Temp #1	40	Conc. Temp #2	40	Methylene Chloride	None Added
Hexane/Acetone 1:1	192488	Hexane	192551	Sodium Sulfate	190953	Florisil	186910
3620B Date/Initials	3/30/18 AMC	H2SO4 - Conc.	179363	Acid 3665A Date/Initials	3/30/18 AMC	Tuna	None Added
Reviewed By	BLM	Reviewed By Date	04/06/2018 14:05	Batch Notes			

Sample Information:

QC Rule	Sample Type	Lab Sample ID	Initial Weight (g)	Final Volume (mL)	Volume Delivered (mL)	Sample Notes	8081-SS (mL)	AR1242-SPK (mL)
8082A TNYP	BLANK	**1665641**	10	5	3		189973 (.25)	
8082A TNYP	LCS	**1665642**	10	5	3		189973 (.25)	192096 (.125)
8082A TNYP	PS	**40157488001**	10.0326	5	3		189973 (.25)	
8082A TNYP	PS	**40157488002**	10.0297	5	3		189973 (.25)	
8082A TNYP	PS	**40157488003**	10.0216	5	3		189973 (.25)	
8082A TNYP	PS	**40157488004**	10.0282	5	3		189973 (.25)	
8082A TNYP	RQS	**40157488005**	9.9729	5	3		189973 (.25)	
8082A TNYP	MS	**1665643**	9.9994	5	3		189973 (.25)	192096 (.125)
8082A TNYP	DUP	**1665644**	9.9916	5	3		189973 (.25)	
8082A TNYP	PS	**40157489001**	9.9618	5	3		189973 (.25)	
8082A TNYP	PS	**40157489002**	9.9852	5	3		189973 (.25)	
8082A TNYP	PS	**40157489003**	9.9744	5	3		189973 (.25)	
8082A TNYP	PS	**40157489004**	9.9863	5	3		189973 (.25)	
8082A TNYP	PS	**40157489005**	9.9736	5	3		189973 (.25)	
8082A TNYP	PS	**40157825002**	9.9859	5	3		189973 (.25)	
8082A TNYP	PS	**40157825003**	9.9633	5	3		189973 (.25)	

Prep Log Report

QC Rule	Sample Type	Lab Sample ID	Initial Weight (g)	Final Volume (mL)	Volume Delivered (mL)	Sample Notes	8081-SS (mL)	AR1242-SPK (mL)
8082A TNYP	PS	**40157825004**	10.0359	5	3		189973 (.25)	
8082A TNYP	PS	**40157825005**	9.9722	5	3		189973 (.25)	
8082A TNYP	RQS	**40157825006**	10.0264	5	3		189973 (.25)	
8082A TNYP	DUP	**1665645**	9.9927	5	3		189973 (.25)	
8082A TNYP	PS	**40157825007**	10.0166	5	3		189973 (.25)	
8082A TNYP	PS	**40157825008**	9.9926	5	3		189973 (.25)	
8082A TNYP	PS	**40157825009**	10.0203	5	3		189973 (.25)	
8082A TNYP	PS	**40157825010**	10.0283	5	3		189973 (.25)	

Standard Notes:

189973: Pest/PCB Surrogate Spike 40GCSC. **192096: Ar1242 Spike @20ug/mL 40GCS9.**

Prep Log Report

Batch Information: OEXT 285467 PCB-B

Template Version: F-GB-O-113-Rev.05 (22Mar2018)

Prep Method	EPA 3541	Analysis Method	EPA 8082A Mod	Extracted By	AMC	Extracted Date/Time	04/09/2018 07:13:41:515
Spiked By	AMC	Spiked By Date/Time	04/09/2018 07:13:44:035	Witnessed By	ETB	Witnessed By Date/Time	04/09/2018 07:13:50:643
Instrument	40BALL	Conc. Temp #1	40	Conc. Temp #2	40	Methylene Chloride	None Added
Hexane/Acetone 1:1	193046	Hexane	192551	Sodium Sulfate	192814	Florisil	186910
3620B Date/Initials	04/10/18 AMC	H2SO4 - Conc.	179363	Acid 3665A Date/Initials	04/10/18 AMC	Tuna	None Added
Reviewed By	BLM	Reviewed By Date	04/17/2018 14:35	Batch Notes			

Sample Information:

QC Rule	Sample Type	Lab Sample ID	Initial Weight (g)	Final Volume (mL)	Volume Delivered (mL)	Sample Notes	8081-SS (mL)	AR1242-SPK (mL)
8082A TNYP	BLANK	**1670714**	10	5	3		189973 (.25)	
8082A TNYP	LCS	**1670715**	10	5	3		189973 (.25)	192096 (.125)
8082A TNYP	PS	**40157487001**	10.0248	5	3		189973 (.25)	
8082A TNYP	PS	**40157487002**	9.9771	5	3		189973 (.25)	
8082A TNYP	PS	**40157487003**	9.9838	5	3		189973 (.25)	
8082A TNYP	PS	**40157487004**	10.0118	5	3		189973 (.25)	
8082A TNYP	PS	**40157487005**	10.0301	5	3		189973 (.25)	
8082A TNYP	PS	**40157487006**	9.9981	5	3		189973 (.25)	
8082A TNYP	PS	**40157487007**	10.0132	5	3		189973 (.25)	
8082A TNYP	PS	**40157487008**	9.9774	5	3		189973 (.25)	
8082A TNYP	PS	**40157487009**	10.0287	5	3		189973 (.25)	
8082A TNYP	PS	**40157487010**	10.0176	5	3		189973 (.25)	
8082A TNYP	PS	**40157492001**	10.0003	5	3		189973 (.25)	
8082A TNYP	PS	**40157492002**	10.0071	5	3		189973 (.25)	
8082A TNYP	PS	**40157492003**	10.0221	5	3		189973 (.25)	
8082A TNYP	PS	**40157492004**	9.9887	5	3		189973 (.25)	

Prep Log Report

QC Rule	Sample Type	Lab Sample ID	Initial Weight (g)	Final Volume (mL)	Volume Delivered (mL)	Sample Notes	8081-SS (mL)	AR1242-SPK (mL)
8082A TNYP	PS	**40157825011**	10.0369	5	3		189973 (.25)	
8082A TNYP	PS	**40157832001**	9.9883	5	3		189973 (.25)	
8082A TNYP	PS	**40157832002**	9.9987	5	3		189973 (.25)	
8082A TNYP	RQS	**40157832003**	9.9981	5	3		189973 (.25)	
8082A TNYP	MS	**1670716**	9.9831	5	3		189973 (.25)	192096 (.125)
8082A TNYP	DUP	**1670717**	9.9901	5	3		189973 (.25)	
8082A TNYP	PS	**40157832004**	10.0274	5	3		189973 (.25)	
8082A TNYP	PS	**40157832005**	10.0372	5	3		189973 (.25)	

Standard Notes:

189973: Pest/PCB Surrogate Spike 40GCSC. **192096: Ar1242 Spike @20ug/mL 40GCS9.**

```
   Sequence Name: C:\msdchem\1\sequence\033018.s
         Comment:
        Operator:
       Data Path: C:\MSDCHEM\1\DATA\033018\
Instrument Control  Pre-Seq Cmd:
Data Analysis       Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis      Post-Seq Cmd:

    Method Sections To Run       Sequence Barcode Options
    (X) Full Method              (X) On Mismatch, Inject Anyway
    ( ) Reprocessing Only        ( ) On Mismatch, Don't Inject
                                 ( ) Barcode Disabled
   ---------------------------------------------------------------------
   Line                    Sample Name/Misc Info
 1) RearSamp        1  HEXANE
     Datafile          --------
     Method            SCREEN2014
 2) Sample          2  HEXANE
     Datafile          --------
     Method            SCREEN2014
 3) RearSamp        3  1664793MB
     Datafile          --------
     Method            SCREEN2014
 4) Sample          4  1664794LCS
     Datafile          --------
     Method            SCREEN2014
 5) RearSamp        5  1664795MS —
     Datafile          --------
     Method            SCREEN2014
 6) Sample          6  40151549-001 x3
     Datafile          --------
     Method            SCREEN2014
 7) RearSamp        7  40151601-001 —
     Datafile          --------
     Method            SCREEN2014
 8) Sample          8  40151613-001 —
     Datafile          --------
     Method            SCREEN2014
 9) RearSamp        9  1664796DUP —
     Datafile          --------
     Method            SCREEN2014
10) Sample         10  40151613-002 —
     Datafile          --------
     Method            SCREEN2014
11) RearSamp       11  40151614-002 x2
     Datafile          --------
     Method            SCREEN2014
12) Sample         12  40151614-003 x3
     Datafile          --------
     Method            SCREEN2014
13) RearSamp       13  40151614-004 —
     Datafile          --------
     Method            SCREEN2014
14) Sample         14  40151613-014 —
     Datafile          --------
     Method            SCREEN2014
15) RearSamp       15  40151800-005 —
     Datafile          --------
     Method            SCREEN2014
16) Sample         16  40151802-001 —
     Datafile          --------
     Method            SCREEN2014
17) RearSamp       17  40151802-002 —
     Datafile          --------
     Method            SCREEN2014
18) Sample         18  40151802-003 —
     Datafile          --------
     Method            SCREEN2014
19) RearSamp       19  40151802-004 —
     Datafile          --------

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```
      Method              SCREEN2014
20) Sample          20  40151802-005
      Datafile            --------
      Method              SCREEN2014
21) RearSamp        21  40151805-001
      Datafile            --------
      Method              SCREEN2014
22) Sample          22  40157825-001
      Datafile            --------
      Method              SCREEN2014
23) RearSamp        23  1664809DUP
      Datafile            --------
      Method              SCREEN2014
24) Sample          24  HEXANE
      Datafile            --------
      Method              SCREEN2014
25) RearSamp        25  40166572-014
      Datafile            --------
      Method              SCREEN2014
26) Sample          26  40166575-010
      Datafile            --------
      Method              SCREEN2014
27) RearSamp        27  40166548-002 X1000
      Datafile            --------
      Method              SCREEN2014
28) Sample          28  1666113MS
      Datafile            --------
      Method              SCREEN2014
29) RearSamp        29  1666114DUP
      Datafile            --------
      Method              SCREEN2014
30) Sample          30  40166571-015
      Datafile            --------
      Method              SCREEN2014
31) RearSamp        31  40166568-002
      Datafile            --------
      Method              SCREEN2014
32) Sample          32  40166568-004
      Datafile            --------
      Method              SCREEN2014
33) RearSamp        33  40166568-005
      Datafile            --------
      Method              SCREEN2014
34) Sample          34  40166568-006
      Datafile            --------
      Method              SCREEN2014
35) RearSamp        35  40166568-007
      Datafile            --------
      Method              SCREEN2014
36) Sample          36  40166568-008
      Datafile            --------
      Method              SCREEN2014
37) RearSamp        37  40166568-009
      Datafile            --------
      Method              SCREEN2014
38) Sample          38  40166568-010
      Datafile            --------
      Method              SCREEN2014
39) RearSamp        39  40166568-011
      Datafile            --------
      Method              SCREEN2014
40) Sample          40  40166568-012
      Datafile            --------
      Method              SCREEN2014
41) RearSamp        41  40166568-013
      Datafile            --------
      Method              SCREEN2014
42) Sample          42  40166568-014
      Datafile            --------
      Method              SCREEN2014
43) RearSamp        43  40166568-016
      Datafile            --------
```

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Bryan Mayl — Signed — 4/3/18 Date

Dawn Nagy — Signed — 4-3-18 Date

Sequence Name: C:\msdchem\1\sequence\033018.s

Line	Type	Vial	DataFile	Method	Sample Name
44)	Sample	44	40166568-017		
	Datafile		--------		
	Method			SCREEN2014	
45)	RearSamp	45	40166568-018		
	Datafile		--------		
	Method			SCREEN2014	
46)	Sample	46	40166568-019		
	Datafile		--------		
	Method			SCREEN2014	
47)	RearSamp	47	40166568-020		
	Datafile		--------		
	Method			SCREEN2014	
48)	Sample	48	HEXANE		
	Datafile		--------		
	Method			SCREEN2014	
49)	RearSamp	49	40166548-002 X100		
	Datafile		--------		
	Method			SCREEN2014	
50)	Sample	50	1665641MB		
	Datafile		--------		
	Method			SCREEN2014	
51)	RearSamp	51	1665642LCS		
	Datafile		--------		
	Method			SCREEN2014	
52)	Sample	52	1665643MS × 2		
	Datafile		--------		
	Method			SCREEN2014	
53)	RearSamp	53	40157488-001 —		
	Datafile		--------		
	Method			SCREEN2014	
54)	Sample	54	40157488-002 × 2		
	Datafile		--------		
	Method			SCREEN2014	
55)	RearSamp	55	40157488-003 —		
	Datafile		--------		
	Method			SCREEN2014	
56)	Sample	56	40157488-004 × 3		
	Datafile		--------		
	Method			SCREEN2014	
57)	RearSamp	57	40157488-005P —		
	Datafile		--------		
	Method			SCREEN2014	
58)	Sample	58	1665644DUP —		
	Datafile		--------		
	Method			SCREEN2014	
59)	RearSamp	59	40157489-001 —		
	Datafile		--------		
	Method			SCREEN2014	
60)	Sample	60	40157489-002 —		
	Datafile		--------		
	Method			SCREEN2014	
61)	RearSamp	61	40157489-003 —		
	Datafile		--------		
	Method			SCREEN2014	
62)	Sample	62	40157489-004 —		
	Datafile		--------		
	Method			SCREEN2014	
63)	RearSamp	63	40157489-005 ×2		
	Datafile		--------		
	Method			SCREEN2014	
64)	Sample	64	40157825-002 —		
	Datafile		--------		
	Method			SCREEN2014	
65)	RearSamp	65	40157825-003 —		
	Datafile		--------		
	Method			SCREEN2014	
66)	Sample	66	40157825-004 —		
	Datafile		--------		

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```
      Method                SCREEN2014
67) RearSamp        67  40157825-005 —
      Datafile            --------
      Method                SCREEN2014
68) Sample          68  40157825-006 —
      Datafile            --------
      Method                SCREEN2014
69) RearSamp        69  1665645DUP —
      Datafile            --------
      Method                SCREEN2014
70) Sample          70  40157825-007 ×2
      Datafile            --------
      Method                SCREEN2014
71) RearSamp        71  40157825-008 ×3
      Datafile            --------
      Method                SCREEN2014
72) Sample          72  40157825-009 ×5
      Datafile            --------
      Method                SCREEN2014
73) RearSamp        73  40157825-010 —
      Datafile            --------
      Method                SCREEN2014
74) Sample          74  HEXANE
      Datafile            --------
      Method                SCREEN2014
```

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PROJECT 40GCSI Screener 04/10/18

Notebook No. 4418

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```
   Sequence Name: C:\msdchem\1\sequence\041018.s
         Comment:
        Operator:
       Data Path: C:\MSDCHEM\1\DATA\041018\
Instrument Control  Pre-Seq Cmd:
Data Analysis       Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis      Post-Seq Cmd:

    Method Sections To Run       Sequence Barcode Options
    (X) Full Method              (X) On Mismatch, Inject Anyway
    ( ) Reprocessing Only        ( ) On Mismatch, Don't Inject
                                 ( ) Barcode Disabled
   ---------------------------------------------------------------------
   Line                    Sample Name/Misc Info
 1) RearSamp        1  HEXANE
     Datafile          --------
     Method            SCREEN2014
 2) Sample          2  HEXANE
     Datafile          --------
     Method            SCREEN2014
 3) RearSamp        3  1670714MB
     Datafile          --------
     Method            SCREEN2014
 4) Sample          4  1670715LCS
     Datafile          --------
     Method            SCREEN2014
 5) RearSamp        5  40157487-001 x2
     Datafile          --------
     Method            SCREEN2014
 6) Sample          6  40157487-002 x2
     Datafile          --------
     Method            SCREEN2014
 7) RearSamp        7  40157487-003 x2
     Datafile          --------
     Method            SCREEN2014
 8) Sample          8  40157487-004 —
     Datafile          --------
     Method            SCREEN2014
 9) RearSamp        9  40157487-005 x2
     Datafile          --------
     Method            SCREEN2014
10) Sample         10  40157487-006 —
     Datafile          --------
     Method            SCREEN2014
11) RearSamp       11  40157487-007 x2
     Datafile          --------
     Method            SCREEN2014
12) Sample         12  40157487-008 x4
     Datafile          --------
     Method            SCREEN2014
13) RearSamp       13  40157487-009 x4
     Datafile          --------
     Method            SCREEN2014
14) Sample         14  40157487-010 x2
     Datafile          --------
     Method            SCREEN2014
15) RearSamp       15  40157492-001 x3
     Datafile          --------
     Method            SCREEN2014
16) Sample         16  40157492-002 x2
     Datafile          --------
     Method            SCREEN2014
17) RearSamp       17  40157492-003 —
     Datafile          --------
     Method            SCREEN2014
18) Sample         18  40157492-004 x2
     Datafile          --------
     Method            SCREEN2014
19) RearSamp       19  40157825-011 —
     Datafile          --------

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```

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Bryan Megill — Signed — 4/11/18 — Date

Fini O'Conn — Signed — 4/11/18 — Date

```
      Method                SCREEN2014
20)   Sample        20      40157832-001 x2
      Datafile              --------
      Method                SCREEN2014
21)   RearSamp      21      40157832-002 —
      Datafile              --------
      Method                SCREEN2014
22)   Sample        22      40157832-003 x2
      Datafile              --------
      Method                SCREEN2014
23)   RearSamp      23      1670716MS  x2
      Datafile              --------
      Method                SCREEN2014
24)   Sample        24      1670717DUP x2
      Datafile              --------
      Method                SCREEN2014
25)   RearSamp      25      40157832-004 —
      Datafile              --------
      Method                SCREEN2014
26)   Sample        26      40157832-005 —
      Datafile              --------
      Method                SCREEN2014
```

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Beg Meyl 4/11/18 Signed Date

Jim O'Connor 4-11-18 Signed Date

PROJECT 40GCSJ/K 03/06/18

Notebook No. 4417

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```
    Sequence Name: C:\msdchem\1\sequence\030618.s
          Comment:
         Operator: BLM
        Data Path: C:\MSDCHEM\1\DATA\030618\
Instrument Control  Pre-Seq Cmd:
Data Analysis       Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis      Post-Seq Cmd:

    Method Sections To Run       Sequence Barcode Options
    (X) Full Method              (X) On Mismatch, Inject Anyway
    ( ) Reprocessing Only        ( ) On Mismatch, Don't Inject
                                 ( ) Barcode Disabled
   ---------------------------------------------------------------------
   Line                    Sample Name/Misc Info
 1)  Unlinked
 2) RearSamp        1  prime
     Datafile          030618001
     Method            GEBIOTA2017
 3) Sample          2  prime
     Datafile          030618002
     Method            GEBIOTA2017
 4) RearSamp        3  HEXANE
     Datafile          030618003
     Method            GEBIOTA2017
 5) Sample          4  HEXANE
     Datafile          030618004
     Method            GEBIOTA2017
 6) RearSamp        5  1232-CAL3S,185539:1,17499,NSA
     Datafile          030618005
     Method            GEBIOTA2017
 7) Sample          4  HEXANE
     Datafile          030618006
     Method            GEBIOTA2017
 8) RearSamp        6  1221-CAL1F,188138:1,17499,NSA
     Datafile          030618007
     Method            GEBIOTA2017
 9) Sample          5  1232-CAL3S,185539:1,17498,NSA
     Datafile          030618008
     Method            GEBIOTA2017
10) RearSamp        7  1221-CAL2F,188139:1,17499,NSA
     Datafile          030618009
     Method            GEBIOTA2017
11) Sample          6  1221-CAL1F,188138:1,17498,NSA
     Datafile          030618010
     Method            GEBIOTA2017
12) RearSamp        8  1221-CAL3F,185538:1,17499,NSA
     Datafile          030618011
     Method            GEBIOTA2017
13) Sample          7  1221-CAL2F,188139:1,17498,NSA
     Datafile          030618012
     Method            GEBIOTA2017
14) RearSamp        9  1221-CAL4F,188140:1,17499,NSA
     Datafile          030618013
     Method            GEBIOTA2017
15) Sample          8  1221-CAL3F,185538:1,17498,NSA
     Datafile          030618014
     Method            GEBIOTA2017
16) RearSamp       10  1221-CAL5F,188141:1,17499,NSA
     Datafile          030618015
     Method            GEBIOTA2017
17) Sample          9  1221-CAL4F,188140:1,17498,NSA
     Datafile          030618016
     Method            GEBIOTA2017
18) RearSamp       11  HEXANE
     Datafile          030618017
     Method            GEBIOTA2017
19) Sample         10  1221-CAL5F,188141:1,17498,NSA
     Datafile          030618018
     Method            GEBIOTA2017
20) RearSamp       12  1242-CAL1B,188132:1,17499,NSA

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```

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```
      Datafile          030618019
      Method            GEBIOTA2017
21) Sample        11    HEXANE
      Datafile          030618020
      Method            GEBIOTA2017
22) RearSamp      13    1242-CAL2B,185543:1,17499,NSA
      Datafile          030618021
      Method            GEBIOTA2017
23) Sample        12    1242-CAL1B,188132:1,17498,NSA
      Datafile          030618022
      Method            GEBIOTA2017
24) RearSamp      14    1242-CAL3B,185544:1,17499,NSA
      Datafile          030618023
      Method            GEBIOTA2017
25) Sample        13    1242-CAL2B,185543:1,17498,NSA
      Datafile          030618024
      Method            GEBIOTA2017
26) RearSamp      15    1242-CAL4B,185545:1,17499,NSA
      Datafile          030618025
      Method            GEBIOTA2017
27) Sample        14    1242-CAL3B,185544:1,17498,NSA
      Datafile          030618026
      Method            GEBIOTA2017
28) RearSamp      16    1242-CAL5B,185546:1,17499,NSA
      Datafile          030618027
      Method            GEBIOTA2017
29) Sample        15    1242-CAL4B,185545:1,17498,NSA
      Datafile          030618028
      Method            GEBIOTA2017
30) RearSamp      17    HEXANE
      Datafile          030618029
      Method            GEBIOTA2017
31) Sample        16    1242-CAL5B,185546:1,17498,NSA
      Datafile          030618030
      Method            GEBIOTA2017
32) RearSamp      18    1248-CAL1D,188134:1,17499,NSA
      Datafile          030618031
      Method            GEBIOTA2017
33) Sample        17    HEXANE
      Datafile          030618032
      Method            GEBIOTA2017
34) RearSamp      19    1248-CAL2D,185548:1,17499,NSA
      Datafile          030618033
      Method            GEBIOTA2017
35) Sample        18    1248-CAL1D,188134:1,17498,NSA
      Datafile          030618034
      Method            GEBIOTA2017
36) RearSamp      20    1248-CAL3D,185549:1,17499,NSA
      Datafile          030618035
      Method            GEBIOTA2017
37) Sample        19    1248-CAL2D,185548:1,17498,NSA
      Datafile          030618036
      Method            GEBIOTA2017
38) RearSamp      21    1248-CAL4D,185550:1,17499,NSA
      Datafile          030618037
      Method            GEBIOTA2017
39) Sample        20    1248-CAL3D,185549:1,17498,NSA
      Datafile          030618038
      Method            GEBIOTA2017
40) RearSamp      22    1248-CAL5D,185551:1,17499,NSA
      Datafile          030618039
      Method            GEBIOTA2017
41) Sample        21    1248-CAL4D,185550:1,17498,NSA
      Datafile          030618040
      Method            GEBIOTA2017
42) RearSamp      23    HEXANE
      Datafile          030618041
      Method            GEBIOTA2017
43) Sample        22    1248-CAL5D,185551:1,17498,NSA
      Datafile          030618042
      Method            GEBIOTA2017

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```

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Sequence Name: C:\msdchem\1\sequence\030618.s

	Line Type	Vial	DataFile	Method	Sample Name
44)	RearSamp	24	1254-CAL1C,188135:1,17499,NSA		
	Datafile		030618043		
	Method			GEBIOTA2017	
45)	Sample	23	HEXANE		
	Datafile		030618044		
	Method			GEBIOTA2017	
46)	RearSamp	25	1254-CAL2C,185553:1,17499,NSA		
	Datafile		030618045		
	Method			GEBIOTA2017	
47)	Sample	24	1254-CAL1C,188135:1,17498,NSA		
	Datafile		030618046		
	Method			GEBIOTA2017	
48)	RearSamp	26	1254-CAL3C,185554:1,17499,NSA		
	Datafile		030618047		
	Method			GEBIOTA2017	
49)	Sample	25	1254-CAL2C,185553:1,17498,NSA		
	Datafile		030618048		
	Method			GEBIOTA2017	
50)	RearSamp	27	1254-CAL4C,185555:1,17499,NSA		
	Datafile		030618049		
	Method			GEBIOTA2017	
51)	Sample	26	1254-CAL3C,185554:1,17498,NSA		
	Datafile		030618050		
	Method			GEBIOTA2017	
52)	RearSamp	28	1254-CAL5C,185556:1,17499,NSA		
	Datafile		030618051		
	Method			GEBIOTA2017	
53)	Sample	27	1254-CAL4C,185555:1,17498,NSA		
	Datafile		030618052		
	Method			GEBIOTA2017	
54)	RearSamp	29	HEXANE		
	Datafile		030618053		
	Method			GEBIOTA2017	
55)	Sample	28	1254-CAL5C,185556:1,17498,NSA		
	Datafile		030618054		
	Method			GEBIOTA2017	
56)	RearSamp	30	1660-CAL1A,188136:1,17499,AR1		
	Datafile		030618055		
	Method			GEBIOTA2017	
57)	Sample	29	HEXANE		
	Datafile		030618056		
	Method			GEBIOTA2017	
58)	RearSamp	31	1660-CAL2A,185558:1,17499,AR1		
	Datafile		030618057		
	Method			GEBIOTA2017	
59)	Sample	30	1660-CAL1A,188136:1,17498,AR1		
	Datafile		030618058		
	Method			GEBIOTA2017	
60)	RearSamp	32	1660-CAL3A,185559:1,17499,AR1		
	Datafile		030618059		
	Method			GEBIOTA2017	
61)	Sample	31	1660-CAL2A,185558:1,17498,AR1		
	Datafile		030618060		
	Method			GEBIOTA2017	
62)	RearSamp	33	1660-CAL4A,185560:1,17499,AR1		
	Datafile		030618061		
	Method			GEBIOTA2017	
63)	Sample	32	1660-CAL3A,185559:1,17498,AR1		
	Datafile		030618062		
	Method			GEBIOTA2017	
64)	RearSamp	34	1660-CAL5A,185561:1,17499,AR1		
	Datafile		030618063		
	Method			GEBIOTA2017	
65)	Sample	33	1660-CAL4A,185560:1,17498,AR1		
	Datafile		030618064		
	Method			GEBIOTA2017	
66)	RearSamp	35	HEXANE		
	Datafile		030618065		

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```
      Method                GEBIOTA2017
67) Sample          34  1660-CAL5A,185561:1,17498,AR1
      Datafile            030618066
      Method              GEBIOTA2017
68) RearSamp        36  1221-ICV,188142:1,17499,AR122
      Datafile            030618067
      Method              GEBIOTA2017
69) Sample          35  HEXANE
      Datafile            030618068
      Method              GEBIOTA2017
70) RearSamp        37  1242-ICV,185562:1,17499,AR124 ok
      Datafile            030618069
      Method              GEBIOTA2017
71) Sample          36  1221-ICV,188142:1,17498,AR122 ok
      Datafile            030618070
      Method              GEBIOTA2017
72) RearSamp        38  1248-ICV,185563:1,17499,AR124 ok
      Datafile            030618071
      Method              GEBIOTA2017
73) Sample          37  1242-ICV,185562:1,17498,AR124 ok
      Datafile            030618072
      Method              GEBIOTA2017
74) RearSamp        39  1254-ICV,185564:1,17499,AR125 ok
      Datafile            030618073
      Method              GEBIOTA2017
75) Sample          38  1248-ICV,185563:1,17498,AR124 ok
      Datafile            030618074
      Method              GEBIOTA2017
76) RearSamp        40  1660-ICV,185565:1,17499,AR166 ok
      Datafile            030618075
      Method              GEBIOTA2017
77) Sample          39  1254-ICV,185564:1,17498,AR125 ok
      Datafile            030618076
      Method              GEBIOTA2017
78) RearSamp        41  1221-CRDL,188138:1,17499,RL12 ok
      Datafile            030618077
      Method              GEBIOTA2017
79) Sample          40  1660-ICV,185565:1,17498,AR166 ok
      Datafile            030618078
      Method              GEBIOTA2017
80) RearSamp        42  1242-CRDL,188132:1,17499,RL12 ok
      Datafile            030618079
      Method              GEBIOTA2017
81) Sample          41  1221-CRDL,188138:1,17498,RL12 ok
      Datafile            030618080
      Method              GEBIOTA2017
82) RearSamp        43  1248-CRDL,188134:1,17499,RL12 ok
      Datafile            030618081
      Method              GEBIOTA2017
83) Sample          42  1242-CRDL,188132:1,17498,RL12 ok
      Datafile            030618082
      Method              GEBIOTA2017
84) RearSamp        44  1254-CRDL,188135:1,17499,RL12 ok
      Datafile            030618083
      Method              GEBIOTA2017
85) Sample          43  1248-CRDL,188134:1,17498,RL12 ok
      Datafile            030618084
      Method              GEBIOTA2017
86) RearSamp        45  1660-CRDL,188136:1,17499,RL16 ok
      Datafile            030618085
      Method              GEBIOTA2017
87) Sample          44  1254-CRDL,188135:1,17498,RL12 ok
      Datafile            030618086
      Method              GEBIOTA2017
88) RearSamp        46  HEXANE
      Datafile            030618087
      Method              GEBIOTA2017
89) Sample          45  1660-CRDL,188136:1,17498,RL16 ok
      Datafile            030618088
      Method              GEBIOTA2017

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```

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Continued on Page —

Read and Understood By

Signed: Bryan Meyer Date: 3/7/18 Signed: [illegible] Date: 3/7/18

```
    Sequence Name: C:\msdchem\1\sequence\033018.s
          Comment:
         Operator: BLM
        Data Path: C:\MSDCHEM\1\DATA\033018\
Instrument Control  Pre-Seq Cmd:
Data Analysis       Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis      Post-Seq Cmd:

    Method Sections To Run       Sequence Barcode Options
    (X) Full Method              (X) On Mismatch, Inject Anyway
    ( ) Reprocessing Only        ( ) On Mismatch, Don't Inject
                                 ( ) Barcode Disabled
   ---------------------------------------------------------------------
   Line                    Sample Name/Misc Info
 1) Sample          1  prime
     Datafile          033018001
     Method            GEBIOTA2017
 2) Sample          2  HEXANE
     Datafile          033018002
     Method            GEBIOTA2017
 3) Sample          3  HEXANE
     Datafile          033018003
     Method            GEBIOTA2017
 4) Sample          4  1232-CCV,185539:1,17498,AR123 ok
     Datafile          033018004
     Method            GEBIOTA2017
 5) Sample          5  1232-CCV,185539:1,17498,AR123 ok
     Datafile          033018005
     Method            GEBIOTA2017
 6) Sample          6  1662968 x40,,17575,BIOTA
     Datafile          033018006
     Method            GEBIOTA2017
 7) Sample          7  40151616010 x40,,17575,BIOTA
     Datafile          033018007
     Method            GEBIOTA2017
 8) Sample          8  40157828010 x10,,17584,BIOTA
     Datafile          033018008
     Method            GEBIOTA2017
 9) Sample          9  40157828019 x3,,17584,BIOTA
     Datafile          033018009
     Method            GEBIOTA2017
10) Sample         10  1664793,,17591,BIOTA
     Datafile          033018010
     Method            GEBIOTA2017
11) Sample         11  1664794,,17591,BIOTA
     Datafile          033018011
     Method            GEBIOTA2017
12) Sample         12  1664795,,17591,BIOTA
     Datafile          033018012
     Method            GEBIOTA2017
13) Sample         13  40151549001 x3,,17591,BIOTA
     Datafile          033018013
     Method            GEBIOTA2017
14) Sample         14  40151601001,,17591,BIOTA
     Datafile          033018014
     Method            GEBIOTA2017
15) Sample         15  40151613001,,17591,BIOTA
     Datafile          033018015
     Method            GEBIOTA2017
16) Sample         16  1242-CCV,185544:1,17498,AR124 ok
     Datafile          033018016
     Method            GEBIOTA2017
17) Sample         17  1242-CCV,185544:1,17498,AR124 ok
     Datafile          033018017
     Method            GEBIOTA2017
18) Sample         18  1664796,,17591,BIOTA
     Datafile          033018018
     Method            GEBIOTA2017
19) Sample         19  40151613002,,17591,BIOTA
     Datafile          033018019

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```

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Read and Understood By

Signed: Bryan Mayl — Date: 4/3/18

Signed: Dawn Haag — Date: 4-3-18

```
      Method              GEBIOTA2017
20) Sample          20  40151614002 x2,,17591,BIOTA
      Datafile            033018020
      Method              GEBIOTA2017
21) Sample          21  40151614003 x3,,17591,BIOTA
      Datafile            033018021
      Method              GEBIOTA2017
22) Sample          22  40151614004,,17591,BIOTA
      Datafile            033018022
      Method              GEBIOTA2017
23) Sample          23  40151613014,,17591,BIOTA
      Datafile            033018023
      Method              GEBIOTA2017
24) Sample          24  40151800005,,17591,BIOTA
      Datafile            033018024
      Method              GEBIOTA2017
25) Sample          25  40151802001,,17591,BIOTA
      Datafile            033018025
      Method              GEBIOTA2017
26) Sample          26  40151802002,,17591,BIOTA
      Datafile            033018026
      Method              GEBIOTA2017
27) Sample          27  40151802003,,17591,BIOTA
      Datafile            033018027
      Method              GEBIOTA2017
28) Sample          28  1248-CCV,185549:1,17498,AR124 ok
      Datafile            033018028
      Method              GEBIOTA2017
29) Sample          29  1248-CCV,185549:1,17498,AR124 ok
      Datafile            033018029
      Method              GEBIOTA2017
30) Sample          30  40151802004,,17591,BIOTA
      Datafile            033018030
      Method              GEBIOTA2017
31) Sample          31  40151802005,,17591,BIOTA
      Datafile            033018031
      Method              GEBIOTA2017
32) Sample          32  40151805001,,17591,BIOTA
      Datafile            033018032
      Method              GEBIOTA2017
33) Sample          33  40157825001,,17591,BIOTA
      Datafile            033018033
      Method              GEBIOTA2017
34) Sample          34  1664809,,17591,BIOTA
      Datafile            033018034
      Method              GEBIOTA2017
35) Sample          35  1665641,,17602,BIOTA
      Datafile            033018035
      Method              GEBIOTA2017
36) Sample          36  1665642,,17602,BIOTA
      Datafile            033018036
      Method              GEBIOTA2017
37) Sample          37  1665643 x2,,17602,BIOTA
      Datafile            033018037
      Method              GEBIOTA2017
38) Sample          38  40157488001,,17602,BIOTA
      Datafile            033018038
      Method              GEBIOTA2017
39) Sample          39  40157488002 x2,,17602,BIOTA
      Datafile            033018039
      Method              GEBIOTA2017
40) Sample          40  1254-CCV,185554:1,17498,AR125 ok
      Datafile            033018040
      Method              GEBIOTA2017
41) Sample          41  1254-CCV,185554:1,17498,AR125 ok
      Datafile            033018041
      Method              GEBIOTA2017
42) Sample          42  40157488003,,17602,BIOTA
      Datafile            033018042
      Method              GEBIOTA2017
43) Sample          43  40157488004 x3,,17602,BIOTA
      Datafile            033018043

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```

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Read and Understood By

Signed 4/3/18 Date Signed 4-3-18 Date

Sequence Name: C:\msdchem\1\sequence\033018.s

	Line Type	Vial	DataFile	Method	Sample Name
44)	Sample	44	40157488005,,17602,BIOTA		
	Datafile		033018044		
	Method			GEBIOTA2017	
45)	Sample	45	1665644,,17602,BIOTA		
	Datafile		033018045		
	Method			GEBIOTA2017	
46)	Sample	46	40157489001,,17602,BIOTA		
	Datafile		033018046		
	Method			GEBIOTA2017	
47)	Sample	47	40157489002,,17602,BIOTA		
	Datafile		033018047		
	Method			GEBIOTA2017	
48)	Sample	48	40157489003,,17602,BIOTA		
	Datafile		033018048		
	Method			GEBIOTA2017	
49)	Sample	49	40157489004,,17602,BIOTA		
	Datafile		033018049		
	Method			GEBIOTA2017	
50)	Sample	50	40157489005 x2,,17602,BIOTA		
	Datafile		033018050		
	Method			GEBIOTA2017	
51)	Sample	51	40157825002,,17602,BIOTA		
	Datafile		033018051		
	Method			GEBIOTA2017	
52)	Sample	52	1660-CCV,185559:1,17498,AR166 OK		
	Datafile		033018052		
	Method			GEBIOTA2017	
53)	Sample	53	1660-CCV,185559:1,17498,AR166 OK		
	Datafile		033018053		
	Method			GEBIOTA2017	
54)	Sample	54	40157825003,,17602,BIOTA		
	Datafile		033018054		
	Method			GEBIOTA2017	
55)	Sample	55	40157825004,,17602,BIOTA		
	Datafile		033018055		
	Method			GEBIOTA2017	
56)	Sample	56	40157825005,,17602,BIOTA RS x2		
	Datafile		033018056		
	Method			GEBIOTA2017	
57)	Sample	57	40157825006,,17602,BIOTA		
	Datafile		033018057		
	Method			GEBIOTA2017	
58)	Sample	58	1665645,,17602,BIOTA		
	Datafile		033018058		
	Method			GEBIOTA2017	
59)	Sample	59	40157825007 x2,,17602,BIOTA		
	Datafile		033018059		
	Method			GEBIOTA2017	
60)	Sample	60	40157825008 x3,,17602,BIOTA		
	Datafile		033018060		
	Method			GEBIOTA2017	
61)	Sample	61	40157825009 x5,,17602,BIOTA		
	Datafile		033018061		
	Method			GEBIOTA2017	
62)	Sample	62	40157825010,,17602,BIOTA RS x2		
	Datafile		033018062		
	Method			GEBIOTA2017	
63)	Sample	63	1221-CCV,185538:1,17498,AR122 OK		
	Datafile		033018063		
	Method			GEBIOTA2017	
64)	Sample	64	1221-CCV,185538:1,17498,AR122 OK		
	Datafile		033018064		
	Method			GEBIOTA2017	

GCSV Batch 17591 HBN: 284630 AND 17602 HBN: 284746
Screened: 03/30/18 40GCSJ

Last Modified: Fri Mar 30 14:55:13 2018

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Read and Understood By

Bryan Meyl — Signed — 4/3/18 — Date

Dawn Haag — Signed — 4-3-18 — Date

```
     Sequence Name: C:\msdchem\1\sequence\040318.s
           Comment:
          Operator: BLM
         Data Path: C:\MSDCHEM\1\DATA\040318\
Instrument Control  Pre-Seq Cmd:
Data Analysis       Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis      Post-Seq Cmd:

    Method Sections To Run       Sequence Barcode Options
    (X) Full Method              (X) On Mismatch, Inject Anyway
    ( ) Reprocessing Only        ( ) On Mismatch, Don't Inject
                                 ( ) Barcode Disabled
   ---------------------------------------------------------------------
   Line                    Sample Name/Misc Info
 1) Sample          1  prime
     Datafile          040318001
     Method            GEBIOTA2017
 2) Sample          2  HEXANE
     Datafile          040318002
     Method            GEBIOTA2017
 3) Sample          3  HEXANE
     Datafile          040318003
     Method            GEBIOTA2017
 4) Sample          4  1660-CCV,185559:1,17498,AR166 ok
     Datafile          040318004
     Method            GEBIOTA2017
 5) Sample          5  1660-CCV,185559:1,17498,AR166 ok
     Datafile          040318005
     Method            GEBIOTA2017
 6) Sample          6  40157825005 x2,,17602,BIOTA
     Datafile          040318006
     Method            GEBIOTA2017
 7) Sample          7  40157825010 x2,,17602,BIOTA
     Datafile          040318007
     Method            GEBIOTA2017
 8) Sample          8  1667509,,17614,BIOTA
     Datafile          040318008
     Method            GEBIOTA2017
 9) Sample          9  1667510,,17614,BIOTA
     Datafile          040318009
     Method            GEBIOTA2017
10) Sample         10  40157822001 x10,,17614,BIOTA
     Datafile          040318010
     Method            GEBIOTA2017
11) Sample         11  40157822002 x10,,17614,BIOTA
     Datafile          040318011
     Method            GEBIOTA2017
12) Sample         12  40157822003 x4,,17614,BIOTA
     Datafile          040318012
     Method            GEBIOTA2017
13) Sample         13  40157822004 x4,,17614,BIOTA
     Datafile          040318013
     Method            GEBIOTA2017
14) Sample         14  40157822005 x4,,17614,BIOTA
     Datafile          040318014
     Method            GEBIOTA2017
15) Sample         15  40157822006 x10,,17614,BIOTA
     Datafile          040318015
     Method            GEBIOTA2017
16) Sample         16  1221-CCV,185538:1,17498,AR122 ok
     Datafile          040318016
     Method            GEBIOTA2017
17) Sample         17  1221-CCV,185538:1,17498,AR122 ok
     Datafile          040318017
     Method            GEBIOTA2017
18) Sample         18  40157822007 x5,,17614,BIOTA
     Datafile          040318018
     Method            GEBIOTA2017
19) Sample         19  40157822008 x10,,17614,BIOTA
     Datafile          040318019

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Read and Understood By

Bryan Meagl 4/4/18 Signed Date

Signed 4/4/18 Date

```
      Method                GEBIOTA2017
20) Sample          20  40157822009,,17614,BIOTA
      Datafile              040318020
      Method                GEBIOTA2017
21) Sample          21  40157822010 x3,,17614,BIOTA
      Datafile              040318021
      Method                GEBIOTA2017
22) Sample          22  40157822011 x10,,17614,BIOTA
      Datafile              040318022
      Method                GEBIOTA2017
23) Sample          23  40157822012 x10,,17614,BIOTA
      Datafile              040318023
      Method                GEBIOTA2017
24) Sample          24  40157822013 x3,,17614,BIOTA
      Datafile              040318024
      Method                GEBIOTA2017
25) Sample          25  40157822014 x10,,17614,BIOTA
      Datafile              040318025
      Method                GEBIOTA2017
26) Sample          26  40157822015 x2,,17614,BIOTA
      Datafile              040318026
      Method                GEBIOTA2017
27) Sample          27  40157822016 x5,,17614,BIOTA
      Datafile              040318027
      Method                GEBIOTA2017
28) Sample          28  1232-CCV,185539:1,17498,AR123 ok
      Datafile              040318028
      Method                GEBIOTA2017
29) Sample          29  1232-CCV,185539:1,17498,AR123 ok
      Datafile              040318029
      Method                GEBIOTA2017
30) Sample          30  40157822017 x2,,17614,BIOTA
      Datafile              040318030
      Method                GEBIOTA2017
31) Sample          31  1667511 x2,,17614,BIOTA
      Datafile              040318031
      Method                GEBIOTA2017
32) Sample          32  1667512 x2,,17614,BIOTA
      Datafile              040318032
      Method                GEBIOTA2017
33) Sample          33  40157822018,,17614,BIOTA
      Datafile              040318033
      Method                GEBIOTA2017
34) Sample          34  40157822019 x3,,17614,BIOTA
      Datafile              040318034
      Method                GEBIOTA2017
35) Sample          35  40157822020 x10,,17614,BIOTA
      Datafile              040318035
      Method                GEBIOTA2017
36) Sample          36  1242-CCV,185544:1,17498,AR124 ok
      Datafile              040318036
      Method                GEBIOTA2017
37) Sample          37  1242-CCV,185544:1,17498,AR124 ok
      Datafile              040318037
      Method                GEBIOTA2017
```

GCSV Batch #17614 HBN: 284984 Screened:
40GCSI 4/3/18

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Read and Understood By

Signed 4/4/18 Date Signed 4/4/18 Date

```
    Sequence Name: C:\msdchem\1\sequence\041018.s
          Comment:
         Operator: BLM
        Data Path: C:\MSDCHEM\1\DATA\041018\
Instrument Control  Pre-Seq Cmd:
Data Analysis       Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis      Post-Seq Cmd:

    Method Sections To Run       Sequence Barcode Options
    (X) Full Method              (X) On Mismatch, Inject Anyway
    ( ) Reprocessing Only        ( ) On Mismatch, Don't Inject
                                 ( ) Barcode Disabled
   ---------------------------------------------------------------------
   Line                    Sample Name/Misc Info
 1) Sample          1  prime
     Datafile          041018001
     Method            GEBIOTA2017
 2) Sample          2  HEXANE
     Datafile          041018002
     Method            GEBIOTA2017
 3) Sample          3  HEXANE
     Datafile          041018003
     Method            GEBIOTA2017
 4) Sample          4  1660-CCV,185559:1,17498,AR166 F
     Datafile          041018004
     Method            GEBIOTA2017
 5) Sample          5  1660-CCV,185559:1,17498,AR166 OK
     Datafile          041018005
     Method            GEBIOTA2017
 6) Sample          6  40157935001 x2,,17636,BIOTA
     Datafile          041018006
     Method            GEBIOTA2017
 7) Sample          7  40157935006 x2,,17636,BIOTA
     Datafile          041018007
     Method            GEBIOTA2017
 8) Sample          8  1669842,,17642,BIOTA
     Datafile          041018008
     Method            GEBIOTA2017
 9) Sample          9  1669843,,17642,BIOTA
     Datafile          041018009
     Method            GEBIOTA2017
10) Sample         10  40157703002,,17642,BIOTA
     Datafile          041018010
     Method            GEBIOTA2017
11) Sample         11  40157703003 x10,,17642,BIOTA
     Datafile          041018011
     Method            GEBIOTA2017
12) Sample         12  40157703004 x3,,17642,BIOTA
     Datafile          041018012
     Method            GEBIOTA2017
13) Sample         13  40157703006,,17642,BIOTA
     Datafile          041018013
     Method            GEBIOTA2017
14) Sample         14  40157703007,,17642,BIOTA
     Datafile          041018014
     Method            GEBIOTA2017
15) Sample         15  40157703008 x2,,17642,BIOTA
     Datafile          041018015
     Method            GEBIOTA2017
16) Sample         16  1221-CCV,185538:1,17498,AR122 OK
     Datafile          041018016
     Method            GEBIOTA2017
17) Sample         17  1221-CCV,185538:1,17498,AR122 OK
     Datafile          041018017
     Method            GEBIOTA2017
18) Sample         18  40157703009 x5,,17642,BIOTA
     Datafile          041018018
     Method            GEBIOTA2017
19) Sample         19  40157703010 x5,,17642,BIOTA
     Datafile          041018019

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Read and Understood By

Signed: [signature] Date: 4/11/18

Signed: [signature] Date: 4-11-18

```
      Method          GEBIOTA2017
20) Sample      20  40157703011 x2,,17642,BIOTA
      Datafile        041018020
      Method          GEBIOTA2017
21) Sample      21  40157703012 x3,,17642,BIOTA RS
      Datafile        041018021
      Method          GEBIOTA2017
22) Sample      22  40157703013 x3,,17642,BIOTA
      Datafile        041018022
      Method          GEBIOTA2017
23) Sample      23  40157703014 x2,,17642,BIOTA
      Datafile        041018023
      Method          GEBIOTA2017
24) Sample      24  40157703015 x15,,17642,BIOTA
      Datafile        041018024
      Method          GEBIOTA2017
25) Sample      25  40157703016 x5,,17642,BIOTA
      Datafile        041018025
      Method          GEBIOTA2017
26) Sample      26  40157703017,,17642,BIOTA
      Datafile        041018026
      Method          GEBIOTA2017
27) Sample      27  40157703018 x10,,17642,BIOTA
      Datafile        041018027
      Method          GEBIOTA2017
28) Sample      28  1232-CCV,185539:1,17498,AR123 OK
      Datafile        041018028
      Method          GEBIOTA2017
29) Sample      29  1232-CCV,185539:1,17498,AR123 OK
      Datafile        041018029
      Method          GEBIOTA2017
30) Sample      30  1669844 x10,,17642,BIOTA
      Datafile        041018030
      Method          GEBIOTA2017
31) Sample      31  1669845 x10,,17642,BIOTA
      Datafile        041018031
      Method          GEBIOTA2017
32) Sample      32  40157703019 x5,,17642,BIOTA
      Datafile        041018032
      Method          GEBIOTA2017
33) Sample      33  40157830001 x2,,17642,BIOTA
      Datafile        041018033
      Method          GEBIOTA2017
34) Sample      34  40157830002,,17642,BIOTA
      Datafile        041018034
      Method          GEBIOTA2017
35) Sample      35  40157830004 x4,,17642,BIOTA
      Datafile        041018035
      Method          GEBIOTA2017
36) Sample      36  1670714,,17645,BIOTA
      Datafile        041018036
      Method          GEBIOTA2017
37) Sample      37  1670715,,17645,BIOTA
      Datafile        041018037
      Method          GEBIOTA2017
38) Sample      38  40157487001 x2,,17645,BIOTA
      Datafile        041018038
      Method          GEBIOTA2017
39) Sample      39  40157487002 x2,,17645,BIOTA
      Datafile        041018039
      Method          GEBIOTA2017
40) Sample      40  1242-CCV,185544:1,17498,AR124 OK
      Datafile        041018040
      Method          GEBIOTA2017
41) Sample      41  1242-CCV,185544:1,17498,AR124 OK
      Datafile        041018041
      Method          GEBIOTA2017
42) Sample      42  40157487003 x2,,17645,BIOTA
      Datafile        041018042
      Method          GEBIOTA2017
43) Sample      43  40157487004,,17645,BIOTA
      Datafile        041018043

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Read and Understood By

Bryan Meyer — Signed — 4/11/18 — Date

Jim O'Conn — Signed — 4-11-18 — Date

Sequence Name: C:\msdchem\1\sequence\041018.s

Line	Type	Vial	DataFile	Method	Sample Name
44)	Sample	44	40157487005	x2,,17645,BIOTA	
	Datafile		041018044		
	Method		GEBIOTA2017		
45)	Sample	45	40157487006,,17645,BIOTA		
	Datafile		041018045		
	Method		GEBIOTA2017		
46)	Sample	46	40157487007	x2,,17645,BIOTA	
	Datafile		041018046		
	Method		GEBIOTA2017		
47)	Sample	47	40157487008	x4,,17645,BIOTA	
	Datafile		041018047		
	Method		GEBIOTA2017		
48)	Sample	48	40157487009	x4,,17645,BIOTA	
	Datafile		041018048		
	Method		GEBIOTA2017		
49)	Sample	49	40157487010	x2,,17645,BIOTA	
	Datafile		041018049		
	Method		GEBIOTA2017		
50)	Sample	50	40157492001	x3,,17645,BIOTA	
	Datafile		041018050		
	Method		GEBIOTA2017		
51)	Sample	51	40157492002	x2,,17645,BIOTA	
	Datafile		041018051		
	Method		GEBIOTA2017		
52)	Sample	52	1248-CCV,185549:1,17498,AR124		ok
	Datafile		041018052		
	Method		GEBIOTA2017		
53)	Sample	53	1248-CCV,185549:1,17498,AR124		ok
	Datafile		041018053		
	Method		GEBIOTA2017		
54)	Sample	54	40157492003,,17645,BIOTA		
	Datafile		041018054		
	Method		GEBIOTA2017		
55)	Sample	55	40157492004	x2,,17645,BIOTA	
	Datafile		041018055		
	Method		GEBIOTA2017		
56)	Sample	56	40157825011,,17645,BIOTA		
	Datafile		041018056		
	Method		GEBIOTA2017		
57)	Sample	57	40157832001	x2,,17645,BIOTA	
	Datafile		041018057		
	Method		GEBIOTA2017		
58)	Sample	58	40157832002,,17645,BIOTA		
	Datafile		041018058		
	Method		GEBIOTA2017		
59)	Sample	59	40157832003	x2,,17645,BIOTA	
	Datafile		041018059		
	Method		GEBIOTA2017		
60)	Sample	60	1670716	x2,,17645,BIOTA	
	Datafile		041018060		
	Method		GEBIOTA2017		
61)	Sample	61	1670717	x2,,17645,BIOTA	
	Datafile		041018061		
	Method		GEBIOTA2017		
62)	Sample	62	40157832004,,17645,BIOTA		
	Datafile		041018062		
	Method		GEBIOTA2017		
63)	Sample	63	40157832005,,17645,BIOTA		
	Datafile		041018063		
	Method		GEBIOTA2017		
64)	Sample	64	1254-CCV,185554:1,17498,AR125		ok
	Datafile		041018064		
	Method		GEBIOTA2017		
65)	Sample	65	1254-CCV,185554:1,17498,AR125		ok
	Datafile		041018065		
	Method		GEBIOTA2017		

GCSV Batch 17642 HBN: 285493 Screened: 40GCSI 04/09/18

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BLM 4/11/18

GCSV Batch 17645 HBN: 285591 Screened: 40GCSI 4/10/18

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Read and Understood By

Signed 4/11/18 Date

Signed 4-11-18 Date

```
    Sequence Name: C:\msdchem\1\sequence\041118.s
          Comment:
         Operator: BLM
        Data Path: C:\MSDCHEM\1\DATA\041118\
Instrument Control  Pre-Seq Cmd:
Data Analysis       Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis      Post-Seq Cmd:

    Method Sections To Run       Sequence Barcode Options
    (X) Full Method              (X) On Mismatch, Inject Anyway
    ( ) Reprocessing Only        ( ) On Mismatch, Don't Inject
                                 ( ) Barcode Disabled
   ---------------------------------------------------------------------
   Line                    Sample Name/Misc Info
 1) Sample          1  prime
     Datafile          041118001
     Method            GEBIOTA2017
 2) Sample          2  HEXANE
     Datafile          041118002
     Method            GEBIOTA2017
 3) Sample          3  HEXANE
     Datafile          041118003
     Method            GEBIOTA2017
 4) Sample          4  1660-CCV,185559:1,17498,AR166 OK
     Datafile          041118004
     Method            GEBIOTA2017
 5) Sample          5  1660-CCV,185559:1,17498,AR166 OK
     Datafile          041118005
     Method            GEBIOTA2017
 6) Sample          6  40157703012 x10,,17642,BIOTA
     Datafile          041118006
     Method            GEBIOTA2017
 7) Sample          7  1671063,,17653,BIOTA
     Datafile          041118007
     Method            GEBIOTA2017
 8) Sample          8  1671064,,17653,BIOTA
     Datafile          041118008
     Method            GEBIOTA2017
 9) Sample          9  40157488006 x5,,17653,BIOTA
     Datafile          041118009
     Method            GEBIOTA2017
10) Sample         10  1671101 x5,,17653,BIOTA
     Datafile          041118010
     Method            GEBIOTA2017
11) Sample         11  1671100 x5,,17653,BIOTA
     Datafile          041118011
     Method            GEBIOTA2017
12) Sample         12  40157489006 x5,,17653,BIOTA
     Datafile          041118012
     Method            GEBIOTA2017
13) Sample         13  40157698006 x10,,17653,BIOTA
     Datafile          041118013
     Method            GEBIOTA2017
14) Sample         14  40157698007 x3,,17653,BIOTA
     Datafile          041118014
     Method            GEBIOTA2017
15) Sample         15  40157698012,,17653,BIOTA
     Datafile          041118015
     Method            GEBIOTA2017
16) Sample         16  1221-CCV,185538:1,17498,AR122 OK
     Datafile          041118016
     Method            GEBIOTA2017
17) Sample         17  1221-CCV,185538:1,17498,AR122 OK
     Datafile          041118017
     Method            GEBIOTA2017
18) Sample         18  40157698013 x2,,17653,BIOTA
     Datafile          041118018
     Method            GEBIOTA2017
19) Sample         19  40157698014 x2,,17653,BIOTA
     Datafile          041118019

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```

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Read and Understood By

Signed 4/12/18 Date

Signed 4-12-18 Date

```
      Method              GEBIOTA2017
20) Sample        20  40157698015,,17653,BIOTA
      Datafile            041118020
      Method              GEBIOTA2017
21) Sample        21  40157698016 x3,,17653,BIOTA
      Datafile            041118021
      Method              GEBIOTA2017
22) Sample        22  40157830005 x2,,17653,BIOTA
      Datafile            041118022
      Method              GEBIOTA2017
23) Sample        23  40157830006,,17653,BIOTA
      Datafile            041118023
      Method              GEBIOTA2017
24) Sample        24  40157830007 x4,,17653,BIOTA
      Datafile            041118024
      Method              GEBIOTA2017
25) Sample        25  40157830014 x5,,17653,BIOTA
      Datafile            041118025
      Method              GEBIOTA2017
26) Sample        26  40157830015 x4,,17653,BIOTA
      Datafile            041118026
      Method              GEBIOTA2017
27) Sample        27  1232-CCV,185539:1,17498,AR123 OL
      Datafile            041118027
      Method              GEBIOTA2017
28) Sample        28  1232-CCV,185539:1,17498,AR123 OL
      Datafile            041118028
      Method              GEBIOTA2017
```

GCSV Batch 17653 HBN: 285728
Screened: 40GCSI 4/11/18

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BLM 4/12/18

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Read and Understood By

Signed 4/12/18 Date Signed 4-12-18 Date

Standard Log Report

Standards Log Information for Standard #193046

WORKING STANDARD

Created By:	AMC	**Volume of Standard:**	4 L	**Lot ID:**	NA
Create Date:	04/03/2018	**Manufacturer:**	N/A	**Part ID:**	N/A
Expire Date:	03/21/2019	**Manufacturer Lot ID:**	N/A	**Standard ID:**	RGNT498

Notes:

Hexane/Acetone 1:1 By AMC

Compound Name and Concentration for Standard #193046

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL	Hexanes	ug/mL

Composed of Information for Standard #193046

Composed of Standard Seq	Volume	Units
192551	2000	mL
190941	2000	mL

Standard Log Report

Standards Log Information for Standard #192814

STOCK STANDARD

Created By:	MRN	**Volume of Standard:**	5 kg	**Lot ID:**	405550
Create Date:	04/02/2018	**Manufacturer:**	JT Baker	**Part ID:**	3375-09
Expire Date:	10/02/2018	**Manufacturer Lot ID:**	0000177456	**Standard ID:**	RGNT301

Notes:

Sodium Sulfate SVOA baked 4/2/18

Compound Name and Concentration for Standard #192814

Compound Name	Concentration	Compound Name	Concentration
Sodium Sulfate			

The standards listed are from Pace's Green Bay Laboratory.

Standard Log Report

Standards Log Information for Standard #192551

STOCK STANDARD

Created By:	AMC	**Volume of Standard:**	215 L	**Lot ID:**	405817
Create Date:	03/28/2018	**Manufacturer:**	J.T. Baker	**Part ID:**	9262-8P
Expire Date:	03/22/2019	**Manufacturer Lot ID:**	0000191733	**Standard ID:**	RGNT150

Notes:

Hexane SVOA TANK Changed AMC 3/28/18

Compound Name and Concentration for Standard #192551

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL		

Standard Log Report

Standards Log Information for Standard #192488

WORKING STANDARD

Created By:	AMC	**Volume of Standard:**	4 L	**Lot ID:**	NA
Create Date:	03/28/2018	**Manufacturer:**	N/A	**Part ID:**	N/A
Expire Date:	09/28/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	RGNT498

Notes:

Hexane/Acetone 1:1 By AMC

Compound Name and Concentration for Standard #192488

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL	Hexanes	ug/mL

Composed of Information for Standard #192488

Composed of Standard Seq	Volume	Units
189481	2000	mL
188917	2000	mL

Standard Log Report

Standards Log Information for Standard #192096

WORKING STANDARD

Created By:	ASD	**Volume of Standard:**	200 mL	**Lot ID:**	GCSV
Create Date:	03/22/2018	**Manufacturer:**	N/A	**Part ID:**	N/A
Expire Date:	09/22/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	AR1242-SPK

Notes:

Ar1242 Spike @20ug/mL 40GCS9.i\032318spk.b\A323018 100% Recovery

Compound Name and Concentration for Standard #192096

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL	PCB-1242 (Aroclor 1242)	20 ug/mL

Composed of Information for Standard #192096

Composed of Standard Seq	Volume	Units
179368	196	mL
81343	1	mL
81342	1	mL
81341	1	mL
81340	1	mL

Standard Log Report

Standards Log Information for Standard #190953

STOCK STANDARD

Created By:	MRN	**Volume of Standard:**	45.5 kg	**Lot ID:**	405550
Create Date:	03/08/2018	**Manufacturer:**	JT Baker	**Part ID:**	3375-09
Expire Date:	05/22/2022	**Manufacturer Lot ID:**	0000177456	**Standard ID:**	RGNT301

Notes:

Sodium Sulfate SVOA

Compound Name and Concentration for Standard #190953

Compound Name	Concentration	Compound Name	Concentration
Sodium Sulfate			

The standards listed are from Pace's Green Bay Laboratory.

Standard Log Report

Standards Log Information for Standard #190941

STOCK STANDARD

Created By:	MRN	**Volume of Standard:**	4 L	**Lot ID:**	405758
Create Date:	03/08/2018	**Manufacturer:**	Burdick & Jackson	**Part ID:**	010-4
Expire Date:	03/21/2019	**Manufacturer Lot ID:**	DS923	**Standard ID:**	RGNT036

Notes:

Acetone - 4L container

Compound Name and Concentration for Standard #190941

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL		

The standards listed are from Pace's Green Bay Laboratory.

Standard Log Report

Standards Log Information for Standard #189973

WORKING STANDARD

Created By:	ASD	**Volume of Standard:**	1000 mL	**Lot ID:**	GCSV
Create Date:	02/26/2018	**Manufacturer:**	N/A	**Part ID:**	N/A
Expire Date:	08/26/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	8081-SS

Notes:

Pest/PCB Surrogate Spike 40GCSC.i\022618SurrVal.b\A226037 TCMX-116.01% DCB-98.69%

Compound Name and Concentration for Standard #189973

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL	Decachlorobiphenyl (S)	2 ug/mL
Tetrachloro-m-xylene (S)	2 ug/mL		

Composed of Information for Standard #189973

Composed of Standard Seq	Volume	Units
179366	999	mL
172034	1	mL

Standard Log Report

Standards Log Information for Standard #189481

STOCK STANDARD

Created By:	MRN	**Volume of Standard:**	4 L	**Lot ID:**	405758
Create Date:	02/19/2018	**Manufacturer:**	Burdick & Jackson	**Part ID:**	010-4
Expire Date:	03/21/2019	**Manufacturer Lot ID:**	DS923	**Standard ID:**	RGNT036

Notes:

Acetone - 4L container

Compound Name and Concentration for Standard #189481

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL		

Standard Log Report

Standards Log Information for Standard #188917

STOCK STANDARD

Created By:	ETB	**Volume of Standard:**	215 L	**Lot ID:**	405750
Create Date:	02/12/2018	**Manufacturer:**	J.T. Baker	**Part ID:**	9262-8P
Expire Date:	01/15/2019	**Manufacturer Lot ID:**	0000183983	**Standard ID:**	RGNT150

Notes:

Hexane SVOA TANK Changed ETB 02/12/18

Compound Name and Concentration for Standard #188917

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL		

Standard Log Report

Standards Log Information for Standard #188142

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	07/30/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1221-ICV

Notes:

1221 ICV Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #188142

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1221 (Aroclor 1221)	.5 ug/mL	Tetrachloro-m-xylene (S)	.05 ug/mL

Composed of Information for Standard #188142

Composed of Standard Seq	Volume	Units
188137	500	uL
188129	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #188141

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	07/30/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1221-CAL5

Notes:

1221 Cal 5 Std @ 1.0 ug/mL

Compound Name and Concentration for Standard #188141

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.15 ug/mL	Hexanes	ug/mL
PCB-1221 (Aroclor 1221)	1 ug/mL	PCB-1221 (Aroclor 1221)-1	1 ug/mL
PCB-1221 (Aroclor 1221)-2	1 ug/mL	PCB-1221 (Aroclor 1221)-3	1 ug/mL
PCB-1221 (Aroclor 1221)-4	1 ug/mL	PCB-1232 (Aroclor 1232)-5	1 ug/mL
Tetrachloro-m-xylene (S)	.15 ug/mL		

Composed of Information for Standard #188141

Composed of Standard Seq	Volume	Units
188129	1500	uL
185526	1000	uL
184640	97.5	mL

Standard Log Report

Standards Log Information for Standard #188140

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	07/30/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1221-CAL4

Notes:

1221 Cal 4 Std @ 0.8 ug/mL

Compound Name and Concentration for Standard #188140

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.1 ug/mL	Hexanes	ug/mL
PCB-1221 (Aroclor 1221)	.8 ug/mL	PCB-1221 (Aroclor 1221)-1	.8 ug/mL
PCB-1221 (Aroclor 1221)-2	.8 ug/mL	PCB-1221 (Aroclor 1221)-3	.8 ug/mL
PCB-1221 (Aroclor 1221)-4	.8 ug/mL	PCB-1232 (Aroclor 1232)-5	.8 ug/mL
Tetrachloro-m-xylene (S)	.1 ug/mL		

Composed of Information for Standard #188140

Composed of Standard Seq	Volume	Units
188129	1000	uL
185526	800	uL
184640	98.2	mL

Standard Log Report

Standards Log Information for Standard #188139

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	07/30/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1221-CAL2

Notes:

1221 Cal 2 Std @ 0.2 ug/mL

Compound Name and Concentration for Standard #188139

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.02 ug/mL	Hexanes	ug/mL
PCB-1221 (Aroclor 1221)	.2 ug/mL	PCB-1221 (Aroclor 1221)-1	.2 ug/mL
PCB-1221 (Aroclor 1221)-2	.2 ug/mL	PCB-1221 (Aroclor 1221)-3	.2 ug/mL
PCB-1221 (Aroclor 1221)-4	.2 ug/mL	PCB-1232 (Aroclor 1232)-5	.2 ug/mL
Tetrachloro-m-xylene (S)	.02 ug/mL		

Composed of Information for Standard #188139

Composed of Standard Seq	Volume	Units
188129	200	uL
185526	200	uL
184640	99.6	mL

Standard Log Report

Standards Log Information for Standard #188138

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	07/30/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1221-CAL1

Notes:

NY 1221 Cal 1 Std @ 0.1 ug/mL

Compound Name and Concentration for Standard #188138

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.01 ug/mL	Hexanes	ug/mL
PCB-1221 (Aroclor 1221)	.1 ug/mL	PCB-1221 (Aroclor 1221)-1	.1 ug/mL
PCB-1221 (Aroclor 1221)-2	.1 ug/mL	PCB-1221 (Aroclor 1221)-3	.1 ug/mL
PCB-1221 (Aroclor 1221)-4	.1 ug/mL	PCB-1232 (Aroclor 1232)-5	.1 ug/mL
Tetrachloro-m-xylene (S)	.01 ug/mL		

Composed of Information for Standard #188138

Composed of Standard Seq	Volume	Units
188129	100	uL
185526	100	uL
184640	99.8	mL

Standard Log Report

Standards Log Information for Standard #188137

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1221-STK

Notes:

1221 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #188137

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1221 (Aroclor 1221)	100 ug/mL

Composed of Information for Standard #188137

Composed of Standard Seq	Volume	Units
184640	9	mL
179816	1000	uL

Standard Log Report

Standards Log Information for Standard #188136

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	07/30/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-CAL1

Notes:

NY 1660 Cal 1 Std @ 0.1 ug/mL

Compound Name and Concentration for Standard #188136

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.01 ug/mL	Hexanes	ug/mL
PCB-1016 (Aroclor 1016)	.1 ug/mL	PCB-1260 (Aroclor 1260)	.1 ug/mL
Tetrachloro-m-xylene (S)	.01 ug/mL		

Composed of Information for Standard #188136

Composed of Standard Seq	Volume	Units
188129	100	uL
185533	100	uL
184640	99.8	mL

Standard Log Report

Standards Log Information for Standard #188135

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	07/30/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-CAL1

Notes:

NY 1254 Cal 1 Std @ 0.1 ug/mL

Compound Name and Concentration for Standard #188135

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.01 ug/mL	Hexanes	ug/mL
PCB-1254 (Aroclor 1254)	.1 ug/mL	Tetrachloro-m-xylene (S)	.01 ug/mL

Composed of Information for Standard #188135

Composed of Standard Seq	Volume	Units
188129	100	uL
185530	100	uL
184640	99.8	mL

Standard Log Report

Standards Log Information for Standard #188134

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	07/30/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-CAL1

Notes:

NY 1248 Cal 1 Std @ 0.1 ug/mL

Compound Name and Concentration for Standard #188134

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.01 ug/mL	Hexanes	ug/mL
PCB-1248 (Aroclor 1248)	.1 ug/mL	Tetrachloro-m-xylene (S)	.01 ug/mL

Composed of Information for Standard #188134

Composed of Standard Seq	Volume	Units
188129	100	uL
185529	100	uL
184640	99.8	mL

Standard Log Report

Standards Log Information for Standard #188132

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	07/30/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-CAL1

Notes:

NY 1242 Cal 1 Std @ 0.1 ug/mL

Compound Name and Concentration for Standard #188132

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.01 ug/mL	Hexanes	ug/mL
PCB-1242 (Aroclor 1242)	.1 ug/mL	PCB-1242 (Aroclor 1242)	.1 ug/mL
PCB-1242 (Aroclor 1242)-6	.1 ug/mL	PCB-1242 (Aroclor 1242)-7	.1 ug/mL
PCB-1242 (Aroclor 1242)-8	.1 ug/mL	PCB-1242 (Aroclor 1242)-9	.1 ug/mL
Tetrachloro-m-xylene (S)	.01 ug/mL		

Composed of Information for Standard #188132

Composed of Standard Seq	Volume	Units
188129	100	uL
185528	100	uL
184640	99.8	mL

Standard Log Report

Standards Log Information for Standard #188129

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	20 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	PEST-SUR

Notes:

Pest/PCB Surr Std @ 10 ug/mL

Compound Name and Concentration for Standard #188129

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	10 ug/mL	Hexanes	ug/mL
Tetrachloro-m-xylene (S)	10 ug/mL		

Composed of Information for Standard #188129

Composed of Standard Seq	Volume	Units
185958	1	mL
184640	19	mL

Standard Log Report

Standards Log Information for Standard #186910

STOCK STANDARD

Created By:	AMC	**Volume of Standard:**	3 kg	**Lot ID:**	405706
Create Date:	01/12/2018	**Manufacturer:**	Fisher Scientific	**Part ID:**	F100-3
Expire Date:	01/11/2020	**Manufacturer Lot ID:**	174228	**Standard ID:**	RGNT142

Notes:

Florisil, 60-100 Mesh by AMC

Compound Name and Concentration for Standard #186910

Compound Name	Concentration	Compound Name	Concentration
Florisil			

Standard Log Report

Standards Log Information for Standard #185958

INDIVIDUAL STANDARD

Created By:	BLM	**Volume of Standard:**	1 mL	**Lot ID:**	405693
Create Date:	01/02/2018	**Manufacturer:**	Restek	**Part ID:**	32000
Expire Date:	11/30/2023	**Manufacturer Lot ID:**	A0130424	**Standard ID:**	PEST-SUR

Notes:

Pest/PCB Surr @ 200 ug/mL

Compound Name and Concentration for Standard #185958

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	200 ug/mL	Tetrachloro-m-xylene (S)	200 ug/mL

Standard Log Report

Standards Log Information for Standard #185565

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-ICV

Notes:

1660 ICV Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185565

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1016 (Aroclor 1016)	.5 ug/mL	PCB-1260 (Aroclor 1260)	.5 ug/mL
Tetrachloro-m-xylene (S)	.05 ug/mL		

Composed of Information for Standard #185565

Composed of Standard Seq	Volume	Units
185537	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185564

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-ICV

Notes:

1254 ICV Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185564

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1254 (Aroclor 1254)	.5 ug/mL	Tetrachloro-m-xylene (S)	.05 ug/mL

Composed of Information for Standard #185564

Composed of Standard Seq	Volume	Units
185536	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185563

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-ICV

Notes:

1248 ICV Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185563

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1248 (Aroclor 1248)	.5 ug/mL	Tetrachloro-m-xylene (S)	.05 ug/mL

Composed of Information for Standard #185563

Composed of Standard Seq	Volume	Units
185535	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185562

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-ICV

Notes:

1242 ICV Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185562

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1242 (Aroclor 1242)	.5 ug/mL	Tetrachloro-m-xylene (S)	.05 ug/mL

Composed of Information for Standard #185562

Composed of Standard Seq	Volume	Units
185534	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185561

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-CAL5

Notes:

1660 Cal 5 Std @ 1.0 ug/mL

Compound Name and Concentration for Standard #185561

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.15 ug/mL	Hexanes	ug/mL
PCB-1016 (Aroclor 1016)	1 ug/mL	PCB-1260 (Aroclor 1260)	1 ug/mL
Tetrachloro-m-xylene (S)	.15 ug/mL		

Composed of Information for Standard #185561

Composed of Standard Seq	Volume	Units
185533	1	mL
185524	1500	uL
184640	97.5	mL

The standards listed are from Pace's Green Bay Laboratory.

Standard Log Report

Standards Log Information for Standard #185560

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-CAL4

Notes:

1660 Cal 4 Std @ 0.8 ug/mL

Compound Name and Concentration for Standard #185560

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.1 ug/mL	Hexanes	ug/mL
PCB-1016 (Aroclor 1016)	.8 ug/mL	PCB-1260 (Aroclor 1260)	.8 ug/mL
Tetrachloro-m-xylene (S)	.1 ug/mL		

Composed of Information for Standard #185560

Composed of Standard Seq	Volume	Units
185533	800	uL
185524	1	mL
184640	98.2	mL

Standard Log Report

Standards Log Information for Standard #185559

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	200 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-CAL3

Notes:

1660 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185559

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1016 (Aroclor 1016)	.5 ug/mL	PCB-1260 (Aroclor 1260)	.5 ug/mL
Tetrachloro-m-xylene (S)	.05 ug/mL		

Composed of Information for Standard #185559

Composed of Standard Seq	Volume	Units
185533	1	mL
185524	1	mL
184640	198	mL

Standard Log Report

Standards Log Information for Standard #185558

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-CAL2

Notes:

1660 Cal 2 Std @ 0.2 ug/mL

Compound Name and Concentration for Standard #185558

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.02 ug/mL	Hexanes	ug/mL
PCB-1016 (Aroclor 1016)	.2 ug/mL	PCB-1260 (Aroclor 1260)	.2 ug/mL
Tetrachloro-m-xylene (S)	.02 ug/mL		

Composed of Information for Standard #185558

Composed of Standard Seq	Volume	Units
185533	200	uL
185524	200	uL
184640	99.6	mL

Standard Log Report

Standards Log Information for Standard #185556

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-CAL5

Notes:

1254 Cal 5 Std @ 1.0 ug/mL

Compound Name and Concentration for Standard #185556

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.15 ug/mL	Hexanes	ug/mL
PCB-1254 (Aroclor 1254)	1 ug/mL	Tetrachloro-m-xylene (S)	.15 ug/mL

Composed of Information for Standard #185556

Composed of Standard Seq	Volume	Units
185530	1000	uL
185524	1500	uL
184640	97.5	mL

Standard Log Report

Standards Log Information for Standard #185555

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-CAL4

Notes:

1254 Cal 4 Std @ 0.8 ug/mL

Compound Name and Concentration for Standard #185555

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.1 ug/mL	Hexanes	ug/mL
PCB-1254 (Aroclor 1254)	.8 ug/mL	Tetrachloro-m-xylene (S)	.1 ug/mL

Composed of Information for Standard #185555

Composed of Standard Seq	Volume	Units
185530	800	uL
185524	1000	uL
184640	98.2	mL

The standards listed are from Pace's Green Bay Laboratory.

Standard Log Report

Standards Log Information for Standard #185554

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	200 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-CAL3

Notes:

1254 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185554

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1254 (Aroclor 1254)	.5 ug/mL	Tetrachloro-m-xylene (S)	.05 ug/mL

Composed of Information for Standard #185554

Composed of Standard Seq	Volume	Units
185530	1000	uL
185524	1000	uL
184640	198	mL

Standard Log Report

Standards Log Information for Standard #185553

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-CAL2

Notes:

1254 Cal 2 Std @ 0.2 ug/mL

Compound Name and Concentration for Standard #185553

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.02 ug/mL	Hexanes	ug/mL
PCB-1254 (Aroclor 1254)	.2 ug/mL	Tetrachloro-m-xylene (S)	.02 ug/mL

Composed of Information for Standard #185553

Composed of Standard Seq	Volume	Units
185530	200	uL
185524	200	uL
184640	99.6	mL

Standard Log Report

Standards Log Information for Standard #185551

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-CAL5

Notes:

1248 Cal 5 Std @ 1.0 ug/mL

Compound Name and Concentration for Standard #185551

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.15 ug/mL	Hexanes	ug/mL
PCB-1248 (Aroclor 1248)	1 ug/mL	Tetrachloro-m-xylene (S)	.15 ug/mL

Composed of Information for Standard #185551

Composed of Standard Seq	Volume	Units
185529	1	mL
185524	1500	uL
184640	97.5	mL

Standard Log Report

Standards Log Information for Standard #185550

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-CAL4

Notes:

1248 Cal 4 Std @ 0.8 ug/mL

Compound Name and Concentration for Standard #185550

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.1 ug/mL	Hexanes	ug/mL
PCB-1248 (Aroclor 1248)	.8 ug/mL	Tetrachloro-m-xylene (S)	.1 ug/mL

Composed of Information for Standard #185550

Composed of Standard Seq	Volume	Units
185529	800	uL
185524	1	mL
184640	98.2	mL

Standard Log Report

Standards Log Information for Standard #185549

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-CAL3

Notes:

1248 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185549

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1248 (Aroclor 1248)	.5 ug/mL	Tetrachloro-m-xylene (S)	.05 ug/mL

Composed of Information for Standard #185549

Composed of Standard Seq	Volume	Units
185529	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185548

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-CAL2

Notes:

1248 Cal 2 Std @ 0.2 ug/mL

Compound Name and Concentration for Standard #185548

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.02 ug/mL	Hexanes	ug/mL
PCB-1248 (Aroclor 1248)	.2 ug/mL	Tetrachloro-m-xylene (S)	.02 ug/mL

Composed of Information for Standard #185548

Composed of Standard Seq	Volume	Units
185529	200	uL
185524	200	uL
184640	99.6	mL

Standard Log Report

Standards Log Information for Standard #185546

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-CAL5

Notes:

1242 Cal 5 Std @ 1.0 ug/mL

Compound Name and Concentration for Standard #185546

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.15 ug/mL	Hexanes	ug/mL
PCB-1242 (Aroclor 1242)	1 ug/mL	PCB-1242 (Aroclor 1242)	1 ug/mL
PCB-1242 (Aroclor 1242)-6	1 ug/mL	PCB-1242 (Aroclor 1242)-7	1 ug/mL
PCB-1242 (Aroclor 1242)-8	1 ug/mL	PCB-1242 (Aroclor 1242)-9	1 ug/mL
Tetrachloro-m-xylene (S)	.15 ug/mL		

Composed of Information for Standard #185546

Composed of Standard Seq	Volume	Units
185528	1000	uL
185524	1500	uL
184640	97.5	mL

Standard Log Report

Standards Log Information for Standard #185545

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-CAL4

Notes:

1242 Cal 4 Std @ 0.8 ug/mL

Compound Name and Concentration for Standard #185545

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.1 ug/mL	Hexanes	ug/mL
PCB-1242 (Aroclor 1242)	.8 ug/mL	PCB-1242 (Aroclor 1242)	.8 ug/mL
PCB-1242 (Aroclor 1242)-6	.8 ug/mL	PCB-1242 (Aroclor 1242)-7	.8 ug/mL
PCB-1242 (Aroclor 1242)-8	.8 ug/mL	PCB-1242 (Aroclor 1242)-9	.8 ug/mL
Tetrachloro-m-xylene (S)	.1 ug/mL		

Composed of Information for Standard #185545

Composed of Standard Seq	Volume	Units
185528	800	uL
185524	1000	uL
184640	98.2	mL

Standard Log Report

Standards Log Information for Standard #185544

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	200 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-CAL3

Notes:

1242 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185544

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1242 (Aroclor 1242)	.5 ug/mL	PCB-1242 (Aroclor 1242)	.5 ug/mL
PCB-1242 (Aroclor 1242)-6	.5 ug/mL	PCB-1242 (Aroclor 1242)-7	.5 ug/mL
PCB-1242 (Aroclor 1242)-8	.5 ug/mL	PCB-1242 (Aroclor 1242)-9	.5 ug/mL
Tetrachloro-m-xylene (S)	.05 ug/mL		

Composed of Information for Standard #185544

Composed of Standard Seq	Volume	Units
185528	1000	uL
185524	1000	uL
184640	198	mL

Standard Log Report

Standards Log Information for Standard #185543

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-CAL2

Notes:

1242 Cal 2 Std @ 0.2 ug/mL

Compound Name and Concentration for Standard #185543

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.02 ug/mL	Hexanes	ug/mL
PCB-1242 (Aroclor 1242)	.2 ug/mL	PCB-1242 (Aroclor 1242)	.2 ug/mL
PCB-1242 (Aroclor 1242)-6	.2 ug/mL	PCB-1242 (Aroclor 1242)-7	.2 ug/mL
PCB-1242 (Aroclor 1242)-8	.2 ug/mL	PCB-1242 (Aroclor 1242)-9	.2 ug/mL
Tetrachloro-m-xylene (S)	.02 ug/mL		

Composed of Information for Standard #185543

Composed of Standard Seq	Volume	Units
185528	200	uL
185524	200	uL
184640	99.6	mL

Standard Log Report

Standards Log Information for Standard #185539

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1232-CAL3

Notes:

1232 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185539

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1232 (Aroclor 1232)	.5 ug/mL	Tetrachloro-m-xylene (S)	.05 ug/mL

Composed of Information for Standard #185539

Composed of Standard Seq	Volume	Units
185527	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185538

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1221-CAL3

Notes:

1221 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185538

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1221 (Aroclor 1221)	.5 ug/mL	PCB-1221 (Aroclor 1221)-1	.5 ug/mL
PCB-1221 (Aroclor 1221)-2	.5 ug/mL	PCB-1221 (Aroclor 1221)-3	.5 ug/mL
PCB-1221 (Aroclor 1221)-4	.5 ug/mL	PCB-1232 (Aroclor 1232)-5	.5 ug/mL
Tetrachloro-m-xylene (S)	.05 ug/mL		

Composed of Information for Standard #185538

Composed of Standard Seq	Volume	Units
185526	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185537

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	08/09/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-STK

Notes:

1660 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185537

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1016 (Aroclor 1016)	100 ug/mL
PCB-1260 (Aroclor 1260)	100 ug/mL		

Composed of Information for Standard #185537

Composed of Standard Seq	Volume	Units
184640	9	mL
175600	1	mL

Standard Log Report

Standards Log Information for Standard #185536

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-STK

Notes:

1254 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185536

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1254 (Aroclor 1254)	100 ug/mL

Composed of Information for Standard #185536

Composed of Standard Seq	Volume	Units
184640	9	mL
173678	1000	uL

Standard Log Report

Standards Log Information for Standard #185535

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-STK

Notes:

1248 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185535

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1248 (Aroclor 1248)	100 ug/mL

Composed of Information for Standard #185535

Composed of Standard Seq	Volume	Units
184640	9	mL
173676	1000	uL

Standard Log Report

Standards Log Information for Standard #185534

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-STK

Notes:

1242 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185534

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1242 (Aroclor 1242)	100 ug/mL

Composed of Information for Standard #185534

Composed of Standard Seq	Volume	Units
184640	9	mL
173674	1000	uL

Standard Log Report

Standards Log Information for Standard #185533

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-STK

Notes:

1660 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185533

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1016 (Aroclor 1016)	100 ug/mL
PCB-1260 (Aroclor 1260)	100 ug/mL		

Composed of Information for Standard #185533

Composed of Standard Seq	Volume	Units
184640	9	mL
173188	1	mL

Standard Log Report

Standards Log Information for Standard #185530

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-STK

Notes:

1254 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185530

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1254 (Aroclor 1254)	100 ug/mL

Composed of Information for Standard #185530

Composed of Standard Seq	Volume	Units
184640	9	mL
173182	1000	uL

Standard Log Report

Standards Log Information for Standard #185529

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-STK

Notes:

1248 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185529

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1248 (Aroclor 1248)	100 ug/mL

Composed of Information for Standard #185529

Composed of Standard Seq	Volume	Units
184640	9	mL
173180	1000	uL

Standard Log Report

Standards Log Information for Standard #185528

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-STK

Notes:

1242 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185528

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1242 (Aroclor 1242)	100 ug/mL
PCB-1242 (Aroclor 1242)	100 ug/mL	PCB-1242 (Aroclor 1242)-6	100 ug/mL
PCB-1242 (Aroclor 1242)-7	100 ug/mL	PCB-1242 (Aroclor 1242)-8	100 ug/mL
PCB-1242 (Aroclor 1242)-9	100 ug/mL		

Composed of Information for Standard #185528

Composed of Standard Seq	Volume	Units
184640	9	mL
173178	1000	uL

The standards listed are from Pace's Green Bay Laboratory.

Standard Log Report

Standards Log Information for Standard #185527

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1232-STK

Notes:

1232 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185527

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1232 (Aroclor 1232)	100 ug/mL

Composed of Information for Standard #185527

Composed of Standard Seq	Volume	Units
184640	9	mL
173176	1000	uL

Standard Log Report

Standards Log Information for Standard #185526

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1221-STK

Notes:

1221 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185526

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1221 (Aroclor 1221)	100 ug/mL
PCB-1221 (Aroclor 1221)-1	100 ug/mL	PCB-1221 (Aroclor 1221)-2	100 ug/mL
PCB-1221 (Aroclor 1221)-3	100 ug/mL	PCB-1221 (Aroclor 1221)-4	100 ug/mL
PCB-1232 (Aroclor 1232)-5	100 ug/mL		

Composed of Information for Standard #185526

Composed of Standard Seq	Volume	Units
184640	9	mL
173174	1000	uL

Standard Log Report

Standards Log Information for Standard #185524

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	20 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	PEST-SUR

Notes:

Pest/PCB Surr Std @ 10 ug/mL

Compound Name and Concentration for Standard #185524

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	10 ug/mL	Hexanes	ug/mL
Tetrachloro-m-xylene (S)	10 ug/mL		

Composed of Information for Standard #185524

Composed of Standard Seq	Volume	Units
184640	19	mL
178398	1	mL

Standard Log Report

Standards Log Information for Standard #184640

STOCK STANDARD

Created By:	AMC	**Volume of Standard:**	215 L	**Lot ID:**	405661
Create Date:	12/12/2017	**Manufacturer:**	J.T. Baker	**Part ID:**	9262-8P
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	0000183983	**Standard ID:**	RGNT150

Notes:

Hexane SVOA TANK Changed AMC 12/12/17

Compound Name and Concentration for Standard #184640

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL		

Standard Log Report

Standards Log Information for Standard #182336

WORKING STANDARD

Created By:	ASD	**Volume of Standard:**	200 mL	**Lot ID:**	GCSV
Create Date:	11/09/2017	**Manufacturer:**	N/A	**Part ID:**	N/A
Expire Date:	03/30/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	AR1242-SPK

Notes:

Ar1242 Spike @20ug/mL 40GCS9.i\111017spk.b\A110047 96% Recovery

Compound Name and Concentration for Standard #182336

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL	PCB-1242 (Aroclor 1242)	20 ug/mL

Composed of Information for Standard #182336

Composed of Standard Seq	Volume	Units
175728	196	mL
164832	4000	uL

The standards listed are from Pace's Green Bay Laboratory.

Standard Log Report

Standards Log Information for Standard #179816

INDIVIDUAL STANDARD

Created By:	MRN	**Volume of Standard:**	1 mL	**Lot ID:**	405540
Create Date:	10/09/2017	**Manufacturer:**	o2si	**Part ID:**	030273-11
Expire Date:	09/01/2021	**Manufacturer Lot ID:**	316120	**Standard ID:**	1221-STK

Notes:

1221 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #179816

Compound Name	Concentration	Compound Name	Concentration
PCB-1221 (Aroclor 1221)	1000 ug/mL		

The standards listed are from Pace's Green Bay Laboratory.

Standard Log Report

Standards Log Information for Standard #179368

STOCK STANDARD

Created By:	MRN	**Volume of Standard:**	4 L	**Lot ID:**	405532
Create Date:	10/02/2017	**Manufacturer:**	Burdick & Jackson	**Part ID:**	010-4
Expire Date:	01/08/2019	**Manufacturer Lot ID:**	DS490	**Standard ID:**	RGNT036

Notes:

Acetone - 4L container

Compound Name and Concentration for Standard #179368

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL		

The standards listed are from Pace's Green Bay Laboratory.

Standard Log Report

Standards Log Information for Standard #179366

STOCK STANDARD

Created By:	MRN	**Volume of Standard:**	4 L	**Lot ID:**	405532
Create Date:	10/02/2017	**Manufacturer:**	Burdick & Jackson	**Part ID:**	010-4
Expire Date:	01/08/2019	**Manufacturer Lot ID:**	DS490	**Standard ID:**	RGNT036

Notes:

Acetone - 4L container

Compound Name and Concentration for Standard #179366

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL		

The standards listed are from Pace's Green Bay Laboratory.

Standard Log Report

Standards Log Information for Standard #178398

INDIVIDUAL STANDARD

Created By:	DMH	**Volume of Standard:**	1 mL	**Lot ID:**	405520
Create Date:	09/18/2017	**Manufacturer:**	Restek	**Part ID:**	32000
Expire Date:	06/30/2023	**Manufacturer Lot ID:**	A0125833	**Standard ID:**	PEST-SUR

Notes:

Pest/PCB Surr @ 200 ug/mL

Compound Name and Concentration for Standard #178398

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	200 ug/mL	Tetrachloro-m-xylene (S)	200 ug/mL

Standard Log Report

Standards Log Information for Standard #175728

STOCK STANDARD

Created By:	MRN	**Volume of Standard:**	4 L	**Lot ID:**	405434
Create Date:	08/10/2017	**Manufacturer:**	Burdick & Jackson	**Part ID:**	010-4
Expire Date:	11/10/2018	**Manufacturer Lot ID:**	DS178	**Standard ID:**	RGNT036

Notes:

Acetone - 4L container -

Compound Name and Concentration for Standard #175728

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL		

The standards listed are from Pace's Green Bay Laboratory.

Standard Log Report

Standards Log Information for Standard #175600

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405431
Create Date:	08/09/2017	**Manufacturer:**	O2SI	**Part ID:**	130011-03
Expire Date:	08/09/2018	**Manufacturer Lot ID:**	311587	**Standard ID:**	1660-STK

Notes:

1016/1260 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #175600

Compound Name	Concentration	Compound Name	Concentration
PCB-1016 (Aroclor 1016)	1000 ug/mL	PCB-1260 (Aroclor 1260)	1000 ug/mL

Standard Log Report

Standards Log Information for Standard #173678

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405386
Create Date:	07/17/2017	**Manufacturer:**	O2Si	**Part ID:**	030277-06
Expire Date:	03/21/2020	**Manufacturer Lot ID:**	302980	**Standard ID:**	1254-STK

Notes:

1254 ICV STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173678

Compound Name	Concentration	Compound Name	Concentration
PCB-1254 (Aroclor 1254)	1000 ug/mL		

The standards listed are from Pace's Green Bay Laboratory.

Standard Log Report

Standards Log Information for Standard #173676

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405385
Create Date:	07/17/2017	**Manufacturer:**	O2Si	**Part ID:**	030276-15
Expire Date:	01/14/2020	**Manufacturer Lot ID:**	296389	**Standard ID:**	1248-STK

Notes:

1248 ICV STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173676

Compound Name	Concentration	Compound Name	Concentration
PCB-1248 (Aroclor 1248)	1000 ug/mL		

The standards listed are from Pace's Green Bay Laboratory.

Standard Log Report

Standards Log Information for Standard #173674

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405384
Create Date:	07/17/2017	**Manufacturer:**	O2Si	**Part ID:**	030275-03
Expire Date:	03/20/2027	**Manufacturer Lot ID:**	302979	**Standard ID:**	1242-STK

Notes:

1242 ICV STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173674

Compound Name	Concentration	Compound Name	Concentration
PCB-1242 (Aroclor 1242)	1000 ug/mL		

The standards listed are from Pace's Green Bay Laboratory.

Standard Log Report

Standards Log Information for Standard #173188

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405375
Create Date:	07/07/2017	**Manufacturer:**	Restek	**Part ID:**	32039
Expire Date:	04/30/2023	**Manufacturer Lot ID:**	A0124547	**Standard ID:**	1660-STK

Notes:

Ar1660 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173188

Compound Name	Concentration	Compound Name	Concentration
PCB-1016 (Aroclor 1016)	1000 ug/mL	PCB-1260 (Aroclor 1260)	1000 ug/mL

Standard Log Report

Standards Log Information for Standard #173182

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405372
Create Date:	07/07/2017	**Manufacturer:**	Restek	**Part ID:**	32011
Expire Date:	05/31/2023	**Manufacturer Lot ID:**	A0125350	**Standard ID:**	1254-STK

Notes:

1254 STK Std @ 1000 ug/mL L

Compound Name and Concentration for Standard #173182

Compound Name	Concentration	Compound Name	Concentration
PCB-1254 (Aroclor 1254)	1000 ug/mL		

Standard Log Report

Standards Log Information for Standard #173180

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405371
Create Date:	07/07/2017	**Manufacturer:**	Restek	**Part ID:**	32010
Expire Date:	12/31/2022	**Manufacturer Lot ID:**	A0121842	**Standard ID:**	1248-STK

Notes:

1248 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173180

Compound Name	Concentration	Compound Name	Concentration
PCB-1248 (Aroclor 1248)	1000 ug/mL		

Standard Log Report

Standards Log Information for Standard #173178

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405370
Create Date:	07/07/2017	**Manufacturer:**	Restek	**Part ID:**	32009
Expire Date:	04/30/2023	**Manufacturer Lot ID:**	A0124535	**Standard ID:**	1242-STK

Notes:

1242 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173178

Compound Name	Concentration	Compound Name	Concentration
PCB-1242 (Aroclor 1242)	1000 ug/mL	PCB-1242 (Aroclor 1242)	1000 ug/mL
PCB-1242 (Aroclor 1242)-6	1000 ug/mL	PCB-1242 (Aroclor 1242)-7	1000 ug/mL
PCB-1242 (Aroclor 1242)-8	1000 ug/mL	PCB-1242 (Aroclor 1242)-9	1000 ug/mL

Standard Log Report

Standards Log Information for Standard #173176

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405369
Create Date:	07/07/2017	**Manufacturer:**	Restek	**Part ID:**	32008
Expire Date:	04/30/2023	**Manufacturer Lot ID:**	A0124534	**Standard ID:**	1232-STK

Notes:

1232 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173176

Compound Name	Concentration	Compound Name	Concentration
PCB-1232 (Aroclor 1232)	1000 ug/mL		

The standards listed are from Pace's Green Bay Laboratory.

Standard Log Report

Standards Log Information for Standard #173174

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405368
Create Date:	07/07/2017	**Manufacturer:**	Restek	**Part ID:**	32007
Expire Date:	06/30/2023	**Manufacturer Lot ID:**	A0126078	**Standard ID:**	1221-STK

Notes:

1221 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173174

Compound Name	Concentration	Compound Name	Concentration
PCB-1221 (Aroclor 1221)	1000 ug/mL	PCB-1221 (Aroclor 1221)-1	1000 ug/mL
PCB-1221 (Aroclor 1221)-2	1000 ug/mL	PCB-1221 (Aroclor 1221)-3	1000 ug/mL
PCB-1221 (Aroclor 1221)-4	1000 ug/mL	PCB-1232 (Aroclor 1232)-5	1000 ug/mL

Standard Log Report

Standards Log Information for Standard #172034

INDIVIDUAL STANDARD

Created By:	MRN	**Volume of Standard:**	10 mL	**Lot ID:**	405341
Create Date:	06/23/2017	**Manufacturer:**	O2SI	**Part ID:**	130023-15
Expire Date:	11/06/2018	**Manufacturer Lot ID:**	311236	**Standard ID:**	PEST-SUR

Notes:

Pest/PCB Surr @ 2000 ug/mL - opened 11/6/17 MRN

Compound Name and Concentration for Standard #172034

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	2000 ug/mL	Tetrachloro-m-xylene (S)	2000 ug/mL

Standard Log Report

Standards Log Information for Standard #164832

INDIVIDUAL STANDARD

Created By:	MRN	**Volume of Standard:**	25 mL	**Lot ID:**	405214
Create Date:	03/27/2017	**Manufacturer:**	O2SI	**Part ID:**	030275-07
Expire Date:	03/30/2018	**Manufacturer Lot ID:**	302694	**Standard ID:**	1242-STK

Notes:

1242 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #164832

Compound Name	Concentration	Compound Name	Concentration
PCB-1242 (Aroclor 1242)	1000 ug/mL		

The standards listed are from Pace's Green Bay Laboratory.

Standard Log Report

Standards Log Information for Standard #81343

INDIVIDUAL STANDARD

Created By:	CAC	**Volume of Standard:**	1 mL	**Lot ID:**	403271
Create Date:	04/22/2014	**Manufacturer:**	O2SI	**Part ID:**	030275-07
Expire Date:	04/15/2024	**Manufacturer Lot ID:**	226760	**Standard ID:**	1242-STK

Notes:

1242 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #81343

Compound Name	Concentration	Compound Name	Concentration
PCB-1242 (Aroclor 1242)	1000 ug/mL		

Standard Log Report

Standards Log Information for Standard #81342

INDIVIDUAL STANDARD

Created By:	CAC	**Volume of Standard:**	1 mL	**Lot ID:**	403271
Create Date:	04/22/2014	**Manufacturer:**	O2SI	**Part ID:**	030275-07
Expire Date:	04/15/2024	**Manufacturer Lot ID:**	226760	**Standard ID:**	1242-STK

Notes:

1242 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #81342

Compound Name	Concentration	Compound Name	Concentration
PCB-1242 (Aroclor 1242)	1000 ug/mL		

The standards listed are from Pace's Green Bay Laboratory.

Standard Log Report

Standards Log Information for Standard #81341

INDIVIDUAL STANDARD

Created By:	CAC	**Volume of Standard:**	1 mL	**Lot ID:**	403271
Create Date:	04/22/2014	**Manufacturer:**	O2SI	**Part ID:**	030275-07
Expire Date:	04/15/2024	**Manufacturer Lot ID:**	226760	**Standard ID:**	1242-STK

Notes:

1242 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #81341

Compound Name	Concentration	Compound Name	Concentration
PCB-1242 (Aroclor 1242)	1000 ug/mL		

The standards listed are from Pace's Green Bay Laboratory.

Standard Log Report

Standards Log Information for Standard #81340

INDIVIDUAL STANDARD

Created By:	CAC	**Volume of Standard:**	1 mL	**Lot ID:**	403271
Create Date:	04/22/2014	**Manufacturer:**	O2SI	**Part ID:**	030275-07
Expire Date:	04/15/2024	**Manufacturer Lot ID:**	226760	**Standard ID:**	1242-STK

Notes:

1242 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #81340

Compound Name	Concentration	Compound Name	Concentration
PCB-1242 (Aroclor 1242)	1000 ug/mL		

The standards listed are from Pace's Green Bay Laboratory.

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ACCREDITED

ISO 17025 Accredited Chemical Testing Lab
Cert. No. 3031.01

Date Received: 4/22/14 cre

Certificate of Analysis

Rev 0 **Page**

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
030275-03	226760	Ambient or Less	Hexane	15-Apr-2024	Aroclor 1242 Solution, 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
Aroclor 1242	53469-21-9	100	275.3.3P	1003 +/- 10.66	mg/L

403271
REC.04/22/14 BY CA
Exp. __/__/__ By -
Open __/__/__ By

Certified By: Amanda Ross

Amanda Ross

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

405214
REC. 03/27/17 BY MRM
Exp. __/__/__ By __

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ISO 17025 Accredited Chemical Testing Lab Cert. No. 3031.01

Date Received: _____

Certificate of Analysis

Rev 0 **Page 1**

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
030275-07	302694	≤ Ambient	Tol.:Hex. 1:1	15-Jan-2021	Aroclor 1242 Solution, 1,000 mg/L, 25 ml

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
Aroclor 1242	53469-21-9	100	275.3.5.2P	1002 +/- 5.75	mg/L

Certified By: _____

Dreema Murray

Manufacture Date 17-Mar-2017

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetriclly.

405341
REC. 06/23/17 BY MRN
Exp. --/--/-- By --

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ISO 17025 Accredited Chemical Testing Lab Cert. No. 3031.01

Date Received: _____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
130023-15	311236	≤ 6 °C	Tol.:Hex. 1:1	8-Jun-2019	Pesticide Surrogate Solution, 2,000 mg/L, 10 mL

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
decachlorobiphenyl (BZ# 209)	2051-24-3	99.1	301.115.5P	2022 +/- 4.56	mg/L
2,4,5,6-tetrachloro-m-xylene	877-09-8	98.6	300.115.3P	1996 +/- 14.54	mg/L

Certified By: Kaylie Gillenkirk

Kaylie Gillenkirk

Manufacture Date 8-Jun-2017

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32007 **Lot No.:** A0126078

Description : Aroclor® 1221 Standard

Aroclor® 1221 Standard 1,000 µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2023 **Storage:** 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1221		1,008.4 µg/mL	+/- 5.9179	µg/mL	Gravimetric
	CAS # 11104-28-2	(Lot 2781200)		+/- 31.9602	µg/mL	Unstressed
	Purity ----%			+/- 41.7506	µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

405368
REC. 07/06/17 BY BDS
Exp. --/--/-- BY --

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

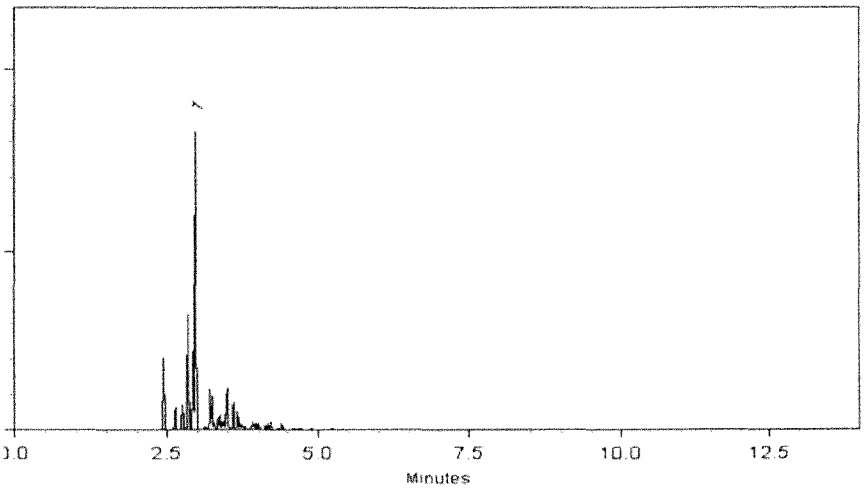
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 22-Mar-2017 **Balance:** 1125113331

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 27-Mar-2017

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32008 **Lot No.:** A0124534

Description : Aroclor® 1232 Standard

Aroclor® 1232 Standard 1,000 µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2023 **Storage:** 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Aroclor 1232	1,000.0 µg/mL	+/- 5.9397 µg/mL	Gravimetric
	CAS # 11141-16-5 (Lot W-107-05)		+/- 31.7072 µg/mL	Unstressed
	Purity ----%		+/- 41.4130 µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

405369
REC.07/06/17 BY BDS
Exp. __/__/__ By --
Open __/__/__ By --

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

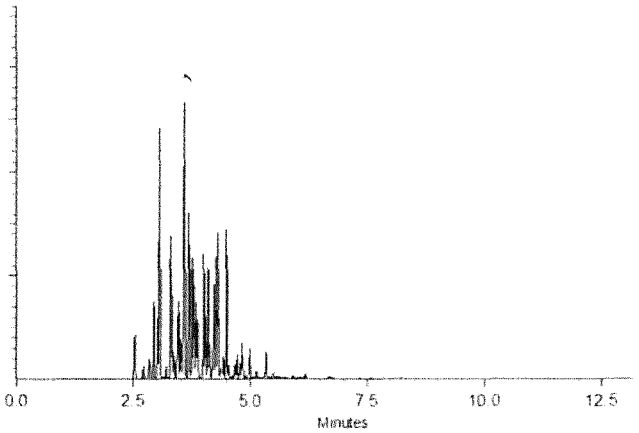
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Cathleen Soltis - Mix Technician

Date Mixed: 27-Jan-2017 **Balance:** B442140311

Justine Albertson - Operations Tech.ARM QC

Date Passed: 31-Jan-2017

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

110 Benner Circle
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Tel: (800)356-1688
Fax: (814)353-1309

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Certificate #3222.01

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Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32009 **Lot No.:** A0124535

Description : Aroclor® 1242 Standard

Aroclor® 1242 Standard 1,000 µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2023 **Storage:** 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Aroclor 1242	1,002.0 µg/mL	+/- 5.9516 µg/mL	Gravimetric
	CAS # 53469-21-9 (Lot 01141-A)		+/- 31.7706 µg/mL	Unstressed
	Purity ----%		+/- 41.4958 µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

405370
REC.07/06/17 BY BDS
Exp. __/__/__ By __
Open __/__/__ By __

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

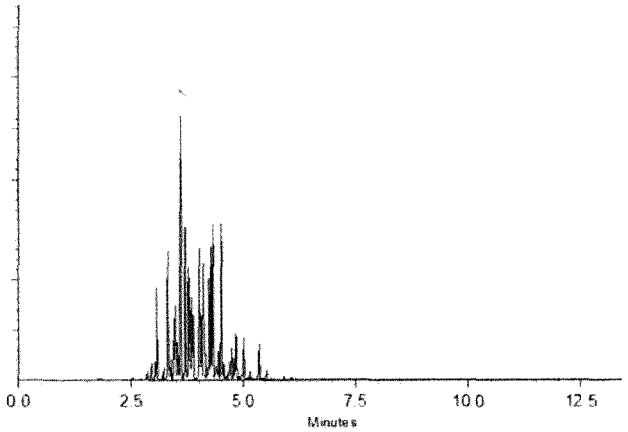
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Cathleen Soltis - Mix Technician

Date Mixed: 27-Jan-2017 **Balance:** B442140311

Justine Albertson - Operations Tech-ARM QC

Date Passed: 31-Jan-2017

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32010 **Lot No.:** A0121842

Description : Aroclor® 1248 Standard

Aroclor® 1248 Standard 1,000µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2022 **Storage:** 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Aroclor 1248	996.8 µg/mL	+/- 5.8498 µg/mL	Gravimetric
	CAS # 12672-29-6 (Lot 07)		+/- 31.5925 µg/mL	Unstressed
	Purity ----%		+/- 41.2704 µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

405371
REC.07/06/17 BY BDS
Exp. __/__/__ By __

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

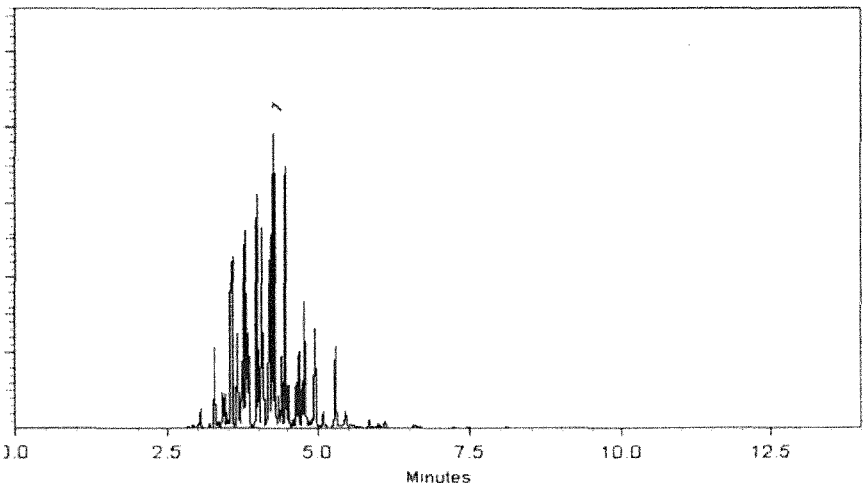
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Dawn Brownson - Mix Technician

Date Mixed: 29-Sep-2016 **Balance:** 1128360905

Jennifer L. Pollino - QC Analyst

Date Passed: 03-Oct-2016

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32011 **Lot No.:** A0125350

Description : Aroclor® 1254 Standard

Aroclor® 1254 Standard 1,000 µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2023 **Storage:** 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1254		1,005.6 µg/mL	+/- 5.9014	µg/mL	Gravimetric
	CAS # 11097-69-1	(Lot 124-191-B)		+/- 31.8715	µg/mL	Unstressed
	Purity ----%			+/- 41.6347	µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

405372
REC.07/06/17 BY BDS
Exp. __/__/__ By __

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

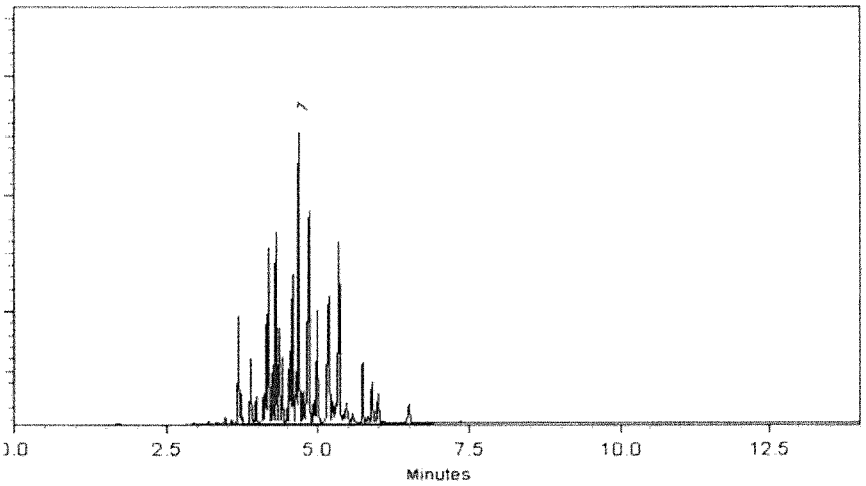
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Dawn Brownson - Mix Technician **Date Mixed:** 24-Feb-2017 **Balance:** 1128360905

Jennifer Pollino - Operations Tech-ARM QC **Date Passed:** 13-Mar-2017

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Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32039 **Lot No.:** A0124547

Description : Aroclor® 1016/1260 Mix

Aroclor® 1016/1260 Mix 1,000 µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2023 **Storage:** 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1016		1,002.0 µg/mL	+/- 5.8392	µg/mL	Gravimetric
	CAS # 12674-11-2	(Lot W-125-04)		+/- 31.7498	µg/mL	Unstressed
	Purity ----%			+/- 41.4799	µg/mL	Stressed
2	Aroclor 1260		1,002.2 µg/mL	+/- 5.8403	µg/mL	Gravimetric
	CAS # 11096-82-5	(Lot W-129-06)		+/- 31.7561	µg/mL	Unstressed
	Purity ----%			+/- 41.4881	µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

405375
REC. 07/06/17 BY BDS
Exp. --/--/-- By --
Open / / By

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

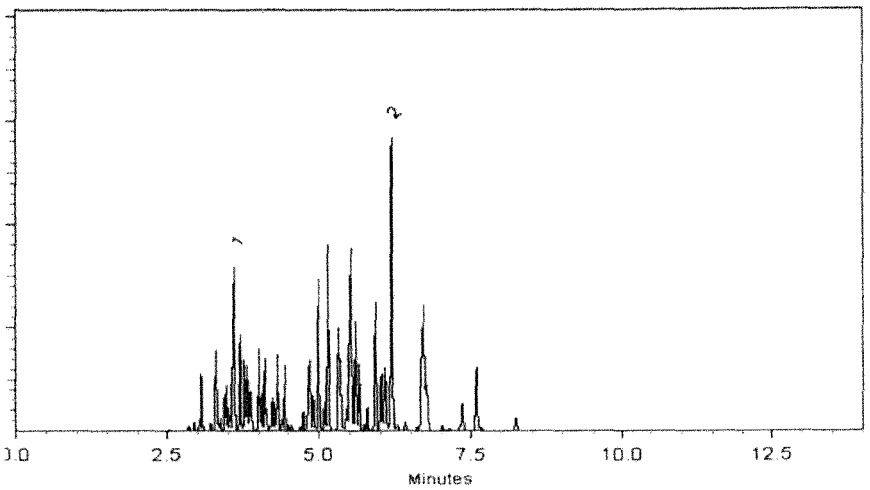
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Cathleen Soltis - Mix Technician

Date Mixed: 30-Jan-2017 **Balance:** B442140311

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 01-Feb-2017

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

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Cert. No. 3031.01

Date Received: _____

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Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
030275-03	302979	Ambient or Less	Hexane	20-Mar-2027	Aroclor 1242 Solution, 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
Aroclor 1242	53469-21-9	100	275.3.5.2P	1010 +/- 7.38	mg/L

405384
REC.07/13/17 BY BDS
Exp. __/__/__ By --
Open / / By

Certified By: _____
Katrina Emelianoff

Manufacture Date 22-Mar-2017

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
030276-15	296389	≤ Ambient	Hexane	14-Jan-2020	Aroclor 1248 Solution, 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
Aroclor 1248	12672-29-6	100	276.3.1P	1008 +/- 4.47	mg/L

405385
REC. 07/13/17 BY BDS
Exp. --/--/-- By --

Certified By: _____
Katrina Emelianoff

Manufacture Date 9-Jan-2017

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
030277-06	302980	≤ Ambient	Hexane	21-Mar-2020	Aroclor 1254 Solution, 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
Aroclor 1254	11097-69-1	100	277.6.4P	1004 +/- 4.32	mg/L

405386
REC. 07/13/17 BY BDS
Exp. __/__/__ By __
Open __/__/__ By

Certified By: _____

Katrina Emelianoff

Manufacture Date 22-Mar-2017

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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Cert. No. 3031.01

Date Received: _____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
130011-03	311587	≤ Ambient	Hexane	28-Jul-2020	Aroclor 1016 + 1260 Solution, 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
Aroclor 1016	12674-11-2	100	272.5.1.6P	1006 +/- 3.01	mg/L
Aroclor 1260	11096-82-5	100	278.3.10P	1016 +/- 3.02	mg/L

405431
REC. 08/07/17 BY BDS
Exp. --/--/-- By --

Certified By: _____
Christina Elder

Manufacture Date 24-Jul-2017

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetriclly.

405434
REC 08/10/17 BY MRN
Exp. --/--/-- By --
Open --/--/-- By --

Honeywell

CERTIFICATE OF ANALYSIS

Honeywell Burdick & Jackson®
1953 South Harvey Street
Muskegon, MI 49442
Phone: (800) 368-0050
Fax: (231) 728-8226
www.lab-honeywell.com

Brand:	Research Chemicals - B&J
Product:	010
Lot No.:	DS178
Production Date:	12-May-2017
Best Before:	10-Nov-2018

Acetone, B&J Brand™, >99.9%
for HPLC, GC, pesticide residue analysis and spectrophotometry

Parameter	Specification Min.	Max.	Result	Units
Water by Karl Fischer Titration		0.50	0.29	%
UV Cutoff		330	328	nm
Refractive Index (20°C)	1.3583	1.3589	1.3586	
Residue		1	<0.5	mg/L
GC Analysis (excluding water)	99.9		99.95	%
Electron Capture GC		10	<10	ng/L
UV Absorbance @ 340 nm		0.060	0.0527	AU
UV Absorbance @ 350 nm		0.010	0.0048	AU
UV Absorbance @ 375 nm		0.005	0.0013	AU
UV Absorbance @ 400 nm		0.005	<0.0001	AU

Honeywell
Quality Control Approval

Janna Dickinson

Muskegon 5/12/2017 LIMS Sample No.: AI06733

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Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32000 **Lot No.:** A0125833

Description : Pesticide Surrogate Mix

Pesticide Surrogate Mix 200 µg/mL, Acetone, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2023 **Storage:** 10°C or colder

Handling: Contains PCBs - sonicate prior to use.

dmh 9-18-17

405520
REC.09/18/17 BY DMH
Exp. __/__/__ By --
Open __/__/__ By

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2,4,5,6-Tetrachloro-m-xylene		201.5 µg/mL	+/- 1.1742	µg/mL	Gravimetric
	CAS # 877-09-8	(Lot 0052481)		+/- 6.3844	µg/mL	Unstressed
	Purity 98%			+/- 8.3410	µg/mL	Stressed
2	Decachlorobiphenyl (BZ# 209)		201.9 µg/mL	+/- 1.1766	µg/mL	Gravimetric
	CAS # 2051-24-3	(Lot ER071509-01)		+/- 6.3975	µg/mL	Unstressed
	Purity 99%			+/- 8.3581	µg/mL	Stressed

Solvent: Acetone
CAS # 67-64-1
Purity 99%

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

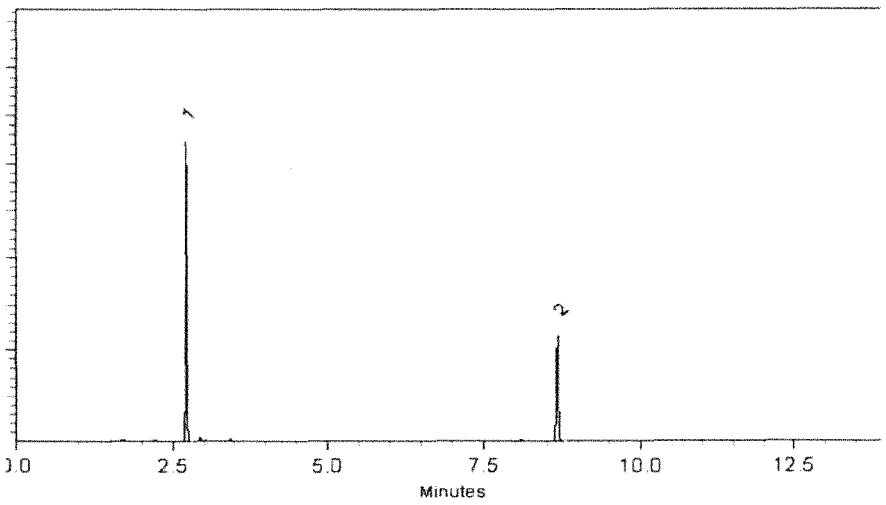
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Matt Fragassi - Mix Technician

Date Mixed: 15-Mar-2017 **Balance:** B345965662

Diane Shaffer - Operations Tech-ARM QC

Date Passed: 17-Mar-2017

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

405532
REC. 09/29/17 BY MRN
Exp. --/--/-- By --

Honeywell

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Fax: (231) 728-8226
www.lab-honeywell.com

Brand:	Research Chemicals - B&J
Product:	010
Lot No.:	DS490
Production Date:	10-Jul-2017
Best Before:	8-Jan-2019

Acetone, B&J Brand™, >99.9%

for HPLC, GC, pesticide residue analysis and spectrophotometry

Parameter	Specification Min.	Max.	Result	Units
Water by Karl Fischer Titration		0.50	0.31	%
UV Cutoff		330	328	nm
Refractive Index (20°C)	1.3583	1.3589	1.3586	
Residue		1	<0.5	mg/L
GC Analysis (excluding water)	99.9		99.97	%
Electron Capture GC		10	<10	ng/L
UV Absorbance @ 340 nm		0.060	0.0481	AU
UV Absorbance @ 350 nm		0.010	0.0014	AU
UV Absorbance @ 375 nm		0.005	<0.0001	AU
UV Absorbance @ 400 nm		0.005	<0.0001	AU

Honeywell
Quality Control Approval

Janna Dickinson

Muskegon 7/11/2017 LIMS Sample No.: AI07427

405540
REC. 10/09/17 BY MRI
Exp. --/--/-- By --
Open / / By

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Date Received: _____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
030273-11	316120	≤ Ambient	Hexane	1-Sep-2021	Aroclor 1221 Solution, 1,000 mg/L, 1 ml

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
Aroclor 1221	11104-28-2	100	273.3.2P	1018 +/- 3.01	mg/L

Certified By: _____
Kara Catron

Manufacture Date 24-Jul-2017

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

Sodium Sulfate, Anhydrous, Granular (12-60 Mesh)
ULTRA RESI-ANALYZED®, ACS Reagent
Tested for Hexane Extractable Impurities
Suitable for Use in Pesticide Residue Analysis

405550
REC. 10/16/17 BY MRN
Exp. --/--/-- By --
Gen. / / By

J.T.Baker® | avantor™

Material No.: 3375-09
Batch No.: 0000177456
Manufactured Date: 2017/05/23
Retest Date: 2022/05/22

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
ACS - Assay (Na_2SO_4)	>= 99.0 %	99.2
ACS - Insoluble Matter	<= 0.01 %	< 0.01
ACS - Loss on Ignition	<= 0.5 %	0.1
ACS - pH of 5% Solution at 25°C	5.2 - 9.2	6.0
ACS - Chloride (Cl)	<= 0.001 %	< 0.001
ACS - Phosphate (PO_4)	<= 0.001 %	< 0.001
ACS - Calcium (Ca)	<= 0.01 %	< 0.01
ACS - Iron (Fe)	<= 0.001 %	< 0.001
ACS - Magnesium (Mg)	<= 0.005 %	< 0.005
ACS - Potassium (K)	<= 0.01 %	< 0.01
ACS - Extraction-Concentration Suitability *	Passes Test	PT
ACS - Heavy Metals (as Pb)	<= 5 ppm	< 5
Nitrogen Compounds (as N)	<= 5 ppm	< 5

For Laboratory, Research or Manufacturing Use
* Result obtained on a sample dried at 400°C for one hour (ACS method)

Country of Origin: MX
Packaging Site: Paris Mfg Ctr & DC

ISO
Phillipsburg, NJ 9001:2008, 14001:2004, FSSC 22000
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Deventer, The Netherlands 9001:2008, 14001:2004, 13485:2003
Gliwice, Poland 9001:2008, 13485:2012
Selangor, Malaysia 9001:2008
Dehradun, India, 9001:2008, 14001:2004, 13485:2003
Mumbai, India, 9001:2008
Panoli, India 9001:2008

James T Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.573.2600
Avantor Performance Materials, LLC.
3477 Corporate Parkway. Center Valley, PA 18034. U.S.A. Phone: 610.573.2600 . Fax: 610.573.2610

Hexanes (95% n-hexane)
ULTRA RESI-ANALYZED
For Organic Residue Analysis

405661
REC. 10/26/17 BY AMC
Exp. --/--/-- By --

J.T.Baker | avantor

Material No.: 9262-8P
Batch No.: 0000183983
Manufactured Date: 2017/09/15
Expiration Date: 2018/12/15

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1
ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL)	<= 5	1
Assay (Total Saturated C_6 Isomers) (by GC, corrected for water)	>= 99.5 %	99.8
Assay (as n-Hexane) (by GC, corrected for water)	>= 95 %	98
Color (APHA)	<= 10	10
Residue after Evaporation	<= 1.0 ppm	0.5
Substances Darkened by H_2SO_4	Passes Test	PT
Water (by KF, coulometric)	<= 0.05 %	0.01

For Laboratory, Research or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC

ISO
Phillipsburg, NJ 9001:2008, 14001:2004, FSSC 22000
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Deventer, The Netherlands 9001:2008, 14001:2004, 13485:2003
Gliwice, Poland 9001:2008, 13485:2012
Selangor, Malaysia 9001:2008
Dehradun, India, 9001:2008, 14001:2004, 13485:2003
Mumbai, India, 9001:2008
Panoli, India 9001:2008

James Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.573.2600
Avantor Performance Materials, LLC.
3477 Corporate Parkway. Center Valley, PA 18034. U.S.A. Phone: 610.573.2600 . Fax: 610.573.2610

RESTEK® CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis

ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32000 **Lot No.:** A0130424

Description : Pesticide Surrogate Mix

Pesticide Surrogate Mix 200 µg/mL, Acetone, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2023 **Storage:** 10°C or colder

Handling: Contains PCBs - sonicate prior to use.

405693
REC.01/02/18 BY BLM
Exp: --/--/-- By --
Open / / By

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2,4,5,6-Tetrachloro-m-xylene		201.2 µg/mL	+/- 1.1725	µg/mL	Gravimetric
	CAS # 877-09-8	(Lot 0052481)		+/- 6.3751	µg/mL	Unstressed
	Purity 98%			+/- 8.3288	µg/mL	Stressed
2	Decachlorobiphenyl (BZ# 209)		201.5 µg/mL	+/- 1.1742	µg/mL	Gravimetric
	CAS # 2051-24-3	(Lot ER071509-01)		+/- 6.3848	µg/mL	Unstressed
	Purity 99%			+/- 8.3415	µg/mL	Stressed

Solvent: Acetone
CAS # 67-64-1
Purity 99%

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

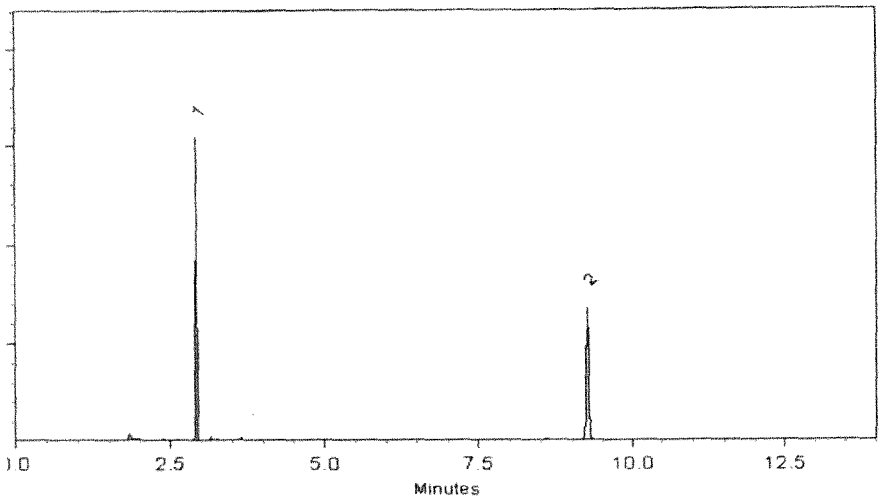
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 31-Aug-2017 **Balance:** B345965662

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 07-Sep-2017

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

Hexanes (95% n-hexane)
ULTRA RESI-ANALYZED
For Organic Residue Analysis

405750
REC. 02/12/18 BY ETB
Exp. --/--/-- By --

J.T.Baker | avantor

Material No.: 9262-8P
Batch No.: 0000187681
Manufactured Date: 2017/10/16
Expiration Date: 2019/01/15

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	5
ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL)	<= 5	< 1
Assay (Total Saturated C_6 Isomers) (by GC, corrected for water)	>= 99.5 %	99.9
Assay (as n-Hexane) (by GC, corrected for water)	>= 95 %	99
Color (APHA)	<= 10	10
Residue after Evaporation	<= 1.0 ppm	0.2
Substances Darkened by H_2SO_4	Passes Test	PT
Water (by KF, coulometric)	<= 0.05 %	0.01

For Laboratory, Research or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC

ISO
Phillipsburg, NJ 9001:2008, 14001:2004, FSSC 22000
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Deventer, The Netherlands 9001:2008, 14001:2004, 13485:2003
Gliwice, Poland 9001:2008, 13485:2012
Selangor, Malaysia 9001:2008
Dehradun, India, 9001:2008, 14001:2004, 13485:2003
Mumbai, India, 9001:2008
Panoli, India 9001:2008

James T Ethier
Jamie Ethier
Vice President Global Quality

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Charleston, South Carolina 29407
Phone: 866.272.0932
Fax: 866.509.5146
www.o2si.com

ACCREDITED

ISO 17025 Accredited Chemical Testing Lab
Cert. No. 3031.01

Date Received: _____

Certificate of Analysis

Rev 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
020986-02 -02-SS	297165	≤ -10 °C	P/T Methanol	16-Jan-2020	Dichlorofluoromethane (Freon 21) Gas Solution, Second Source, 2000 mg/L, 2 x 0.6 ml

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration
dichlorofluoromethane (Freon 21)	75-43-4	99	986.158.2.2.1S	2008 +/- 20.85 mg/L

405766
REC. 02/26/18 BY SMT
Exp. --/--/-- By --
Open / / By

4388-13

189977 – 189980

Certified By: Madeline Luby

Madeline Luby
Manufacture Date 16-Jan-2017

Follow all storage requirements, keep tightly closed when not in use, and use good laboratory practices when handling.
This Reference Material was manufactured, produced, and/or certified under a quality management system that is accredited to ISO 17034 and ISO/IEC 17025.

Second Source standards are prepared according to NELAC

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetriclly.
The stated uncertainty is the expanded uncertainty with a coverage factor of two to give a 95% confidence level.

Hexanes (95% n-hexane)
ULTRA RESI-ANALYZED
For Organic Residue Analysis

J.T.Baker | avantor

405817
REC.03/28/18 BY AMC
Exp. --/--/-- By --
Open --/--/-- By

Material No.: 9262-8P
Batch No.: 0000191733
Manufactured Date: 2017/12/21
Expiration Date: 2019/03/22

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1
ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL)	<= 5	< 1
Assay (Total Saturated C_6 Isomers) (by GC, corrected for water)	>= 99.5 %	100.0
Assay (as n-Hexane) (by GC, corrected for water)	>= 95 %	99
Color (APHA)	<= 10	10
Residue after Evaporation	<= 1.0 ppm	0.3
Substances Darkened by H_2SO_4	Passes Test	PT
Water (by KF, coulometric)	<= 0.05 %	0.01

For Laboratory, Research or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC

ISO
Phillipsburg, NJ 9001:2008, 14001:2004, FSSC 22000
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Deventer, The Netherlands 9001:2008, 14001:2004, 13485:2003
Gliwice, Poland 9001:2008, 13485:2012
Selangor, Malaysia 9001:2008
Dehradun, India, 9001:2008, 14001:2004, 13485:2003
Mumbai, India, 9001:2008
Panoli, India 9001:2008

James T Ethier
Jamie Ethier
Vice President Global Quality

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Avantor Performance Materials, LLC.
3477 Corporate Parkway, Center Valley, PA 18034. U.S.A. Phone: 610.573.2600 . Fax: 610.573.2610

SAMPLE NO.

TD5-170619-01-YB-02

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157825 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157825001 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.39		%	1	03/29/2018 07:11

SAMPLE NO.

TD2-170619-01-YP-10

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157825 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157825002 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.72		%	1	03/30/2018 06:40

SAMPLE NO.

TD2-170619-01-YP-09

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157825 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157825003 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.52		%	1	03/30/2018 06:40

SAMPLE NO.

TD2-170619-01-YP-08

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157825 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157825004 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.75		%	1	03/30/2018 06:40

SAMPLE NO.

TD2-170619-01-YP-07

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157825 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157825005 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.4		%	1	03/30/2018 06:40

SAMPLE NO.

TD2-170619-01-YP-06

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157825 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157825006 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.97		%	1	03/30/2018 06:40

SAMPLE NO.

TD1-170619-01-YP-10

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157825 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157825007 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.94		%	1	03/30/2018 06:40

SAMPLE NO.

TD1-170619-01-YP-09

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157825 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157825008 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.0		%	1	03/30/2018 06:40

SAMPLE NO.

TD1-170619-01-YP-08

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157825 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157825009 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.88		%	1	03/30/2018 06:40

SAMPLE NO.

TD1-170619-01-YP-07

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157825 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157825010 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.1		%	1	03/30/2018 06:40

SAMPLE NO.

TD1-170619-01-YP-06

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157825 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157825011 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.33		%	1	04/10/2018 06:28

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Green Bay SDG No. : 40157825 Contract : HUDSON RIVER REMEDIAL ACTION M

Method Blank Matrix: Tissue Instrument ID: 40BALL

Method Blank Concentration Units: %

Analyte	Initial Calibration Blank		Continuing Calibration Blank						Method Blank	
		C		C		C		C	1665662	C
Lipid									<0.030	U

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Green Bay SDG No. : 40157825 Contract : HUDSON RIVER REMEDIAL ACTION M

Method Blank Matrix: Tissue Instrument ID: 40BALL

Method Blank Concentration Units: %

Analyte	Initial Calibration Blank		Continuing Calibration Blank						Method Blank	
		C		C		C		C	1666462	C
Lipid									<0.030	U

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Green Bay SDG No. : 40157825 Contract : HUDSON RIVER REMEDIAL ACTION M

Method Blank Matrix: Tissue Instrument ID: 40BALL

Method Blank Concentration Units: %

Analyte	Initial Calibration Blank		Continuing Calibration Blank						Method Blank	
		C		C		C		C	1671073	C
Lipid									<0.030	U

SAMPLE NO.

1665665DUP

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40157825 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Lipid	40	0.30	0.28	7

SAMPLE NO.

1665666DUP

FORM VI INORGANIC-2
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40157825 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Lipid	40	0.39	0.44	13

SAMPLE NO.

1666465DUP

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40157825 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Lipid	40	0.65	0.75	14

SAMPLE NO.

1666466DUP

FORM VI INORGANIC-2
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40157825 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Lipid	40	0.97	0.93	4

SAMPLE NO.

1671076DUP

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40157825 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Lipid	40	0.71	0.86	19

Prep Log Report

Batch Information: OEXT 284607 LIPIDS **Template Version: F-GB-O-145-Rev.01 (22Mar2018) LIPID**

Analysis Method	Pace Lipid	Analyzed By	ETB	Instrument	40BALL	Batch Notes	
Reviewed By	BLM	Reviewed By Date	05/02/2018 14:45				

Sample Information:

QC Rule	Sample Type	Lab Sample ID	Select	Lipid % Posted	Run Date/Time	ID	Sample Weight (g)	Sample Volume (mL)	Aliquot (mL)	Dish Weight (g)	Dry Weight 1 (g)	Dry Wt Use 1	Sample Notes
LIPID	BLANK	**1665662**	Y	0.000	03/29/2018 07:08:13		10	5	1	0.9302	0.9302	M	1664793
LIPID	BLANK	**1665663**	Y	-0.01000	03/29/2018 07:08:26		10	5	1	0.929	0.9288	M	1664794
LIPID	PS	**40151549001**	Y	0.8646	03/29/2018 07:08:40		10.0051	5	1	0.9306	0.9479	M	
LIPID	PS	**40151601001**	Y	0.4694	03/29/2018 07:08:51		10.0134	5	1	0.9305	0.9399	M	
LIPID	PS	**40151613001**	Y	0.2956	03/29/2018 07:09:02		9.9785	5	1	0.9291	0.935	M	
LIPID	DUP	**1665665**	Y	0.2754	03/29/2018 07:09:22		9.9864	5	1	0.928	0.9335	M	1664796
LIPID	PS	**40151613002**	Y	0.3351	03/29/2018 07:09:35		9.9976	5	1	0.9266	0.9333	M	
LIPID	PS	**40151614002**	Y	0.5648	03/29/2018 07:09:44		10.0031	5	1	0.9267	0.938	M	
LIPID	PS	**40151614003**	Y	0.2853	03/29/2018 07:09:58		9.9906	5	1	0.9255	0.9312	M	
LIPID	PS	**40151614004**	Y	0.2303	03/29/2018 07:10:08		9.986	5	1	0.9277	0.9323	M	
LIPID	PS	**40151613014**	Y	0.3100	03/29/2018 07:10:21		10	5	1	0.9278	0.934	M	
LIPID	PS	**40151800005**	Y	0.5196	03/29/2018 07:10:32		10.0085	5	1	0.926	0.9364	M	
LIPID	PS	**40151802001**	Y	0.2955	03/29/2018 07:10:38		9.9815	5	1	0.9251	0.931	M	
LIPID	PS	**40151802002**	Y	0.2035	03/29/2018 07:10:45		9.994	5	1.5	0.9294	0.9355	M	1*
LIPID	PS	**40151802003**	Y	0.3614	03/29/2018 07:10:53		9.9604	5	1	0.9296	0.9368	M	
LIPID	PS	**40151802004**	Y	0.3492	03/29/2018 07:11:00		10.0221	5	1	0.9287	0.9357	M	
LIPID	PS	**40151802005**	Y	0.3408	03/29/2018 07:11:07		9.9766	5	1	0.928	0.9348	M	
LIPID	PS	**40151805001**	Y	1.029	03/29/2018 07:11:17		10.0137	5	1	0.9291	0.9497	M	
LIPID	PS	**40157825001**	Y	0.3859	03/29/2018 07:11:23		9.9773	5	1	0.9255	0.9332	M	

Prep Log Report

QC Rule	Sample Type	Lab Sample ID	Select	Lipid % Posted	Run Date/Time	ID	Sample Weight (g)	Sample Volume (mL)	Aliquot (mL)	Dish Weight (g)	Dry Weight 1 (g)	Dry Wt Use 1	Sample Notes
LIPID	DUP	**1665666**	Y	0.4392	03/29/2018 07:11:30		10.019	5	1	0.924	0.9328	M	1664809
LIPID	MS	**1682554**	Y	0.2706	03/29/2018 07:11:30		9.9787	5	1	.9302	0.9356	M	

Sample Notes:

1*: 0.5mL of samples was added on accident to the tin so the Lipids are out of 1.5 instead of the usual 1.0mL. AMC 4/6/18

Prep Log Report

Batch Information: OEXT 284721 LIPIDS **Template Version: F-GB-O-145-Rev.01 (22Mar2018) LIPID**

Analysis Method	Pace Lipid	Analyzed By	AMC	Instrument	40BALL	Batch Notes	
Reviewed By	BLM	Reviewed By Date	05/02/2018 14:46				

Sample Information:

QC Rule	Sample Type	Lab Sample ID	Select	Lipid % Posted	Run Date/Time	ID	Sample Weight (g)	Sample Volume (mL)	Aliquot (mL)	Dish Weight (g)	Dry Weight 1 (g)	Dry Wt Use 1	Sample Notes
LIPID	BLANK	**1666462**	Y	-0.03500	03/30/2018 06:40:52		10	5	1	0.9319	0.9312	M	1665641
LIPID	BLANK	**1666463**	Y	0.03500	03/30/2018 06:40:52		10	5	1	0.924	0.9247	M	1665642
LIPID	PS	**40157488001**	Y	0.5333	03/30/2018 06:40:52		10.0326	5	1	0.9272	0.9379	M	
LIPID	PS	**40157488002**	Y	1.231	03/30/2018 06:40:52		10.0297	5	1	0.9265	0.9512	M	
LIPID	PS	**40157488003**	Y	0.8033	03/30/2018 06:40:52		10.0216	5	1	0.9257	0.9418	M	
LIPID	PS	**40157488004**	Y	0.9224	03/30/2018 06:40:52		10.0282	5	1	0.9313	0.9498	M	
LIPID	RQS	**40157488005**	Y	0.6468	03/30/2018 06:40:52		9.9729	5	1	0.9285	0.9414	M	
LIPID	DUP	**1666465**	Y	0.7456	03/30/2018 06:40:52		9.9916	5	1	0.9287	0.9436	M	1665644
LIPID	PS	**40157489001**	Y	1.175	03/30/2018 06:40:52		9.9618	5	1	0.926	0.9494	M	
LIPID	PS	**40157489002**	Y	1.032	03/30/2018 06:40:52		9.9852	5	1	0.9317	0.9523	M	
LIPID	PS	**40157489003**	Y	0.6416	03/30/2018 06:40:52		9.9744	5	1	0.9297	0.9425	M	
LIPID	PS	**40157489004**	Y	0.9163	03/30/2018 06:40:52		9.9863	5	1	0.9271	0.9454	M	
LIPID	PS	**40157489005**	Y	1.760	03/30/2018 06:40:52		9.9736	5	1	0.9255	0.9606	M	
LIPID	PS	**40157825002**	Y	0.7160	03/30/2018 06:40:52		9.9859	5	1	0.9247	0.939	M	
LIPID	PS	**40157825003**	Y	0.5219	03/30/2018 06:40:52		9.9633	5	1	0.9223	0.9327	M	
LIPID	PS	**40157825004**	Y	0.7473	03/30/2018 06:40:52		10.0359	5	1	0.9282	0.9432	M	
LIPID	PS	**40157825005**	Y	1.429	03/30/2018 06:40:52		9.9722	5	1	0.9302	0.9587	M	
LIPID	RQS	**40157825006**	Y	0.9674	03/30/2018 06:40:52		10.0264	5	1	0.9268	0.9462	M	
LIPID	DUP	**1666466**	Y	0.9307	03/30/2018 06:40:52		9.9927	5	1	0.9251	0.9437	M	1665645

Prep Log Report

40157825

QC Rule	Sample Type	Lab Sample ID	Select	Lipid % Posted	Run Date/Time	ID	Sample Weight (g)	Sample Volume (mL)	Aliquot (mL)	Dish Weight (g)	Dry Weight 1 (g)	Dry Wt Use 1	Sample Notes
LIPID	PS	**40157825007**	Y	0.9434	03/30/2018 06:40:52		10.0166	5	1	0.9298	0.9487	M	
LIPID	PS	**40157825008**	Y	1.036	03/30/2018 06:40:52		9.9926	5	1	0.9298	0.9505	M	
LIPID	PS	**40157825009**	Y	0.8832	03/30/2018 06:40:52		10.0203	5	1	0.9233	0.941	M	
LIPID	PS	**40157825010**	Y	1.052	03/30/2018 06:40:52		10.0283	5	1	0.9276	0.9487	M	
LIPID	MS	**1682550**	Y	0.5450	03/30/2018 06:40:52		9.9994	5	1	.9269	0.9378	M	

Prep Log Report

Batch Information: OEXT 285570 LIPIDS **Template Version: F-GB-O-145-Rev.01 (22Mar2018) LIPID**

Analysis Method	Pace Lipid	Analyzed By	AMC	Instrument	40BALL	Batch Notes	
Reviewed By	BLM	Reviewed By Date	05/02/2018 14:40				

Sample Information:

QC Rule	Sample Type	Lab Sample ID	Select	Lipid % Posted	Run Date/Time	ID	Sample Weight (g)	Sample Volume (mL)	Aliquot (mL)	Dish Weight (g)	Dry Weight 1 (g)	Dry Wt Use 1	Sample Notes
LIPID	BLANK	**1671073**	Y	-0.005000	04/10/2018 06:28:37		10	5	1	0.9267	0.9266	M	1670714
LIPID	BLANK	**1671074**	Y	0.005000	04/10/2018 06:28:37		10	5	1	0.9295	0.9296	M	1670715
LIPID	PS	**40157487001**	Y	1.506	04/10/2018 06:28:37		10.0248	5	1	0.9267	0.9569	M	
LIPID	PS	**40157487002**	Y	1.498	04/10/2018 06:28:37		9.9771	5	1	0.93	0.9599	M	
LIPID	PS	**40157487003**	Y	1.177	04/10/2018 06:28:37		9.9838	5	1	0.9298	0.9533	M	
LIPID	PS	**40157487004**	Y	0.6143	04/10/2018 06:28:37		10.0118	5	1	0.9261	0.9384	M	
LIPID	PS	**40157487005**	Y	1.246	04/10/2018 06:28:37		10.0301	5	1	0.9281	0.9531	M	
LIPID	PS	**40157487006**	Y	1.240	04/10/2018 06:28:37		9.9981	5	1	0.9277	0.9525	M	
LIPID	PS	**40157487007**	Y	1.019	04/10/2018 06:28:37		10.0132	5	1	0.9268	0.9472	M	
LIPID	PS	**40157487008**	Y	1.323	04/10/2018 06:28:37		9.9774	5	1	0.9291	0.9555	M	
LIPID	PS	**40157487009**	Y	0.3939	04/10/2018 06:28:37		10.0287	5	1	0.9285	0.9364	M	
LIPID	PS	**40157487010**	Y	1.038	04/10/2018 06:28:37		10.0176	5	1	0.9254	0.9462	M	
LIPID	PS	**40157492001**	Y	2.125	04/10/2018 06:28:37		10.0003	5	1	0.9247	0.9672	M	
LIPID	PS	**40157492002**	Y	0.9593	04/10/2018 06:28:37		10.0071	5	1	0.9235	0.9427	M	
LIPID	PS	**40157492003**	Y	0.7483	04/10/2018 06:28:37		10.0221	5	1	0.9246	0.9396	M	
LIPID	PS	**40157492004**	Y	0.9311	04/10/2018 06:28:37		9.9887	5	1	0.9251	0.9437	M	
LIPID	PS	**40157825011**	Y	0.3338	04/10/2018 06:28:37		10.0369	5	1	0.9268	0.9335	M	
LIPID	PS	**40157832001**	Y	0.7709	04/10/2018 06:28:37		9.9883	5	1	0.9246	0.94	M	
LIPID	PS	**40157832002**	Y	0.3400	04/10/2018 06:28:37		9.9987	5	1	0.9207	0.9275	M	

Prep Log Report

40157825

QC Rule	Sample Type	Lab Sample ID	Select	Lipid % Posted	Run Date/Time	ID	Sample Weight (g)	Sample Volume (mL)	Aliquot (mL)	Dish Weight (g)	Dry Weight 1 (g)	Dry Wt Use 1	Sample Notes
LIPID	RQS	**40157832003**	Y	0.7101	04/10/2018 06:28:37		9.9981	5	1	0.9259	0.9401	M	
LIPID	DUP	**1671076**	Y	0.8609	04/10/2018 06:28:37		9.9901	5	1	0.9243	0.9415	M	1670717
LIPID	PS	**40157832004**	Y	0.2942	04/10/2018 06:28:37		10.0274	5	1	0.9266	0.9325	M	
LIPID	PS	**40157832005**	Y	0.4932	04/10/2018 06:28:37		10.0372	5	1	0.9268	0.9367	M	
LIPID	MS	**1682835**	Y	0.6611	04/10/2018 06:28:37		9.9831	5	1	.9262	0.9394	M	1670716

40157825

Client Name: GE
Project #: 40157825
Sample Type: Fish
Date/Time Removed to Thaw: 03-26-18
Date/Time Prepped: 03-26-18
Prepped by: CWN+JL+RM
Location Thawed: 40FRG21 / Room Temperature (circle one)

Pace Analytical

Biota Homogenization Log (NYDOH Method)

Logbook: 4413

Sample ID	A) Scales Removed B) Skin Removed (Note A or B Below)	Whole Body/Fillet (WB/F)	Picture of Fish/Weight Taken? (Y/N)	Total Fish Weight (g)	Internal Organs Intact (Y/N)	Gender (Optional) M/F/U[1]	Fillet Weight (g)	Left/Both Fillet[2]?	Picture of Fillet/Weight Taken? (Y/N)	Container Code[3]	Number of Containers Used	Picture of Jars/Weight Taken? (Y/N)	Weight of homogenized Sample (g)	Processing Type (C/G/R/RM)[4]	Sample Comments
1	B	F	Y	304.6	Y	F	46.5	[Left] / Both	Y	9AG	1	Y	44.4	C	Bullhead
2	B A CWN 03-26	F	Y	101.0	Y	M	47.2	Left / [Both]	Y	9AG	1	Y	44.3	C	
3	A	F	Y	182.6	Y	M	41.5	[Left] / Both	Y	9AG	1	Y	40.6	C	
4	A	F	Y	107.8	Y	M	45.8	[Left] / Both	Y	9AG	1	Y	45.5	C	
5	A	F	Y	73.0	Y	M	27.5	Left / [Both]	Y	9AG	1	Y	27.1	C	
6	A	F	Y	490.9	Y	M	106.1	[Left] / Both	Y	9AG	1	Y	103.0	C	
7	A	F	Y	82.7	Y	M	35.3	Left / [Both]	Y	9AG	1	Y	34.1	C	
8	A	F	Y	63.9	Y	M	26.7	Left / [Both]	Y	9AG	1	Y	26.3	C	
9	A	F	Y	81.2	Y	M	31.2	Left / [Both]	Y	9AG	1	Y	30.8	C	
10	A	F	Y	135.1	Y	M	59.9	Left / [Both]	Y	9AG	1	Y	59.4	C	
11	A	F	Y	83.6	Y	M	32.4	Left / [Both]	Y	9AG	1	Y	30.8	C	
								Left / Both							
								Left / Both							
								Left / Both							
								Left / Both							
						CWN	03-26-18	Left / Both							
								Left / Both							
								Left / Both							
								Left / Both							
								Left / Both							

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(1) M = Male, F = Female, U = Undetermined

(2) If left fillet weight is under 40g, the right fillet in included in the sample weight.

(3) Note Container Type / Lot # using Codes Below:

Container Code	Container Size	Lot#
2CG	2 oz Clear Glass	
4AG	4 oz Amber Glass	
9AG	9 oz Amber Glass	F-7-345-05AB
32AG	32 oz Amber Glass	

(4) Processing Type Code Descriptions:

Code	Description of Code
C	Chopped
G	Grind
R	Robot coupe
RM	Robot coupe multiple batches

Reviewed By

4/27/18
Date