Analytical Data Package

Prepared by:

Pace Analytical Services

Pace Project No.: 40157694

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

May 02, 2018

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

RE: Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157694

Dear Jim Ryan:
Enclosed are the analytical results for sample(s) received by the laboratory on September 29, 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.: 40157694

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.: 40157694

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40157694001	**ND5-170615-01-YP-10**	Tissue	06/15/17 12:16	09/29/17 10:00
40157694002	**ND5-170615-01-YP-09**	Tissue	06/15/17 12:15	09/29/17 10:00
40157694003	**ND5-170615-01-YP-08**	Tissue	06/15/17 12:12	09/29/17 10:00
40157694004	**ND5-170615-01-YP-07**	Tissue	06/15/17 12:10	09/29/17 10:00
40157694005	**ND5-170615-01-YP-06**	Tissue	06/15/17 12:08	09/29/17 10:00
40157694006	**ND5-170615-01-YP-05**	Tissue	06/15/17 12:06	09/29/17 10:00
40157694007	**ND5-170615-01-YP-04**	Tissue	06/15/17 12:04	09/29/17 10:00
40157694008	**ND5-170615-01-YP-03**	Tissue	06/15/17 12:02	09/29/17 10:00
40157694009	**ND5-170615-01-YP-02**	Tissue	06/15/17 12:00	09/29/17 10:00
40157694010	**ND5-170615-01-YP-01**	Tissue	06/15/17 11:58	09/29/17 10:00
40157694011	**ND3-170615-01-YP-05**	Tissue	06/15/17 10:07	09/29/17 10:00
40157694012	**ND3-170615-01-YP-04**	Tissue	06/15/17 10:04	09/29/17 10:00
40157694013	**ND3-170615-01-YP-03**	Tissue	06/15/17 10:02	09/29/17 10:00
40157694014	**ND3-170615-01-YP-02**	Tissue	06/15/17 10:00	09/29/17 10:00
40157694015	**ND3-170615-01-YP-01**	Tissue	06/15/17 09:58	09/29/17 10:00

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SAMPLE ANALYTE COUNT

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157694

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40157694001	ND5-170615-01-YP-10	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157694002	ND5-170615-01-YP-09	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157694003	ND5-170615-01-YP-08	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157694004	ND5-170615-01-YP-07	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157694005	ND5-170615-01-YP-06	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157694006	ND5-170615-01-YP-05	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157694007	ND5-170615-01-YP-04	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157694008	ND5-170615-01-YP-03	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157694009	ND5-170615-01-YP-02	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157694010	ND5-170615-01-YP-01	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157694011	ND3-170615-01-YP-05	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157694012	ND3-170615-01-YP-04	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157694013	ND3-170615-01-YP-03	EPA 8082A Mod	BLM	10

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SAMPLE ANALYTE COUNT

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157694

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157694014	**ND3-170615-01-YP-02**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157694015	**ND3-170615-01-YP-01**	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.: 40157694

Method: **EPA 8082A Mod**
Description: 8082A Modified GCT PCB
Client: General Electric
Date: May 02, 2018

General Information:
15 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.

QC Batch: 285695

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40157694013

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1671679)
  - PCB-1242 (Aroclor 1242)

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

Additional Comments:

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PROJECT NARRATIVE

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157694

Method: **EPA 8082A Mod**
Description: 8082A Modified GCT PCB
Client: General Electric
Date: May 02, 2018

Analyte Comments:

QC Batch: 285695

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

- ND5-170615-01-YP-05 (Lab ID: 40157694006)
  - PCB-1016 (Aroclor 1016)
- ND5-170615-01-YP-07 (Lab ID: 40157694004)
  - PCB-1016 (Aroclor 1016)

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PROJECT NARRATIVE

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157694

Method: **Pace Gender Typing**
Description: Fish Gender Typing
Client: General Electric
Date: May 02, 2018

General Information:
15 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.: 40157694

Method: **Pace Lipid**
Description: Lipid
Client: General Electric
Date: May 02, 2018

General Information:
15 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.: 40157694

Sample: ND5-170615-01-YP-10 **Lab ID: 40157694001** Collected: 06/15/17 12:16 Received: 09/29/17 10:00 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	04/11/18 06:59	04/12/18 13:10	12674-11-2	
PCB-1221 (Aroclor 1221)	**79.3J**	ug/kg	99.7	22.7	2	04/11/18 06:59	04/12/18 13:10	11104-28-2	
PCB-1232 (Aroclor 1232)	**<22.7**	ug/kg	99.7	22.7	2	04/11/18 06:59	04/12/18 13:10	11141-16-5	
PCB-1242 (Aroclor 1242)	**<22.7**	ug/kg	99.7	22.7	2	04/11/18 06:59	04/12/18 13:10	53469-21-9	
PCB-1248 (Aroclor 1248)	**295**	ug/kg	99.7	22.7	2	04/11/18 06:59	04/12/18 13:10	12672-29-6	
PCB-1254 (Aroclor 1254)	**159**	ug/kg	99.7	22.7	2	04/11/18 06:59	04/12/18 13:10	11097-69-1	
PCB-1260 (Aroclor 1260)	**37.7J**	ug/kg	99.7	22.7	2	04/11/18 06:59	04/12/18 13:10	11096-82-5	
PCB, Total	**571**	ug/kg	99.7	22.7	2	04/11/18 06:59	04/12/18 13:10	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	91	%	60-140		2	04/11/18 06:59	04/12/18 13:10	877-09-8	
Decachlorobiphenyl (S)	95	%	60-140		2	04/11/18 06:59	04/12/18 13:10	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**U**				1		04/03/18 14:34		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.82**	%	0.030	0.030	1		04/12/18 06:34		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157694

Sample: ND5-170615-01-YP-09 **Lab ID: 40157694002** Collected: 06/15/17 12:15 Received: 09/29/17 10:00 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	100	22.8	2	04/11/18 06:59	04/12/18 13:26	12674-11-2	
PCB-1221 (Aroclor 1221)	**226**	ug/kg	100	22.8	2	04/11/18 06:59	04/12/18 13:26	11104-28-2	
PCB-1232 (Aroclor 1232)	**<22.8**	ug/kg	100	22.8	2	04/11/18 06:59	04/12/18 13:26	11141-16-5	
PCB-1242 (Aroclor 1242)	**<22.8**	ug/kg	100	22.8	2	04/11/18 06:59	04/12/18 13:26	53469-21-9	
PCB-1248 (Aroclor 1248)	**637**	ug/kg	100	22.8	2	04/11/18 06:59	04/12/18 13:26	12672-29-6	
PCB-1254 (Aroclor 1254)	**293**	ug/kg	100	22.8	2	04/11/18 06:59	04/12/18 13:26	11097-69-1	
PCB-1260 (Aroclor 1260)	**56.7J**	ug/kg	100	22.8	2	04/11/18 06:59	04/12/18 13:26	11096-82-5	
PCB, Total	**1210**	ug/kg	100	22.8	2	04/11/18 06:59	04/12/18 13:26	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	102	%	60-140		2	04/11/18 06:59	04/12/18 13:26	877-09-8	
Decachlorobiphenyl (S)	105	%	60-140		2	04/11/18 06:59	04/12/18 13:26	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**U**				1		04/03/18 14:34		
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.7**	%	0.030	0.030	1		04/12/18 06:34		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157694

Sample: ND5-170615-01-YP-08 **Lab ID: 40157694003** Collected: 06/15/17 12:12 Received: 09/29/17 10:00 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)	**<45.7**	ug/kg	201	45.7	4	04/11/18 06:59	04/12/18 13:42	12674-11-2	
PCB-1221 (Aroclor 1221)	**232**	ug/kg	201	45.7	4	04/11/18 06:59	04/12/18 13:42	11104-28-2	
PCB-1232 (Aroclor 1232)	**<45.7**	ug/kg	201	45.7	4	04/11/18 06:59	04/12/18 13:42	11141-16-5	
PCB-1242 (Aroclor 1242)	**<45.7**	ug/kg	201	45.7	4	04/11/18 06:59	04/12/18 13:42	53469-21-9	
PCB-1248 (Aroclor 1248)	**983**	ug/kg	201	45.7	4	04/11/18 06:59	04/12/18 13:42	12672-29-6	
PCB-1254 (Aroclor 1254)	**461**	ug/kg	201	45.7	4	04/11/18 06:59	04/12/18 13:42	11097-69-1	
PCB-1260 (Aroclor 1260)	**78.1J**	ug/kg	201	45.7	4	04/11/18 06:59	04/12/18 13:42	11096-82-5	
PCB, Total	**1750**	ug/kg	201	45.7	4	04/11/18 06:59	04/12/18 13:42	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	109	%	60-140		4	04/11/18 06:59	04/12/18 13:42	877-09-8	
Decachlorobiphenyl (S)	115	%	60-140		4	04/11/18 06:59	04/12/18 13:42	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**U**				1		04/03/18 14:34		
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.5**	%	0.030	0.030	1		04/12/18 06:34		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157694

Sample: ND5-170615-01-YP-07 **Lab ID: 40157694004** Collected: 06/15/17 12:10 Received: 09/29/17 10:00 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	100	22.8	2	04/11/18 06:59	04/13/18 15:20	12674-11-2	1q
PCB-1221 (Aroclor 1221)	**162**	ug/kg	100	22.8	2	04/11/18 06:59	04/13/18 15:20	11104-28-2	
PCB-1232 (Aroclor 1232)	**<22.8**	ug/kg	100	22.8	2	04/11/18 06:59	04/13/18 15:20	11141-16-5	
PCB-1242 (Aroclor 1242)	**<22.8**	ug/kg	100	22.8	2	04/11/18 06:59	04/13/18 15:20	53469-21-9	
PCB-1248 (Aroclor 1248)	**314**	ug/kg	100	22.8	2	04/11/18 06:59	04/13/18 15:20	12672-29-6	
PCB-1254 (Aroclor 1254)	**140**	ug/kg	100	22.8	2	04/11/18 06:59	04/13/18 15:20	11097-69-1	
PCB-1260 (Aroclor 1260)	**33.5J**	ug/kg	100	22.8	2	04/11/18 06:59	04/13/18 15:20	11096-82-5	
PCB, Total	**649**	ug/kg	100	22.8	2	04/11/18 06:59	04/13/18 15:20	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	100	%	60-140		2	04/11/18 06:59	04/13/18 15:20	877-09-8	
Decachlorobiphenyl (S)	104	%	60-140		2	04/11/18 06:59	04/13/18 15:20	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		04/03/18 14:34		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.1**	%	0.030	0.030	1		04/12/18 06:34		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157694

Sample: ND5-170615-01-YP-06 **Lab ID: 40157694005** Collected: 06/15/17 12:08 Received: 09/29/17 10:00 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)	**<34.3**	ug/kg	150	34.3	3	04/11/18 06:59	04/12/18 14:13	12674-11-2	
PCB-1221 (Aroclor 1221)	**204**	ug/kg	150	34.3	3	04/11/18 06:59	04/12/18 14:13	11104-28-2	
PCB-1232 (Aroclor 1232)	**<34.3**	ug/kg	150	34.3	3	04/11/18 06:59	04/12/18 14:13	11141-16-5	
PCB-1242 (Aroclor 1242)	**<34.3**	ug/kg	150	34.3	3	04/11/18 06:59	04/12/18 14:13	53469-21-9	
PCB-1248 (Aroclor 1248)	**679**	ug/kg	150	34.3	3	04/11/18 06:59	04/12/18 14:13	12672-29-6	
PCB-1254 (Aroclor 1254)	**391**	ug/kg	150	34.3	3	04/11/18 06:59	04/12/18 14:13	11097-69-1	
PCB-1260 (Aroclor 1260)	**87.5J**	ug/kg	150	34.3	3	04/11/18 06:59	04/12/18 14:13	11096-82-5	
PCB, Total	**1360**	ug/kg	150	34.3	3	04/11/18 06:59	04/12/18 14:13	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	98	%	60-140		3	04/11/18 06:59	04/12/18 14:13	877-09-8	
Decachlorobiphenyl (S)	107	%	60-140		3	04/11/18 06:59	04/12/18 14:13	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**U**				1		04/03/18 14:34		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.8**	%	0.030	0.030	1		04/12/18 06:34		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157694

Sample: ND5-170615-01-YP-05 **Lab ID: 40157694006** Collected: 06/15/17 12:06 Received: 09/29/17 10:00 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)	**<45.4**	ug/kg	199	45.4	4	04/11/18 06:59	04/13/18 15:36	12674-11-2	1q
PCB-1221 (Aroclor 1221)	**289**	ug/kg	199	45.4	4	04/11/18 06:59	04/13/18 15:36	11104-28-2	
PCB-1232 (Aroclor 1232)	**<45.4**	ug/kg	199	45.4	4	04/11/18 06:59	04/13/18 15:36	11141-16-5	
PCB-1242 (Aroclor 1242)	**<45.4**	ug/kg	199	45.4	4	04/11/18 06:59	04/13/18 15:36	53469-21-9	
PCB-1248 (Aroclor 1248)	**796**	ug/kg	199	45.4	4	04/11/18 06:59	04/13/18 15:36	12672-29-6	
PCB-1254 (Aroclor 1254)	**341**	ug/kg	199	45.4	4	04/11/18 06:59	04/13/18 15:36	11097-69-1	
PCB-1260 (Aroclor 1260)	**54.3J**	ug/kg	199	45.4	4	04/11/18 06:59	04/13/18 15:36	11096-82-5	
PCB, Total	**1480**	ug/kg	199	45.4	4	04/11/18 06:59	04/13/18 15:36	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	91	%	60-140		4	04/11/18 06:59	04/13/18 15:36	877-09-8	
Decachlorobiphenyl (S)	100	%	60-140		4	04/11/18 06:59	04/13/18 15:36	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**U**				1		04/03/18 14:34		
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.0**	%	0.030	0.030	1		04/12/18 06:34		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157694

Sample: ND5-170615-01-YP-04 **Lab ID: 40157694007** Collected: 06/15/17 12:04 Received: 09/29/17 10:00 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)	**<34.3**	ug/kg	151	34.3	3	04/11/18 06:59	04/12/18 14:45	12674-11-2	
PCB-1221 (Aroclor 1221)	**182**	ug/kg	151	34.3	3	04/11/18 06:59	04/12/18 14:45	11104-28-2	
PCB-1232 (Aroclor 1232)	**<34.3**	ug/kg	151	34.3	3	04/11/18 06:59	04/12/18 14:45	11141-16-5	
PCB-1242 (Aroclor 1242)	**<34.3**	ug/kg	151	34.3	3	04/11/18 06:59	04/12/18 14:45	53469-21-9	
PCB-1248 (Aroclor 1248)	**576**	ug/kg	151	34.3	3	04/11/18 06:59	04/12/18 14:45	12672-29-6	
PCB-1254 (Aroclor 1254)	**256**	ug/kg	151	34.3	3	04/11/18 06:59	04/12/18 14:45	11097-69-1	
PCB-1260 (Aroclor 1260)	**105J**	ug/kg	151	34.3	3	04/11/18 06:59	04/12/18 14:45	11096-82-5	
PCB, Total	**1120**	ug/kg	151	34.3	3	04/11/18 06:59	04/12/18 14:45	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	97	%	60-140		3	04/11/18 06:59	04/12/18 14:45	877-09-8	
Decachlorobiphenyl (S)	105	%	60-140		3	04/11/18 06:59	04/12/18 14:45	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		04/03/18 14:34		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.3**	%	0.030	0.030	1		04/12/18 06:34		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157694

Sample: ND5-170615-01-YP-03 **Lab ID: 40157694008** Collected: 06/15/17 12:02 Received: 09/29/17 10:00 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	99.9	22.8	2	04/11/18 06:59	04/12/18 15:32	12674-11-2	
PCB-1221 (Aroclor 1221)	**90.6J**	ug/kg	99.9	22.8	2	04/11/18 06:59	04/12/18 15:32	11104-28-2	
PCB-1232 (Aroclor 1232)	**<22.8**	ug/kg	99.9	22.8	2	04/11/18 06:59	04/12/18 15:32	11141-16-5	
PCB-1242 (Aroclor 1242)	**<22.8**	ug/kg	99.9	22.8	2	04/11/18 06:59	04/12/18 15:32	53469-21-9	
PCB-1248 (Aroclor 1248)	**385**	ug/kg	99.9	22.8	2	04/11/18 06:59	04/12/18 15:32	12672-29-6	
PCB-1254 (Aroclor 1254)	**224**	ug/kg	99.9	22.8	2	04/11/18 06:59	04/12/18 15:32	11097-69-1	
PCB-1260 (Aroclor 1260)	**73.4J**	ug/kg	99.9	22.8	2	04/11/18 06:59	04/12/18 15:32	11096-82-5	
PCB, Total	**773**	ug/kg	99.9	22.8	2	04/11/18 06:59	04/12/18 15:32	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	98	%	60-140		2	04/11/18 06:59	04/12/18 15:32	877-09-8	
Decachlorobiphenyl (S)	102	%	60-140		2	04/11/18 06:59	04/12/18 15:32	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		04/03/18 14:34		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.98**	%	0.030	0.030	1		04/12/18 06:34		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157694

Sample: ND5-170615-01-YP-02 **Lab ID: 40157694009** Collected: 06/15/17 12:00 Received: 09/29/17 10:00 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	04/11/18 06:59	04/12/18 15:48	12674-11-2	
PCB-1221 (Aroclor 1221)	**145**	ug/kg	99.7	22.7	2	04/11/18 06:59	04/12/18 15:48	11104-28-2	
PCB-1232 (Aroclor 1232)	**<22.7**	ug/kg	99.7	22.7	2	04/11/18 06:59	04/12/18 15:48	11141-16-5	
PCB-1242 (Aroclor 1242)	**<22.7**	ug/kg	99.7	22.7	2	04/11/18 06:59	04/12/18 15:48	53469-21-9	
PCB-1248 (Aroclor 1248)	**397**	ug/kg	99.7	22.7	2	04/11/18 06:59	04/12/18 15:48	12672-29-6	
PCB-1254 (Aroclor 1254)	**216**	ug/kg	99.7	22.7	2	04/11/18 06:59	04/12/18 15:48	11097-69-1	
PCB-1260 (Aroclor 1260)	**49.8J**	ug/kg	99.7	22.7	2	04/11/18 06:59	04/12/18 15:48	11096-82-5	
PCB, Total	**807**	ug/kg	99.7	22.7	2	04/11/18 06:59	04/12/18 15:48	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	105	%	60-140		2	04/11/18 06:59	04/12/18 15:48	877-09-8	
Decachlorobiphenyl (S)	108	%	60-140		2	04/11/18 06:59	04/12/18 15:48	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		04/03/18 14:34		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.2**	%	0.030	0.030	1		04/12/18 06:34		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157694

Sample: ND5-170615-01-YP-01 **Lab ID: 40157694010** Collected: 06/15/17 11:58 Received: 09/29/17 10:00 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	04/11/18 06:59	04/12/18 16:04	12674-11-2	
PCB-1221 (Aroclor 1221)	**55.3**	ug/kg	50.1	11.4	1	04/11/18 06:59	04/12/18 16:04	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.1	11.4	1	04/11/18 06:59	04/12/18 16:04	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.1	11.4	1	04/11/18 06:59	04/12/18 16:04	53469-21-9	
PCB-1248 (Aroclor 1248)	**291**	ug/kg	50.1	11.4	1	04/11/18 06:59	04/12/18 16:04	12672-29-6	
PCB-1254 (Aroclor 1254)	**224**	ug/kg	50.1	11.4	1	04/11/18 06:59	04/12/18 16:04	11097-69-1	
PCB-1260 (Aroclor 1260)	**88.2**	ug/kg	50.1	11.4	1	04/11/18 06:59	04/12/18 16:04	11096-82-5	
PCB, Total	**659**	ug/kg	50.1	11.4	1	04/11/18 06:59	04/12/18 16:04	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	98	%	60-140		1	04/11/18 06:59	04/12/18 16:04	877-09-8	
Decachlorobiphenyl (S)	101	%	60-140		1	04/11/18 06:59	04/12/18 16:04	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**U**				1		04/03/18 14:34		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.54**	%	0.030	0.030	1		04/12/18 06:34		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157694

Sample: ND3-170615-01-YP-05 **Lab ID: 40157694011** Collected: 06/15/17 10:07 Received: 09/29/17 10:00 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	04/11/18 06:59	04/12/18 16:20	12674-11-2	
PCB-1221 (Aroclor 1221)	**24.5J**	ug/kg	49.9	11.4	1	04/11/18 06:59	04/12/18 16:20	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	49.9	11.4	1	04/11/18 06:59	04/12/18 16:20	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	49.9	11.4	1	04/11/18 06:59	04/12/18 16:20	53469-21-9	
PCB-1248 (Aroclor 1248)	**156**	ug/kg	49.9	11.4	1	04/11/18 06:59	04/12/18 16:20	12672-29-6	
PCB-1254 (Aroclor 1254)	**112**	ug/kg	49.9	11.4	1	04/11/18 06:59	04/12/18 16:20	11097-69-1	
PCB-1260 (Aroclor 1260)	**38.0J**	ug/kg	49.9	11.4	1	04/11/18 06:59	04/12/18 16:20	11096-82-5	
PCB, Total	**331**	ug/kg	49.9	11.4	1	04/11/18 06:59	04/12/18 16:20	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	89	%	60-140		1	04/11/18 06:59	04/12/18 16:20	877-09-8	
Decachlorobiphenyl (S)	96	%	60-140		1	04/11/18 06:59	04/12/18 16:20	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		04/03/18 14:34		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.27**	%	0.030	0.030	1		04/12/18 06:34		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157694

Sample: ND3-170615-01-YP-04 **Lab ID: 40157694012** Collected: 06/15/17 10:04 Received: 09/29/17 10:00 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)	**<45.7**	ug/kg	200	45.7	4	04/11/18 06:59	04/12/18 16:36	12674-11-2	
PCB-1221 (Aroclor 1221)	**192J**	ug/kg	200	45.7	4	04/11/18 06:59	04/12/18 16:36	11104-28-2	
PCB-1232 (Aroclor 1232)	**<45.7**	ug/kg	200	45.7	4	04/11/18 06:59	04/12/18 16:36	11141-16-5	
PCB-1242 (Aroclor 1242)	**<45.7**	ug/kg	200	45.7	4	04/11/18 06:59	04/12/18 16:36	53469-21-9	
PCB-1248 (Aroclor 1248)	**1050**	ug/kg	200	45.7	4	04/11/18 06:59	04/12/18 16:36	12672-29-6	
PCB-1254 (Aroclor 1254)	**557**	ug/kg	200	45.7	4	04/11/18 06:59	04/12/18 16:36	11097-69-1	
PCB-1260 (Aroclor 1260)	**108J**	ug/kg	200	45.7	4	04/11/18 06:59	04/12/18 16:36	11096-82-5	
PCB, Total	**1900**	ug/kg	200	45.7	4	04/11/18 06:59	04/12/18 16:36	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	102	%	60-140		4	04/11/18 06:59	04/12/18 16:36	877-09-8	
Decachlorobiphenyl (S)	111	%	60-140		4	04/11/18 06:59	04/12/18 16:36	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**U**				1		04/03/18 14:35		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.8**	%	0.030	0.030	1		04/12/18 06:34		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157694

Sample: ND3-170615-01-YP-03 **Lab ID: 40157694013** Collected: 06/15/17 10:02 Received: 09/29/17 10:00 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)	**<34.1**	ug/kg	150	34.1	3	04/11/18 06:59	04/12/18 16:52	12674-11-2	
PCB-1221 (Aroclor 1221)	**132J**	ug/kg	150	34.1	3	04/11/18 06:59	04/12/18 16:52	11104-28-2	
PCB-1232 (Aroclor 1232)	**<34.1**	ug/kg	150	34.1	3	04/11/18 06:59	04/12/18 16:52	11141-16-5	
PCB-1242 (Aroclor 1242)	**<34.1**	ug/kg	150	34.1	3	04/11/18 06:59	04/12/18 16:52	53469-21-9	M1
PCB-1248 (Aroclor 1248)	**595**	ug/kg	150	34.1	3	04/11/18 06:59	04/12/18 16:52	12672-29-6	
PCB-1254 (Aroclor 1254)	**309**	ug/kg	150	34.1	3	04/11/18 06:59	04/12/18 16:52	11097-69-1	
PCB-1260 (Aroclor 1260)	**79.5J**	ug/kg	150	34.1	3	04/11/18 06:59	04/12/18 16:52	11096-82-5	
PCB, Total	**1120**	ug/kg	150	34.1	3	04/11/18 06:59	04/12/18 16:52	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	92	%	60-140		3	04/11/18 06:59	04/12/18 16:52	877-09-8	
Decachlorobiphenyl (S)	100	%	60-140		3	04/11/18 06:59	04/12/18 16:52	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		04/03/18 14:35		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.3**	%	0.030	0.030	1		04/12/18 06:34		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157694

Sample: ND3-170615-01-YP-02 **Lab ID: 40157694014** Collected: 06/15/17 10:00 Received: 09/29/17 10:00 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	04/11/18 06:59	04/12/18 17:39	12674-11-2	
PCB-1221 (Aroclor 1221)	**130J**	ug/kg	150	34.2	3	04/11/18 06:59	04/12/18 17:39	11104-28-2	
PCB-1232 (Aroclor 1232)	**<34.2**	ug/kg	150	34.2	3	04/11/18 06:59	04/12/18 17:39	11141-16-5	
PCB-1242 (Aroclor 1242)	**<34.2**	ug/kg	150	34.2	3	04/11/18 06:59	04/12/18 17:39	53469-21-9	
PCB-1248 (Aroclor 1248)	**745**	ug/kg	150	34.2	3	04/11/18 06:59	04/12/18 17:39	12672-29-6	
PCB-1254 (Aroclor 1254)	**393**	ug/kg	150	34.2	3	04/11/18 06:59	04/12/18 17:39	11097-69-1	
PCB-1260 (Aroclor 1260)	**71.2J**	ug/kg	150	34.2	3	04/11/18 06:59	04/12/18 17:39	11096-82-5	
PCB, Total	**1340**	ug/kg	150	34.2	3	04/11/18 06:59	04/12/18 17:39	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	90	%	60-140		3	04/11/18 06:59	04/12/18 17:39	877-09-8	
Decachlorobiphenyl (S)	100	%	60-140		3	04/11/18 06:59	04/12/18 17:39	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**U**				1		04/03/18 14:35		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.1**	%	0.030	0.030	1		04/12/18 06:34		

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

ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157694

Sample: ND3-170615-01-YP-01 **Lab ID: 40157694015** Collected: 06/15/17 09:58 Received: 09/29/17 10:00 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	04/11/18 06:59	04/12/18 17:55	12674-11-2	
PCB-1221 (Aroclor 1221)	**<22.9**	ug/kg	100	22.9	2	04/11/18 06:59	04/12/18 17:55	11104-28-2	
PCB-1232 (Aroclor 1232)	**<22.9**	ug/kg	100	22.9	2	04/11/18 06:59	04/12/18 17:55	11141-16-5	
PCB-1242 (Aroclor 1242)	**<22.9**	ug/kg	100	22.9	2	04/11/18 06:59	04/12/18 17:55	53469-21-9	
PCB-1248 (Aroclor 1248)	**306**	ug/kg	100	22.9	2	04/11/18 06:59	04/12/18 17:55	12672-29-6	
PCB-1254 (Aroclor 1254)	**219**	ug/kg	100	22.9	2	04/11/18 06:59	04/12/18 17:55	11097-69-1	
PCB-1260 (Aroclor 1260)	**53.0J**	ug/kg	100	22.9	2	04/11/18 06:59	04/12/18 17:55	11096-82-5	
PCB, Total	**578**	ug/kg	100	22.9	2	04/11/18 06:59	04/12/18 17:55	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	86	%	60-140		2	04/11/18 06:59	04/12/18 17:55	877-09-8	
Decachlorobiphenyl (S)	95	%	60-140		2	04/11/18 06:59	04/12/18 17:55	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**U**				1		04/03/18 14:35		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.65**	%	0.030	0.030	1		04/12/18 06:34		

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(920)469-2436

QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157694

QC Batch: 285695 | Analysis Method: EPA 8082A Mod
QC Batch Method: EPA 3541 | Analysis Description: 8082 GCS PCB
Associated Lab Samples: 40157694001, 40157694002, 40157694003, 40157694004, 40157694005, 40157694006, 40157694007, 40157694008, 40157694009, 40157694010, 40157694011, 40157694012, 40157694013, 40157694014, 40157694015

METHOD BLANK: 1671677 | Matrix: Tissue
Associated Lab Samples: 40157694001, 40157694002, 40157694003, 40157694004, 40157694005, 40157694006, 40157694007, 40157694008, 40157694009, 40157694010, 40157694011, 40157694012, 40157694013, 40157694014, 40157694015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<11.4	50.0	11.4	04/12/18 12:22	
PCB-1221 (Aroclor 1221)	ug/kg	<11.4	50.0	11.4	04/12/18 12:22	
PCB-1232 (Aroclor 1232)	ug/kg	<11.4	50.0	11.4	04/12/18 12:22	
PCB-1242 (Aroclor 1242)	ug/kg	<11.4	50.0	11.4	04/12/18 12:22	
PCB-1248 (Aroclor 1248)	ug/kg	<11.4	50.0	11.4	04/12/18 12:22	
PCB-1254 (Aroclor 1254)	ug/kg	<11.4	50.0	11.4	04/12/18 12:22	
PCB-1260 (Aroclor 1260)	ug/kg	<11.4	50.0	11.4	04/12/18 12:22	
Decachlorobiphenyl (S)	%	90	60-140		04/12/18 12:22	
Tetrachloro-m-xylene (S)	%	75	60-140		04/12/18 12:22	

LABORATORY CONTROL SAMPLE: 1671678

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	222	89	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)	%			94	60-140	
Tetrachloro-m-xylene (S)	%			80	60-140	

MATRIX SPIKE SAMPLE: 1671679

Parameter	Units	40157694013 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<34.1		<34.2			
PCB-1221 (Aroclor 1221)	ug/kg	132J		209			
PCB-1232 (Aroclor 1232)	ug/kg	<34.1		<34.2			
PCB-1242 (Aroclor 1242)	ug/kg	<34.1	250	453	181	70-130	M1
PCB-1248 (Aroclor 1248)	ug/kg	595		771			
PCB-1254 (Aroclor 1254)	ug/kg	309		337			
PCB-1260 (Aroclor 1260)	ug/kg	79.5J		78.1J			
Decachlorobiphenyl (S)	%				113	60-140	
Tetrachloro-m-xylene (S)	%				105	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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Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157694

SAMPLE DUPLICATE: 1671680

Parameter	Units	40157694013 Result	Dup Result	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<34.1	<34.2		40	
PCB-1221 (Aroclor 1221)	ug/kg	132J	122J		40	
PCB-1232 (Aroclor 1232)	ug/kg	<34.1	<34.2		40	
PCB-1242 (Aroclor 1242)	ug/kg	<34.1	<34.2		40	
PCB-1248 (Aroclor 1248)	ug/kg	595	548	8	40	
PCB-1254 (Aroclor 1254)	ug/kg	309	284	9	40	
PCB-1260 (Aroclor 1260)	ug/kg	79.5J	74.0J		40	
Decachlorobiphenyl (S)	%	100	102	2		
Tetrachloro-m-xylene (S)	%	92	92	0		

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157694

QC Batch: 285846 | Analysis Method: Pace Lipid
QC Batch Method: Pace Lipid | Analysis Description: LIPID
Associated Lab Samples: 40157694001, 40157694002, 40157694003, 40157694004, 40157694005, 40157694006, 40157694007, 40157694008, 40157694009, 40157694010, 40157694011, 40157694012, 40157694013, 40157694014, 40157694015

METHOD BLANK: 1672277 | Matrix: Tissue
Associated Lab Samples: 40157694001, 40157694002, 40157694003, 40157694004, 40157694005, 40157694006, 40157694007, 40157694008, 40157694009, 40157694010, 40157694011, 40157694012, 40157694013, 40157694014, 40157694015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lipid	%	<0.030	0.030	0.030	04/12/18 06:34	

MATRIX SPIKE SAMPLE: 1682843

Parameter	Units	40157694013 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lipid	%	1.3		1.2			

SAMPLE DUPLICATE: 1672280

Parameter	Units	40157694013 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	1.3	1.1	13	40	

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

QUALIFIERS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157694

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.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157694

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40157694001	**ND5-170615-01-YP-10**	EPA 3541	285695	EPA 8082A Mod	285874
40157694002	**ND5-170615-01-YP-09**	EPA 3541	285695	EPA 8082A Mod	285874
40157694003	**ND5-170615-01-YP-08**	EPA 3541	285695	EPA 8082A Mod	285874
40157694004	**ND5-170615-01-YP-07**	EPA 3541	285695	EPA 8082A Mod	285874
40157694005	**ND5-170615-01-YP-06**	EPA 3541	285695	EPA 8082A Mod	285874
40157694006	**ND5-170615-01-YP-05**	EPA 3541	285695	EPA 8082A Mod	285874
40157694007	**ND5-170615-01-YP-04**	EPA 3541	285695	EPA 8082A Mod	285874
40157694008	**ND5-170615-01-YP-03**	EPA 3541	285695	EPA 8082A Mod	285874
40157694009	**ND5-170615-01-YP-02**	EPA 3541	285695	EPA 8082A Mod	285874
40157694010	**ND5-170615-01-YP-01**	EPA 3541	285695	EPA 8082A Mod	285874
40157694011	**ND3-170615-01-YP-05**	EPA 3541	285695	EPA 8082A Mod	285874
40157694012	**ND3-170615-01-YP-04**	EPA 3541	285695	EPA 8082A Mod	285874
40157694013	**ND3-170615-01-YP-03**	EPA 3541	285695	EPA 8082A Mod	285874
40157694014	**ND3-170615-01-YP-02**	EPA 3541	285695	EPA 8082A Mod	285874
40157694015	**ND3-170615-01-YP-01**	EPA 3541	285695	EPA 8082A Mod	285874
40157694001	**ND5-170615-01-YP-10**	Pace Gender Typing	285056		
40157694002	**ND5-170615-01-YP-09**	Pace Gender Typing	285056		
40157694003	**ND5-170615-01-YP-08**	Pace Gender Typing	285056		
40157694004	**ND5-170615-01-YP-07**	Pace Gender Typing	285056		
40157694005	**ND5-170615-01-YP-06**	Pace Gender Typing	285056		
40157694006	**ND5-170615-01-YP-05**	Pace Gender Typing	285056		
40157694007	**ND5-170615-01-YP-04**	Pace Gender Typing	285056		
40157694008	**ND5-170615-01-YP-03**	Pace Gender Typing	285056		
40157694009	**ND5-170615-01-YP-02**	Pace Gender Typing	285056		
40157694010	**ND5-170615-01-YP-01**	Pace Gender Typing	285056		
40157694011	**ND3-170615-01-YP-05**	Pace Gender Typing	285056		
40157694012	**ND3-170615-01-YP-04**	Pace Gender Typing	285056		
40157694013	**ND3-170615-01-YP-03**	Pace Gender Typing	285056		
40157694014	**ND3-170615-01-YP-02**	Pace Gender Typing	285056		
40157694015	**ND3-170615-01-YP-01**	Pace Gender Typing	285056		
40157694001	**ND5-170615-01-YP-10**	Pace Lipid	285846		
40157694002	**ND5-170615-01-YP-09**	Pace Lipid	285846		
40157694003	**ND5-170615-01-YP-08**	Pace Lipid	285846		
40157694004	**ND5-170615-01-YP-07**	Pace Lipid	285846		
40157694005	**ND5-170615-01-YP-06**	Pace Lipid	285846		
40157694006	**ND5-170615-01-YP-05**	Pace Lipid	285846		
40157694007	**ND5-170615-01-YP-04**	Pace Lipid	285846		
40157694008	**ND5-170615-01-YP-03**	Pace Lipid	285846		
40157694009	**ND5-170615-01-YP-02**	Pace Lipid	285846		
40157694010	**ND5-170615-01-YP-01**	Pace Lipid	285846		
40157694011	**ND3-170615-01-YP-05**	Pace Lipid	285846		
40157694012	**ND3-170615-01-YP-04**	Pace Lipid	285846		
40157694013	**ND3-170615-01-YP-03**	Pace Lipid	285846		
40157694014	**ND3-170615-01-YP-02**	Pace Lipid	285846		
40157694015	**ND3-170615-01-YP-01**	Pace Lipid	285846		

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40157694

ANCHOR QEA

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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: COC170615-T11-01
Sample Custodian: MCS
Lab: Pace - Green Bay

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	ND5-170615-01	ND5-170615-01-YP-10	6/15/2017	12:16	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
002	ND5-170615-01	ND5-170615-01-YP-09	6/15/2017	12:15	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
003	ND5-170615-01	ND5-170615-01-YP-08	6/15/2017	12:12	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
004	ND5-170615-01	ND5-170615-01-YP-07	6/15/2017	12:10	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
005	ND5-170615-01	ND5-170615-01-YP-06	6/15/2017	12:08	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
006	ND5-170615-01	ND5-170615-01-YP-05	6/15/2017	12:06	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
007	ND5-170615-01	ND5-170615-01-YP-04	6/15/2017	12:04	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
008	ND5-170615-01	ND5-170615-01-YP-03	6/15/2017	12:02	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
009	ND5-170615-01	ND5-170615-01-YP-02	6/15/2017	12:00	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
010	ND5-170615-01	ND5-170615-01-YP-01	6/15/2017	11:58	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	

1-ziploc

Comments:

Relinquished by:	Received by:	Relinquished by:	Received by:	Relinquished by:	Received by:
Signature	Signature	Signature VIA FEDEX	Signature	Signature Fedex	Signature
Print Name Jim Ryan	Print Name D. Bubriak	Print Name N. Rittle	Print Name	Print Name	Print Name Alec Hr
Company Anchor QEA	Company PACE T:-0.4, -0.3	Company PACE	Company	Company	Company Pace
Date/Time 6/16/17 8:00	Date/Time 6/16/17 8:00	Date/Time 9/28/17 16:00	Date/Time	Date/Time 9/29/17 1000	Date/Time 9/29/17 1000

Date Printed: 6/15/2017 * F= FISH **F=Fillet, WH=Whole Body, O=Offal **COC TYPE:** TPCB-LIPD-PEST-MERCURY **Page 1 of 2**

40157694

ANCHOR QEA

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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: COC170615-T11-01
Sample Custodian: MCS
Lab: Pace - Green Bay

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)	
011	ND3-170615-01	ND3-170615-01-YP-05	6/15/2017	10:07	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
012	ND3-170615-01	ND3-170615-01-YP-04	6/15/2017	10:04	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
013	ND3-170615-01	ND3-170615-01-YP-03	6/15/2017	10:02	☑	1	F	FLRC	☐	☐	☐	☑	☑	☑	
014	ND3-170615-01	ND3-170615-01-YP-02	6/15/2017	10:00	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
015	ND3-170615-01	ND3-170615-01-YP-01	6/15/2017	9:58	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	

1-ziploc

Comments:

Relinquished by:	Received by:	Relinquished by:	Received by:	Relinquished by:	Received by:
Signature	Signature	Signature VIA FED EX	Signature	Signature	Signature
Print Name Jim Ryan	Print Name D. Bubiak	Print Name A. Bitto	Print Name	Print Name	Print Name Allen Hletther
Company Anchor QEA	Company PACE T:-0.4,-0.3	Company PACE	Company	Company Fedex	Company Pace
Date/Time 6/16/17 8:00	Date/Time 6/16/17 8:00	Date/Time 9/28/17 16:00	Date/Time	Date/Time 9/29/17 1000	Date/Time 9/29/17 1000

Date Printed: 6/15/2017 * 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#: 40157694

40157694

Client Name: Anchor

Courier: ☑ Fed Ex ☐ UPS ☐ Client ☐ Pace Other:

Tracking #: 4099947041608/4099947041619

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 SR-70 **Type of Ice:** Wet Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 1.0 /Corr: 1.0 **Biological Tissue is Frozen:** ☑ yes ☐ no

Temp Blank Present: ☐ yes ☑ no

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

Person examining contents:
Date: 9/29/17
Initials: [illegible]

		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: _____

Project Manager Review: ALfor TN **Date:** 9-29-17

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

CASE NARRATIVE - PCB ANALYSIS

Lab Report Number (SDG): 40157694
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 1°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 spike was fortified with Aroclor 1242 and met the QAPP specified accuracy criteria.
2. **Matrix Spike (MS):** Sample ND3-170615-01-YP-03 was designated as the parent sample for the MS for this SDG and one portion of the sample was fortified with Aroclor 1242. The MS required a 1:3 dilution to bring a non-fortified Aroclor within instrument calibration range. The QAPP specified accuracy criteria were not met; the “M1” data qualifier was applied to the parent result on the final report.

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

F. Sample Duplicate: Sample ND3-170615-01-YP-03 was designated as the duplicate for this SDG. The QAPP specified precision criteria were met. Duplicate results are not evaluated below the reporting limit.

G. Dilutions: All samples with the exception of ND3-170615-01-YP-05 and ND3-170615-01-YP-03 were analyzed at a dilution to bring the level of Aroclors within the calibration range of the instrument.

H. Reanalysis: Samples ND5-170615-01-YP-07 and ND5-170615-01-YP-05 were initially analyzed straight or diluted based on screener data. Upon analysis, the samples were found to require reanalysis at different dilutions 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: 05/04/18

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.: 40157694 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ

LAB SAMPLE ID	SAMPLE NAME	DCBP	TCMX
1671677	1671677BLANK	90	75
1671678	1671678LCS	94	80
1671679	1671679MS	113	105
1671680	1671680DUP	102	92
40157694001	ND5-170615-01-YP-10	95	91
40157694002	ND5-170615-01-YP-09	105	102
40157694003	ND5-170615-01-YP-08	115	109
40157694004	ND5-170615-01-YP-07	104	100
40157694005	ND5-170615-01-YP-06	107	98
40157694006	ND5-170615-01-YP-05	100	91
40157694007	ND5-170615-01-YP-04	105	97
40157694008	ND5-170615-01-YP-03	102	98
40157694009	ND5-170615-01-YP-02	108	105
40157694010	ND5-170615-01-YP-01	101	98
40157694011	ND3-170615-01-YP-05	96	89
40157694012	ND3-170615-01-YP-04	111	102
40157694013	ND3-170615-01-YP-03	100	92
40157694014	ND3-170615-01-YP-02	100	90
40157694015	ND3-170615-01-YP-01	95	86

	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: 04/11/2018

Instrument: 40GCSJ

Lab File ID: 041218.B\041218007.D

Lab Sample ID: 1671678LCS

Date Analyzed (1): 04/12/2018

LCS Lot No: 192096

SDG No.: 40157694

COMPOUND	AMOUNT ADDED (ug/kg)	LCS CONCENTRATION (ug/kg)	LCS %REC	QC LIMITS REC.
PCB-1242 (Aroclor 1242)	250	222	89	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: 04/11/2018

Instrument: 40GCSJ

Parent Sample ID: ND3-170615-01-YP-03

Matrix Spike - Sample No: 1671679MS

Date Analyzed (1): 04/12/2018

Lab File ID: 041218.B\041218024.D

SDG No.: 40157694

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS %REC	QC LIMITS REC.
PCB-1242 (Aroclor 1242)	250	<34.1	453	181	70-130

Spike Recovery: 1 out of 1 outside limits.

PCB - FORM III SVOA-1

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 04/11/2018

Instrument 40GCSJ

Lab Sample ID: ND3-170615-01-YP-03

Duplicate Sample No: 40157694013DUP

Date Analyzed: 04/12/2018

Lab File ID: 041218.B\041218025.D

SDG No.: 40157694

COMPOUND	SAMPLE CONCENTRATION (ug/kg)	DUPLICATE CONCENTRATION (ug/kg)	RPD	RPD LIMITS
PCB-1016 (Aroclor 1016)	<34.1	<34.2		0-40
PCB-1221 (Aroclor 1221)	132J	122J		0-40
PCB-1232 (Aroclor 1232)	<34.1	<34.2		0-40
PCB-1242 (Aroclor 1242)	<34.1	<34.2		0-40
PCB-1248 (Aroclor 1248)	595	548	8	0-40
PCB-1254 (Aroclor 1254)	309	284	9	0-40
PCB-1260 (Aroclor 1260)	79.5J	74.0J		0-40

RPD: 0 out of 2 outside limits.

SAMPLE NO.

1671677BLANK

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

Lab Name: Pace Analytical - Green Bay SDG No.: 40157694 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ Matrix: Tissue Lab Sample ID: 1671677

Lab File ID: 041218.B\041218006.D Date Analyzed: 04/12/2018 Time:12:22

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	ANALYZED
1671678LCS	1671678	041218.B\041218007.D	04/12/2018 12:38
ND5-170615-01-YP-10	40157694001	041218.B\041218009.D	04/12/2018 13:10
ND5-170615-01-YP-09	40157694002	041218.B\041218010.D	04/12/2018 13:26
ND5-170615-01-YP-08	40157694003	041218.B\041218011.D	04/12/2018 13:42
ND5-170615-01-YP-06	40157694005	041218.B\041218013.D	04/12/2018 14:13
ND5-170615-01-YP-04	40157694007	041218.B\041218015.D	04/12/2018 14:45
ND5-170615-01-YP-03	40157694008	041218.B\041218018.D	04/12/2018 15:32
ND5-170615-01-YP-02	40157694009	041218.B\041218019.D	04/12/2018 15:48
ND5-170615-01-YP-01	40157694010	041218.B\041218020.D	04/12/2018 16:04
ND3-170615-01-YP-05	40157694011	041218.B\041218021.D	04/12/2018 16:20
ND3-170615-01-YP-04	40157694012	041218.B\041218022.D	04/12/2018 16:36
ND3-170615-01-YP-03	40157694013	041218.B\041218023.D	04/12/2018 16:52
1671679MS	1671679	041218.B\041218024.D	04/12/2018 17:08
1671680DUP	1671680	041218.B\041218025.D	04/12/2018 17:24
ND3-170615-01-YP-02	40157694014	041218.B\041218026.D	04/12/2018 17:39
ND3-170615-01-YP-01	40157694015	041218.B\041218027.D	04/12/2018 17:55
ND5-170615-01-YP-07	40157694004	041318.B\041318007.D	04/13/2018 15:20
ND5-170615-01-YP-05	40157694006	041318.B\041318008.D	04/13/2018 15:36

SAMPLE NO.

ND5-170615-01-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: 09/29/2017 10:00
Matrix: Tissue SDG No.: 40157694
Date Extracted: 04/11/2018 06:59
Lab Sample ID: 40157694001
Date Analyzed: 04/12/2018 13:10
Lab File ID: 041218.B\041218009.D
Initial wt/vol: 10.0269 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)	79.3	J
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)	295	
11097-69-1	PCB-1254 (Aroclor 1254)	159	
11096-82-5	PCB-1260 (Aroclor 1260)	37.7	J
1336-36-3	PCB, Total	571	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041218.b\041218009.D
Lab Smp Id: 40157694001 Client Smp ID: ND5-170615-01-YP-10
Inj Date : 12-APR-2018 13:10
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157694001 x2,
Misc Info : 17661,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041218.b\pcba030618.m
Meth Date : 19-Apr-2018 09:02 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 9
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	10.027	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS	REVIEW CODE
1.426	9287	8062	0.868	0.02			
1.805	20903	11193	0.535	0.05		1 Aroclor 1221	BA
2.412	174253	133613	0.767	0.45		1 Aroclor 1221	BA
2.485	5606168	5227985	0.933	14.98	$	2 Tetrachloro-m-xylene	BA
2.686	19509	13171	0.675	0.05		1 Aroclor 1221	BA
2.790	34055	24235	0.712	0.08		1 Aroclor 1221	BA
2.851	47556	37550	0.790	0.12		1 Aroclor 1221	BA
3.018	28056	27396	0.976	0.07			
3.055	172054	157039	0.913	0.44			
3.318	82941	76397	0.921	0.21			
3.346	83085	74797	0.900	0.21			
3.434	266696	242516	0.909	0.69			
3.520	240829	217944	0.905	0.62			
3.644	43452	36424	0.838	0.11			
3.733	222210	208756	0.939	0.57			
3.757	83863	81818	0.976	0.21			
3.814	855561	498185	0.582	2.21			
3.939	208900	166219	0.796	0.54			
3.994	196757	176218	0.896	0.50			
4.059	109203	92875	0.850	0.28			
4.137	19251	16160	0.839	0.04			
4.215	1297692	1168693	0.901	3.35			
4.261	1273634	1191042	0.935	3.29		6 Aroclor 1248	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.293	1454135	1232202	0.847	3.76	
4.351	33484	23642	0.706	0.08	
4.418	434991	399788	0.919	1.12	
4.452	402495	358357	0.890	1.04	
4.546	940140	868078	0.923	2.43	6 Aroclor 1248
4.590	133721	122522	0.916	0.34	
4.617	118767	96065	0.809	0.30	
4.681	125237	105714	0.844	0.32	
4.737	137464	105057	0.764	0.35	
4.769	251185	233546	0.930	0.65	
4.812	580384	548373	0.945	1.50	6 Aroclor 1248
4.848	424625	386911	0.911	1.09	
4.894	1509617	746892	0.495	3.90	6 Aroclor 1248
4.958	402412	335101	0.833	1.04	
5.037	441929	386674	0.875	1.14	6 Aroclor 1248
5.101	738652	631364	0.855	1.91	
5.161	916695	785139	0.856	2.37	7 Aroclor 1254
5.212	770820	659457	0.856	1.99	
5.285	116434	110357	0.948	0.30	
5.308	225117	190587	0.847	0.58	
5.362	271651	228969	0.843	0.70	
5.408	619185	541238	0.874	1.60	7 Aroclor 1254
5.449	596842	486913	0.816	1.54	
5.478	119473	108136	0.905	0.30	
5.509	1218502	1077201	0.884	3.15	7 Aroclor 1254
5.576	78770	66499	0.844	0.20	
5.603	168674	133770	0.793	0.43	
5.675	394235	357821	0.908	1.02	
5.710	218146	179719	0.824	0.56	
5.742	276189	208527	0.755	0.71	
5.790	1350998	982364	0.727	3.49	
5.884	185080	127190	0.687	0.47	
5.932	152883	121026	0.792	0.39	
5.994	287958	252723	0.878	0.74	
6.025	619029	519291	0.839	1.60	7 Aroclor 1254
6.056	750469	618820	0.825	1.94	
6.169	206871	107810	0.521	0.53	
6.227	65096	77746	1.194	0.16	
6.241	144493	100981	0.699	0.37	
6.302	1269417	1026566	0.809	3.28	7 Aroclor 1254
6.333	103350	111150	1.075	0.26	
6.373	67909	46521	0.685	0.17	
6.432	196030	148809	0.759	0.50	
6.510	375625	329438	0.877	0.97	
6.536	235067	206212	0.877	0.60	
6.560	99713	82827	0.831	0.25	
6.607	32116	22648	0.705	0.08	
6.661	37571	23686	0.630	0.09	
6.717	118467	92597	0.782	0.30	
6.759	162173	132480	0.817	0.41	
6.802	155873	131980	0.847	0.40	
6.840	91017	58646	0.644	0.23	
6.914	21738	17322	0.797	0.05	
6.943	90152	74898	0.831	0.23	
7.005	248188	219714	0.885	0.64	8 Aroclor 1260
7.035	25792	30698	1.190	0.06	
7.074	14879	9056	0.609	0.03	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.122	37233	20800	0.559	0.09	
7.253	165068	130619	0.791	0.42	8 Aroclor 1260
7.283	90456	60723	0.671	0.23	
7.338	43181	24255	0.562	0.11	
7.390	101035	91981	0.910	0.26	
7.444	160609	109909	0.684	0.41	8 Aroclor 1260
7.539	21835	13779	0.631	0.05	
7.576	13930	12164	0.873	0.03	
7.616	24136	12980	0.538	0.06	
7.660	16326	15554	0.953	0.04	
7.695	35862	34737	0.969	0.09	
7.726	62030	47135	0.760	0.16	
7.801	58225	30293	0.520	0.15	
7.902	96996	68268	0.704	0.25	8 Aroclor 1260
8.051	20564	16118	0.784	0.05	
8.276	97948	86973	0.888	0.25	
8.380	10134	9091	0.897	0.02	
8.571	5225348	4443510	0.850	13.52	$ 12 Decachlorobiphenyl
9.169	15773	14110	0.895	0.04	
9.953	11053	8467	0.766	0.02	
	38631580	32527572		100.000	

Total unknown % area = 45

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041218.b\041218009.D
Lab Smp Id: 40157694001 Client Smp ID: ND5-170615-01-YP-10
Inj Date : 12-APR-2018 13:10
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157694001 x2,
Misc Info : 17661,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041218.b\pcba030618.m
Meth Date : 19-Apr-2018 09:02 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 9
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	10.027	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			
1.804	1.804	0.000	20902	0.02007	20	0.00- 20.00	100.00(M)	BA
2.411	2.407	0.004	174253	0.31807	320	0.00- 20.00	833.67	BA
2.685	2.688	-0.003	19509	0.01410	14	0.00- 20.00	93.34	BA
2.789	2.789	0.000	34054	0.03080	31	0.00- 20.00	162.92	BA
2.850	2.851	-0.001	47556	0.01461	14	0.00- 20.00	227.52	BA
Average of Peak Concentrations =					79			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	5606167	0.04547	45		(M)	BA
3 Aroclor 1242					CAS #: 53469-21-9			

Operator disabled compound identification.

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			
4.260	4.261	-0.001	1273633	0.54360	540	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	940139	0.22652	220	0.00- 20.00	73.82	BA
4.812	4.812	0.000	580383	0.28589	280	0.00- 20.00	45.57	BA
4.893	4.879	0.014	1509617	0.29968	300	0.00- 20.00	118.53	BA
5.037	5.038	-0.001	441929	0.12315	120	0.00- 20.00	34.70	BA
Average of Peak Concentrations =					290			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	916694	0.17510	170	0.00- 20.00	100.00(M)	CO
5.407	5.408	-0.001	619185	0.14396	140	0.00- 20.00	67.55	CO
5.509	5.510	-0.001	1218502	0.15690	160	0.00- 20.00	132.92	CO
6.024	6.027	-0.003	619028	0.12712	130	0.00- 20.00	67.53	CO
6.301	6.299	0.002	1269416	0.19508	190	0.00- 20.00	138.48	CO
Average of Peak Concentrations =					160			
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
7.005	7.006	-0.001	248187	0.02478	25	0.00- 20.00	19.96	CO
7.251	7.251	0.000	165067	0.03453	34	0.00- 20.00	12.04	CO
7.443	7.443	0.000	160608	0.05509	55	0.00- 20.00	11.71	CO
7.901	7.901	0.000	96996	0.03676	37	0.00- 20.00	7.07	CO
Average of Peak Concentrations =					38			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	5225348	0.04769	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\041218.b\041218009.D

Date : 12-APR-2018 13:10

Client ID: ND5-170615-01-YP-10

Instrument: 40GCSJ.i

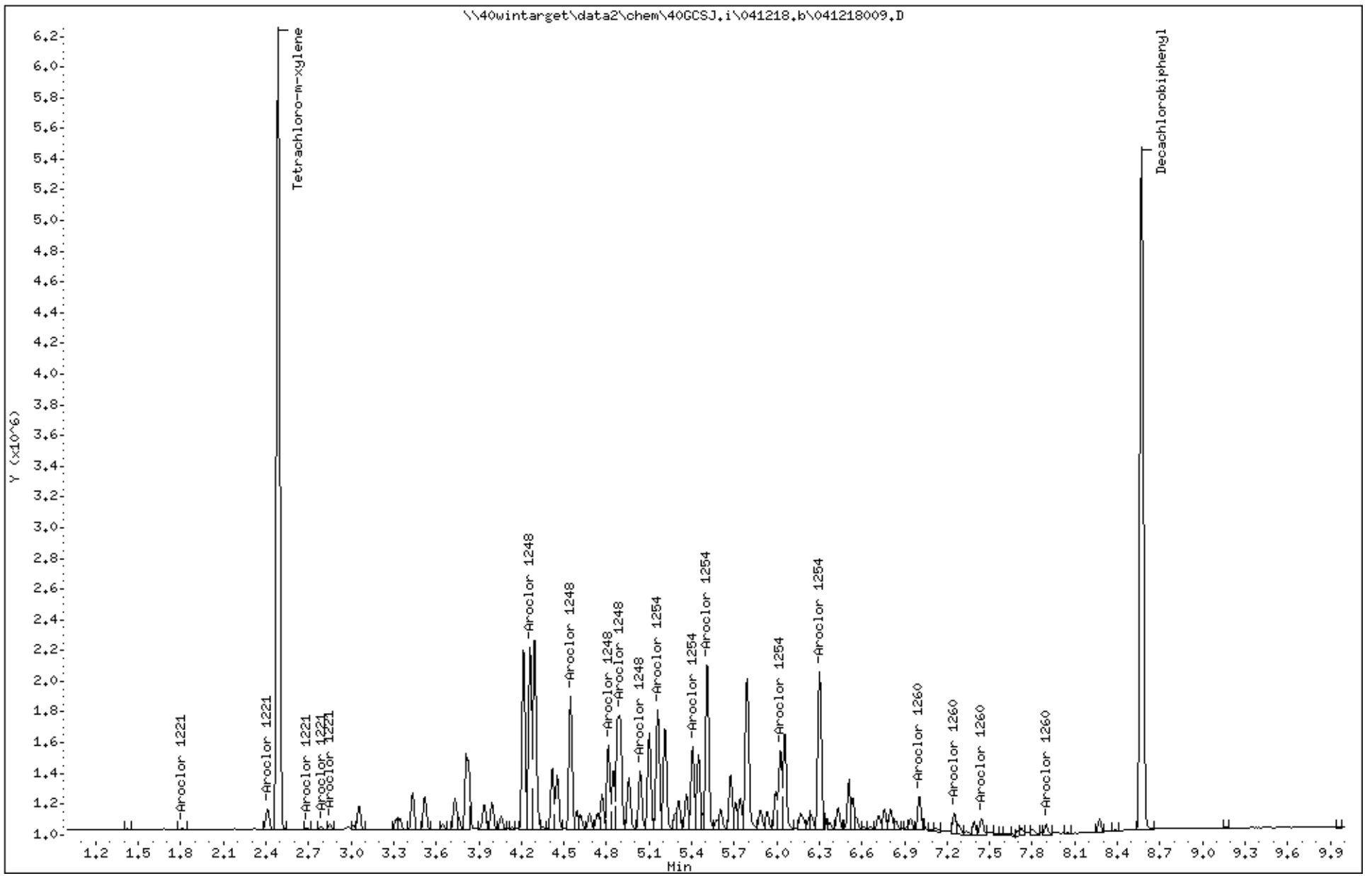
Sample Info: 40157694001 x2,

Volume Injected (uL): 1.0

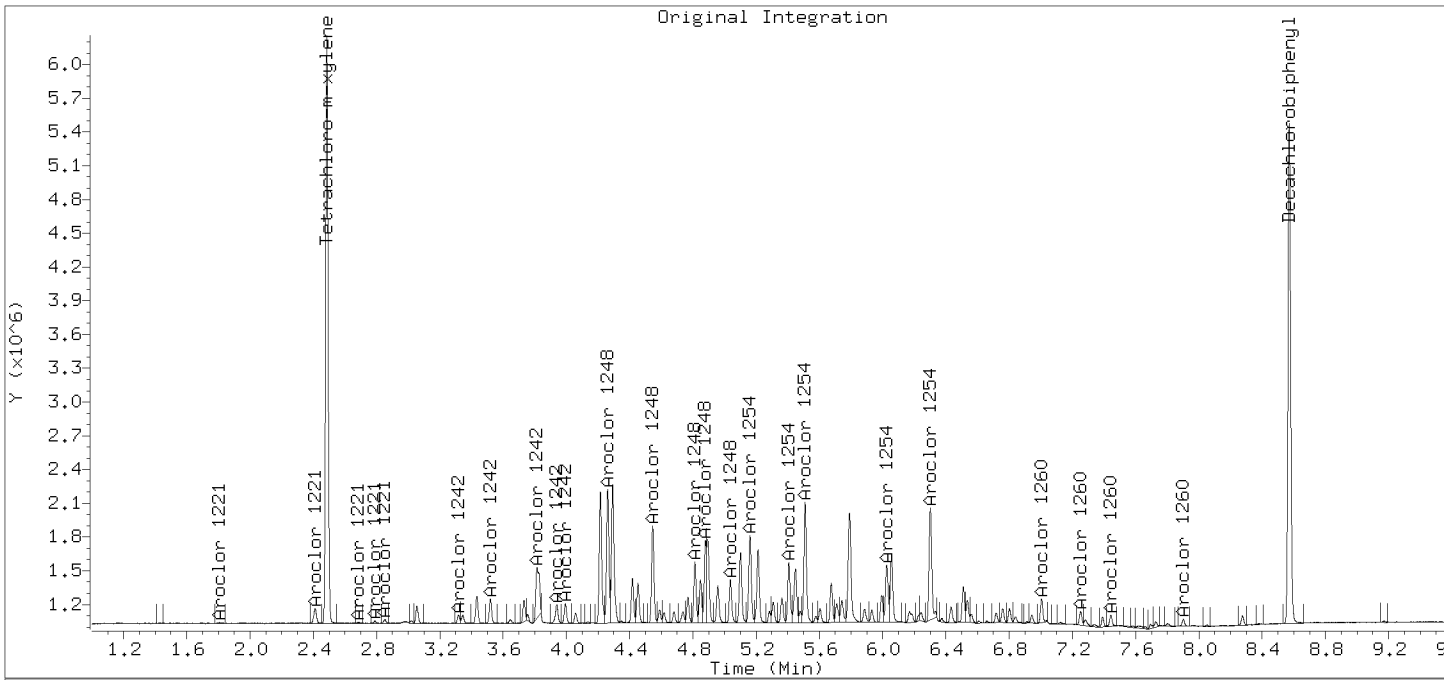
Operator: BLM

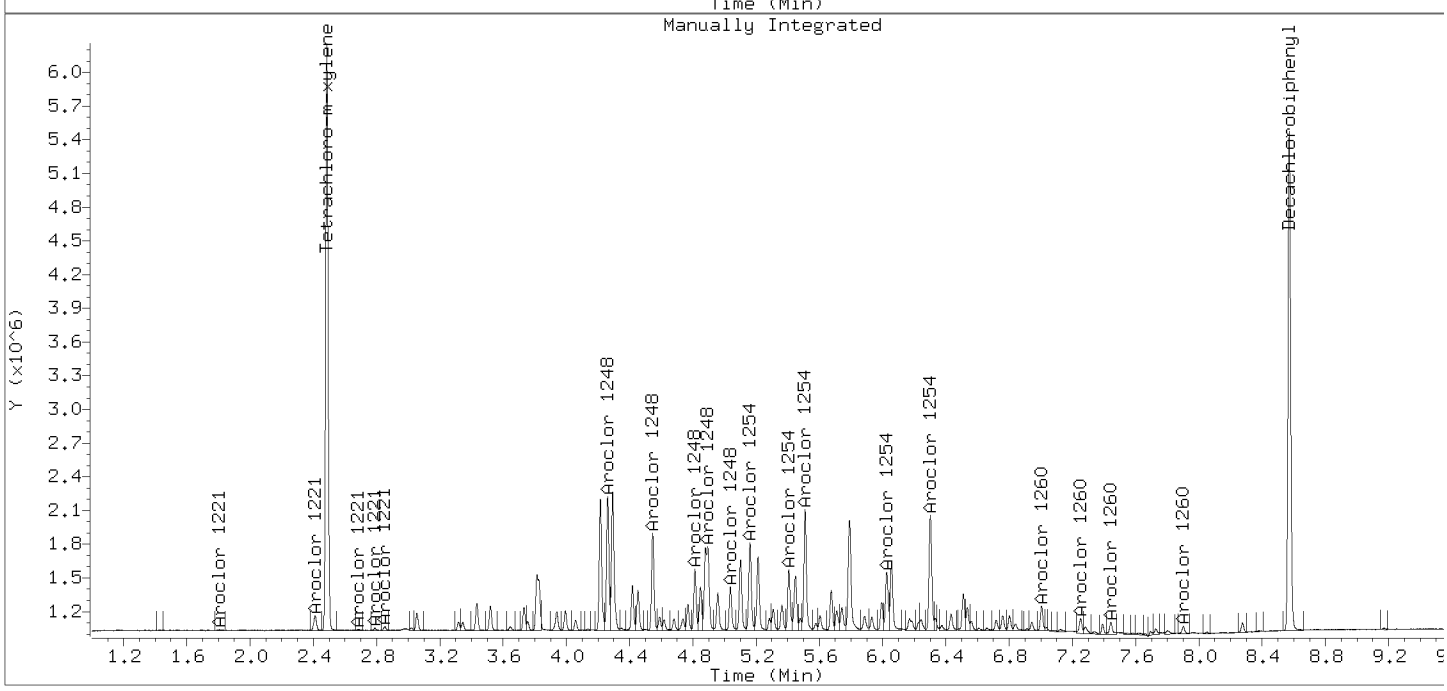
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041218.b/041218009.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 12-APR-2018 13:10 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157694001





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	81181	0	
Aroclor 1016	81181	0	
Aroclor 1016	81181	0	
Aroclor 1016	81181	0	
Aroclor 1016	81181	0	
Aroclor 1221	16726	20902	BA
Aroclor 1221	16726	20902	BA
Aroclor 1221	16726	20902	BA
Aroclor 1221	16726	20902	BA
Aroclor 1221	16726	20902	BA
Aroclor 1232	42326	0	
Aroclor 1232	42326	0	
Aroclor 1232	42326	0	
Aroclor 1232	42326	0	

Aroclor 1232	42326	0	
Aroclor 1242	81181	0	
Aroclor 1242	81181	0	
Aroclor 1242	81181	0	
Aroclor 1242	81181	0	
Aroclor 1242	81181	0	
Aroclor 1248	1262457	1273633	BA
Aroclor 1248	1262457	1273633	BA
Aroclor 1248	1262457	1273633	BA
Aroclor 1248	1262457	1273633	BA
Aroclor 1248	1262457	1273633	BA
Aroclor 1254	891996	916694	CO
Aroclor 1254	891996	916694	CO
Aroclor 1254	891996	916694	CO
Aroclor 1254	891996	916694	CO
Aroclor 1254	891996	916694	CO
Aroclor 1260	1221930	0	CO
Aroclor 1260	1221930	0	CO
Aroclor 1260	1221930	0	CO
Aroclor 1260	1221930	0	CO
Aroclor 1260	1221930	0	CO
Tetrachloro-m-xylene	5588564	5606167	BA
Decachlorobiphenyl	5225348	5225348	

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SAMPLE NO.

ND5-170615-01-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: 09/29/2017 10:00
Matrix: Tissue SDG No.: 40157694
Date Extracted: 04/11/2018 06:59
Lab Sample ID: 40157694002
Date Analyzed: 04/12/2018 13:26
Lab File ID: 041218.B\041218010.D
Initial wt/vol: 9.9867 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)	<22.8	U
11104-28-2	PCB-1221 (Aroclor 1221)	226	
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)	637	
11097-69-1	PCB-1254 (Aroclor 1254)	293	
11096-82-5	PCB-1260 (Aroclor 1260)	56.7	J
1336-36-3	PCB, Total	1210	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041218.b\041218010.D
Lab Smp Id: 40157694002 Client Smp ID: ND5-170615-01-YP-09
Inj Date : 12-APR-2018 13:26
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157694002 x2,
Misc Info : 17661,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041218.b\pcba030618.m
Meth Date : 19-Apr-2018 09:02 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 10
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	9.987	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.162	23979	17486	0.729	0.03		
1.803	32352	23125	0.715	0.04	1 Aroclor 1221	BA
2.410	521762	402758	0.772	0.77	1 Aroclor 1221	BA
2.485	6303120	5823178	0.924	10.03	$ 2 Tetrachloro-m-xylene	BA
2.687	37005	26065	0.704	0.05	1 Aroclor 1221	BA
2.790	66259	55949	0.844	0.09	1 Aroclor 1221	BA
2.851	185279	159827	0.863	0.27	1 Aroclor 1221	BA
2.991	126899	67331	0.531	0.18		
3.019	78895	75737	0.960	0.11		
3.055	502536	464227	0.924	0.75		
3.318	239850	232180	0.968	0.35		
3.344	351038	321516	0.916	0.52		
3.433	613602	572561	0.933	0.91		
3.519	753742	698892	0.927	1.12		
3.646	88512	75535	0.853	0.13		
3.732	404655	394301	0.974	0.60		
3.756	216786	205957	0.950	0.32		
3.827	2819007	1697052	0.602	4.21		
3.939	444406	318432	0.717	0.66		
3.994	540044	500274	0.926	0.80		
4.058	204852	179335	0.875	0.30		
4.139	47343	37537	0.793	0.07		
4.215	2231888	2016634	0.904	3.33		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.262	2306275	2130057	0.924	3.44	6 Aroclor 1248
4.292	2681432	2195091	0.819	4.00	
4.417	1051648	999131	0.950	1.57	
4.453	855445	755367	0.883	1.27	
4.545	1979998	1771717	0.895	2.95	6 Aroclor 1248
4.590	201420	182996	0.909	0.30	
4.618	261786	216701	0.828	0.39	
4.681	175526	144881	0.825	0.26	
4.736	226584	163427	0.721	0.33	
4.768	394051	353006	0.896	0.58	
4.813	1452121	1381724	0.952	2.16	6 Aroclor 1248
4.848	1149267	1069576	0.931	1.71	
4.879	3454176	2083538	0.603	5.15	6 Aroclor 1248
4.957	621042	533163	0.858	0.92	
5.038	1142086	1016069	0.890	1.70	6 Aroclor 1248
5.101	1168825	962522	0.823	1.74	
5.162	1702846	1438285	0.845	2.54	7 Aroclor 1254
5.213	1477351	1294814	0.876	2.20	
5.255	46235	44235	0.957	0.06	
5.283	193572	179157	0.926	0.28	
5.308	330608	274237	0.829	0.49	
5.363	558616	496079	0.888	0.83	
5.407	1123525	1004349	0.894	1.67	7 Aroclor 1254
5.449	1111712	916683	0.825	1.66	
5.479	186994	171508	0.917	0.27	
5.510	2228109	1872895	0.841	3.32	7 Aroclor 1254
5.578	132552	103253	0.779	0.19	
5.604	337979	262589	0.777	0.50	
5.675	583110	534068	0.916	0.87	
5.711	355913	273856	0.769	0.53	
5.741	452640	346474	0.765	0.67	
5.791	2612394	1937050	0.741	3.90	
5.886	305990	199544	0.652	0.45	
5.931	245458	181735	0.740	0.36	
5.994	447657	412252	0.921	0.66	
6.025	1216057	1044582	0.859	1.81	7 Aroclor 1254
6.056	1401466	1168144	0.834	2.09	
6.124	46145	26694	0.578	0.06	
6.169	361500	204884	0.567	0.53	
6.231	133299	138729	1.041	0.19	
6.241	236690	183084	0.774	0.35	
6.301	2216598	1753728	0.791	3.31	7 Aroclor 1254
6.333	224664	203498	0.906	0.33	
6.374	125055	88055	0.704	0.18	
6.432	283701	207146	0.730	0.42	
6.482	30351	26396	0.870	0.04	
6.510	602397	558116	0.926	0.89	
6.536	464474	400492	0.862	0.69	
6.560	151518	133492	0.881	0.22	
6.605	95587	57538	0.602	0.14	
6.660	56008	37781	0.675	0.08	
6.696	10209	15872	1.555	0.01	
6.718	182018	151463	0.832	0.27	
6.759	226367	185300	0.819	0.33	
6.802	285134	238306	0.836	0.42	
6.842	157712	97584	0.619	0.23	
6.912	34134	27366	0.802	0.05	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.943	164506	144176	0.876	0.24	
7.004	420938	372644	0.885	0.62	8 Aroclor 1260
7.034	57729	49710	0.861	0.08	
7.074	8964	11251	1.255	0.01	
7.096	5655	7811	1.381	0.00	
7.124	38091	24129	0.633	0.05	
7.252	252364	215060	0.852	0.37	8 Aroclor 1260
7.284	125045	83278	0.666	0.18	
7.341	49109	27495	0.560	0.07	
7.390	146452	135973	0.928	0.21	
7.444	230513	159167	0.690	0.34	8 Aroclor 1260
7.550	31829	21007	0.660	0.04	
7.622	31826	22207	0.698	0.04	
7.663	20634	25025	1.213	0.03	
7.696	39812	38590	0.969	0.05	
7.727	76488	53866	0.704	0.11	
7.765	19800	16930	0.855	0.02	
7.810	82547	40041	0.485	0.12	
7.901	138778	110657	0.797	0.20	8 Aroclor 1260
7.965	30427	15885	0.522	0.04	
8.049	82630	68811	0.833	0.12	
8.274	134125	109693	0.818	0.20	
8.378	13192	9612	0.729	0.01	
8.572	5748934	4981326	0.866	8.58	$ 12 Decachlorobiphenyl
8.672	10497	9438	0.899	0.01	
8.718	12825	10133	0.790	0.01	
9.058	14973	10494	0.701	0.02	
9.173	18480	16774	0.908	0.02	
9.961	9238	6927	0.750	0.01	
	66946243	56014278		100.000	

Total unknown % area = 50

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041218.b\041218010.D
Lab Smp Id: 40157694002 Client Smp ID: ND5-170615-01-YP-09
Inj Date : 12-APR-2018 13:26
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157694002 x2,
Misc Info : 17661,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041218.b\pcba030618.m
Meth Date : 19-Apr-2018 09:02 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 10
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	9.987	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			
1.803	1.804	-0.001	32351	0.03107	31	0.00- 20.00	100.00(M)	BA
2.410	2.407	0.003	521761	0.95239	950	0.00- 20.00	1612.81	BA
2.687	2.688	-0.001	37005	0.02675	27	0.00- 20.00	114.39	BA
2.790	2.789	0.001	66258	0.05992	60	0.00- 20.00	204.81	BA
2.850	2.851	-0.001	185278	0.05691	57	0.00- 20.00	572.71	BA
Average of Peak Concentrations =					220			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	6303120	0.05112	51		(M)	BA
3 Aroclor 1242					CAS #: 53469-21-9			

Operator disabled compound identification.

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			
4.261	4.261	0.000	2306274	0.98434	980	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1979998	0.47707	480	0.00- 20.00	85.85	BA
4.812	4.812	0.000	1452120	0.71530	720	0.00- 20.00	62.96	BA
4.879	4.879	0.000	3454176	0.68570	690	0.00- 20.00	149.77	BA
5.037	5.038	-0.001	1142086	0.31826	320	0.00- 20.00	49.52	BA
Average of Peak Concentrations =					640			
7 Aroclor 1254					CAS #: 11097-69-1			
5.162	5.162	0.000	1702846	0.32527	320	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	1123525	0.26122	260	0.00- 20.00	65.98	BA
5.510	5.510	0.000	2228109	0.28690	290	0.00- 20.00	130.85	BA
6.025	6.027	-0.002	1216056	0.24972	250	0.00- 20.00	71.41	BA
6.300	6.299	0.001	2216597	0.34064	340	0.00- 20.00	130.17	BA
Average of Peak Concentrations =					290			
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	420938	0.04203	42	0.00- 20.00	18.99	BA
7.252	7.251	0.001	252364	0.05280	53	0.00- 20.00	11.39	BA
7.443	7.443	0.000	230513	0.07908	79	0.00- 20.00	10.40	BA
7.901	7.901	0.000	138777	0.05259	53	0.00- 20.00	6.26	BA
Average of Peak Concentrations =					57			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.572	8.571	0.001	5748934	0.05247	52			

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\041218.b\041218010.D

Date : 12-APR-2018 13:26

Client ID: ND5-170615-01-YP-09

Instrument: 40GCSJ.i

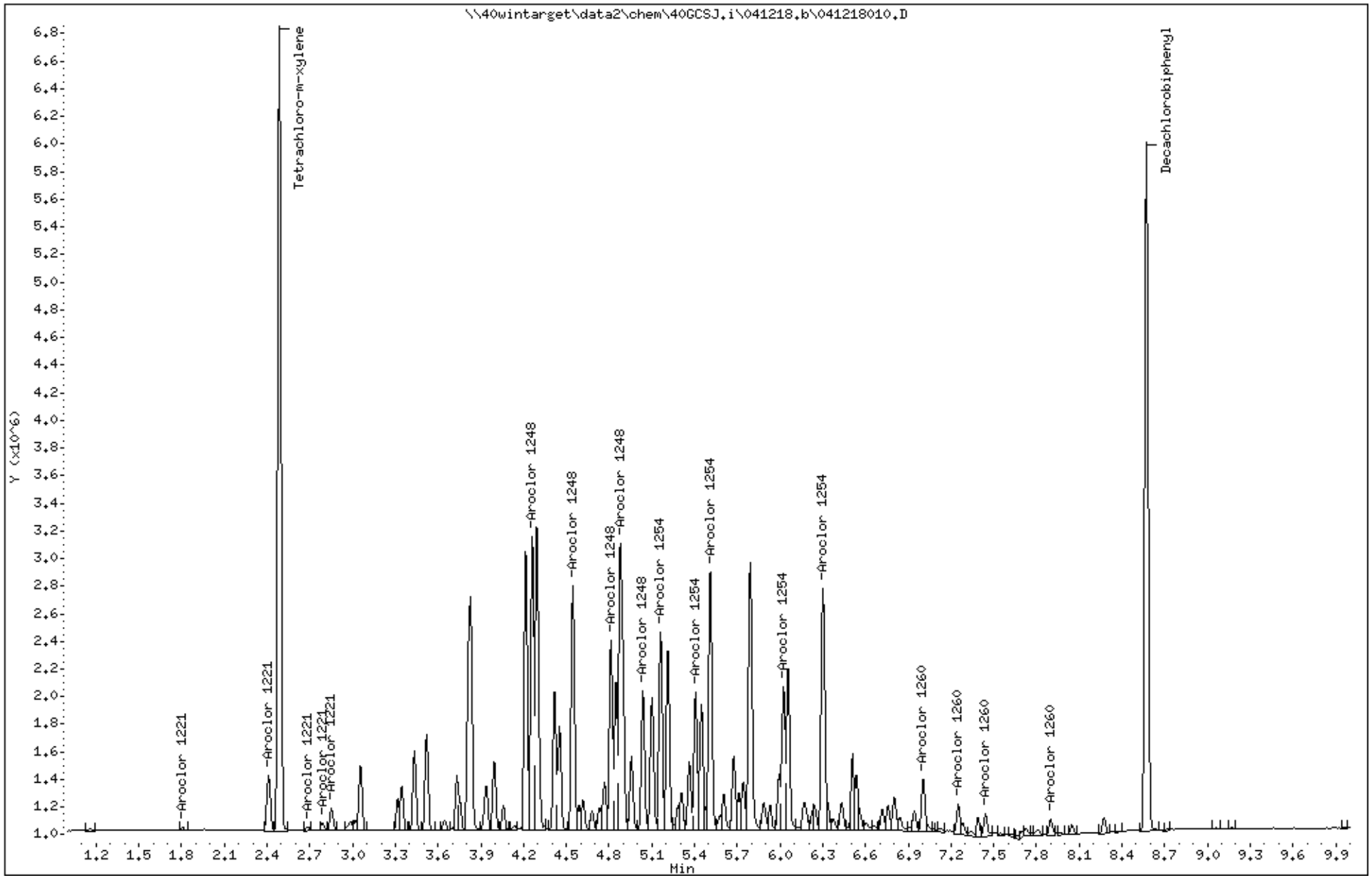
Sample Info: 40157694002 x2,

Volume Injected (uL): 1.0

Operator: BLM

Column phase: ZB-1ms

Column diameter: 0.18



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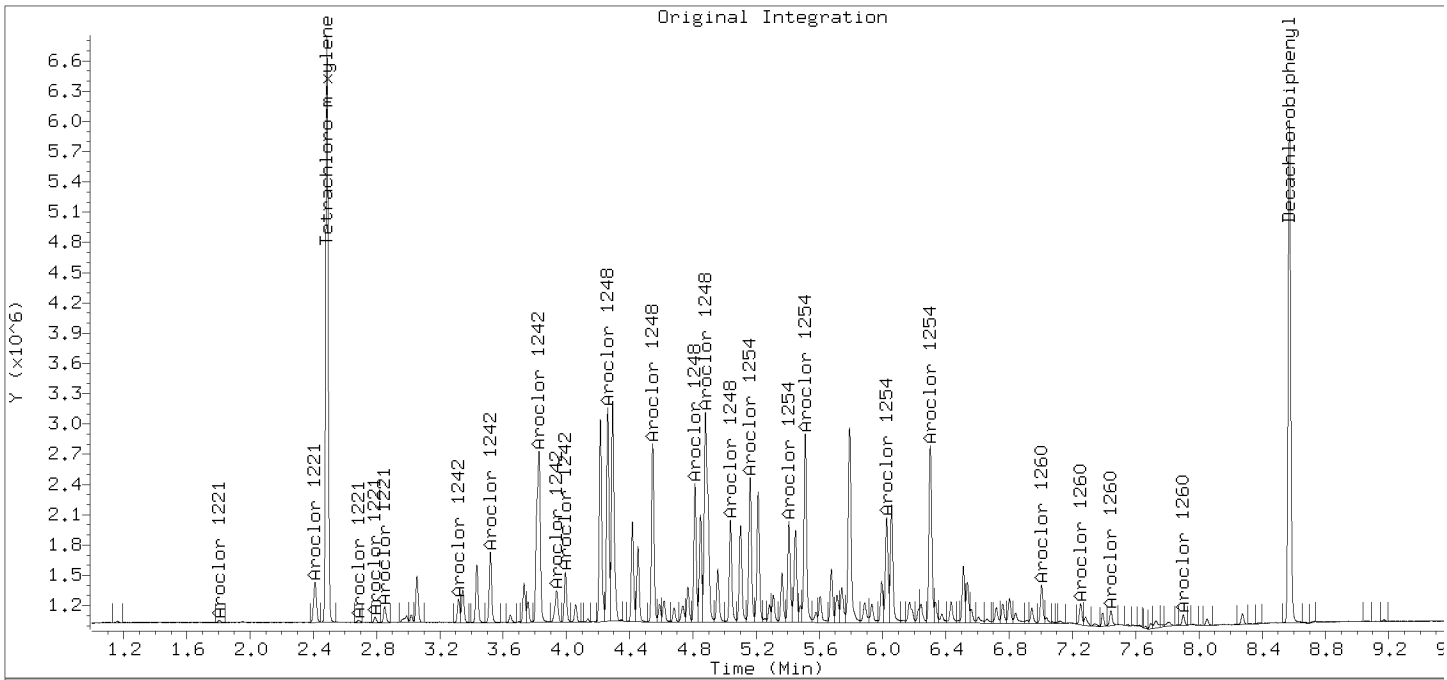
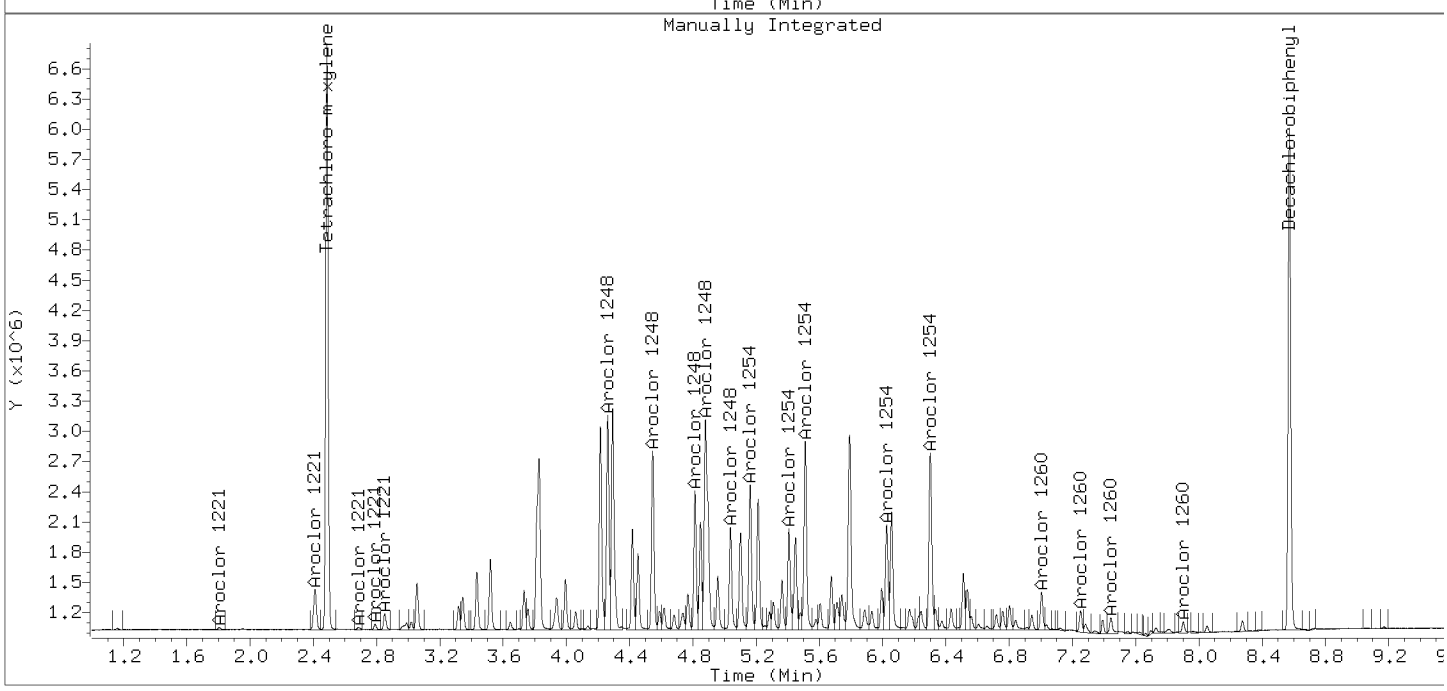
Injection Date: 12-APR-2018 13:26 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157694002





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	239850	0	
Aroclor 1016	239850	0	
Aroclor 1016	239850	0	
Aroclor 1016	239850	0	
Aroclor 1016	239850	0	
Aroclor 1221	31258	32351	BA
Aroclor 1221	31258	32351	BA
Aroclor 1221	31258	32351	BA
Aroclor 1221	31258	32351	BA
Aroclor 1221	31258	32351	BA
Aroclor 1232	179077	0	
Aroclor 1232	179077	0	
Aroclor 1232	179077	0	
Aroclor 1232	179077	0	

Aroclor 1232	179077	0	
Aroclor 1242	239850	0	
Aroclor 1242	239850	0	
Aroclor 1242	239850	0	
Aroclor 1242	239850	0	
Aroclor 1242	239850	0	
Aroclor 1248	2270926	2306274	BA
Aroclor 1248	2270926	2306274	BA
Aroclor 1248	2270926	2306274	BA
Aroclor 1248	2270926	2306274	BA
Aroclor 1248	2270926	2306274	BA
Aroclor 1254	1688358	1702846	BA
Aroclor 1254	1688358	1702846	BA
Aroclor 1254	1688358	1702846	BA
Aroclor 1254	1688358	1702846	BA
Aroclor 1254	1688358	1702846	BA
Aroclor 1260	2221227	0	BA
Aroclor 1260	2221227	0	BA
Aroclor 1260	2221227	0	BA
Aroclor 1260	2221227	0	BA
Aroclor 1260	2221227	0	BA
Tetrachloro-m-xylene	6280004	6303120	BA
Decachlorobiphenyl	5748934	5748934	

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SAMPLE NO.

ND5-170615-01-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: 09/29/2017 10:00
Matrix: Tissue SDG No.: 40157694
Date Extracted: 04/11/2018 06:59
Lab Sample ID: 40157694003
Date Analyzed: 04/12/2018 13:42
Lab File ID: 041218.B\041218011.D
Initial wt/vol: 9.9709 g Final wt/vol: 5 mL Dilution: 4
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<45.7	U
11104-28-2	PCB-1221 (Aroclor 1221)	232	
11141-16-5	PCB-1232 (Aroclor 1232)	<45.7	U
53469-21-9	PCB-1242 (Aroclor 1242)	<45.7	U
12672-29-6	PCB-1248 (Aroclor 1248)	983	
11097-69-1	PCB-1254 (Aroclor 1254)	461	
11096-82-5	PCB-1260 (Aroclor 1260)	78.1	J
1336-36-3	PCB, Total	1750	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041218.b\041218011.D
Lab Smp Id: 40157694003 Client Smp ID: ND5-170615-01-YP-08
Inj Date : 12-APR-2018 13:42
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157694003 x4,
Misc Info : 17661,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041218.b\pcba030618.m
Meth Date : 19-Apr-2018 09:02 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 11
Dil Factor: 4.00000
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	4.000	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	9.971	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS	REVIEW CODE
1.808	21153	12547	0.593	0.04		1 Aroclor 1221	BA
1.950	12744	10747	0.843	0.02			
2.412	257163	190700	0.742	0.53		1 Aroclor 1221	BA
2.485	3361233	2979167	0.886	7.50	$	2 Tetrachloro-m-xylene	BA
2.688	28499	16472	0.578	0.05		1 Aroclor 1221	BA
2.791	42973	34341	0.799	0.08		1 Aroclor 1221	BA
2.851	94406	77690	0.823	0.19		1 Aroclor 1221	BA
2.975	59611	29504	0.495	0.12			
3.020	43525	39386	0.905	0.09			
3.056	225150	201908	0.897	0.46			
3.199	12634	8089	0.640	0.02			
3.318	205244	193655	0.944	0.42			
3.344	208754	190166	0.911	0.43			
3.435	431340	395025	0.916	0.89			
3.519	349173	298559	0.855	0.72			
3.646	54654	47466	0.868	0.11			
3.732	383464	359902	0.939	0.79			
3.756	159357	150907	0.947	0.33			
3.814	880892	931603	1.058	1.83			
3.826	848303	872753	1.029	1.76			
3.939	342621	249761	0.729	0.71			
3.995	317808	288986	0.909	0.66			
4.059	165990	150000	0.904	0.34			

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.134	32604	27782	0.852	0.06	
4.215	2026991	1815258	0.896	4.21	
4.261	2032205	1839508	0.905	4.22	6 Aroclor 1248
4.292	2174010	1766415	0.813	4.52	
4.348	36548	26663	0.730	0.07	
4.418	800755	751613	0.939	1.66	
4.452	689799	615032	0.892	1.43	
4.546	1623411	1479115	0.911	3.37	6 Aroclor 1248
4.589	174526	161605	0.926	0.36	
4.618	193141	160577	0.831	0.40	
4.681	156153	133944	0.858	0.32	
4.736	177151	133937	0.756	0.36	
4.769	345521	319628	0.925	0.71	
4.813	999612	931653	0.932	2.07	6 Aroclor 1248
4.848	801339	751232	0.937	1.66	
4.880	2501619	1305180	0.522	5.20	6 Aroclor 1248
4.957	535627	462738	0.864	1.11	
5.037	731855	643526	0.879	1.52	6 Aroclor 1248
5.101	1043000	908733	0.871	2.16	
5.161	1297026	1094036	0.843	2.69	7 Aroclor 1254
5.212	1134875	969805	0.855	2.36	
5.285	164697	153379	0.931	0.34	
5.307	308748	252096	0.817	0.64	
5.362	428307	389976	0.911	0.89	
5.407	887503	790706	0.891	1.84	7 Aroclor 1254
5.448	1014903	850508	0.838	2.11	
5.478	159463	146600	0.919	0.33	
5.510	1891900	1603235	0.847	3.93	7 Aroclor 1254
5.576	105619	83514	0.791	0.21	
5.604	255595	209206	0.819	0.53	
5.675	488227	448492	0.919	1.01	
5.710	301690	244103	0.809	0.62	
5.742	373288	274627	0.736	0.77	
5.790	1976186	1460668	0.739	4.11	
5.885	245179	164110	0.669	0.50	
5.931	189996	145928	0.768	0.39	
5.994	352778	313727	0.889	0.73	
6.026	904048	767227	0.849	1.88	7 Aroclor 1254
6.055	983020	810903	0.825	2.04	
6.170	254344	132038	0.519	0.52	
6.242	266362	141500	0.531	0.55	
6.300	1736515	1398260	0.805	3.61	7 Aroclor 1254
6.333	158777	140143	0.883	0.33	
6.374	91001	59849	0.658	0.18	
6.432	220370	174369	0.791	0.45	
6.510	467064	404790	0.867	0.97	
6.535	424112	293779	0.693	0.88	
6.609	65128	38825	0.596	0.13	
6.660	36960	27425	0.742	0.07	
6.719	143186	123193	0.860	0.29	
6.758	198686	167219	0.842	0.41	
6.801	200186	170509	0.852	0.41	
6.839	111162	72264	0.650	0.23	
6.912	25252	21118	0.836	0.05	
6.942	111178	88826	0.799	0.23	
7.005	293003	253392	0.865	0.60	8 Aroclor 1260
7.036	58749	42316	0.720	0.12	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.121	26319	18941	0.720	0.05	
7.251	185913	158305	0.852	0.38	8 Aroclor 1260
7.281	92703	68366	0.737	0.19	
7.339	27313	18617	0.682	0.05	
7.390	105092	105120	1.000	0.21	
7.444	152544	116989	0.767	0.31	8 Aroclor 1260
7.550	15542	12577	0.809	0.03	
7.663	22915	22459	0.980	0.04	
7.694	37453	34612	0.924	0.07	
7.728	51152	36331	0.710	0.10	
7.780	18155	17424	0.960	0.03	
7.800	44132	22906	0.519	0.09	
7.900	92949	74388	0.800	0.19	8 Aroclor 1260
7.965	21203	14017	0.661	0.04	
8.048	23177	19721	0.851	0.04	
8.274	75820	66977	0.883	0.15	
8.377	13353	8500	0.637	0.02	
8.571	3147699	2689956	0.855	6.54	$ 12 Decachlorobiphenyl
9.172	14117	13979	0.990	0.02	
	48075189	40406319		100.000	

Total unknown % area = 53

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041218.b\041218011.D
Lab Smp Id: 40157694003 Client Smp ID: ND5-170615-01-YP-08
Inj Date : 12-APR-2018 13:42
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157694003 x4,
Misc Info : 17661,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041218.b\pcba030618.m
Meth Date : 19-Apr-2018 09:02 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 11
Dil Factor: 4.00000
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	4.000	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	9.971	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			
1.807	1.804	0.003	21152	0.02031	41	0.00- 20.00	100.00(M)	BA
2.411	2.407	0.004	257163	0.46941	940	0.00- 20.00	1215.79	BA
2.687	2.688	-0.001	28499	0.02060	41	0.00- 20.00	134.73	BA
2.790	2.789	0.001	42973	0.03886	78	0.00- 20.00	203.16	BA
2.851	2.851	0.000	94406	0.02900	58	0.00- 20.00	446.32	BA
Average of Peak Concentrations =					230			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	3361233	0.02726	55		(M)	BA
3 Aroclor 1242					CAS #: 53469-21-9			

Operator disabled compound identification.

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			
4.261	4.261	0.000	2032204	0.86736	1700	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1623411	0.39115	780	0.00- 20.00	79.88	BA
4.812	4.812	0.000	999612	0.49240	990	0.00- 20.00	49.19	BA
4.880	4.879	0.001	2501619	0.49660	1000	0.00- 20.00	123.10	BA
5.037	5.038	-0.001	731855	0.20394	410	0.00- 20.00	36.01	BA
Average of Peak Concentrations =					980			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	1297025	0.24775	500	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	887502	0.20635	410	0.00- 20.00	68.43	BA
5.509	5.510	-0.001	1891899	0.24361	490	0.00- 20.00	145.86	BA
6.026	6.027	-0.001	904048	0.18565	370	0.00- 20.00	69.70	BA
6.300	6.299	0.001	1736514	0.26686	540	0.00- 20.00	133.88	BA
Average of Peak Concentrations =					460			
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	293002	0.02926	59	0.00- 20.00	16.87	BA
7.250	7.251	-0.001	185912	0.03890	78	0.00- 20.00	10.71	BA
7.443	7.443	0.000	152543	0.05233	100	0.00- 20.00	8.78	BA
7.899	7.901	-0.002	92949	0.03522	71	0.00- 20.00	5.35	BA
Average of Peak Concentrations =					78			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	3147698	0.02873	58			

QC Flag Legend

M - Compound response manually integrated.

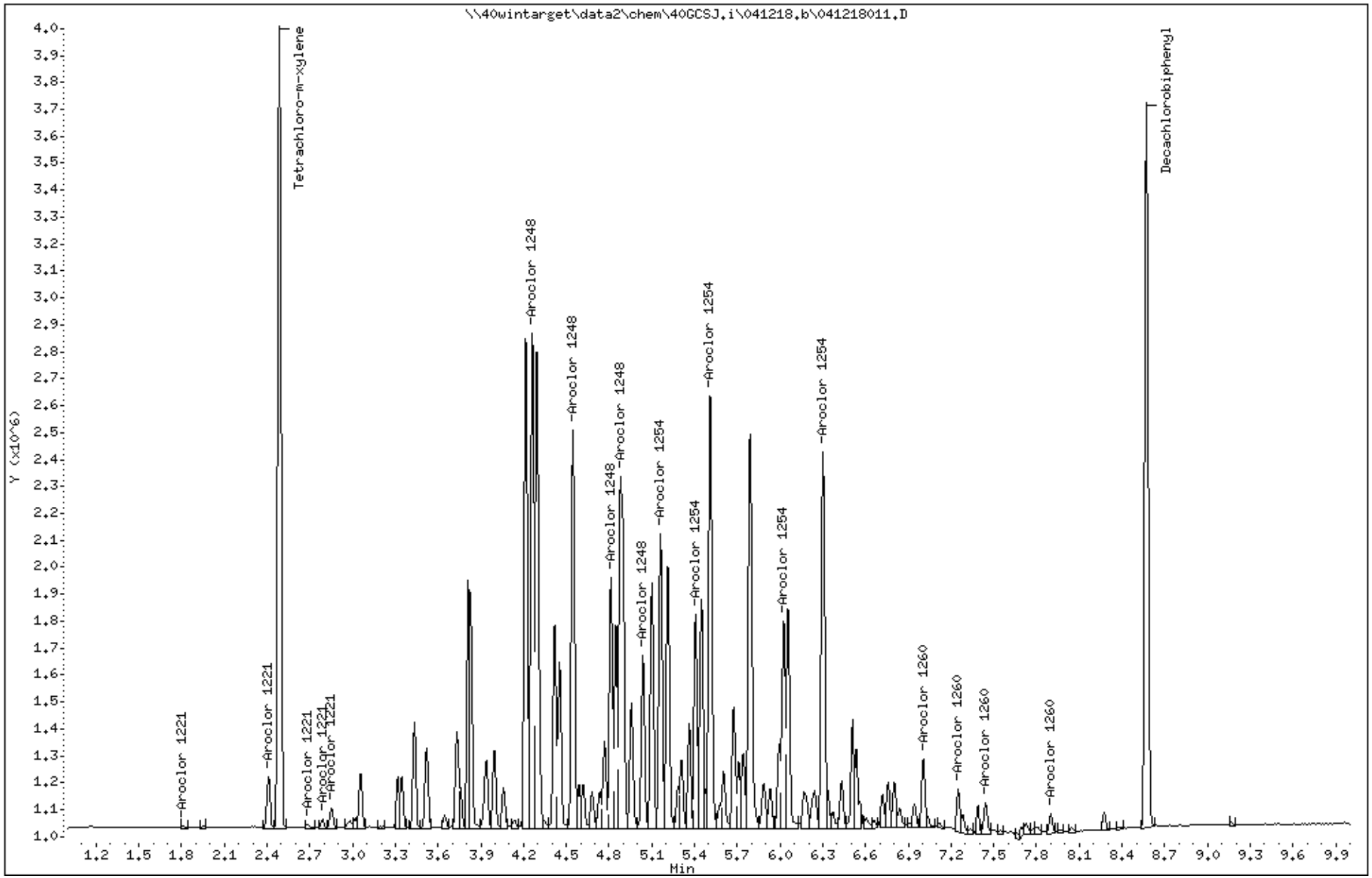
Review Codes Legend

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

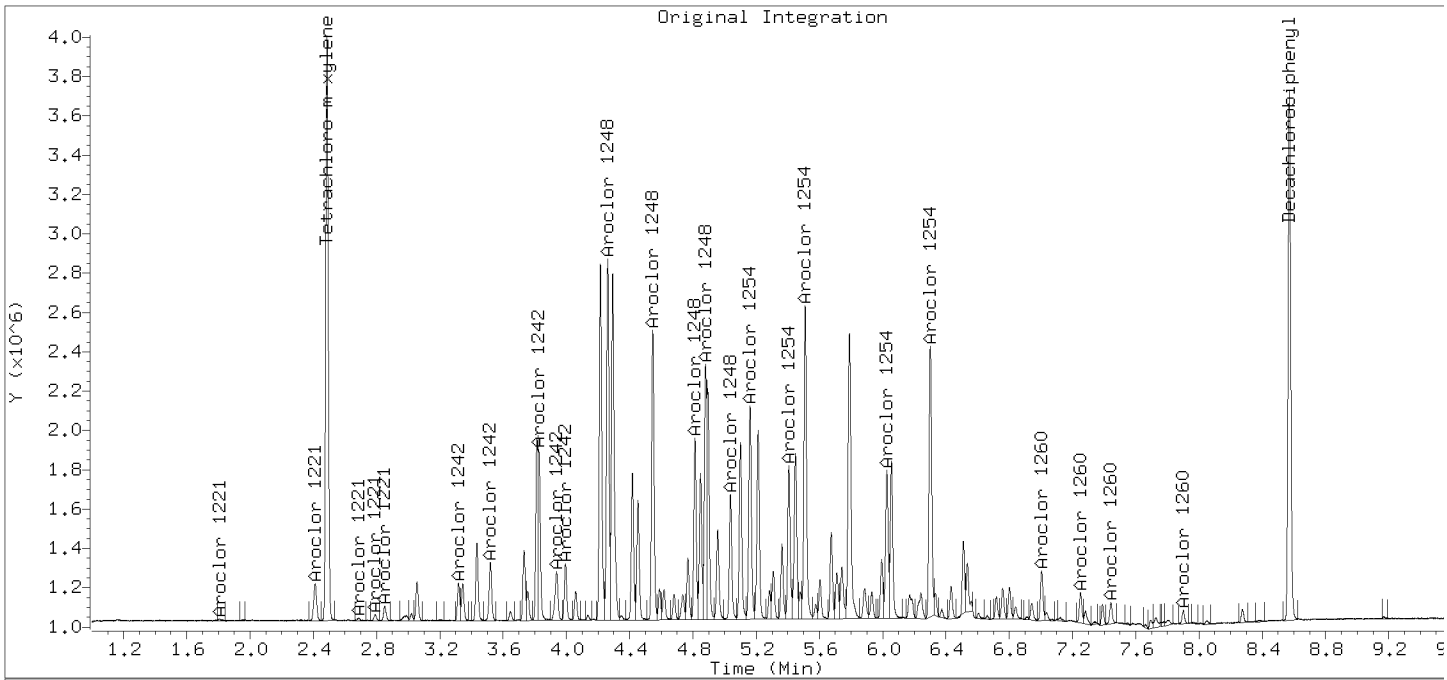
:

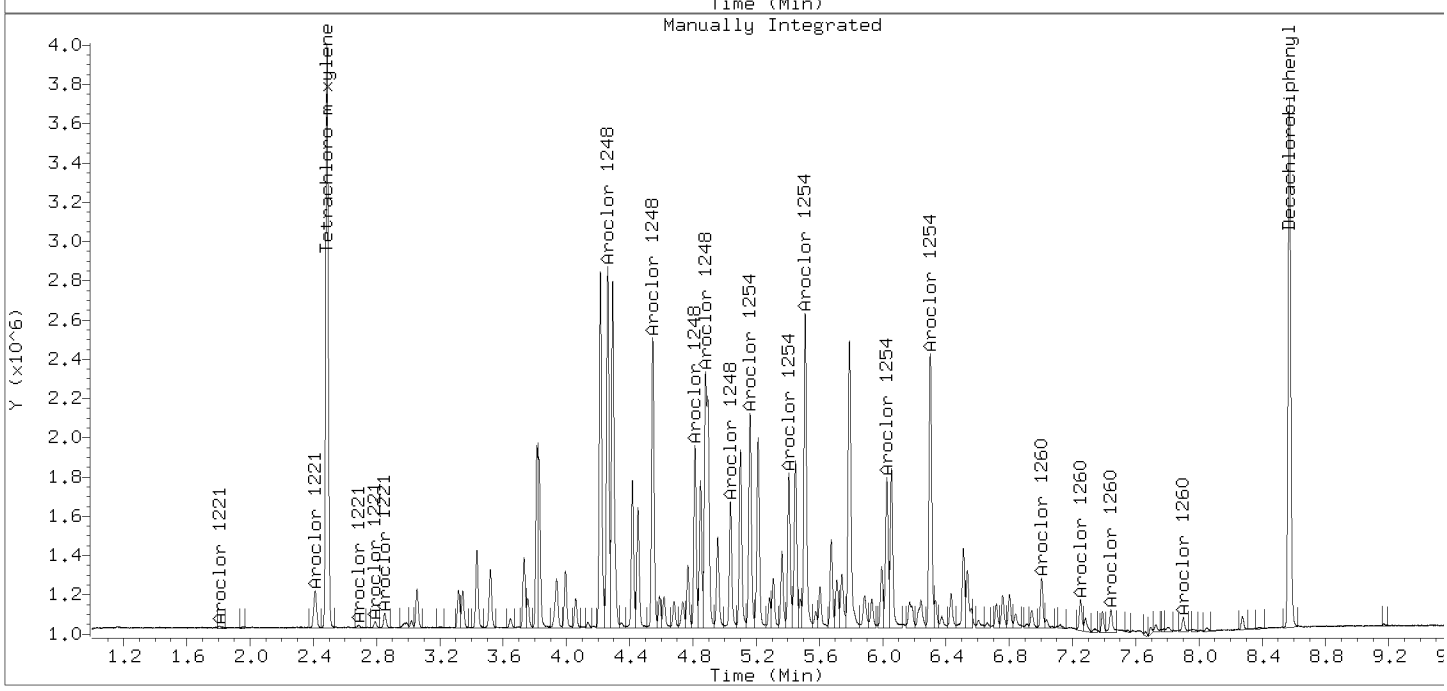
Data File: \\40wintarget\data2\chem\40GCSJ.i\041218.b\041218011.D
Date : 12-APR-2018 13:42
Client ID: ND5-170615-01-YP-08
Sample Info: 40157694003 x4,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\041218.b/041218011.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 12-APR-2018 13:42 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157694003





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	203523	0	
Aroclor 1016	203523	0	
Aroclor 1016	203523	0	
Aroclor 1016	203523	0	
Aroclor 1016	203523	0	
Aroclor 1221	18204	21152	BA
Aroclor 1221	18204	21152	BA
Aroclor 1221	18204	21152	BA
Aroclor 1221	18204	21152	BA
Aroclor 1221	18204	21152	BA
Aroclor 1232	86763	0	
Aroclor 1232	86763	0	
Aroclor 1232	86763	0	
Aroclor 1232	86763	0	

Aroclor 1232	86763	0	
Aroclor 1242	203523	0	
Aroclor 1242	203523	0	
Aroclor 1242	203523	0	
Aroclor 1242	203523	0	
Aroclor 1242	203523	0	
Aroclor 1248	2022060	2032204	BA
Aroclor 1248	2022060	2032204	BA
Aroclor 1248	2022060	2032204	BA
Aroclor 1248	2022060	2032204	BA
Aroclor 1248	2022060	2032204	BA
Aroclor 1254	1271931	1297025	BA
Aroclor 1254	1271931	1297025	BA
Aroclor 1254	1271931	1297025	BA
Aroclor 1254	1271931	1297025	BA
Aroclor 1254	1271931	1297025	BA
Aroclor 1260	1675311	0	BA
Aroclor 1260	1675311	0	BA
Aroclor 1260	1675311	0	BA
Aroclor 1260	1675311	0	BA
Aroclor 1260	1675311	0	BA
Tetrachloro-m-xylene	3344087	3361233	BA
Decachlorobiphenyl	3147698	3147698	

==========

SAMPLE NO.

ND5-170615-01-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: 09/29/2017 10:00
Matrix: Tissue SDG No.: 40157694
Date Extracted: 04/11/2018 06:59
Lab Sample ID: 40157694004
Date Analyzed: 04/13/2018 15:20
Lab File ID: 041318.B\041318007.D
Initial wt/vol: 9.9788 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)	<22.8	U
11104-28-2	PCB-1221 (Aroclor 1221)	162	
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)	314	
11097-69-1	PCB-1254 (Aroclor 1254)	140	
11096-82-5	PCB-1260 (Aroclor 1260)	33.5	J
1336-36-3	PCB, Total	649	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041318.b\041318007.D
Lab Smp Id: 40157694004 Client Smp ID: ND5-170615-01-YP-07
Inj Date : 13-APR-2018 15:20
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157694004 x2,
Misc Info : 17661,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041318.b\pcba030618.m
Meth Date : 19-Apr-2018 09:09 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	9.979	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS	REVIEW CODE
1.807	50164	34946	0.697	0.12		1 Aroclor 1221	BA
2.361	19796	16352	0.826	0.04			
2.410	346650	258967	0.747	0.85		1 Aroclor 1221	BA
2.486	6189184	5563769	0.899	15.74	$	2 Tetrachloro-m-xylene	BA
2.686	25131	18195	0.724	0.06		1 Aroclor 1221	BA
2.792	58435	46306	0.792	0.14		1 Aroclor 1221	BA
2.851	178815	154685	0.865	0.44		1 Aroclor 1221	BA
2.975	32601	22801	0.699	0.08			
3.019	67887	66950	0.986	0.16			
3.056	246915	221842	0.898	0.60			
3.318	174653	164245	0.940	0.43			
3.345	220489	193675	0.878	0.54			
3.434	487756	463700	0.951	1.20			
3.521	389707	357626	0.918	0.96			
3.646	59150	47849	0.809	0.14			
3.732	335618	317555	0.946	0.82			
3.755	106229	105510	0.993	0.26			
3.813	1216492	705932	0.580	3.00			
3.938	293380	236619	0.807	0.72			
3.994	216657	191787	0.885	0.53			
4.058	127469	113567	0.891	0.31			
4.137	33291	23989	0.721	0.08			
4.215	1455436	1297030	0.891	3.59			

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.262	1452246	1381490	0.951	3.58	6 Aroclor 1248
4.292	1626764	1339032	0.823	4.01	
4.349	32115	24059	0.749	0.07	
4.418	378825	347352	0.917	0.93	
4.453	383019	332202	0.867	0.94	
4.546	1017668	924959	0.909	2.51	6 Aroclor 1248
4.590	155322	141093	0.908	0.38	
4.618	122555	95236	0.777	0.30	
4.680	124726	102419	0.821	0.30	
4.736	126895	98643	0.777	0.31	
4.768	246237	227101	0.922	0.60	
4.813	600886	557124	0.927	1.48	6 Aroclor 1248
4.848	367194	341139	0.929	0.90	
4.894	1486985	758205	0.510	3.66	6 Aroclor 1248
4.956	395053	332621	0.842	0.97	
5.037	399153	339814	0.851	0.98	6 Aroclor 1248
5.101	713817	603193	0.845	1.76	
5.161	843048	699202	0.829	2.08	7 Aroclor 1254
5.212	708853	611992	0.863	1.74	
5.284	106431	105661	0.993	0.26	
5.307	206507	161905	0.784	0.50	
5.363	234045	195091	0.834	0.57	
5.406	549637	491638	0.894	1.35	7 Aroclor 1254
5.448	452129	374901	0.829	1.11	
5.479	112345	101437	0.903	0.27	
5.510	1037432	880899	0.849	2.55	7 Aroclor 1254
5.576	89667	69147	0.771	0.22	
5.603	143927	106970	0.743	0.35	
5.675	376515	331135	0.879	0.92	
5.711	200780	159728	0.796	0.49	
5.743	247813	191738	0.774	0.61	
5.790	1200021	869127	0.724	2.96	
5.885	164630	113441	0.689	0.40	
5.931	146910	120395	0.820	0.36	
5.994	299734	242107	0.808	0.73	
6.025	494879	419394	0.847	1.22	7 Aroclor 1254
6.056	726078	606921	0.836	1.79	
6.170	184565	95247	0.516	0.45	
6.228	65475	70709	1.080	0.16	
6.242	131953	94676	0.717	0.32	
6.302	1120795	900606	0.804	2.76	7 Aroclor 1254
6.332	113044	94016	0.832	0.27	
6.374	71491	42723	0.598	0.17	
6.433	192841	137451	0.713	0.47	
6.509	384359	315450	0.821	0.94	
6.536	184213	175990	0.955	0.45	
6.559	104547	79661	0.762	0.25	
6.610	45659	23233	0.509	0.11	
6.661	42158	28023	0.665	0.10	
6.718	109289	87482	0.800	0.26	
6.758	158901	122998	0.774	0.39	
6.801	148308	114968	0.775	0.36	
6.840	98278	57233	0.582	0.24	
6.910	30044	21747	0.724	0.07	
6.942	118749	95612	0.805	0.29	
7.006	233833	197723	0.846	0.57	8 Aroclor 1260
7.037	38499	32524	0.845	0.09	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.118	54021	21255	0.393	0.13	
7.251	155741	118828	0.763	0.38	8 Aroclor 1260
7.281	82093	51538	0.628	0.20	
7.339	27945	19912	0.713	0.06	
7.389	120361	96799	0.804	0.29	
7.443	144085	94688	0.657	0.35	8 Aroclor 1260
7.691	35995	31935	0.887	0.08	
7.726	54762	42035	0.768	0.13	
7.805	43657	27982	0.641	0.10	
7.900	75012	59376	0.792	0.18	8 Aroclor 1260
8.050	22296	16880	0.757	0.05	
8.274	93058	81201	0.873	0.22	
8.380	11020	8712	0.791	0.02	
8.571	5704047	4968252	0.871	14.07	$ 12 Decachlorobiphenyl
9.171	13154	9099	0.692	0.03	
9.471	10352	8009	0.774	0.02	
	40527353	33866981		100.000	

Total unknown % area = 45

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041318.b\041318007.D
Lab Smp Id: 40157694004 Client Smp ID: ND5-170615-01-YP-07
Inj Date : 13-APR-2018 15:20
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157694004 x2,
Misc Info : 17661,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041318.b\pcba030618.m
Meth Date : 19-Apr-2018 09:09 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	9.979	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			
1.806	1.804	0.002	50164	0.04818	48	0.00- 20.00	100.00(M)	BA
2.410	2.407	0.003	346649	0.63275	630	0.00- 20.00	691.03	BA
2.686	2.688	-0.002	25131	0.01817	18	0.00- 20.00	50.10	BA
2.792	2.789	0.003	58434	0.05284	53	0.00- 20.00	116.49	BA
2.850	2.851	-0.001	178815	0.05493	55	0.00- 20.00	356.46	BA
Average of Peak Concentrations =					160			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.486	2.484	0.002	6189184	0.05020	50		(M)	BA
3 Aroclor 1242					CAS #: 53469-21-9			

Operator disabled compound identification.

```
                                          CONCENTRATIONS
                                          ON-COL    FINAL
  RT   EXP RT   DLT RT         RESPONSE (ug/ml)  (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
4.261    4.261    0.000         1452246 0.61983      620   0.00-  20.00   100.00(M)      BA
4.545    4.546   -0.001         1017667 0.24520      240   0.00-  20.00    70.08         BA
4.813    4.812    0.001          600886 0.29599      300   0.00-  20.00    41.38         BA
4.893    4.879    0.014         1486985 0.29519      300   0.00-  20.00   102.39         BA
5.036    5.038   -0.002          399153 0.11123      110   0.00-  20.00    27.49         BA
               Average of Peak Concentrations =      310
-------------------------------------------------------------------------------
    7 Aroclor 1254                                CAS #: 11097-69-1
5.160    5.162   -0.002          843048 0.16103      160   0.00-  20.00   100.00(M)      BA
5.406    5.408   -0.002          549636 0.12779      130   0.00-  20.00    65.20         BA
5.509    5.510   -0.001         1037432 0.13359      130   0.00-  20.00   123.06         BA
6.024    6.027   -0.003          494878 0.10162      100   0.00-  20.00    58.70         BA
6.301    6.299    0.002         1120795 0.17224      170   0.00-  20.00   132.95         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)      CO
7.005    7.006   -0.001          233832 0.02335       23   0.00-  20.00    24.26         CO
7.250    7.251   -0.001          155740 0.03258       33   0.00-  20.00    13.90         CO
7.442    7.443   -0.001          144085 0.04943       50   0.00-  20.00    12.86         CO
7.900    7.901   -0.001           75011 0.02843       28   0.00-  20.00     6.69         CO
               Average of Peak Concentrations =       34
-------------------------------------------------------------------------------
$  12 Decachlorobiphenyl                          CAS #: 2051-24-3
8.571    8.571    0.000         5704047 0.05206       52
-------------------------------------------------------------------------------
```

QC Flag Legend

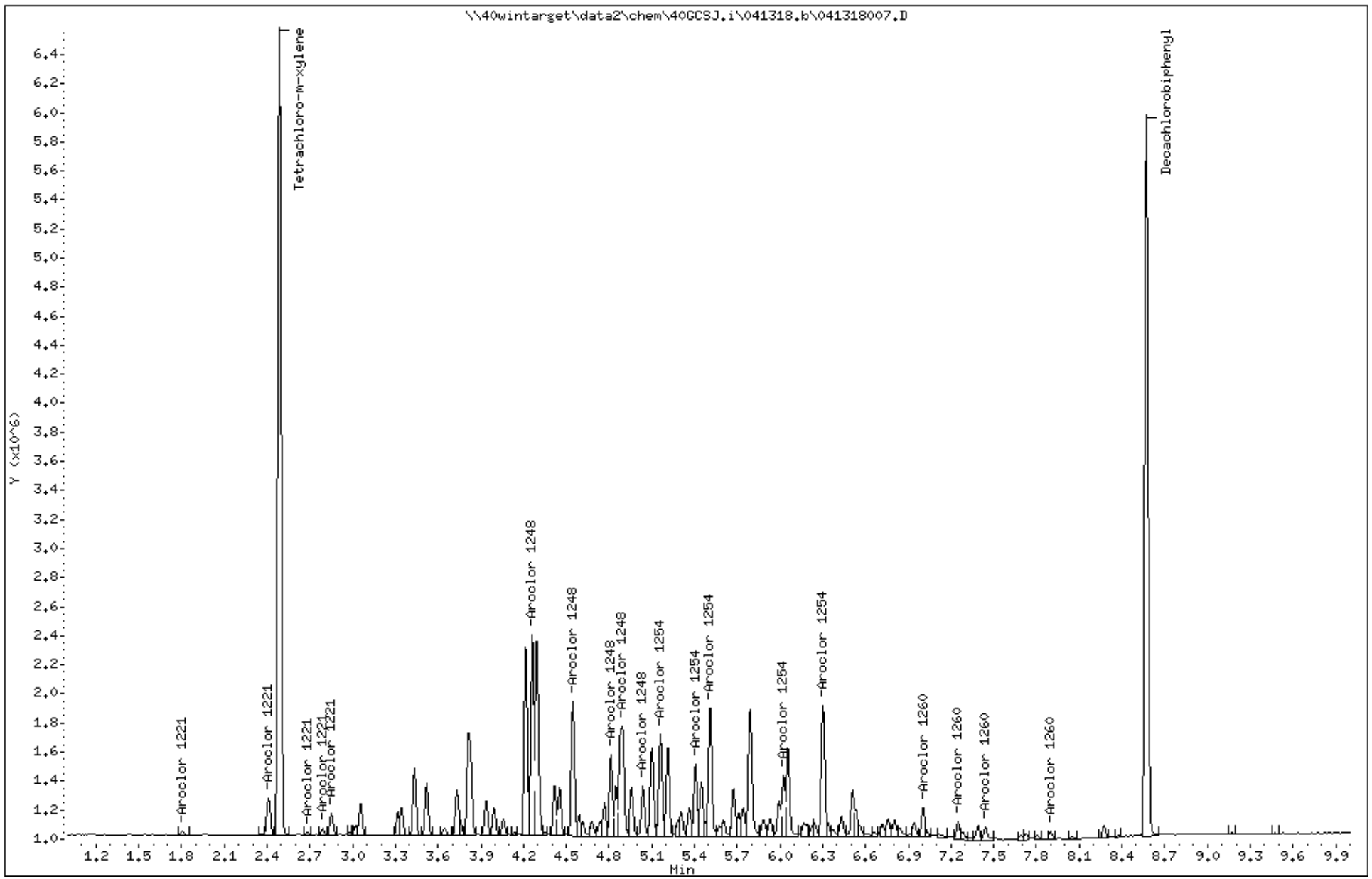
M - Compound response manually integrated.

Review Codes Legend

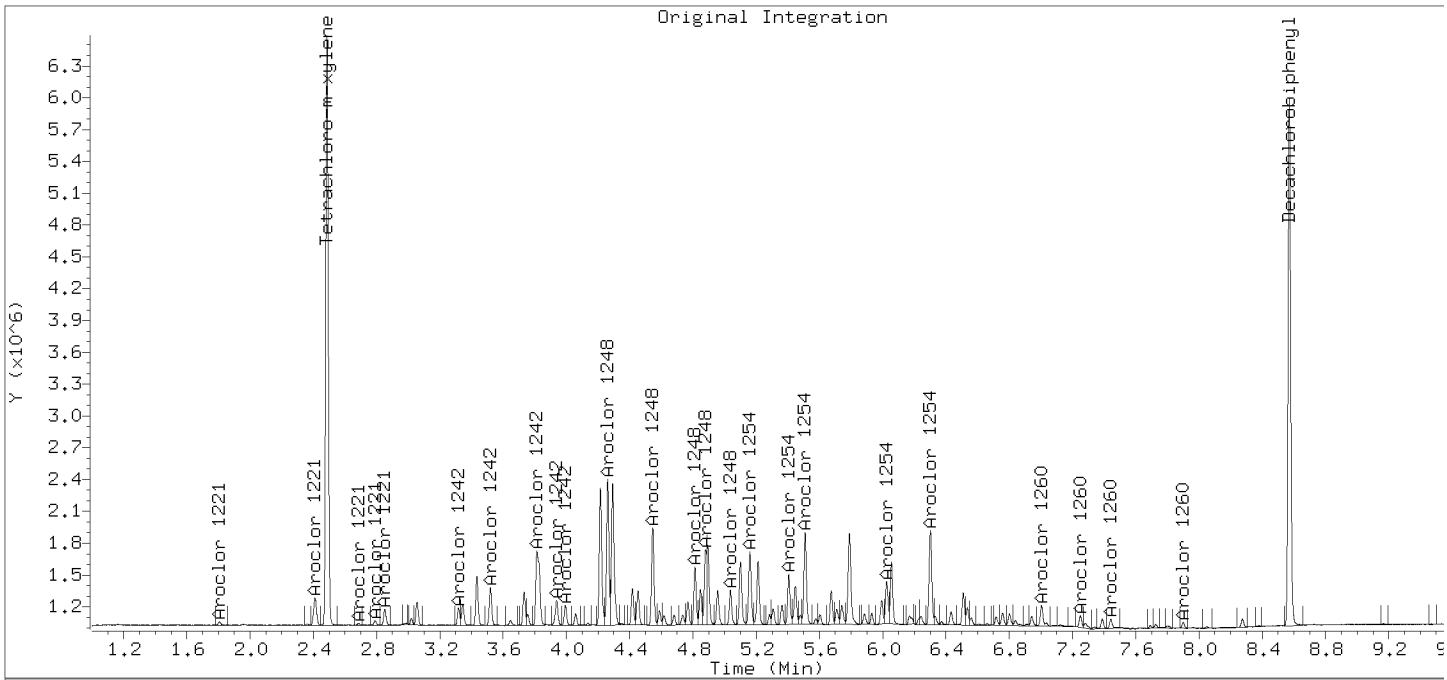
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

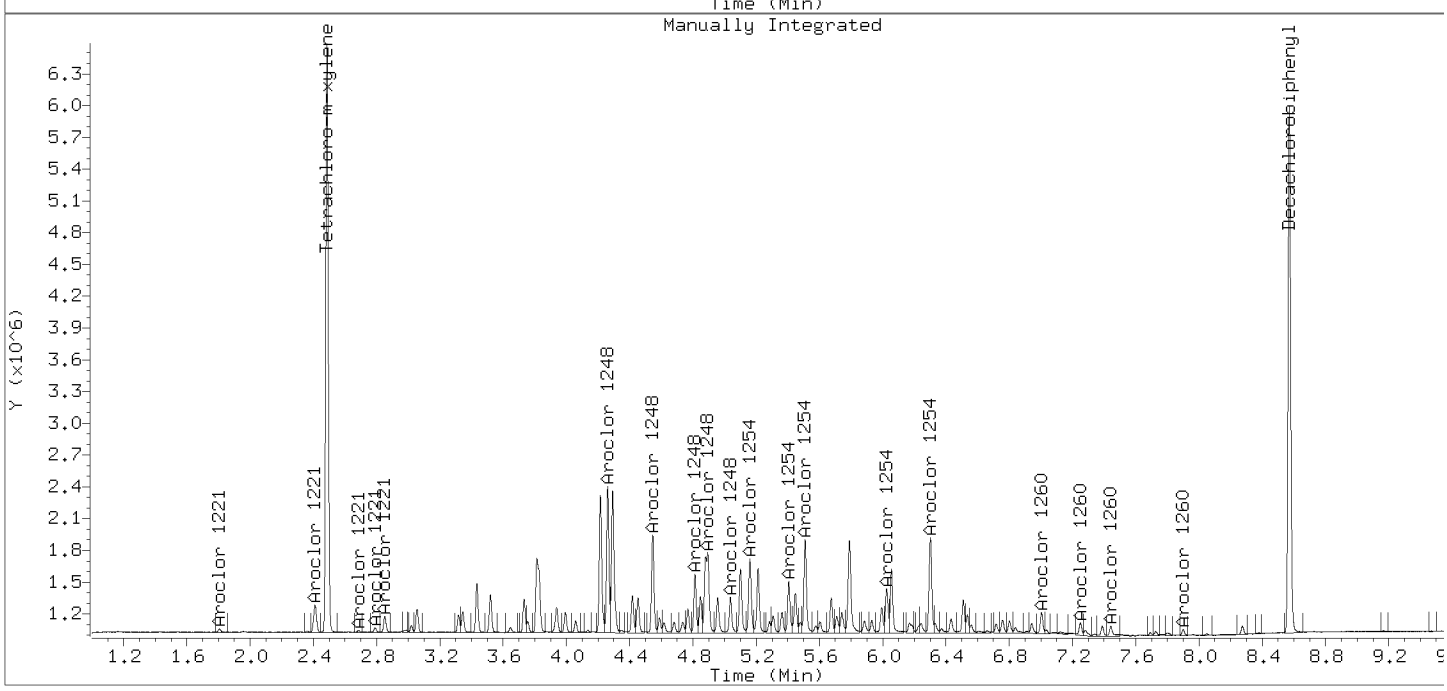
Data File: \\40wintarget\data2\chem\40GCSJ.i\041318.b\041318007.D
Date : 13-APR-2018 15:20
Client ID: ND5-170615-01-YP-07
Sample Info: 40157694004 x2,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\041318.b/041318007.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 13-APR-2018 15:20 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157694004





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	173364	0	
Aroclor 1016	173364	0	
Aroclor 1016	173364	0	
Aroclor 1016	173364	0	
Aroclor 1016	173364	0	
Aroclor 1221	47687	50164	BA
Aroclor 1221	47687	50164	BA
Aroclor 1221	47687	50164	BA
Aroclor 1221	47687	50164	BA
Aroclor 1221	47687	50164	BA
Aroclor 1232	170544	0	
Aroclor 1232	170544	0	
Aroclor 1232	170544	0	
Aroclor 1232	170544	0	

Aroclor 1232	170544	0	
Aroclor 1242	173364	0	
Aroclor 1242	173364	0	
Aroclor 1242	173364	0	
Aroclor 1242	173364	0	
Aroclor 1242	173364	0	
Aroclor 1248	1438136	1452246	BA
Aroclor 1248	1438136	1452246	BA
Aroclor 1248	1438136	1452246	BA
Aroclor 1248	1438136	1452246	BA
Aroclor 1248	1438136	1452246	BA
Aroclor 1254	804915	843048	BA
Aroclor 1254	804915	843048	BA
Aroclor 1254	804915	843048	BA
Aroclor 1254	804915	843048	BA
Aroclor 1254	804915	843048	BA
Aroclor 1260	1075644	0	CO
Aroclor 1260	1075644	0	CO
Aroclor 1260	1075644	0	CO
Aroclor 1260	1075644	0	CO
Aroclor 1260	1075644	0	CO
Tetrachloro-m-xylene	6174419	6189184	BA
Decachlorobiphenyl	5704047	5704047	

==========

SAMPLE NO.

ND5-170615-01-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: 09/29/2017 10:00
Matrix: Tissue SDG No.: 40157694
Date Extracted: 04/11/2018 06:59
Lab Sample ID: 40157694005
Date Analyzed: 04/12/2018 14:13
Lab File ID: 041218.B\041218013.D
Initial wt/vol: 9.9731 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)	<34.3	U
11104-28-2	PCB-1221 (Aroclor 1221)	204	
11141-16-5	PCB-1232 (Aroclor 1232)	<34.3	U
53469-21-9	PCB-1242 (Aroclor 1242)	<34.3	U
12672-29-6	PCB-1248 (Aroclor 1248)	679	
11097-69-1	PCB-1254 (Aroclor 1254)	391	
11096-82-5	PCB-1260 (Aroclor 1260)	87.5	J
1336-36-3	PCB, Total	1360	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041218.b\041218013.D
Lab Smp Id: 40157694005 Client Smp ID: ND5-170615-01-YP-06
Inj Date : 12-APR-2018 14:13
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157694005 x3,
Misc Info : 17661,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041218.b\pcba030618.m
Meth Date : 19-Apr-2018 09:02 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 13
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	9.973	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS	REVIEW CODE
1.802	19913	13977	0.702	0.03		1 Aroclor 1221	BA
2.411	323875	259972	0.803	0.61		1 Aroclor 1221	BA
2.485	4047730	3826148	0.945	8.12	$	2 Tetrachloro-m-xylene	BA
2.683	24892	17796	0.715	0.04		1 Aroclor 1221	BA
2.790	32993	26180	0.794	0.06		1 Aroclor 1221	BA
2.849	60149	50948	0.847	0.11		1 Aroclor 1221	BA
2.972	66043	32100	0.486	0.12			
3.020	41323	39620	0.959	0.07			
3.054	358858	321412	0.896	0.67			
3.317	120512	113921	0.945	0.22			
3.343	138846	126743	0.913	0.26			
3.433	486119	460456	0.947	0.91			
3.519	502411	471660	0.939	0.94			
3.645	80868	70311	0.869	0.15			
3.732	343259	330937	0.964	0.64			
3.756	140097	135772	0.969	0.26			
3.813	1544330	882616	0.572	2.91			
3.938	376592	317443	0.843	0.71			
3.993	349799	325313	0.930	0.66			
4.059	183458	175218	0.955	0.34			
4.138	24987	20947	0.838	0.04			
4.215	2032462	1772375	0.872	3.84			
4.261	1956087	1791648	0.916	3.69		6 Aroclor 1248	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.292	2237879	1868731	0.835	4.22	
4.348	45675	33112	0.725	0.08	
4.417	693594	644069	0.929	1.31	
4.452	619684	562170	0.907	1.17	
4.546	1455815	1338443	0.919	2.75	6 Aroclor 1248
4.588	213461	195864	0.918	0.40	
4.616	165150	145878	0.883	0.31	
4.681	192657	169321	0.879	0.36	
4.735	226181	185127	0.818	0.42	
4.768	359903	329952	0.917	0.68	
4.812	819092	763212	0.932	1.54	6 Aroclor 1248
4.847	633457	598344	0.945	1.19	
4.893	2425468	1282356	0.529	4.58	6 Aroclor 1248
4.956	688973	609667	0.885	1.30	
5.037	675674	623806	0.923	1.27	6 Aroclor 1248
5.101	1246284	1097841	0.881	2.35	
5.161	1417824	1159593	0.818	2.67	7 Aroclor 1254
5.212	1188870	1023756	0.861	2.24	
5.284	184547	178039	0.965	0.34	
5.308	369838	302010	0.817	0.69	
5.363	391101	345976	0.885	0.73	
5.407	994992	886084	0.891	1.88	7 Aroclor 1254
5.447	749973	615027	0.820	1.41	
5.477	234651	209423	0.892	0.44	
5.510	1944403	1646279	0.847	3.67	7 Aroclor 1254
5.577	139349	126136	0.905	0.26	
5.604	246287	202840	0.824	0.46	
5.675	770564	708898	0.920	1.45	
5.710	413952	348120	0.841	0.78	
5.742	449750	348498	0.775	0.84	
5.789	2198244	1627770	0.740	4.15	
5.884	300469	232200	0.773	0.56	
5.932	268675	220366	0.820	0.50	
5.993	513659	451653	0.879	0.97	
6.026	1026769	862270	0.840	1.94	7 Aroclor 1254
6.056	1226884	1043035	0.850	2.31	
6.170	197585	185938	0.941	0.37	
6.183	180816	176962	0.979	0.34	
6.228	95419	128076	1.342	0.18	
6.242	251364	172860	0.688	0.47	
6.302	2194078	1792660	0.817	4.14	7 Aroclor 1254
6.332	200370	179151	0.894	0.37	
6.373	96580	68990	0.714	0.18	
6.432	374432	309623	0.827	0.70	
6.485	21206	23865	1.125	0.04	
6.509	717927	664731	0.926	1.35	
6.535	356084	318460	0.894	0.67	
6.560	174136	151262	0.869	0.32	
6.604	60882	43017	0.707	0.11	
6.660	44483	36006	0.809	0.08	
6.718	218639	193313	0.884	0.41	
6.758	298121	258513	0.867	0.56	
6.801	260186	218653	0.840	0.49	
6.840	155170	115759	0.746	0.29	
6.912	32914	32056	0.974	0.06	
6.942	143281	126868	0.885	0.27	
7.004	465180	396107	0.852	0.87	8 Aroclor 1260

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.035	56088	55846	0.996	0.10	
7.123	32928	22057	0.670	0.06	
7.251	256609	220442	0.859	0.48	8 Aroclor 1260
7.280	125332	90227	0.720	0.23	
7.339	28162	18751	0.666	0.05	
7.388	223835	199928	0.893	0.42	
7.443	233814	196748	0.841	0.44	8 Aroclor 1260
7.551	11920	12955	1.087	0.02	
7.579	13812	12177	0.882	0.02	
7.662	12888	13211	1.025	0.02	
7.691	60588	56853	0.938	0.11	
7.728	65059	52232	0.803	0.12	
7.809	51577	31545	0.612	0.09	
7.901	138223	111278	0.805	0.26	8 Aroclor 1260
8.049	26286	23441	0.892	0.04	
8.275	121830	101289	0.831	0.23	
8.381	12371	9020	0.729	0.02	
8.572	3895434	3302699	0.848	7.36	$ 12 Decachlorobiphenyl
9.169	23046	18028	0.782	0.04	
	52914006	44710976		100.000	

Total unknown % area = 53

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041218.b\041218013.D
Lab Smp Id: 40157694005 Client Smp ID: ND5-170615-01-YP-06
Inj Date : 12-APR-2018 14:13
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157694005 x3,
Misc Info : 17661,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041218.b\pcba030618.m
Meth Date : 19-Apr-2018 09:02 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 13
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	9.973	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			
1.810	1.804	0.006	19912	0.01912	29	0.00- 20.00	100.00(M)	BA
2.411	2.407	0.004	323875	0.59118	890	0.00- 20.00	1626.53	BA
2.683	2.688	-0.005	24891	0.01799	27	0.00- 20.00	125.01	BA
2.790	2.789	0.001	32992	0.02984	45	0.00- 20.00	165.69	BA
2.849	2.851	-0.002	60148	0.01848	28	0.00- 20.00	302.07	BA
Average of Peak Concentrations =					200			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	4047730	0.03283	49		(M)	BA
3 Aroclor 1242					CAS #: 53469-21-9			

Operator disabled compound identification.

```
                                        CONCENTRATIONS
                                        ON-COL    FINAL
  RT   EXP RT   DLT RT         RESPONSE (ug/ml)  (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
4.260    4.261   -0.001         1956086 0.83487     1200   0.00-  20.00   100.00(M)      BA
4.545    4.546   -0.001         1455814 0.35077      530   0.00-  20.00    74.42         BA
4.812    4.812    0.000          819092 0.40348      610   0.00-  20.00    41.87         BA
4.893    4.879    0.014         2425468 0.48149      720   0.00-  20.00   124.00         BA
5.037    5.038   -0.001          675674 0.18829      280   0.00-  20.00    34.54         BA
               Average of Peak Concentrations =      680
-------------------------------------------------------------------------------
    7 Aroclor 1254                                CAS #: 11097-69-1
5.161    5.162   -0.001         1417823 0.27082      410   0.00-  20.00   100.00(M)      BA
5.406    5.408   -0.002          994992 0.23134      350   0.00-  20.00    70.18         BA
5.510    5.510    0.000         1944403 0.25037      380   0.00-  20.00   137.14         BA
6.026    6.027   -0.001         1026768 0.21085      320   0.00-  20.00    72.42         BA
6.301    6.299    0.002         2194077 0.33718      510   0.00-  20.00   154.75         BA
               Average of Peak Concentrations =      390
-------------------------------------------------------------------------------
    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          465180 0.04645       70   0.00-  20.00    21.20         BA
7.250    7.251   -0.001          256609 0.05369       81   0.00-  20.00    11.70         BA
7.442    7.443   -0.001          233813 0.08021      120   0.00-  20.00    10.66         BA
7.900    7.901   -0.001          138222 0.05238       79   0.00-  20.00     6.30         BA
               Average of Peak Concentrations =       88
-------------------------------------------------------------------------------
$  12 Decachlorobiphenyl                          CAS #: 2051-24-3
8.571    8.571    0.000         3895433 0.03556       53
-------------------------------------------------------------------------------
```

QC Flag Legend

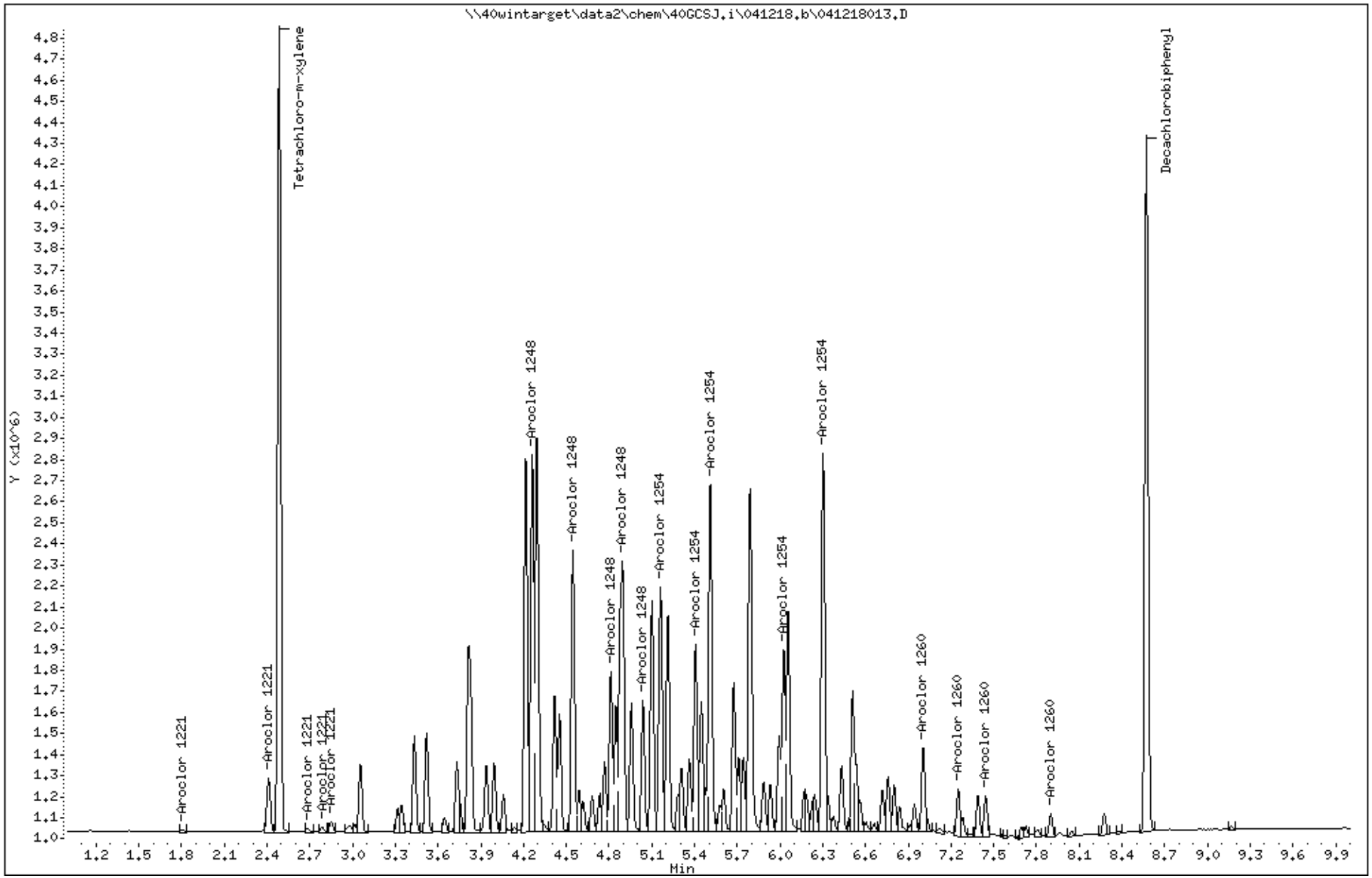
M - Compound response manually integrated.

Review Codes Legend

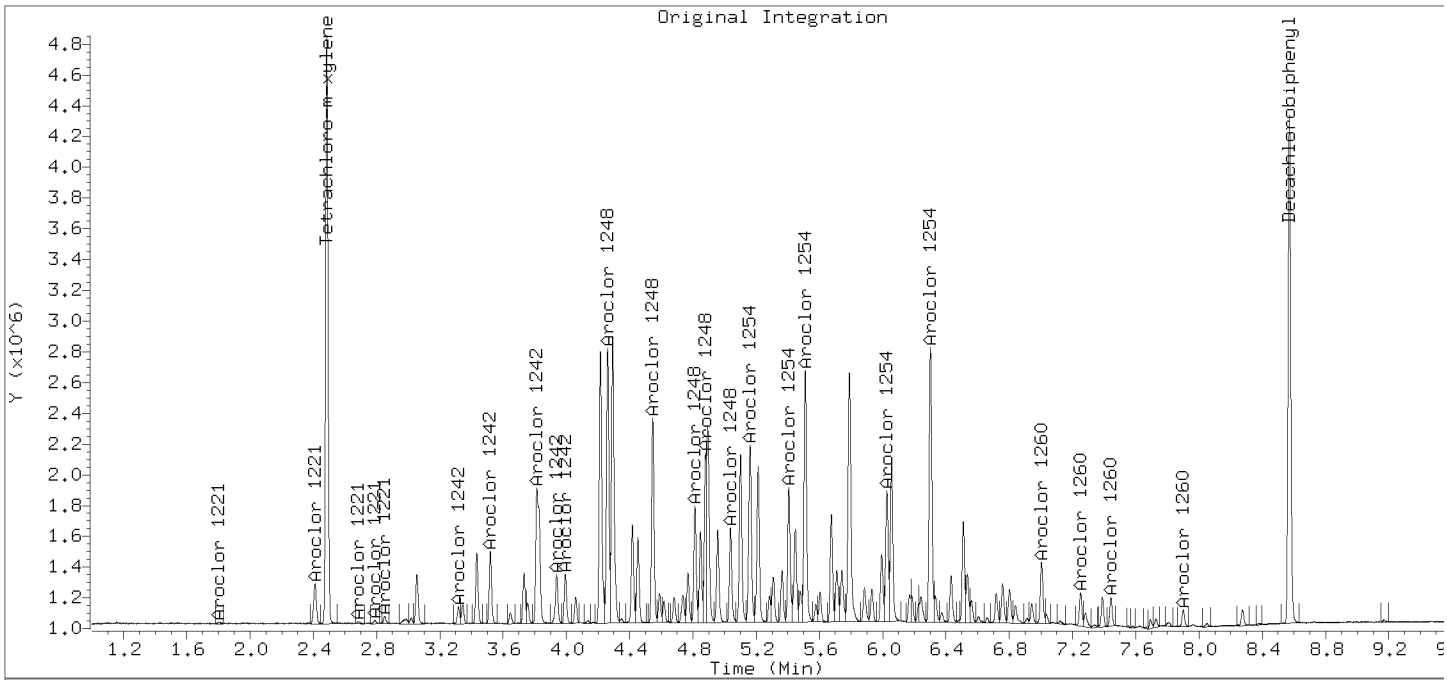
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:

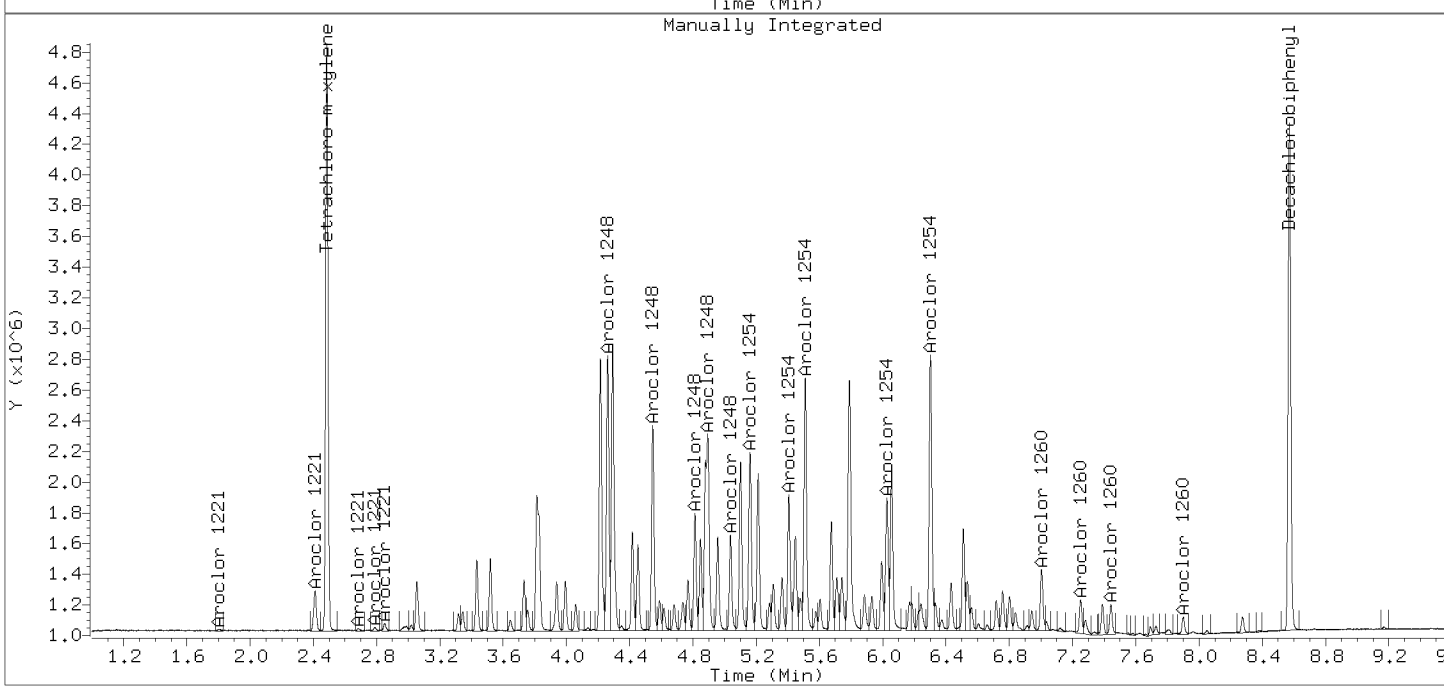
Data File: \\40wintarget\data2\chem\40GCSJ.i\041218.b\041218013.D
Date : 12-APR-2018 14:13
Client ID: ND5-170615-01-YP-06
Sample Info: 40157694005 x3,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\041218.b/041218013.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 12-APR-2018 14:13 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157694005





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	117807	0	
Aroclor 1016	117807	0	
Aroclor 1016	117807	0	
Aroclor 1016	117807	0	
Aroclor 1016	117807	0	
Aroclor 1221	20129	19912	BA
Aroclor 1221	20129	19912	BA
Aroclor 1221	20129	19912	BA
Aroclor 1221	20129	19912	BA
Aroclor 1221	20129	19912	BA
Aroclor 1232	52144	0	
Aroclor 1232	52144	0	
Aroclor 1232	52144	0	
Aroclor 1232	52144	0	

Aroclor 1232	52144	0	
Aroclor 1242	117807	0	
Aroclor 1242	117807	0	
Aroclor 1242	117807	0	
Aroclor 1242	117807	0	
Aroclor 1242	117807	0	
Aroclor 1248	1942878	1956086	BA
Aroclor 1248	1942878	1956086	BA
Aroclor 1248	1942878	1956086	BA
Aroclor 1248	1942878	1956086	BA
Aroclor 1248	1942878	1956086	BA
Aroclor 1254	1390947	1417823	BA
Aroclor 1254	1390947	1417823	BA
Aroclor 1254	1390947	1417823	BA
Aroclor 1254	1390947	1417823	BA
Aroclor 1254	1390947	1417823	BA
Aroclor 1260	2168546	0	BA
Aroclor 1260	2168546	0	BA
Aroclor 1260	2168546	0	BA
Aroclor 1260	2168546	0	BA
Aroclor 1260	2168546	0	BA
Tetrachloro-m-xylene	4036559	4047730	BA
Decachlorobiphenyl	3895433	3895433	

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SAMPLE NO.

ND5-170615-01-YP-05

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: 09/29/2017 10:00
Matrix: Tissue SDG No.: 40157694
Date Extracted: 04/11/2018 06:59
Lab Sample ID: 40157694006
Date Analyzed: 04/13/2018 15:36
Lab File ID: 041318.B\041318008.D
Initial wt/vol: 10.0343 Final wt/vol: 5 mL Dilution: 4
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<45.4	U
11104-28-2	PCB-1221 (Aroclor 1221)	289	
11141-16-5	PCB-1232 (Aroclor 1232)	<45.4	U
53469-21-9	PCB-1242 (Aroclor 1242)	<45.4	U
12672-29-6	PCB-1248 (Aroclor 1248)	796	
11097-69-1	PCB-1254 (Aroclor 1254)	341	
11096-82-5	PCB-1260 (Aroclor 1260)	54.3	J
1336-36-3	PCB, Total	1480	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041318.b\041318008.D
Lab Smp Id: 40157694006 Client Smp ID: ND5-170615-01-YP-05
Inj Date : 13-APR-2018 15:36
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157694006 x4,
Misc Info : 17661,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041318.b\pcba030618.m
Meth Date : 19-Apr-2018 09:09 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 8
Dil Factor: 4.00000
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	4.000	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	10.034	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS	REVIEW CODE
1.804	26427	19612	0.742	0.06		1 Aroclor 1221	BA
1.956	9854	7410	0.752	0.02			
2.410	319981	242220	0.757	0.80		1 Aroclor 1221	BA
2.485	2810633	2586262	0.920	7.63	$	2 Tetrachloro-m-xylene	BA
2.685	28586	22509	0.787	0.07		1 Aroclor 1221	BA
2.789	53588	42301	0.789	0.13		1 Aroclor 1221	BA
2.851	149868	129285	0.863	0.37		1 Aroclor 1221	BA
2.973	34487	21831	0.633	0.08			
3.019	46132	42689	0.925	0.11			
3.055	320612	292094	0.911	0.81			
3.318	185566	175083	0.944	0.46			
3.344	225197	212482	0.944	0.56			
3.434	575989	537852	0.934	1.45			
3.520	517535	478825	0.925	1.30			
3.646	74701	65236	0.873	0.18			
3.732	459065	456998	0.995	1.16			
3.756	165394	159447	0.964	0.41			
3.813	1613289	992883	0.615	4.07			
3.938	378018	315108	0.834	0.95			
3.993	289749	262338	0.905	0.73			
4.058	163957	147768	0.901	0.41			
4.134	28483	25672	0.901	0.07			
4.215	1901134	1708245	0.899	4.80			

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.261	1881286	1729559	0.919	4.75	6 Aroclor 1248
4.292	1989150	1668388	0.839	5.02	
4.347	34363	23586	0.686	0.08	
4.418	518352	475605	0.918	1.31	
4.452	523096	451743	0.864	1.32	
4.545	1336622	1229412	0.920	3.37	6 Aroclor 1248
4.588	169448	155049	0.915	0.42	
4.618	146057	128055	0.877	0.36	
4.680	136898	118127	0.863	0.34	
4.736	140790	109964	0.781	0.35	
4.767	261082	237496	0.910	0.66	
4.813	688890	656923	0.954	1.74	6 Aroclor 1248
4.848	589040	558309	0.948	1.48	
4.893	1940630	945864	0.487	4.90	6 Aroclor 1248
4.956	508102	433248	0.853	1.28	
5.037	524766	460973	0.878	1.32	6 Aroclor 1248
5.100	858966	737221	0.858	2.17	
5.160	972442	818847	0.842	2.45	7 Aroclor 1254
5.212	839181	704766	0.840	2.12	
5.282	124745	115730	0.928	0.31	
5.307	218788	182658	0.835	0.55	
5.361	287461	258176	0.898	0.72	
5.406	643306	580484	0.902	1.62	7 Aroclor 1254
5.449	603809	498793	0.826	1.52	
5.477	125507	121335	0.967	0.31	
5.510	1440328	1218211	0.846	3.64	7 Aroclor 1254
5.578	83843	71831	0.857	0.21	
5.604	163878	137831	0.841	0.41	
5.675	390145	354491	0.909	0.98	
5.709	230149	188389	0.819	0.58	
5.742	277885	215408	0.775	0.70	
5.790	1474774	1104465	0.749	3.72	
5.884	176335	125974	0.714	0.44	
5.931	138058	106265	0.770	0.34	
5.994	266064	243313	0.914	0.67	
6.025	655542	564221	0.861	1.65	7 Aroclor 1254
6.055	707443	602090	0.851	1.78	
6.169	192130	95138	0.495	0.48	
6.243	189456	100083	0.528	0.47	
6.301	1296094	1086926	0.839	3.27	7 Aroclor 1254
6.330	118371	101692	0.859	0.29	
6.372	62967	43202	0.686	0.15	
6.432	155058	121340	0.783	0.39	
6.510	404121	357611	0.885	1.02	
6.536	234638	206970	0.882	0.59	
6.561	76899	70026	0.911	0.19	
6.604	47293	26063	0.551	0.11	
6.662	24946	19594	0.785	0.06	
6.718	109444	90887	0.830	0.27	
6.758	148252	114797	0.774	0.37	
6.802	143594	120242	0.837	0.36	
6.839	79263	50426	0.636	0.20	
6.942	76276	64537	0.846	0.19	
7.004	190333	173458	0.911	0.48	8 Aroclor 1260
7.035	29794	31198	1.047	0.07	
7.123	41587	18092	0.435	0.10	
7.251	139334	113768	0.817	0.35	8 Aroclor 1260

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.282	76133	51249	0.673	0.19	
7.339	22766	18596	0.817	0.05	
7.388	100963	83571	0.828	0.25	
7.443	111054	79278	0.714	0.28	8 Aroclor 1260
7.582	10585	11294	1.067	0.02	
7.691	29251	27312	0.934	0.07	
7.727	43341	30406	0.702	0.10	
7.803	27125	17483	0.645	0.06	
7.901	60096	48528	0.808	0.15	8 Aroclor 1260
8.050	20841	13601	0.653	0.05	
8.273	62368	51520	0.826	0.15	
8.382	11468	7773	0.678	0.02	
8.571	2744565	2380310	0.867	6.93	$ 12 Decachlorobiphenyl
9.167	12680	9872	0.779	0.03	
9.954	11152	7924	0.711	0.02	
	39549706	33121717		100.000	

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041318.b\041318008.D
Lab Smp Id: 40157694006 Client Smp ID: ND5-170615-01-YP-05
Inj Date : 13-APR-2018 15:36
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157694006 x4,
Misc Info : 17661,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041318.b\pcba030618.m
Meth Date : 19-Apr-2018 09:09 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 8
Dil Factor: 4.00000
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	4.000	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	10.034	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			
1.803	1.804	-0.001	26427	0.02538	50	0.00- 20.00	100.00(M)	BA
2.409	2.407	0.002	319981	0.58407	1200	0.00- 20.00	1210.81	BA
2.685	2.688	-0.003	28586	0.02066	41	0.00- 20.00	108.17	BA
2.788	2.789	-0.001	53587	0.04846	96	0.00- 20.00	202.77	BA
2.850	2.851	-0.001	149867	0.04604	92	0.00- 20.00	567.10	BA
Average of Peak Concentrations =					290			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	2810632	0.02280	45		(M)	BA
3 Aroclor 1242					CAS #: 53469-21-9			

Operator disabled compound identification.

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			
4.261	4.261	0.000	1881285	0.80295	1600	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1336622	0.32205	640	0.00- 20.00	71.05	BA
4.812	4.812	0.000	688890	0.33934	680	0.00- 20.00	36.62	BA
4.893	4.879	0.014	1940629	0.38524	770	0.00- 20.00	103.15	BA
5.036	5.038	-0.002	524765	0.14623	290	0.00- 20.00	27.89	BA
Average of Peak Concentrations =					800			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	972442	0.18575	370	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	643306	0.14957	300	0.00- 20.00	66.15	BA
5.509	5.510	-0.001	1440328	0.18546	370	0.00- 20.00	148.11	BA
6.024	6.027	-0.003	655541	0.13462	270	0.00- 20.00	67.41	BA
6.300	6.299	0.001	1296093	0.19918	400	0.00- 20.00	133.28	BA
Average of Peak Concentrations =					340			
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	190333	0.01901	38	0.00- 20.00	16.96	CO
7.250	7.251	-0.001	139334	0.02915	58	0.00- 20.00	10.75	CO
7.442	7.443	-0.001	111054	0.03810	76	0.00- 20.00	8.57	CO
7.900	7.901	-0.001	60095	0.02277	45	0.00- 20.00	4.64	CO
Average of Peak Concentrations =					54			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	2744564	0.02505	50			

QC Flag Legend

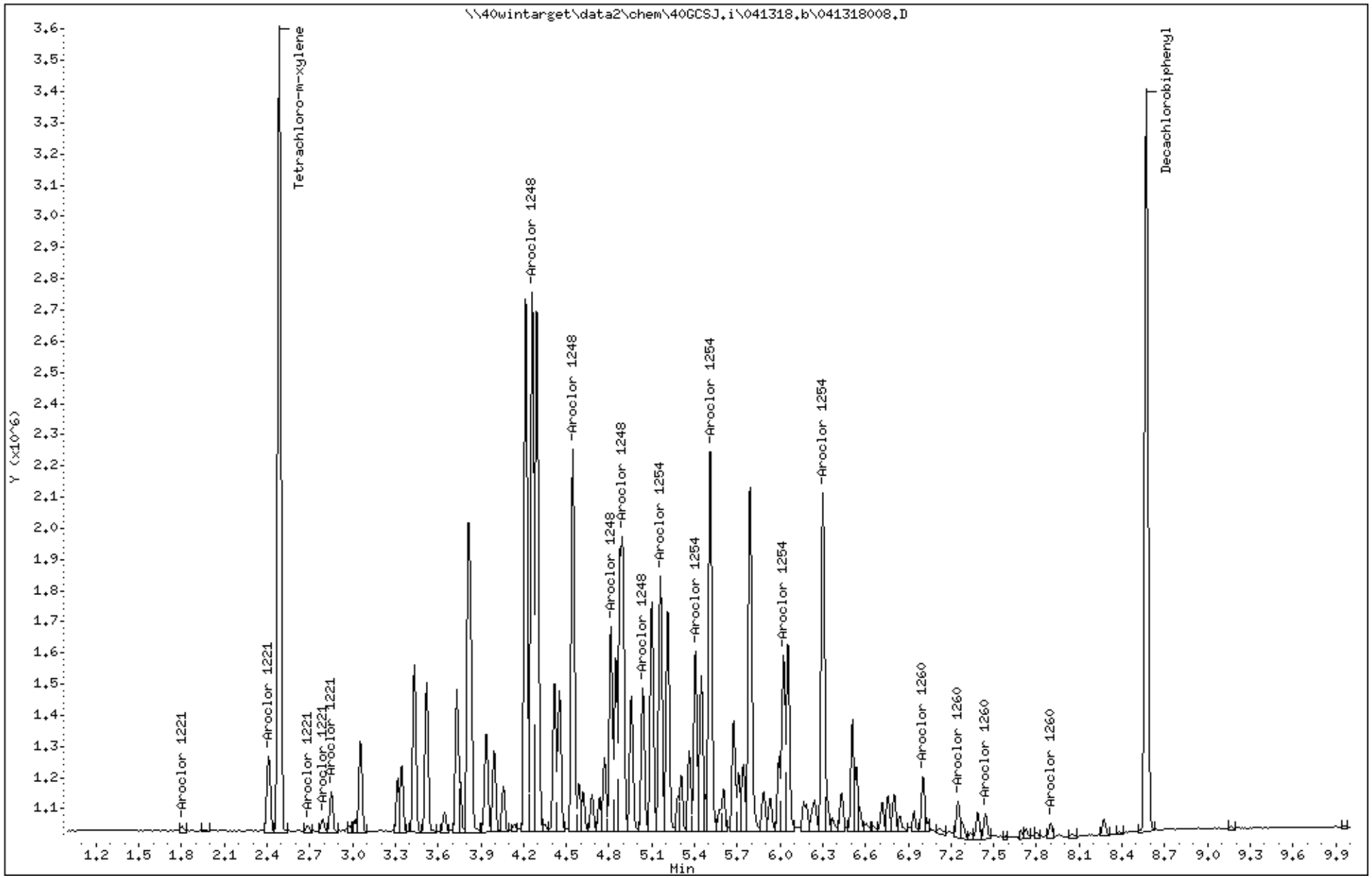
M - Compound response manually integrated.

Review Codes Legend

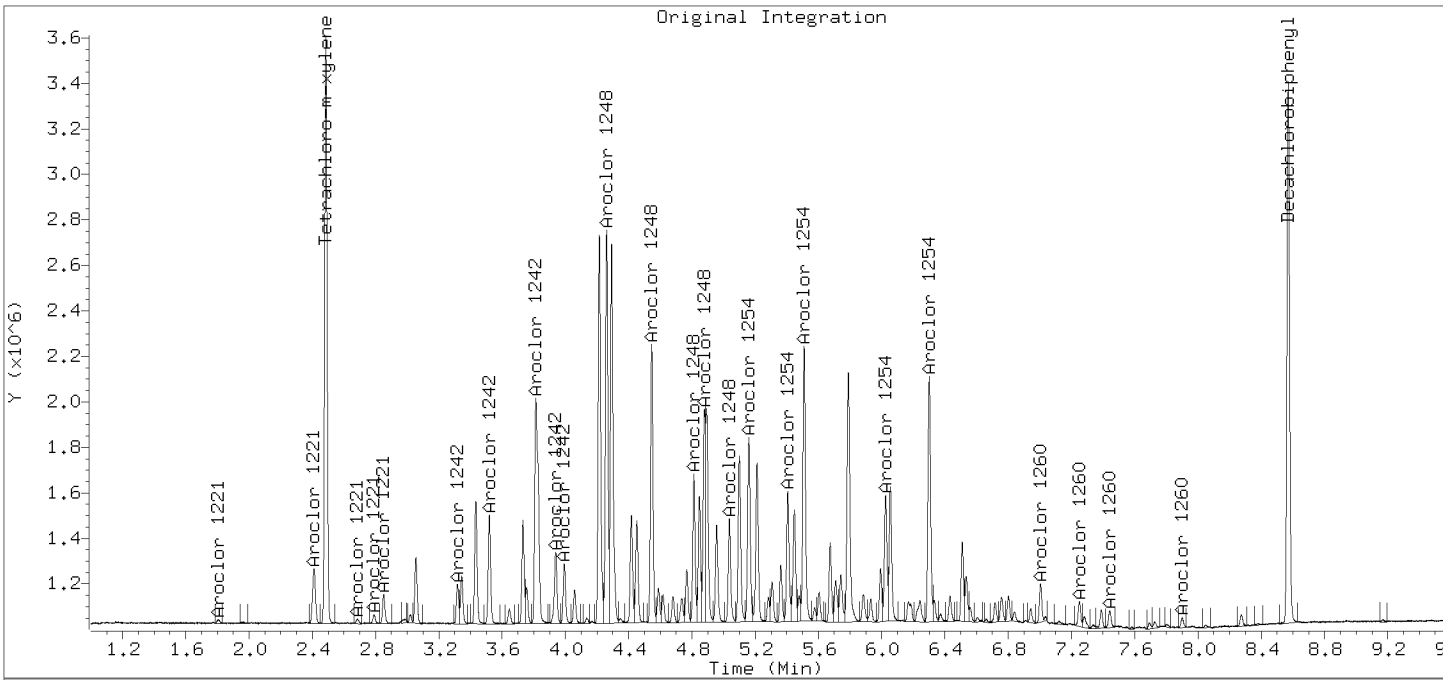
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

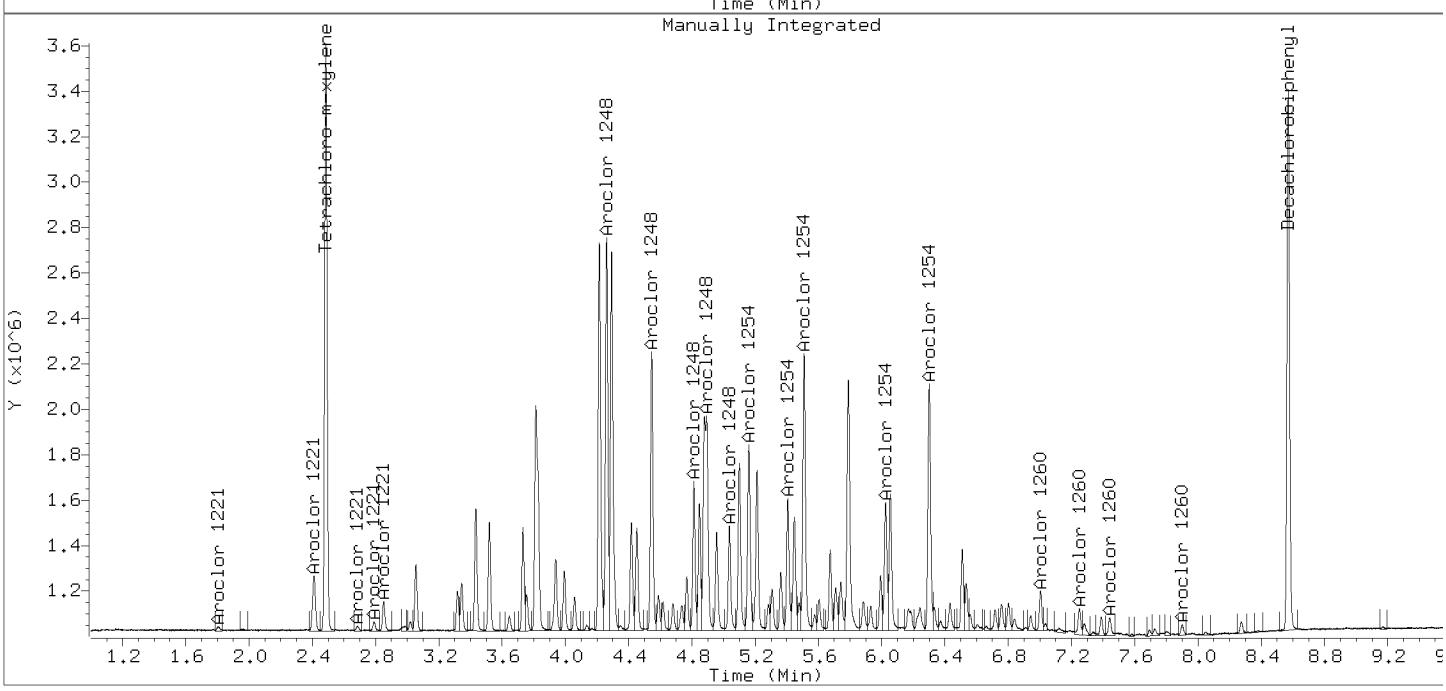
Data File: \\40wintarget\data2\chem\40GCSJ.i\041318.b\041318008.D
Date : 13-APR-2018 15:36
Client ID: ND5-170615-01-YP-05
Sample Info: 40157694006 x4,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\041318.b/041318008.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 13-APR-2018 15:36 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157694006





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	185565	0	
Aroclor 1016	185565	0	
Aroclor 1016	185565	0	
Aroclor 1016	185565	0	
Aroclor 1016	185565	0	
Aroclor 1221	23996	26427	BA
Aroclor 1221	23996	26427	BA
Aroclor 1221	23996	26427	BA
Aroclor 1221	23996	26427	BA
Aroclor 1221	23996	26427	BA
Aroclor 1232	143400	0	
Aroclor 1232	143400	0	
Aroclor 1232	143400	0	
Aroclor 1232	143400	0	

Aroclor 1232	143400	0	
Aroclor 1242	185565	0	
Aroclor 1242	185565	0	
Aroclor 1242	185565	0	
Aroclor 1242	185565	0	
Aroclor 1242	185565	0	
Aroclor 1248	1872853	1881285	BA
Aroclor 1248	1872853	1881285	BA
Aroclor 1248	1872853	1881285	BA
Aroclor 1248	1872853	1881285	BA
Aroclor 1248	1872853	1881285	BA
Aroclor 1254	947358	972442	BA
Aroclor 1254	947358	972442	BA
Aroclor 1254	947358	972442	BA
Aroclor 1254	947358	972442	BA
Aroclor 1254	947358	972442	BA
Aroclor 1260	1271444	0	CO
Aroclor 1260	1271444	0	CO
Aroclor 1260	1271444	0	CO
Aroclor 1260	1271444	0	CO
Aroclor 1260	1271444	0	CO
Tetrachloro-m-xylene	2800394	2810632	BA
Decachlorobiphenyl	2744564	2744564	

==========

SAMPLE NO.

ND5-170615-01-YP-04

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: 09/29/2017 10:00
Matrix: Tissue SDG No.: 40157694
Date Extracted: 04/11/2018 06:59
Lab Sample ID: 40157694007
Date Analyzed: 04/12/2018 14:45
Lab File ID: 041218.B\041218015.D
Initial wt/vol: 9.9641 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)	<34.3	U
11104-28-2	PCB-1221 (Aroclor 1221)	182	
11141-16-5	PCB-1232 (Aroclor 1232)	<34.3	U
53469-21-9	PCB-1242 (Aroclor 1242)	<34.3	U
12672-29-6	PCB-1248 (Aroclor 1248)	576	
11097-69-1	PCB-1254 (Aroclor 1254)	256	
11096-82-5	PCB-1260 (Aroclor 1260)	105	J
1336-36-3	PCB, Total	1120	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041218.b\041218015.D
Lab Smp Id: 40157694007 Client Smp ID: ND5-170615-01-YP-04
Inj Date : 12-APR-2018 14:45
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157694007 x3,
Misc Info : 17661,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041218.b\pcba030618.m
Meth Date : 19-Apr-2018 09:02 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 15
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	9.964	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS	REVIEW CODE
1.800	19964	13058	0.654	0.04		1 Aroclor 1221	BA
2.411	281368	217206	0.772	0.65		1 Aroclor 1221	BA
2.485	3971378	3672265	0.925	9.70	$	2 Tetrachloro-m-xylene	BA
2.682	22141	16558	0.748	0.05		1 Aroclor 1221	BA
2.788	37583	27543	0.733	0.08		1 Aroclor 1221	BA
2.850	71739	55137	0.769	0.16		1 Aroclor 1221	BA
3.018	26175	24308	0.929	0.06			
3.054	281182	254828	0.906	0.65			
3.318	112239	108613	0.968	0.26			
3.344	182625	168086	0.920	0.42			
3.433	471040	443476	0.941	1.09			
3.520	510116	480472	0.942	1.18			
3.646	87165	74317	0.853	0.20			
3.732	411371	400204	0.973	0.95			
3.755	153563	140706	0.916	0.35			
3.813	1503623	922281	0.613	3.49			
3.937	298644	238676	0.799	0.69			
3.994	315241	284476	0.902	0.73			
4.058	167934	153026	0.911	0.39			
4.132	20567	17826	0.867	0.04			
4.215	1904594	1704255	0.895	4.42			
4.261	1855747	1691147	0.911	4.31		6 Aroclor 1248	BA
4.293	2237575	1869054	0.835	5.20			

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.349	49234	37446	0.761	0.11	
4.417	574114	529833	0.923	1.33	
4.453	564573	505690	0.896	1.31	
4.546	1277438	1167283	0.914	2.96	6 Aroclor 1248
4.589	204736	188864	0.922	0.47	
4.617	171312	152021	0.887	0.39	
4.681	162382	140409	0.865	0.37	
4.737	183029	153985	0.841	0.42	
4.768	346126	315412	0.911	0.80	
4.813	686812	648641	0.944	1.59	6 Aroclor 1248
4.848	509962	475986	0.933	1.18	
4.893	1707279	896639	0.525	3.96	6 Aroclor 1248
4.956	535272	455269	0.851	1.24	
5.037	485688	444962	0.916	1.12	6 Aroclor 1248
5.101	933556	813831	0.872	2.17	
5.160	1017568	852270	0.838	2.36	7 Aroclor 1254
5.212	890573	771096	0.866	2.07	
5.284	124091	122393	0.986	0.28	
5.307	296219	244111	0.824	0.68	
5.363	263324	235703	0.895	0.61	
5.406	701063	630885	0.900	1.62	7 Aroclor 1254
5.446	447224	355348	0.795	1.03	
5.478	125137	112775	0.901	0.29	
5.509	1293471	1151610	0.890	3.00	7 Aroclor 1254
5.577	82970	73245	0.883	0.19	
5.604	184606	154130	0.835	0.42	
5.675	424213	394004	0.929	0.98	
5.710	226622	179621	0.793	0.52	
5.742	275205	218231	0.793	0.63	
5.790	1381052	1037123	0.751	3.21	
5.883	188664	135003	0.716	0.43	
5.931	216964	183238	0.845	0.50	
5.993	361768	323276	0.894	0.84	
6.026	557349	481951	0.865	1.29	7 Aroclor 1254
6.056	1016754	892946	0.878	2.36	
6.168	224962	127010	0.565	0.52	
6.227	66654	82441	1.237	0.15	
6.243	151149	107202	0.709	0.35	
6.301	1381621	1143178	0.827	3.21	7 Aroclor 1254
6.334	114864	110204	0.959	0.26	
6.372	67997	52139	0.767	0.15	
6.432	201246	158610	0.788	0.46	
6.508	388062	345777	0.891	0.90	
6.535	256679	230470	0.898	0.59	
6.558	126789	110108	0.868	0.29	
6.606	47375	35112	0.741	0.11	
6.660	31298	26225	0.838	0.07	
6.719	113141	91097	0.805	0.26	
6.759	159714	142151	0.890	0.37	
6.802	182968	157174	0.859	0.42	
6.840	90698	73477	0.810	0.21	
6.910	21607	18247	0.844	0.05	
6.942	105355	96506	0.916	0.24	
7.004	410001	379296	0.925	0.95	8 Aroclor 1260
7.034	32827	38323	1.167	0.07	
7.074	12789	9751	0.762	0.02	
7.120	31875	18258	0.573	0.07	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.250	265059	226897	0.856	0.61	8 Aroclor 1260
7.280	95099	70789	0.744	0.22	
7.338	23430	17167	0.733	0.05	
7.389	156373	138991	0.889	0.36	
7.441	230112	187542	0.815	0.53	8 Aroclor 1260
7.490	21570	11072	0.513	0.05	
7.550	22258	18268	0.821	0.05	
7.579	11998	11624	0.969	0.02	
7.659	13957	12780	0.916	0.03	
7.691	49926	49356	0.989	0.11	
7.726	67953	52831	0.777	0.15	
7.804	37951	25706	0.677	0.08	
7.900	272762	239168	0.877	0.63	8 Aroclor 1260
7.963	30739	20956	0.682	0.07	
8.048	15540	13758	0.885	0.03	
8.274	190247	169449	0.891	0.44	
8.453	9343	5630	0.603	0.02	
8.571	3845378	3185746	0.828	8.93	$ 12 Decachlorobiphenyl
9.168	28360	21533	0.759	0.06	
	43017649	36484767		100.000	

Total unknown % area = 52

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041218.b\041218015.D
Lab Smp Id: 40157694007 Client Smp ID: ND5-170615-01-YP-04
Inj Date : 12-APR-2018 14:45
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157694007 x3,
Misc Info : 17661,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041218.b\pcba030618.m
Meth Date : 19-Apr-2018 09:02 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 15
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	9.964	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			
1.806	1.804	0.002	19963	0.01917	29	0.00- 20.00	100.00(M)	BA
2.410	2.407	0.003	281367	0.51359	770	0.00- 20.00	1409.44	BA
2.682	2.688	-0.006	22140	0.01600	24	0.00- 20.00	110.91	BA
2.788	2.789	-0.001	37583	0.03399	51	0.00- 20.00	188.26	BA
2.849	2.851	-0.002	71739	0.02204	33	0.00- 20.00	359.36	BA
Average of Peak Concentrations =					180			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	3971378	0.03221	48		(M)	BA
3 Aroclor 1242					CAS #: 53469-21-9			

Operator disabled compound identification.

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			
4.260	4.261	-0.001	1855747	0.79205	1200	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1277437	0.30779	460	0.00- 20.00	68.84	BA
4.812	4.812	0.000	686811	0.33832	510	0.00- 20.00	37.01	BA
4.893	4.879	0.014	1707278	0.33892	510	0.00- 20.00	92.00	BA
5.037	5.038	-0.001	485688	0.13534	200	0.00- 20.00	26.17	BA
Average of Peak Concentrations =					580			
7 Aroclor 1254					CAS #: 11097-69-1			
5.159	5.162	-0.003	1017567	0.19437	290	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	701062	0.16300	240	0.00- 20.00	68.90	BA
5.509	5.510	-0.001	1293470	0.16655	250	0.00- 20.00	127.11	BA
6.025	6.027	-0.002	557349	0.11445	170	0.00- 20.00	54.77	BA
6.301	6.299	0.002	1381620	0.21232	320	0.00- 20.00	135.78	BA
Average of Peak Concentrations =					260			
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	410000	0.04094	62	0.00- 20.00	32.01	CO
7.250	7.251	-0.001	265058	0.05545	83	0.00- 20.00	19.18	CO
7.441	7.443	-0.002	230112	0.07894	120	0.00- 20.00	18.20	CO
7.900	7.901	-0.001	272761	0.10337	160	0.00- 20.00	19.74	CO
Average of Peak Concentrations =					100			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	3845378	0.03510	53			

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\041218.b\041218015.D

Date : 12-APR-2018 14:45

Client ID: ND5-170615-01-YP-04

Instrument: 40GCSJ.i

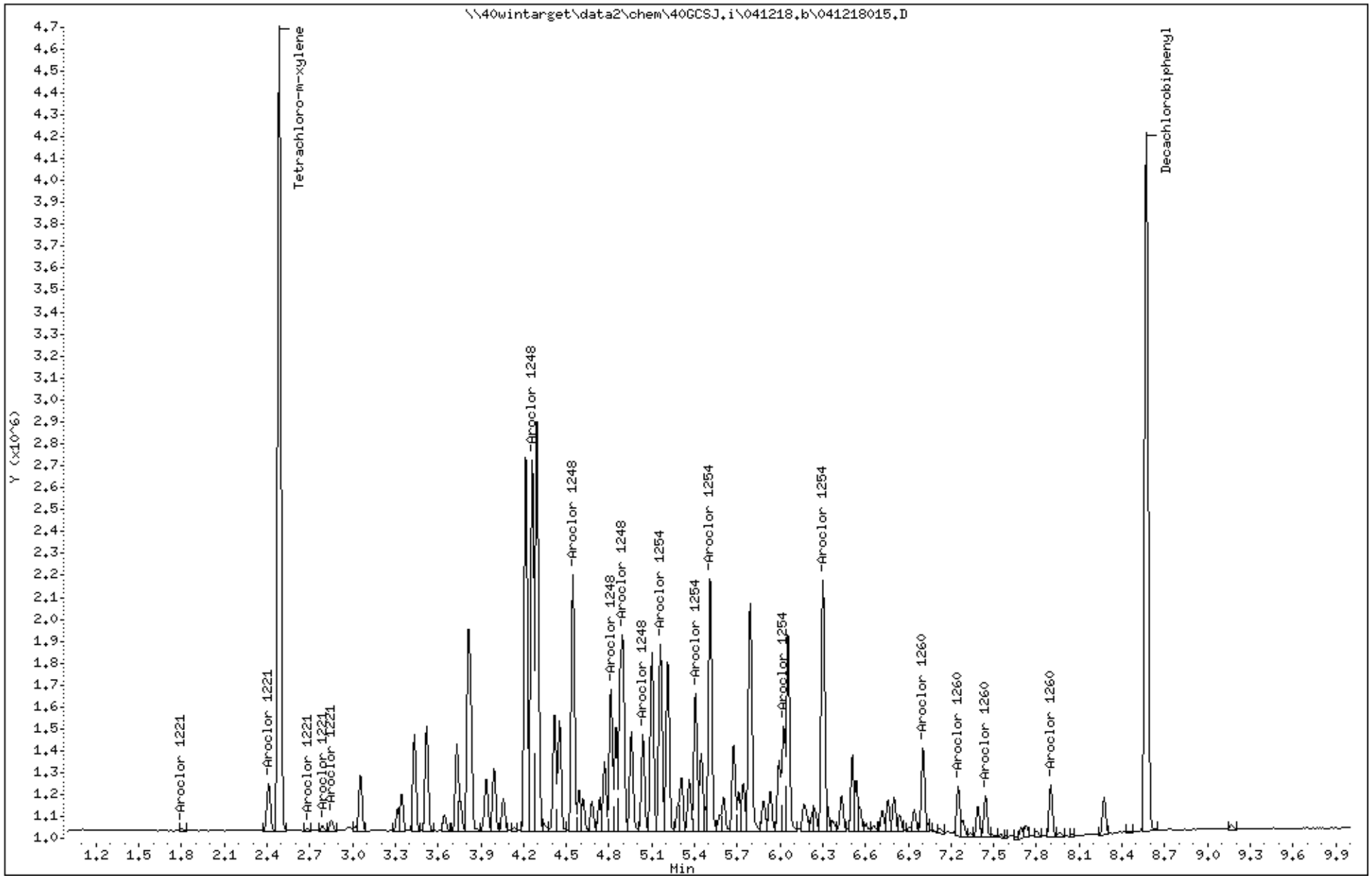
Sample Info: 40157694007 x3,

Volume Injected (uL): 1.0

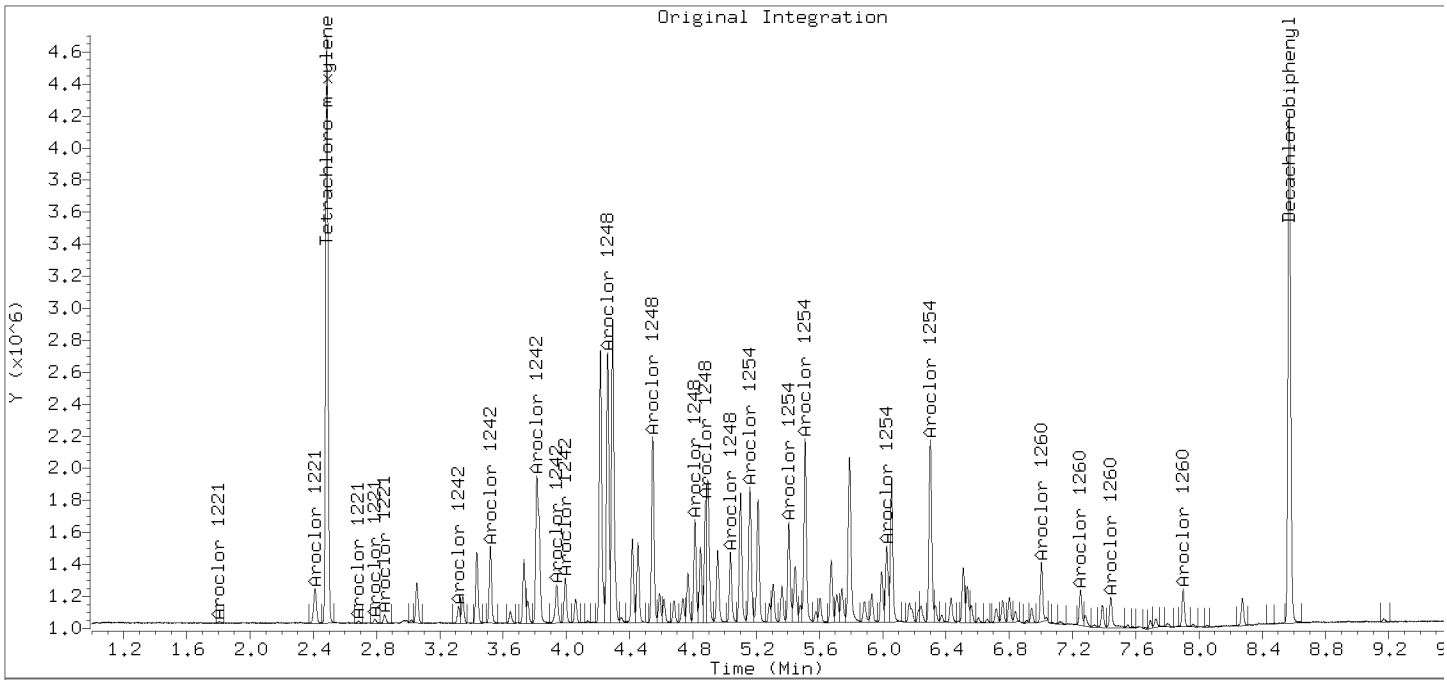
Operator: BLM

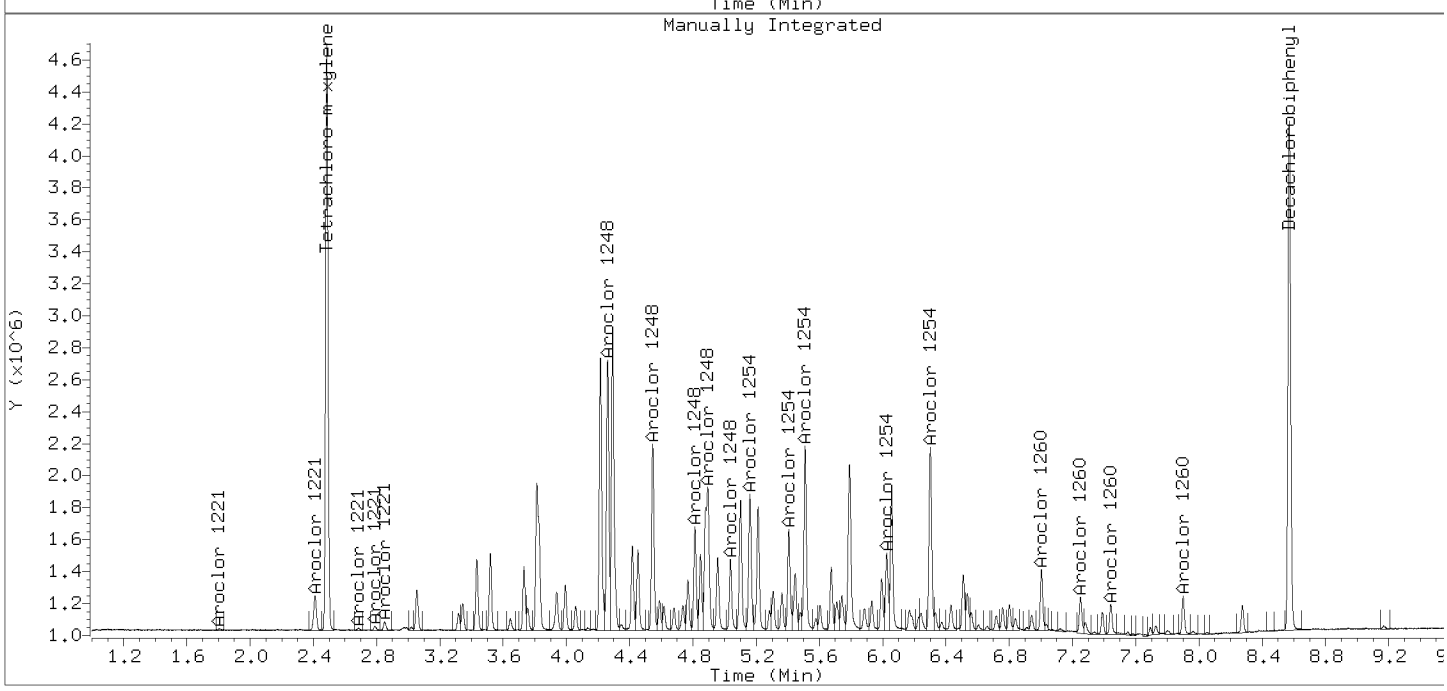
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041218.b/041218015.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 12-APR-2018 14:45 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157694007





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	110719	0	
Aroclor 1016	110719	0	
Aroclor 1016	110719	0	
Aroclor 1016	110719	0	
Aroclor 1016	110719	0	
Aroclor 1221	14734	19963	BA
Aroclor 1221	14734	19963	BA
Aroclor 1221	14734	19963	BA
Aroclor 1221	14734	19963	BA
Aroclor 1221	14734	19963	BA
Aroclor 1232	65965	0	
Aroclor 1232	65965	0	
Aroclor 1232	65965	0	
Aroclor 1232	65965	0	

Aroclor 1232	65965	0	
Aroclor 1242	110719	0	
Aroclor 1242	110719	0	
Aroclor 1242	110719	0	
Aroclor 1242	110719	0	
Aroclor 1242	110719	0	
Aroclor 1248	1843481	1855747	BA
Aroclor 1248	1843481	1855747	BA
Aroclor 1248	1843481	1855747	BA
Aroclor 1248	1843481	1855747	BA
Aroclor 1248	1843481	1855747	BA
Aroclor 1254	998248	1017567	BA
Aroclor 1254	998248	1017567	BA
Aroclor 1254	998248	1017567	BA
Aroclor 1254	998248	1017567	BA
Aroclor 1254	998248	1017567	BA
Aroclor 1260	1364076	0	CO
Aroclor 1260	1364076	0	CO
Aroclor 1260	1364076	0	CO
Aroclor 1260	1364076	0	CO
Aroclor 1260	1364076	0	CO
Tetrachloro-m-xylene	3957214	3971378	BA
Decachlorobiphenyl	3845378	3845378	

==========

SAMPLE NO.

ND5-170615-01-YP-03

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: 09/29/2017 10:00
Matrix: Tissue SDG No.: 40157694
Date Extracted: 04/11/2018 06:59
Lab Sample ID: 40157694008
Date Analyzed: 04/12/2018 15:32
Lab File ID: 041218.B\041218018.D
Initial wt/vol: 10.0096 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)	90.6	J
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)	385	
11097-69-1	PCB-1254 (Aroclor 1254)	224	
11096-82-5	PCB-1260 (Aroclor 1260)	73.4	J
1336-36-3	PCB, Total	773	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041218.b\041218018.D
Lab Smp Id: 40157694008 Client Smp ID: ND5-170615-01-YP-03
Inj Date : 12-APR-2018 15:32
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157694008 x2,
Misc Info : 17661,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041218.b\pcba030618.m
Meth Date : 19-Apr-2018 09:02 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 18
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	10.010	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS	REVIEW CODE
2.409	161203	126162	0.783	0.31		1 Aroclor 1221	BA
2.485	6031769	5588642	0.927	12.42	$	2 Tetrachloro-m-xylene	BA
2.689	16341	12834	0.785	0.03		1 Aroclor 1221	BA
2.790	41074	31980	0.779	0.08		1 Aroclor 1221	BA
2.851	63250	48666	0.769	0.12		1 Aroclor 1221	BA
2.974	46718	20468	0.438	0.09			
3.020	35591	34519	0.970	0.07			
3.054	156390	137833	0.881	0.30			
3.317	132151	122351	0.926	0.26			
3.345	122827	110900	0.903	0.24			
3.433	268477	246504	0.918	0.53			
3.519	282266	256827	0.910	0.55			
3.645	47184	38323	0.812	0.09			
3.731	330722	309070	0.935	0.65			
3.755	120367	119419	0.992	0.23			
3.813	705835	718440	1.018	1.39			
3.825	614304	675741	1.100	1.21			
3.938	218555	160018	0.732	0.43			
3.994	268838	242778	0.903	0.53			
4.059	123742	109013	0.881	0.24			
4.135	22289	19493	0.875	0.04			
4.214	1713321	1504890	0.878	3.39			
4.261	1636491	1531249	0.936	3.23		6 Aroclor 1248	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.292	1810399	1493099	0.825	3.58	
4.348	31565	25045	0.793	0.06	
4.417	599623	560310	0.934	1.18	
4.452	525495	469112	0.893	1.04	
4.545	1199913	1097575	0.915	2.37	6 Aroclor 1248
4.589	165444	147962	0.894	0.32	
4.616	142689	120460	0.844	0.28	
4.680	153963	128451	0.834	0.30	
4.736	166511	130989	0.787	0.32	
4.768	301336	274570	0.911	0.59	
4.813	781909	722046	0.923	1.54	6 Aroclor 1248
4.847	601059	571774	0.951	1.18	
4.879	1977446	968538	0.490	3.91	6 Aroclor 1248
4.956	465969	395339	0.848	0.92	
5.037	570878	498658	0.873	1.13	6 Aroclor 1248
5.101	918670	800763	0.872	1.81	
5.160	1298277	1120747	0.863	2.57	7 Aroclor 1254
5.211	1019487	865322	0.849	2.01	
5.282	143589	135310	0.942	0.28	
5.306	270735	224285	0.828	0.53	
5.362	374363	330054	0.882	0.74	
5.407	801407	702298	0.876	1.58	7 Aroclor 1254
5.448	718152	606855	0.845	1.42	
5.478	155088	142272	0.917	0.30	
5.509	1603777	1347962	0.840	3.17	7 Aroclor 1254
5.575	101294	84054	0.830	0.20	
5.603	206383	159403	0.772	0.40	
5.674	597300	567472	0.950	1.18	
5.709	315207	236434	0.750	0.62	
5.742	347066	268111	0.773	0.68	
5.789	2043261	1492647	0.731	4.04	
5.884	230034	161562	0.702	0.45	
5.932	210306	159188	0.757	0.41	
5.993	438089	382662	0.873	0.86	
6.025	814652	701923	0.862	1.61	7 Aroclor 1254
6.055	1225346	1017596	0.830	2.42	
6.167	384231	214414	0.558	0.76	
6.242	311929	151739	0.486	0.61	
6.300	2052690	1650376	0.804	4.06	7 Aroclor 1254
6.332	201848	175748	0.871	0.39	
6.374	111295	70611	0.634	0.22	
6.432	284858	228863	0.803	0.56	
6.509	787550	681744	0.866	1.55	
6.534	340195	310527	0.913	0.67	
6.559	219063	184205	0.841	0.43	
6.605	75303	46181	0.613	0.14	
6.660	73094	54412	0.744	0.14	
6.717	264075	209175	0.792	0.52	
6.759	293499	238181	0.812	0.58	
6.801	283129	241045	0.851	0.56	
6.839	131337	99708	0.759	0.25	
6.912	44017	36036	0.819	0.08	
6.942	133980	113245	0.845	0.26	
7.005	601708	539545	0.897	1.19	8 Aroclor 1260
7.036	78258	70133	0.896	0.15	
7.074	23139	15825	0.684	0.04	
7.122	49333	26848	0.544	0.09	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.252	331260	295506	0.892	0.65	8 Aroclor 1260
7.281	150086	110915	0.739	0.29	
7.339	21510	18216	0.847	0.04	
7.390	215602	200886	0.932	0.42	
7.443	270698	227374	0.840	0.53	8 Aroclor 1260
7.542	14546	13209	0.908	0.02	
7.578	12413	11203	0.902	0.02	
7.618	26481	15955	0.603	0.05	
7.691	76697	78415	1.022	0.15	
7.727	70629	60076	0.851	0.13	
7.800	42238	29964	0.709	0.08	
7.900	189182	158875	0.840	0.37	8 Aroclor 1260
7.963	33519	17801	0.531	0.06	
8.050	17382	14709	0.846	0.03	
8.275	166471	149699	0.899	0.32	
8.376	10924	9902	0.906	0.02	
8.571	5612313	4795274	0.854	11.10	$ 12 Decachlorobiphenyl
9.170	23002	18824	0.818	0.04	
	50515871	42862332		100.000	

Total unknown % area = 48

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041218.b\041218018.D
Lab Smp Id: 40157694008 Client Smp ID: ND5-170615-01-YP-03
Inj Date : 12-APR-2018 15:32
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157694008 x2,
Misc Info : 17661,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041218.b\pcba030618.m
Meth Date : 19-Apr-2018 09:02 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 18
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	10.010	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			
1.804	1.804	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
2.409	2.407	0.002	161202	0.29425	290	0.00- 20.00	0.00	BA
2.683	2.688	-0.005	16340	0.01181	12	0.00- 20.00	0.00	BA
2.790	2.789	0.001	41073	0.03714	37	0.00- 20.00	0.00	BA
2.851	2.851	0.000	63250	0.01943	19	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					90			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	6031768	0.04892	49		(M)	BA
3 Aroclor 1242					CAS #: 53469-21-9			

Operator disabled compound identification.

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			
4.261	4.261	0.000	1636491	0.69847	700	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1199912	0.28911	290	0.00- 20.00	73.32	BA
4.813	4.812	0.001	781908	0.38516	380	0.00- 20.00	47.78	BA
4.879	4.879	0.000	1977446	0.39255	390	0.00- 20.00	120.83	BA
5.036	5.038	-0.002	570877	0.15908	160	0.00- 20.00	34.88	BA
Average of Peak Concentrations =					380			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	1298277	0.24799	250	0.00- 20.00	100.00(M)	BA
5.407	5.408	-0.001	801406	0.18633	190	0.00- 20.00	61.73	BA
5.509	5.510	-0.001	1603777	0.20651	210	0.00- 20.00	123.53	BA
6.025	6.027	-0.002	814651	0.16729	170	0.00- 20.00	62.75	BA
6.300	6.299	0.001	2052690	0.31545	320	0.00- 20.00	158.11	BA
Average of Peak Concentrations =					220			
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	601707	0.06008	60	0.00- 20.00	33.08	CO
7.251	7.251	0.000	331260	0.06930	69	0.00- 20.00	16.14	CO
7.442	7.443	-0.001	270697	0.09286	93	0.00- 20.00	13.19	CO
7.900	7.901	-0.001	189182	0.07169	72	0.00- 20.00	9.22	CO
Average of Peak Concentrations =					73			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	5612312	0.05123	51			

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\041218.b\041218018.D

Date : 12-APR-2018 15:32

Client ID: ND5-170615-01-YP-03

Instrument: 40GCSJ.i

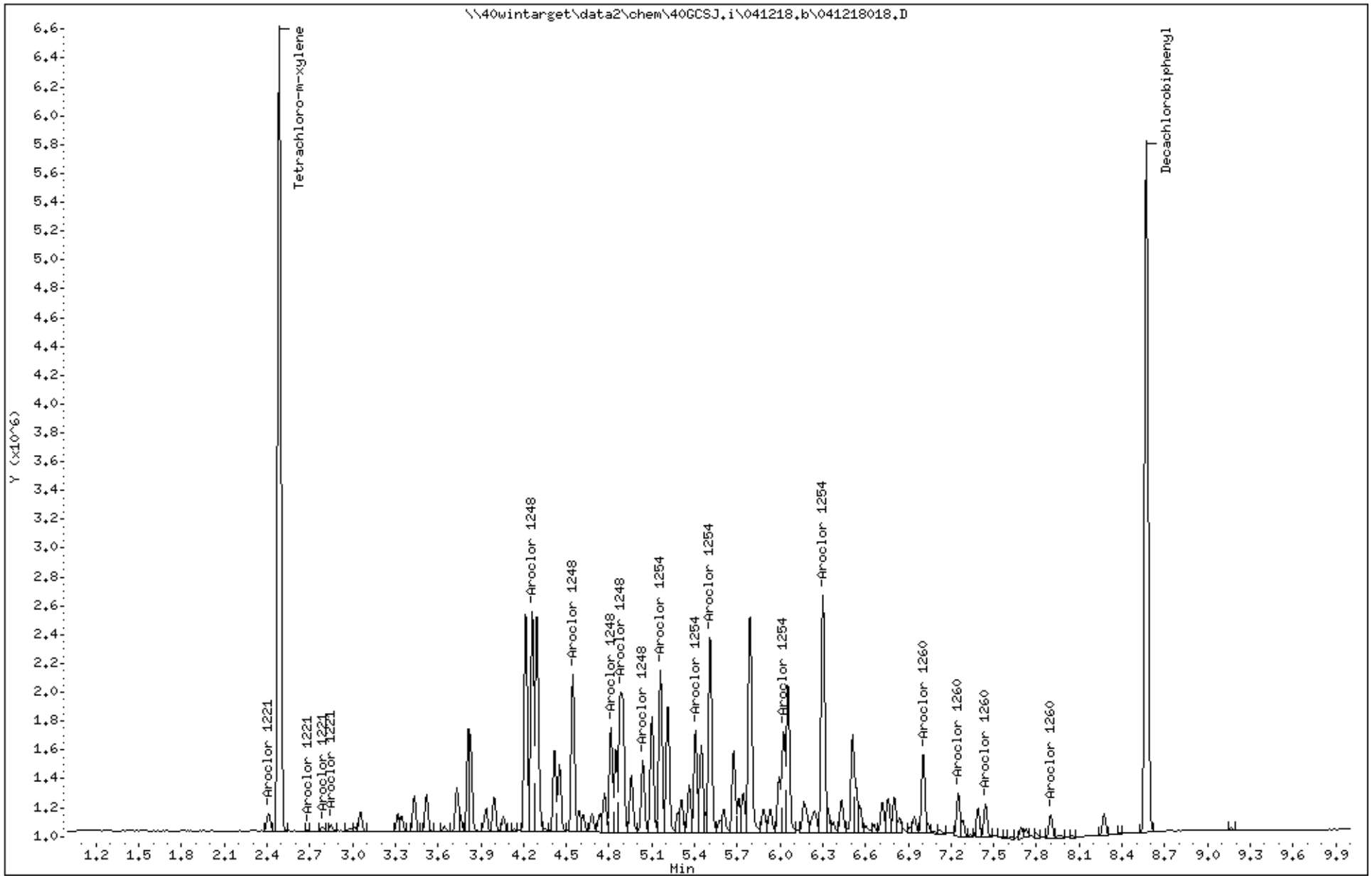
Sample Info: 40157694008 x2,

Volume Injected (uL): 1.0

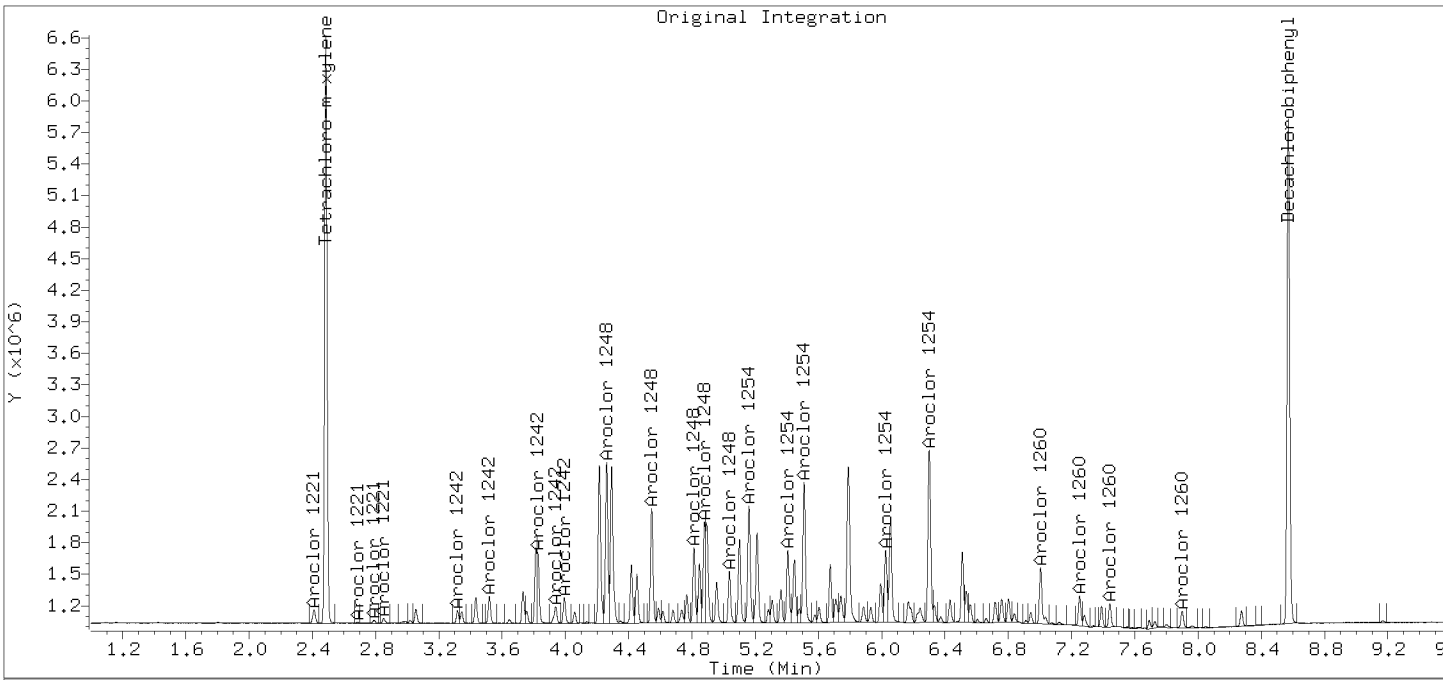
Operator: BLM

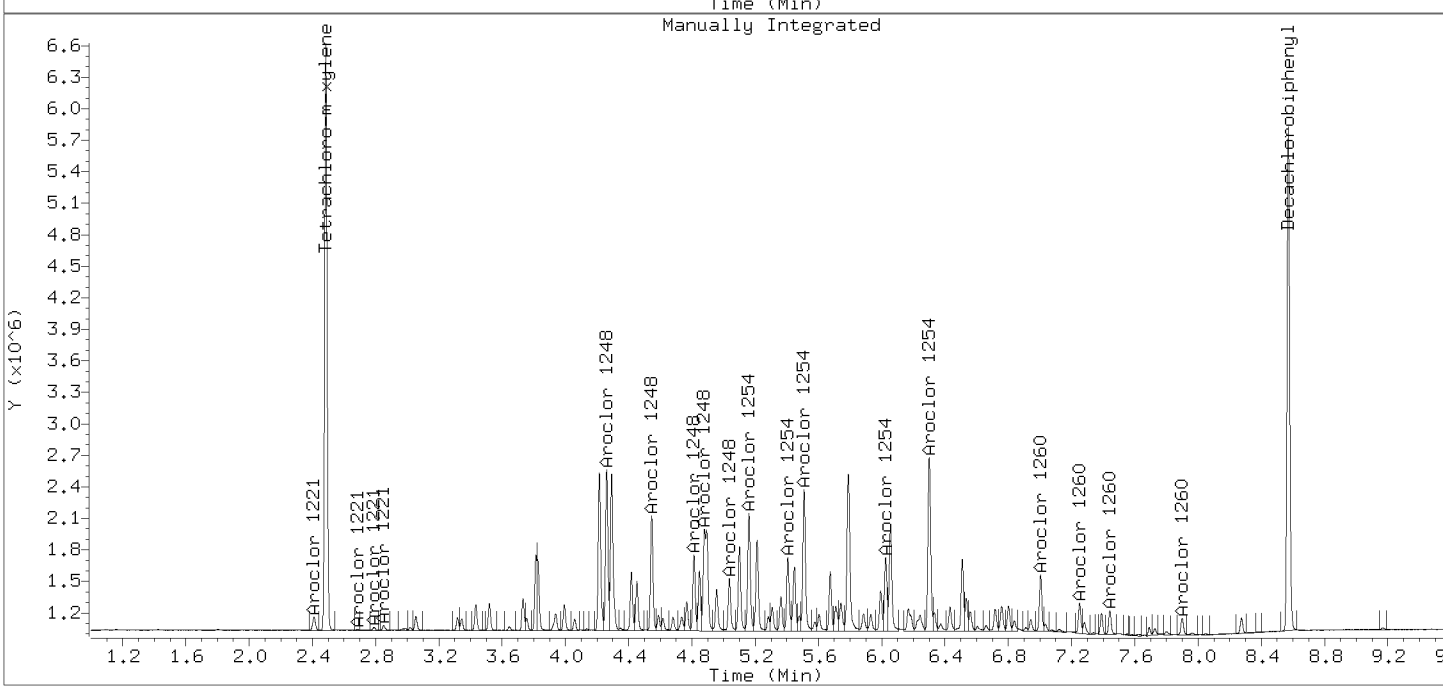
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041218.b/041218018.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 12-APR-2018 15:32 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157694008





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	129856	0	
Aroclor 1016	129856	0	
Aroclor 1016	129856	0	
Aroclor 1016	129856	0	
Aroclor 1016	129856	0	
Aroclor 1221	0	0	BA
Aroclor 1221	0	0	BA
Aroclor 1221	0	0	BA
Aroclor 1221	0	0	BA
Aroclor 1221	0	0	BA
Aroclor 1232	58637	0	
Aroclor 1232	58637	0	
Aroclor 1232	58637	0	
Aroclor 1232	58637	0	

Aroclor 1232	58637	0	
Aroclor 1242	129856	0	
Aroclor 1242	129856	0	
Aroclor 1242	129856	0	
Aroclor 1242	129856	0	
Aroclor 1242	129856	0	
Aroclor 1248	1624668	1636491	BA
Aroclor 1248	1624668	1636491	BA
Aroclor 1248	1624668	1636491	BA
Aroclor 1248	1624668	1636491	BA
Aroclor 1248	1624668	1636491	BA
Aroclor 1254	1267008	1298277	BA
Aroclor 1254	1267008	1298277	BA
Aroclor 1254	1267008	1298277	BA
Aroclor 1254	1267008	1298277	BA
Aroclor 1254	1267008	1298277	BA
Aroclor 1260	2002894	0	CO
Aroclor 1260	2002894	0	CO
Aroclor 1260	2002894	0	CO
Aroclor 1260	2002894	0	CO
Aroclor 1260	2002894	0	CO
Tetrachloro-m-xylene	6021505	6031768	BA
Decachlorobiphenyl	5612312	5612312	

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SAMPLE NO.

ND5-170615-01-YP-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: 09/29/2017 10:00
Matrix: Tissue SDG No.: 40157694
Date Extracted: 04/11/2018 06:59
Lab Sample ID: 40157694009
Date Analyzed: 04/12/2018 15:48
Lab File ID: 041218.B\041218019.D
Initial wt/vol: 10.027 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)	<22.7	U
11104-28-2	PCB-1221 (Aroclor 1221)	145	
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)	397	
11097-69-1	PCB-1254 (Aroclor 1254)	216	
11096-82-5	PCB-1260 (Aroclor 1260)	49.8	J
1336-36-3	PCB, Total	807	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041218.b\041218019.D
Lab Smp Id: 40157694009 Client Smp ID: ND5-170615-01-YP-02
Inj Date : 12-APR-2018 15:48
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157694009 x2,
Misc Info : 17661,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041218.b\pcba030618.m
Meth Date : 19-Apr-2018 09:02 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 19
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	10.027	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS	REVIEW CODE
1.158	18751	10488	0.559	0.03			
1.808	24426	17221	0.705	0.04		1 Aroclor 1221	BA
2.411	342782	261783	0.764	0.66		1 Aroclor 1221	BA
2.486	6481780	5943851	0.917	13.05	$	2 Tetrachloro-m-xylene	BA
2.686	19685	16917	0.859	0.03		1 Aroclor 1221	BA
2.789	39625	31225	0.788	0.07		1 Aroclor 1221	BA
2.852	86801	69652	0.802	0.16		1 Aroclor 1221	BA
2.973	36909	29838	0.808	0.07			
2.989	32920	31460	0.956	0.06			
3.020	48433	45970	0.949	0.09			
3.055	330573	299005	0.905	0.64			
3.318	148271	142144	0.959	0.28			
3.344	181269	167365	0.923	0.35			
3.434	576365	535009	0.928	1.11			
3.520	444199	411478	0.926	0.86			
3.644	75146	63700	0.848	0.14			
3.732	361715	348775	0.964	0.70			
3.755	134754	134342	0.997	0.26			
3.814	1459446	855476	0.586	2.82			
3.939	381264	316411	0.830	0.73			
3.993	310442	284292	0.916	0.60			
4.057	176841	164505	0.930	0.34			
4.134	29327	28351	0.967	0.05			

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.166	14610	12175	0.833	0.02	
4.215	1823076	1594315	0.875	3.53	
4.261	1751368	1645545	0.940	3.39	6 Aroclor 1248
4.292	1982301	1664242	0.840	3.84	
4.347	42722	29562	0.692	0.08	
4.417	596245	546809	0.917	1.15	
4.453	550403	499944	0.908	1.06	
4.546	1326808	1210277	0.912	2.57	6 Aroclor 1248
4.588	183666	169533	0.923	0.35	
4.618	164555	138373	0.841	0.31	
4.681	168718	145465	0.862	0.32	
4.737	191177	151459	0.792	0.37	
4.768	314912	295117	0.937	0.61	
4.813	725813	676392	0.932	1.40	6 Aroclor 1248
4.848	578721	543736	0.940	1.12	
4.893	1984808	1012627	0.510	3.84	6 Aroclor 1248
4.957	557876	490025	0.878	1.08	
5.037	614698	551764	0.898	1.19	6 Aroclor 1248
5.101	1020710	901929	0.884	1.97	
5.161	1157383	965561	0.834	2.24	7 Aroclor 1254
5.212	990077	838973	0.847	1.91	
5.284	154703	149086	0.964	0.29	
5.307	308133	251388	0.816	0.59	
5.363	339571	296326	0.873	0.65	
5.406	832495	735008	0.883	1.61	7 Aroclor 1254
5.448	665341	562137	0.845	1.28	
5.479	163671	154082	0.941	0.31	
5.510	1622068	1382347	0.852	3.14	7 Aroclor 1254
5.577	125106	102116	0.816	0.24	
5.604	218180	168616	0.773	0.42	
5.675	599558	557831	0.930	1.16	
5.709	319096	256405	0.804	0.61	
5.742	370728	288641	0.779	0.71	
5.789	1805949	1348767	0.747	3.49	
5.886	259116	178432	0.689	0.50	
5.932	220621	174717	0.792	0.42	
5.994	411103	376592	0.916	0.79	
6.025	829674	709946	0.856	1.60	7 Aroclor 1254
6.055	1057650	918882	0.869	2.04	
6.168	301043	156249	0.519	0.58	
6.243	300361	147548	0.491	0.58	
6.302	1873471	1482859	0.792	3.62	7 Aroclor 1254
6.333	184059	156820	0.852	0.35	
6.374	99674	65739	0.660	0.19	
6.432	287611	228440	0.794	0.55	
6.509	610617	552000	0.904	1.18	
6.536	345123	298755	0.866	0.66	
6.561	149545	130405	0.872	0.28	
6.607	50341	34210	0.680	0.09	
6.659	46893	33351	0.711	0.09	
6.718	168954	132309	0.783	0.32	
6.759	228732	187725	0.821	0.44	
6.802	235007	206470	0.879	0.45	
6.841	134490	90393	0.672	0.26	
6.912	31454	25656	0.816	0.06	
6.943	125922	110466	0.877	0.24	
7.005	372608	337140	0.905	0.72	8 Aroclor 1260

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.035	40615	42205	1.039	0.07	
7.077	18336	12336	0.673	0.03	
7.123	39442	22574	0.572	0.07	
7.251	230928	203117	0.880	0.44	8 Aroclor 1260
7.281	114252	81473	0.713	0.22	
7.343	24182	18796	0.777	0.04	
7.388	159328	137903	0.866	0.30	
7.443	195596	157116	0.803	0.37	8 Aroclor 1260
7.583	11860	12118	1.022	0.02	
7.619	27443	15128	0.551	0.05	
7.661	15502	13005	0.839	0.03	
7.692	46805	45627	0.975	0.09	
7.729	59445	49160	0.827	0.11	
7.805	50212	28343	0.564	0.09	
7.899	123873	103459	0.835	0.23	8 Aroclor 1260
7.964	26675	14736	0.552	0.05	
8.050	43026	34528	0.802	0.08	
8.275	125444	112571	0.897	0.24	
8.375	9767	8505	0.871	0.01	
8.571	5908349	5150581	0.872	11.44	$ 12 Decachlorobiphenyl
9.164	13636	11733	0.860	0.02	
	51615753	43555949		100.000	

Total unknown % area = 48

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041218.b\041218019.D
Lab Smp Id: 40157694009 Client Smp ID: ND5-170615-01-YP-02
Inj Date : 12-APR-2018 15:48
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157694009 x2,
Misc Info : 17661,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041218.b\pcba030618.m
Meth Date : 19-Apr-2018 09:02 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 19
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	10.027	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			
1.807	1.804	0.003	24425	0.02346	23	0.00- 20.00	100.00(M)	BA
2.410	2.407	0.003	342781	0.62569	620	0.00- 20.00	1403.40	BA
2.685	2.688	-0.003	19684	0.01423	14	0.00- 20.00	80.59	BA
2.788	2.789	-0.001	39624	0.03583	36	0.00- 20.00	162.23	BA
2.851	2.851	0.000	86800	0.02666	26	0.00- 20.00	355.37	BA
Average of Peak Concentrations =					140			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	6481779	0.05257	52		(M)	BA
3 Aroclor 1242					CAS #: 53469-21-9			

Operator disabled compound identification.

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			
4.260	4.261	-0.001	1751367	0.74750	740	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1326807	0.31969	320	0.00- 20.00	75.76	BA
4.812	4.812	0.000	725813	0.35753	360	0.00- 20.00	41.44	BA
4.892	4.879	0.013	1984808	0.39401	390	0.00- 20.00	113.33	BA
5.036	5.038	-0.002	614698	0.17129	170	0.00- 20.00	35.10	BA
Average of Peak Concentrations =					400			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	1157383	0.22108	220	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	832494	0.19356	190	0.00- 20.00	71.93	BA
5.510	5.510	0.000	1622068	0.20887	210	0.00- 20.00	140.15	BA
6.024	6.027	-0.003	829673	0.17038	170	0.00- 20.00	71.69	BA
6.301	6.299	0.002	1873471	0.28791	290	0.00- 20.00	161.87	BA
Average of Peak Concentrations =					220			
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	372608	0.03721	37	0.00- 20.00	22.03	CO
7.250	7.251	-0.001	230927	0.04831	48	0.00- 20.00	12.33	CO
7.442	7.443	-0.001	195595	0.06710	67	0.00- 20.00	10.44	CO
7.898	7.901	-0.003	123873	0.04694	47	0.00- 20.00	6.61	CO
Average of Peak Concentrations =					50			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	5908348	0.05393	54			

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\041218.b\041218019.D

Date : 12-APR-2018 15:48

Client ID: ND5-170615-01-YP-02

Instrument: 40GCSJ.i

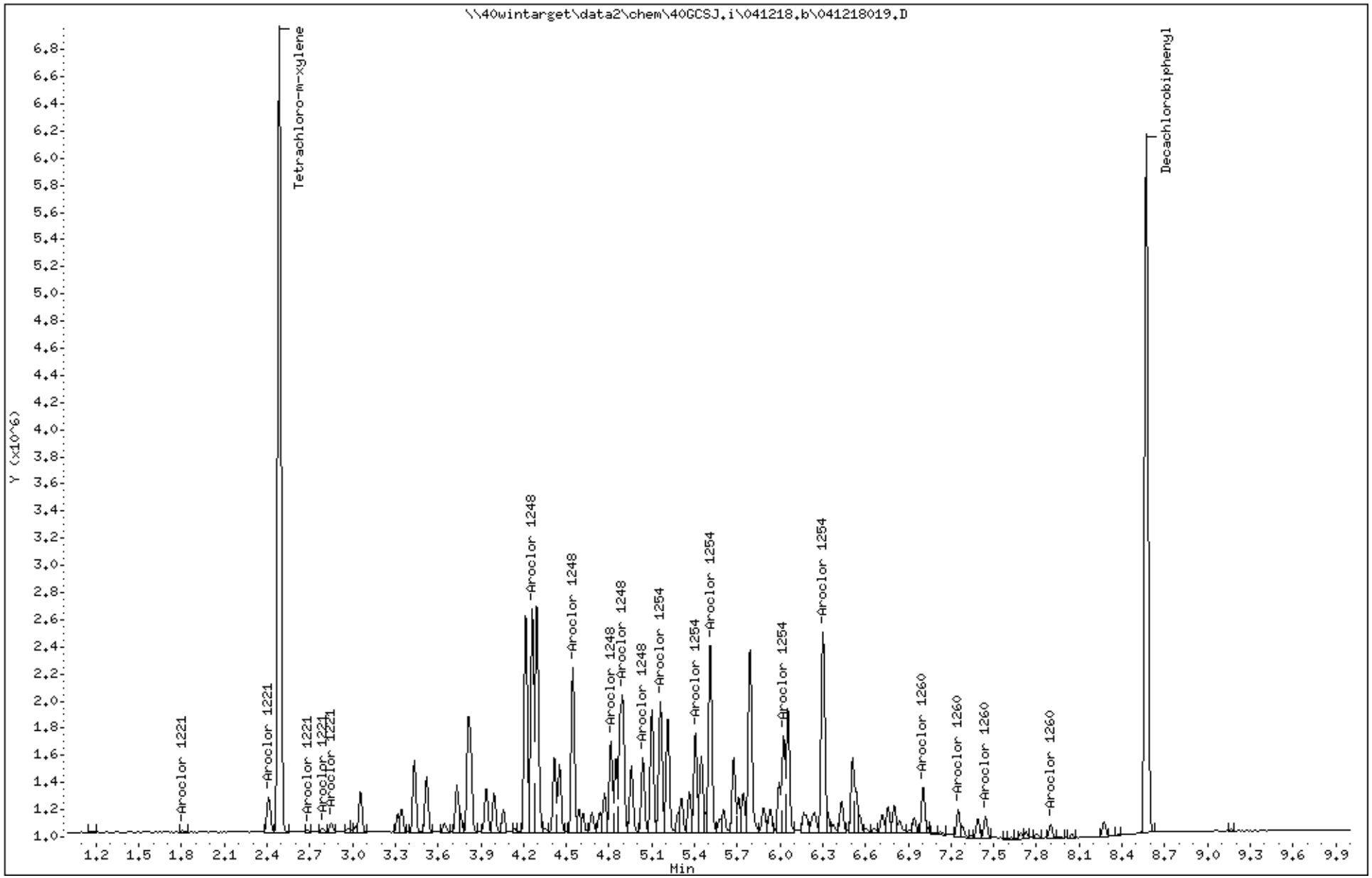
Sample Info: 40157694009 x2,

Volume Injected (uL): 1.0

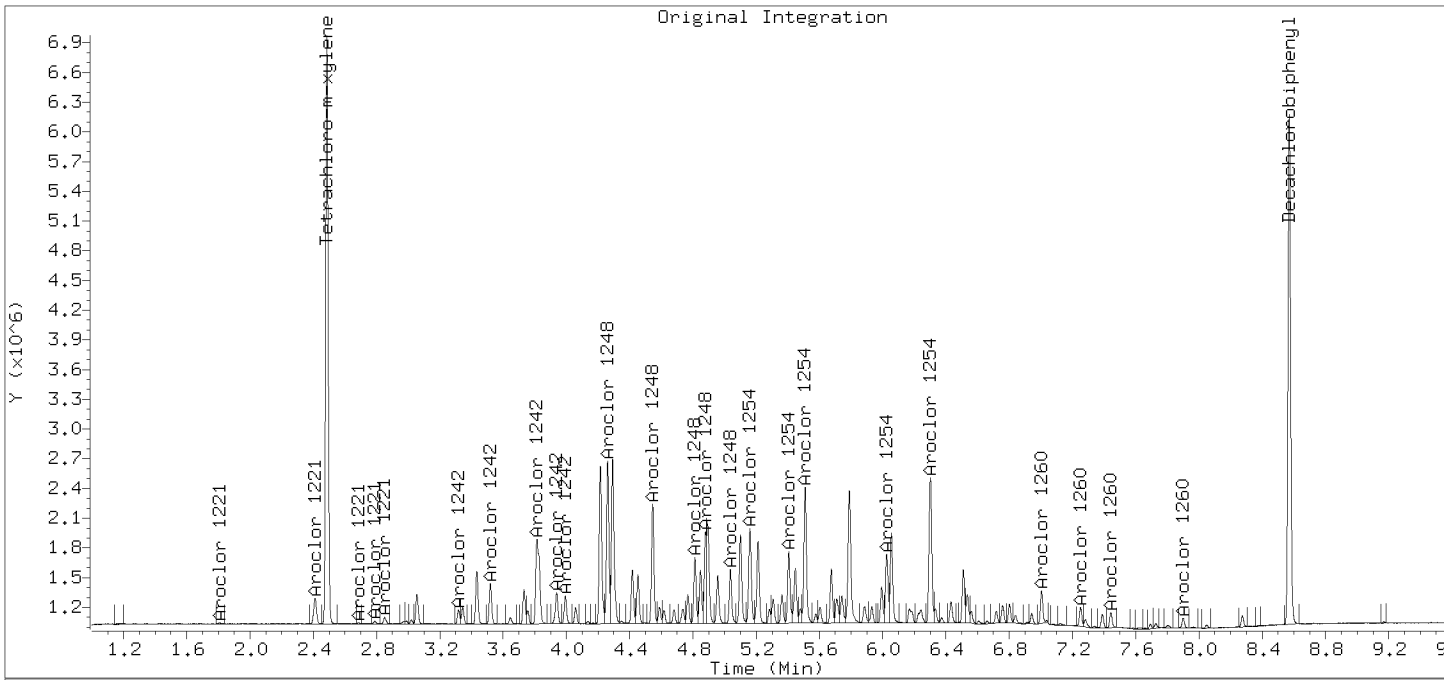
Operator: BLM

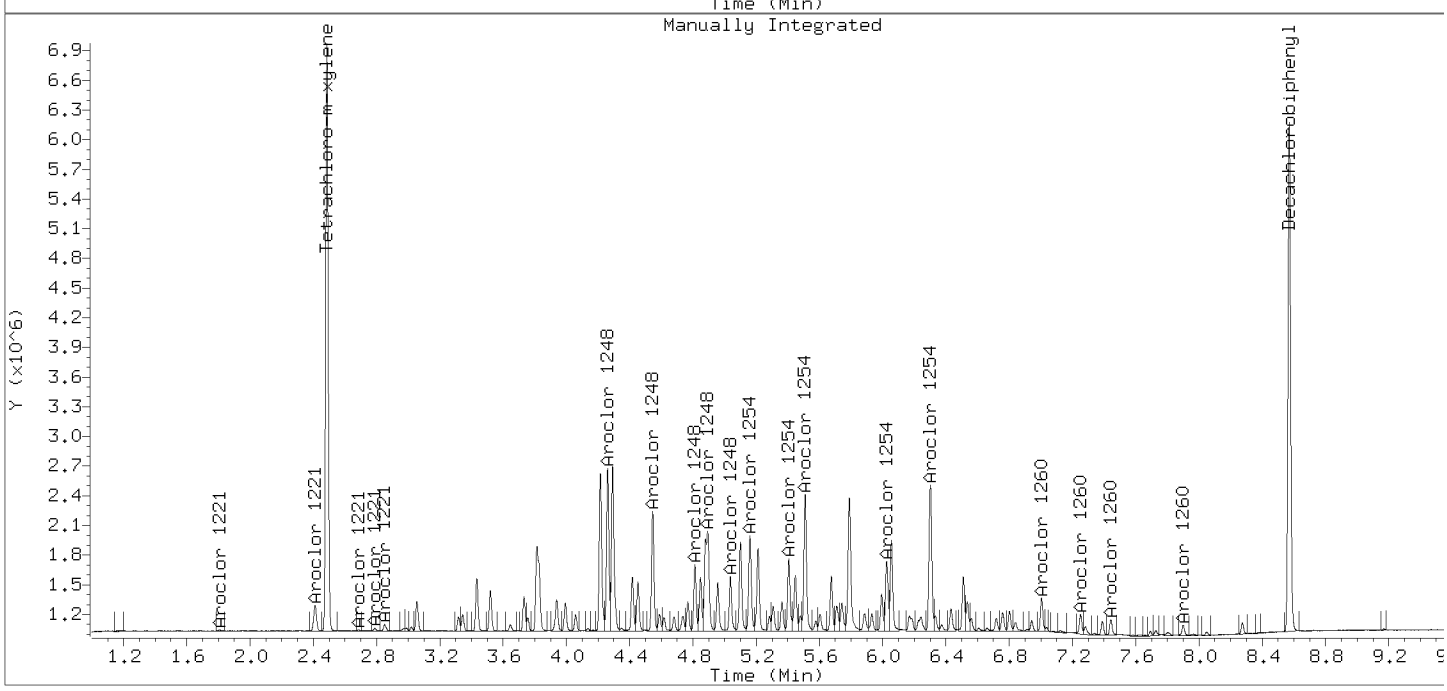
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041218.b/041218019.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 12-APR-2018 15:48 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157694009





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	149840	0	
Aroclor 1016	149840	0	
Aroclor 1016	149840	0	
Aroclor 1016	149840	0	
Aroclor 1016	149840	0	
Aroclor 1221	23728	24425	BA
Aroclor 1221	23728	24425	BA
Aroclor 1221	23728	24425	BA
Aroclor 1221	23728	24425	BA
Aroclor 1221	23728	24425	BA
Aroclor 1232	81654	0	
Aroclor 1232	81654	0	
Aroclor 1232	81654	0	
Aroclor 1232	81654	0	

Aroclor 1232	81654	0	
Aroclor 1242	149840	0	
Aroclor 1242	149840	0	
Aroclor 1242	149840	0	
Aroclor 1242	149840	0	
Aroclor 1242	149840	0	
Aroclor 1248	1739631	1751367	BA
Aroclor 1248	1739631	1751367	BA
Aroclor 1248	1739631	1751367	BA
Aroclor 1248	1739631	1751367	BA
Aroclor 1248	1739631	1751367	BA
Aroclor 1254	1127571	1157383	BA
Aroclor 1254	1127571	1157383	BA
Aroclor 1254	1127571	1157383	BA
Aroclor 1254	1127571	1157383	BA
Aroclor 1254	1127571	1157383	BA
Aroclor 1260	1829103	0	CO
Aroclor 1260	1829103	0	CO
Aroclor 1260	1829103	0	CO
Aroclor 1260	1829103	0	CO
Aroclor 1260	1829103	0	CO
Tetrachloro-m-xylene	6468524	6481779	BA
Decachlorobiphenyl	5908348	5908348	

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SAMPLE NO.

ND5-170615-01-YP-01

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: 09/29/2017 10:00
Matrix: Tissue SDG No.: 40157694
Date Extracted: 04/11/2018 06:59
Lab Sample ID: 40157694010
Date Analyzed: 04/12/2018 16:04
Lab File ID: 041218.B\041218020.D
Initial wt/vol: 9.9701 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)	55.3	
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)	291	
11097-69-1	PCB-1254 (Aroclor 1254)	224	
11096-82-5	PCB-1260 (Aroclor 1260)	88.2	
1336-36-3	PCB, Total	659	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041218.b\041218020.D
Lab Smp Id: 40157694010 Client Smp ID: ND5-170615-01-YP-01
Inj Date : 12-APR-2018 16:04
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157694010,
Misc Info : 17661,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041218.b\pcba030618.m
Meth Date : 19-Apr-2018 09:02 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 20
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	9.970	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.536	15900	9239	0.581	0.01		
1.805	15228	12680	0.833	0.01	1 Aroclor 1221	BA
2.197	68719	29849	0.434	0.07		
2.286	14227	9402	0.661	0.01		
2.313	10664	9535	0.894	0.01		
2.411	252784	194641	0.770	0.27	1 Aroclor 1221	BA
2.485	12138323	11232469	0.925	13.43	$ 2 Tetrachloro-m-xylene	BA
2.683	23281	13602	0.584	0.02	1 Aroclor 1221	BA
2.789	39214	31409	0.801	0.04	1 Aroclor 1221	BA
2.850	75158	51716	0.688	0.08	1 Aroclor 1221	BA
2.974	61383	28620	0.466	0.06		
3.020	39752	37898	0.953	0.04		
3.054	326360	297273	0.911	0.34		
3.317	89675	85708	0.956	0.09		
3.344	132507	115778	0.874	0.14		
3.434	396658	361366	0.911	0.42		
3.520	590456	544050	0.921	0.63		
3.647	89217	73721	0.826	0.09		
3.691	13231	11254	0.851	0.01		
3.732	319069	302675	0.949	0.34		
3.755	131255	125777	0.958	0.14		
3.814	666781	765389	1.148	0.71		
3.826	836498	810604	0.969	0.89		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.938	343622	284835	0.829	0.36	
3.993	438207	395231	0.902	0.46	
4.058	177164	158106	0.892	0.18	
4.135	29275	19988	0.683	0.03	
4.214	2210254	1920558	0.869	2.36	
4.261	2229043	2047722	0.919	2.38	6 Aroclor 1248
4.293	3052746	2572168	0.843	3.26	
4.345	61997	39684	0.640	0.06	
4.417	852073	778239	0.913	0.91	
4.452	781051	710332	0.909	0.83	
4.546	1796664	1605397	0.894	1.91	6 Aroclor 1248
4.588	291564	263058	0.902	0.31	
4.616	201592	165776	0.822	0.21	
4.680	266701	224747	0.843	0.28	
4.736	359602	296935	0.826	0.38	
4.768	515576	486148	0.943	0.55	
4.812	1194350	1129889	0.946	1.27	6 Aroclor 1248
4.847	834605	795134	0.953	0.89	
4.878	3211495	1617851	0.504	3.43	6 Aroclor 1248
4.956	934815	795894	0.851	0.99	
5.036	1052475	958896	0.911	1.12	6 Aroclor 1248
5.101	1810372	1542538	0.852	1.93	
5.160	2399566	1978950	0.825	2.56	7 Aroclor 1254
5.212	2063458	1771427	0.858	2.20	
5.283	293899	296061	1.007	0.31	
5.307	587507	493787	0.840	0.62	
5.362	654466	591031	0.903	0.69	
5.406	1629141	1487315	0.913	1.74	7 Aroclor 1254
5.446	1170128	944528	0.807	1.25	
5.478	297906	269998	0.906	0.31	
5.510	2990851	2630732	0.880	3.19	7 Aroclor 1254
5.578	243789	212615	0.872	0.26	
5.605	392645	325860	0.830	0.41	
5.675	1356231	1240607	0.915	1.44	
5.709	628154	516637	0.822	0.67	
5.742	795843	628122	0.789	0.85	
5.789	3970504	3033078	0.764	4.24	
5.885	478182	366511	0.766	0.51	
5.931	541755	448076	0.827	0.57	
5.993	1031467	953063	0.924	1.10	
6.025	1750964	1445540	0.826	1.87	7 Aroclor 1254
6.056	2825863	2378498	0.842	3.01	
6.169	669291	400442	0.598	0.71	
6.227	224750	256757	1.142	0.24	
6.243	428938	308052	0.718	0.45	
6.301	4268395	3450063	0.808	4.56	7 Aroclor 1254
6.332	365631	331117	0.906	0.39	
6.372	182365	141546	0.776	0.19	
6.431	687407	566021	0.823	0.73	
6.510	1594731	1386944	0.870	1.70	
6.534	694358	640158	0.922	0.74	
6.560	384751	341020	0.886	0.41	
6.605	125120	101624	0.812	0.13	
6.659	104164	87860	0.843	0.11	
6.718	407048	334224	0.821	0.43	
6.758	548407	492237	0.898	0.58	
6.801	557598	504457	0.905	0.59	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.839	327239	242438	0.741	0.34	
6.911	73394	67969	0.926	0.07	
6.941	288136	254591	0.884	0.30	
7.003	1255887	1119642	0.892	1.34	8 Aroclor 1260
7.033	143577	131827	0.918	0.15	
7.075	22154	20041	0.905	0.02	
7.120	45232	36876	0.815	0.04	
7.251	675549	593455	0.878	0.72	8 Aroclor 1260
7.280	245806	202420	0.823	0.26	
7.340	21278	16211	0.762	0.02	
7.388	547824	477561	0.872	0.58	
7.442	628055	553739	0.882	0.67	8 Aroclor 1260
7.549	27954	29042	1.039	0.02	
7.626	24212	14270	0.589	0.02	
7.659	10940	12758	1.166	0.01	
7.690	169765	154004	0.907	0.18	
7.726	172878	152343	0.881	0.18	
7.762	15643	15086	0.964	0.01	
7.801	113989	69109	0.606	0.12	
7.867	13325	13828	1.038	0.01	
7.900	583603	515374	0.883	0.62	8 Aroclor 1260
7.963	66786	45931	0.688	0.07	
8.049	41646	36581	0.878	0.04	
8.274	494362	452194	0.915	0.52	
8.376	25243	16065	0.636	0.02	
8.497	10095	6295	0.624	0.01	
8.570	11116109	9836349	0.885	11.87	$ 12 Decachlorobiphenyl
8.723	10735	10880	1.014	0.01	
9.170	69277	58051	0.838	0.07	
	93577550	80473669		100.000	

Total unknown % area = 47

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041218.b\041218020.D
Lab Smp Id: 40157694010 Client Smp ID: ND5-170615-01-YP-01
Inj Date : 12-APR-2018 16:04
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157694010,
Misc Info : 17661,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041218.b\pcba030618.m
Meth Date : 19-Apr-2018 09:02 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 20
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	9.970	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			
1.809	1.804	0.005	15227	0.01462	7.3	0.00- 20.00	100.00(M)	BA
2.411	2.407	0.004	252784	0.46142	230	0.00- 20.00	1660.10	BA
2.683	2.688	-0.005	23281	0.01683	8.4	0.00- 20.00	152.89	BA
2.789	2.789	0.000	39214	0.03546	18	0.00- 20.00	257.53	BA
2.850	2.851	-0.001	75157	0.02309	12	0.00- 20.00	493.58	BA
Average of Peak Concentrations =					55			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	12138322	0.09845	49		(M)	BA
3 Aroclor 1242					CAS #: 53469-21-9			

Operator disabled compound identification.

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			
4.261	4.261	0.000	2229043	0.95137	480	0.00- 20.00	100.00(M)	BA
4.546	4.546	0.000	1796664	0.43290	220	0.00- 20.00	80.60	BA
4.812	4.812	0.000	1194349	0.58833	300	0.00- 20.00	53.58	BA
4.878	4.879	-0.001	3211495	0.63752	320	0.00- 20.00	144.08	BA
5.036	5.038	-0.002	1052475	0.29329	150	0.00- 20.00	47.22	BA
Average of Peak Concentrations =					290			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	2399566	0.45835	230	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	1629141	0.37878	190	0.00- 20.00	67.89	BA
5.510	5.510	0.000	2990850	0.38512	190	0.00- 20.00	124.64	BA
6.025	6.027	-0.002	1750964	0.35956	180	0.00- 20.00	72.97	BA
6.300	6.299	0.001	4268395	0.65596	330	0.00- 20.00	177.88	BA
Average of Peak Concentrations =					220			
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	1255887	0.12541	63	0.00- 20.00	29.42	BA
7.250	7.251	-0.001	675549	0.14133	71	0.00- 20.00	15.83	BA
7.442	7.443	-0.001	628055	0.21545	110	0.00- 20.00	14.71	BA
7.900	7.901	-0.001	583603	0.22117	110	0.00- 20.00	13.67	BA
Average of Peak Concentrations =					88			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	11116109	0.10146	51			

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\041218.b\041218020.D

Date : 12-APR-2018 16:04

Client ID: ND5-170615-01-YP-01

Instrument: 40GCSJ.i

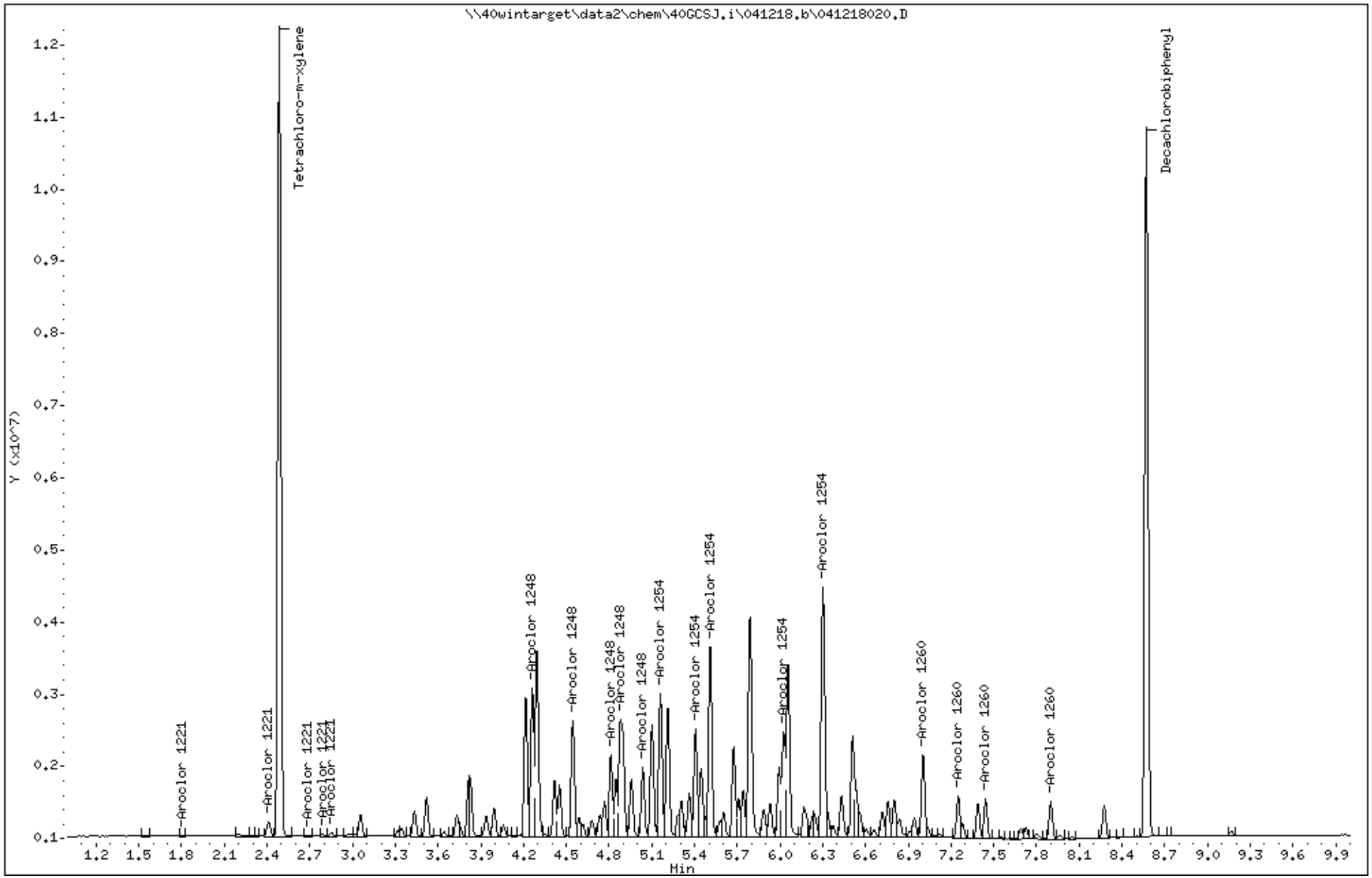
Sample Info: 40157694010,

Volume Injected (uL): 1.0

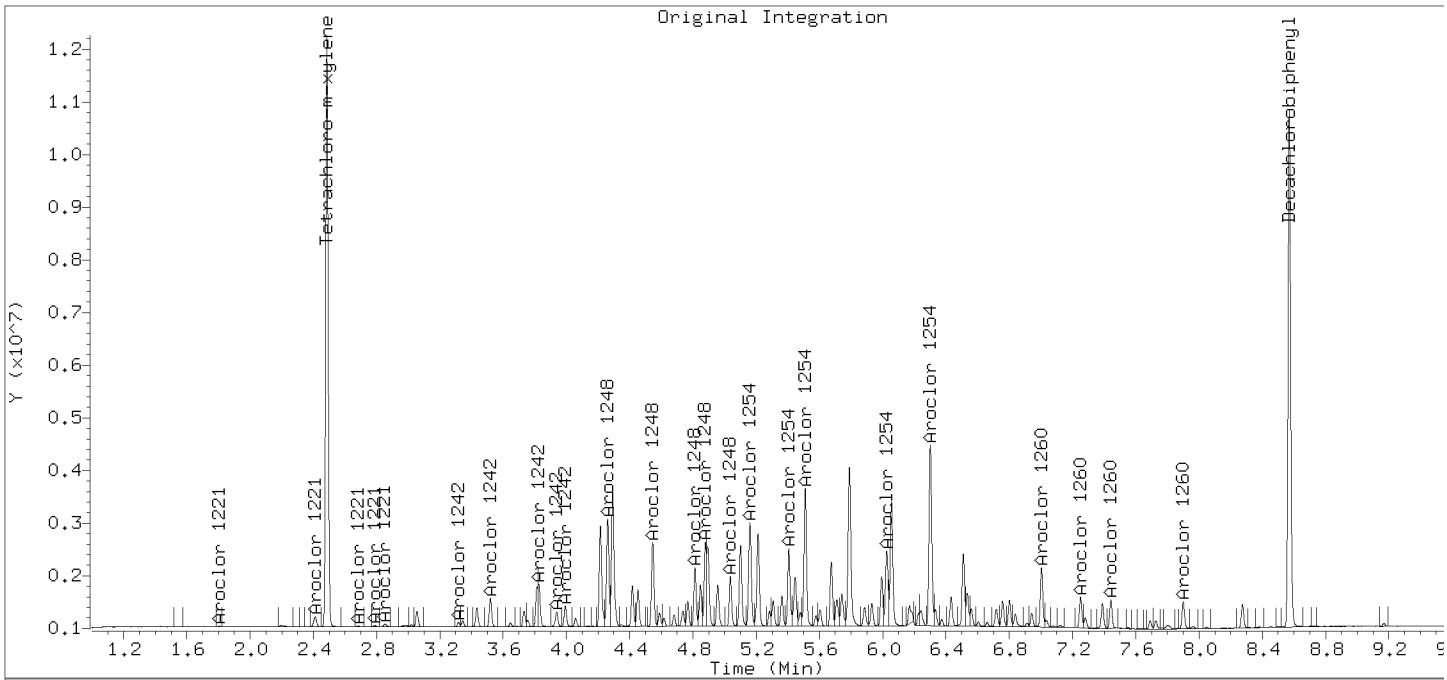
Operator: BLM

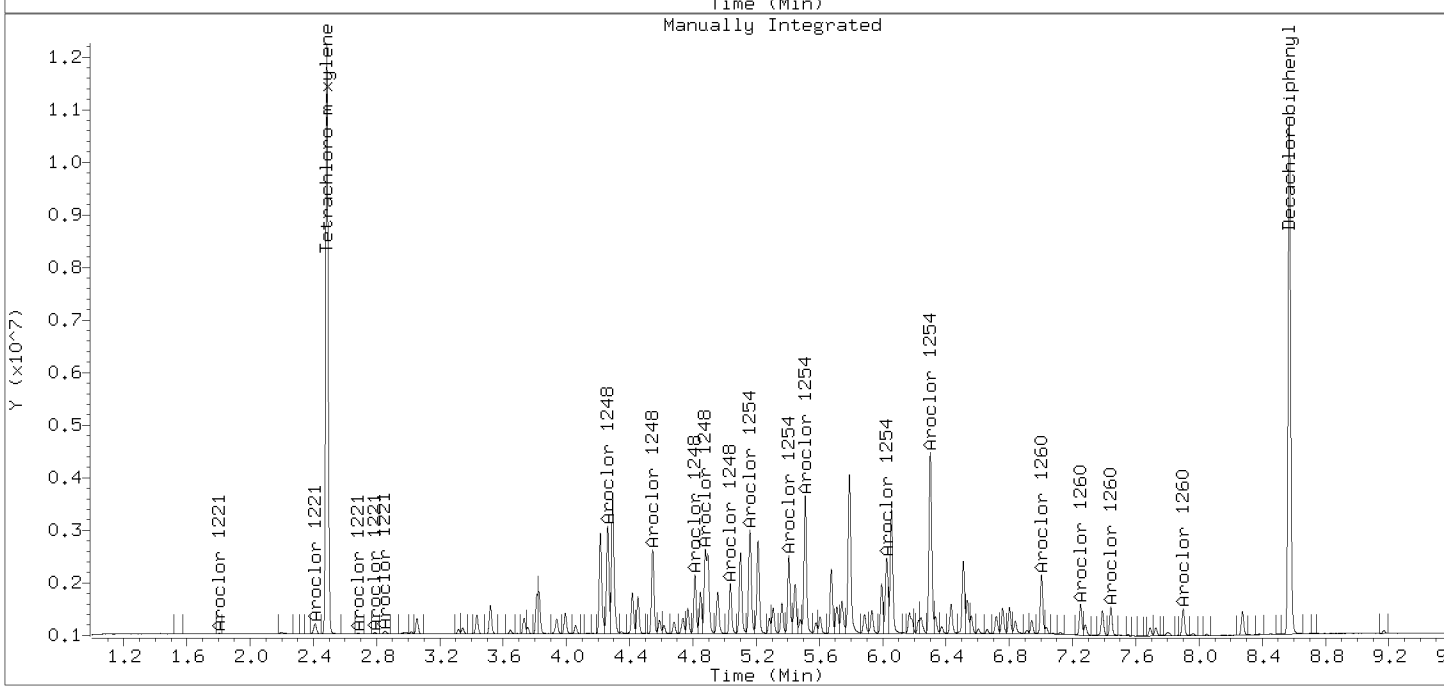
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041218.b/041218020.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 12-APR-2018 16:04 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157694010





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	85965	0	
Aroclor 1016	85965	0	
Aroclor 1016	85965	0	
Aroclor 1016	85965	0	
Aroclor 1016	85965	0	
Aroclor 1221	10018	15227	BA
Aroclor 1221	10018	15227	BA
Aroclor 1221	10018	15227	BA
Aroclor 1221	10018	15227	BA
Aroclor 1221	10018	15227	BA
Aroclor 1232	69864	0	
Aroclor 1232	69864	0	
Aroclor 1232	69864	0	
Aroclor 1232	69864	0	

Aroclor 1232	69864	0	
Aroclor 1242	85965	0	
Aroclor 1242	85965	0	
Aroclor 1242	85965	0	
Aroclor 1242	85965	0	
Aroclor 1242	85965	0	
Aroclor 1248	2209341	2229043	BA
Aroclor 1248	2209341	2229043	BA
Aroclor 1248	2209341	2229043	BA
Aroclor 1248	2209341	2229043	BA
Aroclor 1248	2209341	2229043	BA
Aroclor 1254	2356334	2399566	BA
Aroclor 1254	2356334	2399566	BA
Aroclor 1254	2356334	2399566	BA
Aroclor 1254	2356334	2399566	BA
Aroclor 1254	2356334	2399566	BA
Aroclor 1260	4199241	0	BA
Aroclor 1260	4199241	0	BA
Aroclor 1260	4199241	0	BA
Aroclor 1260	4199241	0	BA
Aroclor 1260	4199241	0	BA
Tetrachloro-m-xylene	12127859	12138322	BA
Decachlorobiphenyl	11116109	11116109	

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SAMPLE NO.

ND3-170615-01-YP-05

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: 09/29/2017 10:00
Matrix: Tissue SDG No.: 40157694
Date Extracted: 04/11/2018 06:59
Lab Sample ID: 40157694011
Date Analyzed: 04/12/2018 16:20
Lab File ID: 041218.B\041218021.D
Initial wt/vol: 10.0162 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)	24.5	J
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)	156	
11097-69-1	PCB-1254 (Aroclor 1254)	112	
11096-82-5	PCB-1260 (Aroclor 1260)	38.0	J
1336-36-3	PCB, Total	331	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041218.b\041218021.D
Lab Smp Id: 40157694011 Client Smp ID: ND3-170615-01-YP-05
Inj Date : 12-APR-2018 16:20
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157694011,
Misc Info : 17661,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041218.b\pcba030618.m
Meth Date : 19-Apr-2018 09:02 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 21
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	10.016	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.032	13005	6065	0.466	0.02		
1.185	27707	13220	0.477	0.04		
1.431	9500	7252	0.763	0.01		
1.536	10812	8309	0.768	0.01		
2.011	10912	10034	0.920	0.01		
2.200	32285	18943	0.587	0.05		
2.410	77020	56071	0.728	0.13	1 Aroclor 1221	BA
2.485	10955551	9948836	0.908	20.09	$ 2 Tetrachloro-m-xylene	BA
2.682	11465	9210	0.803	0.02	1 Aroclor 1221	BA
2.788	33227	24182	0.728	0.05	1 Aroclor 1221	BA
2.852	57895	38802	0.670	0.10	1 Aroclor 1221	BA
3.019	22612	19434	0.859	0.04		
3.056	124941	108265	0.867	0.22		
3.316	66672	62430	0.936	0.11		
3.345	109403	95591	0.874	0.19		
3.402	18863	13653	0.724	0.03		
3.434	202998	186366	0.918	0.36		
3.520	195038	174713	0.896	0.34		
3.644	43820	32556	0.743	0.07		
3.694	14645	13516	0.923	0.02		
3.731	128690	124883	0.970	0.22		
3.756	60140	58170	0.967	0.10		
3.814	267968	337193	1.258	0.47		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.827	393731	355678	0.903	0.70	
3.937	186422	139073	0.746	0.33	
3.993	190779	174002	0.912	0.34	
4.058	94564	79867	0.845	0.16	
4.139	22083	17847	0.808	0.03	
4.215	1047041	941304	0.899	1.86	
4.260	1038401	961938	0.926	1.85	6 Aroclor 1248
4.292	1241628	1025591	0.826	2.21	
4.348	26957	20036	0.743	0.04	
4.417	478054	454317	0.950	0.85	
4.452	415813	377167	0.907	0.74	
4.546	1006167	926401	0.921	1.79	6 Aroclor 1248
4.588	113418	102685	0.905	0.20	
4.617	116522	99365	0.853	0.20	
4.680	110001	97200	0.884	0.19	
4.735	145343	111330	0.766	0.25	
4.768	237943	224166	0.942	0.42	
4.813	676666	636128	0.940	1.20	6 Aroclor 1248
4.848	515007	492899	0.957	0.91	
4.879	1776755	965257	0.543	3.17	6 Aroclor 1248
4.957	400556	333864	0.834	0.71	
5.037	674763	613636	0.909	1.20	6 Aroclor 1248
5.100	819770	698127	0.852	1.46	
5.161	1214353	1048988	0.864	2.16	7 Aroclor 1254
5.212	946060	822385	0.869	1.68	
5.283	128156	123317	0.962	0.22	
5.308	284633	238656	0.838	0.50	
5.362	392595	326355	0.831	0.70	
5.406	857303	764301	0.892	1.53	7 Aroclor 1254
5.447	576592	489611	0.849	1.02	
5.479	141139	126768	0.898	0.25	
5.510	1516175	1337494	0.882	2.70	7 Aroclor 1254
5.576	95858	84510	0.882	0.17	
5.603	221574	186343	0.841	0.39	
5.675	624629	576747	0.923	1.11	
5.710	309019	251342	0.813	0.55	
5.742	368219	277107	0.753	0.65	
5.789	1942832	1475563	0.759	3.46	
5.885	253364	191451	0.756	0.45	
5.932	235896	203667	0.863	0.42	
5.993	464470	435008	0.937	0.82	
6.025	972630	841413	0.865	1.73	7 Aroclor 1254
6.055	1204587	1048908	0.871	2.14	
6.168	371694	216557	0.583	0.66	
6.229	119791	133498	1.114	0.21	
6.242	202920	152335	0.751	0.36	
6.301	1949627	1597725	0.820	3.47	7 Aroclor 1254
6.332	201717	179810	0.891	0.36	
6.374	95886	79808	0.832	0.17	
6.432	383376	323503	0.844	0.68	
6.509	796189	705486	0.886	1.42	
6.535	297660	271352	0.912	0.53	
6.560	183795	160003	0.871	0.32	
6.605	61176	49854	0.815	0.10	
6.659	52935	43280	0.818	0.09	
6.718	214955	182974	0.851	0.38	
6.758	299967	259165	0.864	0.53	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.801	289448	248889	0.860	0.51	
6.838	172632	131641	0.763	0.30	
6.914	42512	38106	0.896	0.07	
6.942	179253	161474	0.901	0.31	
7.004	579719	543790	0.938	1.03	8 Aroclor 1260
7.036	69127	63699	0.921	0.12	
7.123	34626	22462	0.649	0.06	
7.250	286153	251771	0.880	0.51	8 Aroclor 1260
7.281	118865	98252	0.827	0.21	
7.338	13600	13625	1.002	0.02	
7.389	309589	275639	0.890	0.55	
7.443	308388	267042	0.866	0.55	8 Aroclor 1260
7.554	12839	13560	1.056	0.02	
7.583	11834	12140	1.026	0.02	
7.690	79263	75993	0.959	0.14	
7.726	109579	92801	0.847	0.19	
7.765	8061	10551	1.309	0.01	
7.805	81323	49914	0.614	0.14	
7.868	11845	10179	0.859	0.02	
7.900	212925	181240	0.851	0.38	8 Aroclor 1260
7.964	35736	19358	0.542	0.06	
8.050	33087	27272	0.824	0.05	
8.275	245866	213683	0.869	0.43	
8.380	20427	13564	0.664	0.03	
8.571	10506209	8999219	0.857	18.75	$ 12 Decachlorobiphenyl
8.729	10972	11164	1.018	0.01	
9.171	30300	24565	0.811	0.05	
9.956	11334	8402	0.741	0.02	
	56030837	48300851		100.000	

Total unknown % area = 38

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041218.b\041218021.D
Lab Smp Id: 40157694011 Client Smp ID: ND3-170615-01-YP-05
Inj Date : 12-APR-2018 16:20
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157694011,
Misc Info : 17661,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041218.b\pcba030618.m
Meth Date : 19-Apr-2018 09:02 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 21
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	10.016	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			
1.804	1.804	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
2.409	2.407	0.002	77019	0.14059	70	0.00- 20.00	0.00	BA
2.682	2.688	-0.006	11464	0.00829	4.1	0.00- 20.00	0.00	BA
2.788	2.789	-0.001	33227	0.03005	15	0.00- 20.00	0.00	BA
2.852	2.851	0.001	57894	0.01778	8.9	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					24			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	10955551	0.08886	44		(M)	BA
3 Aroclor 1242					CAS #: 53469-21-9			

Operator disabled compound identification.

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			
4.260	4.261	-0.001	1038401	0.44320	220	0.00- 20.00	100.00(M)	BA
4.546	4.546	0.000	1006167	0.24243	120	0.00- 20.00	96.90	BA
4.812	4.812	0.000	676666	0.33332	170	0.00- 20.00	65.16	BA
4.879	4.879	0.000	1776754	0.35271	180	0.00- 20.00	171.10	BA
5.037	5.038	-0.001	674763	0.18803	94	0.00- 20.00	64.98	BA
Average of Peak Concentrations =					160			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	1214352	0.23196	120	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	857302	0.19932	100	0.00- 20.00	70.60	BA
5.509	5.510	-0.001	1516174	0.19523	97	0.00- 20.00	124.85	BA
6.025	6.027	-0.002	972630	0.19973	100	0.00- 20.00	80.09	BA
6.301	6.299	0.002	1949626	0.29962	150	0.00- 20.00	160.55	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
7.004	7.006	-0.002	579718	0.05789	29	0.00- 20.00	29.73	BA
7.250	7.251	-0.001	286152	0.05987	30	0.00- 20.00	14.68	BA
7.442	7.443	-0.001	308388	0.10579	53	0.00- 20.00	15.82	BA
7.900	7.901	-0.001	212924	0.08069	40	0.00- 20.00	10.92	BA
Average of Peak Concentrations =					38			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	10506209	0.09589	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\041218.b\041218021.D

Date : 12-APR-2018 16:20

Client ID: ND3-170615-01-YP-05

Instrument: 40GCSJ.i

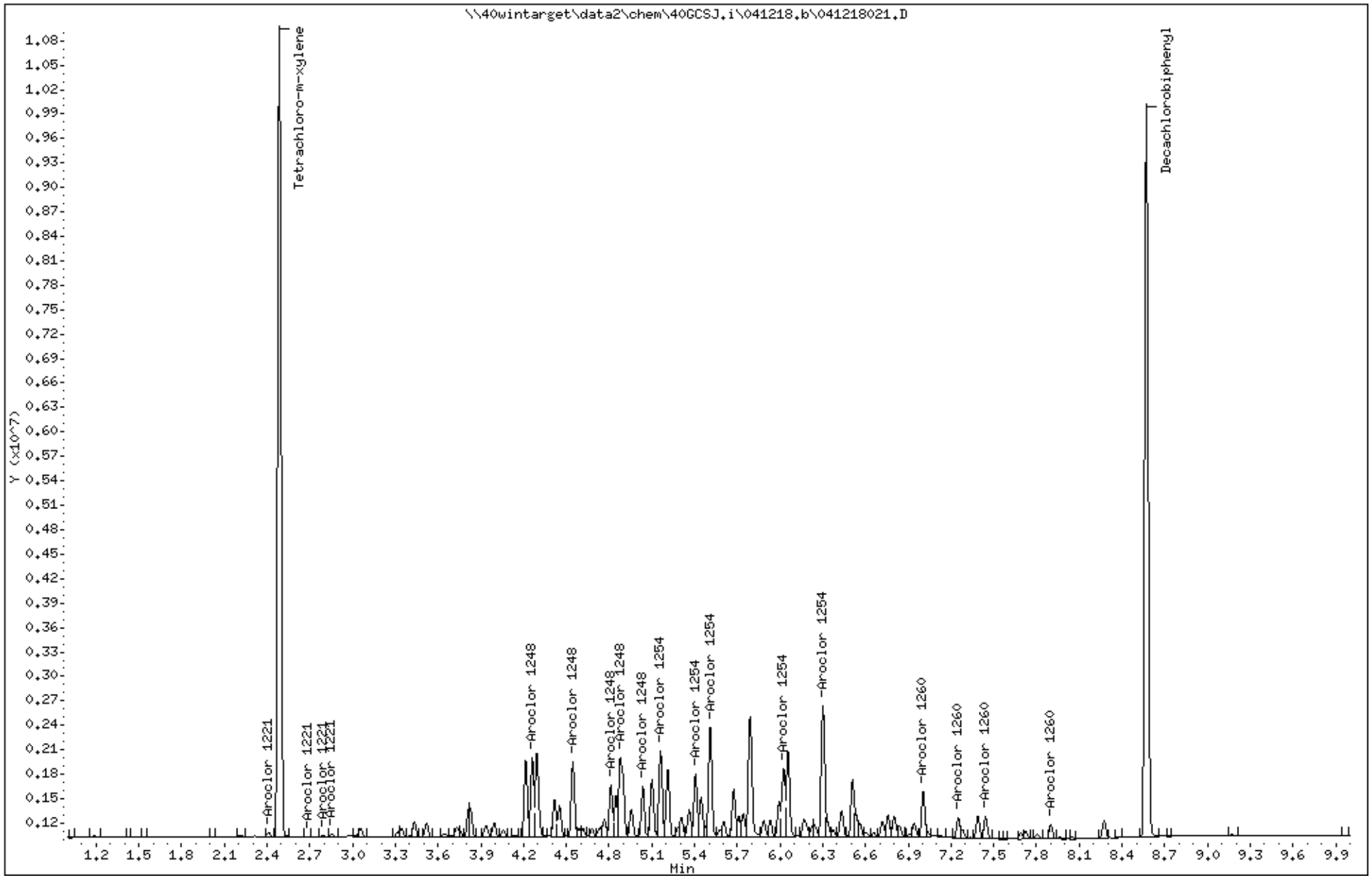
Sample Info: 40157694011,

Volume Injected (uL): 1.0

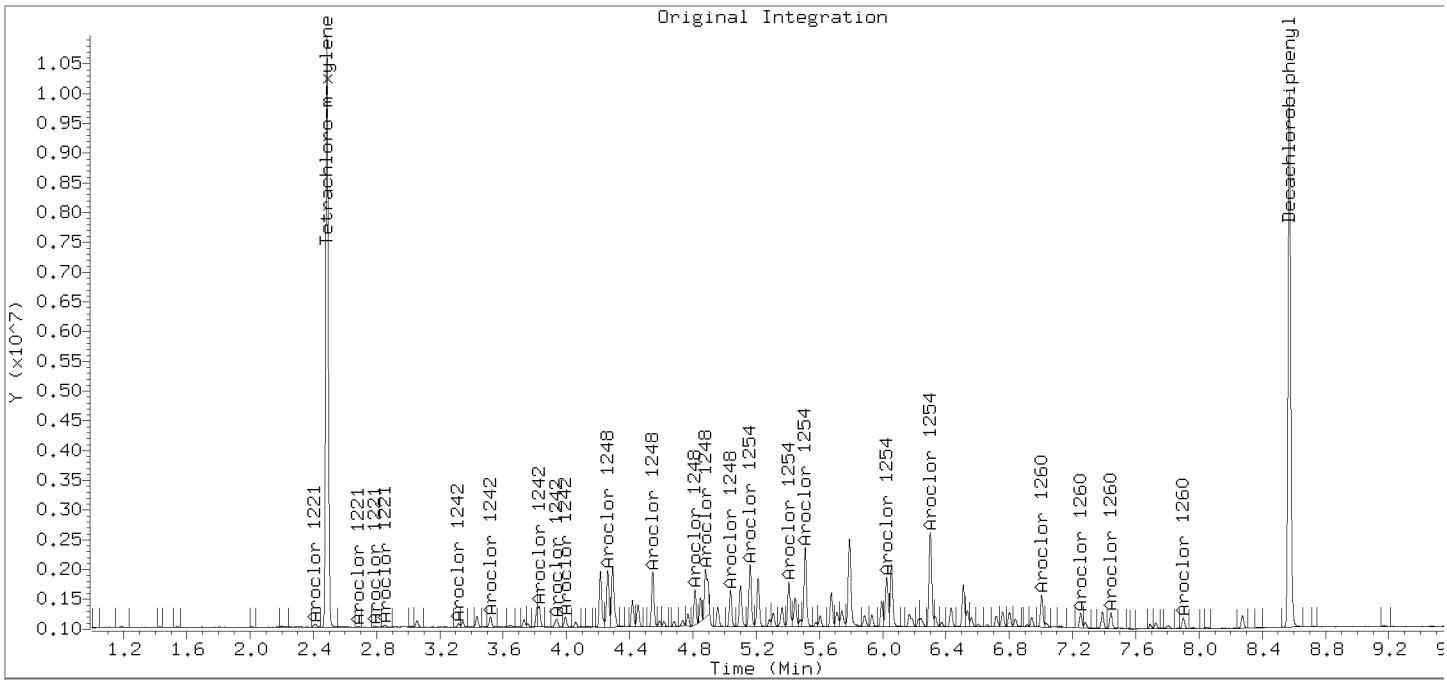
Operator: BLM

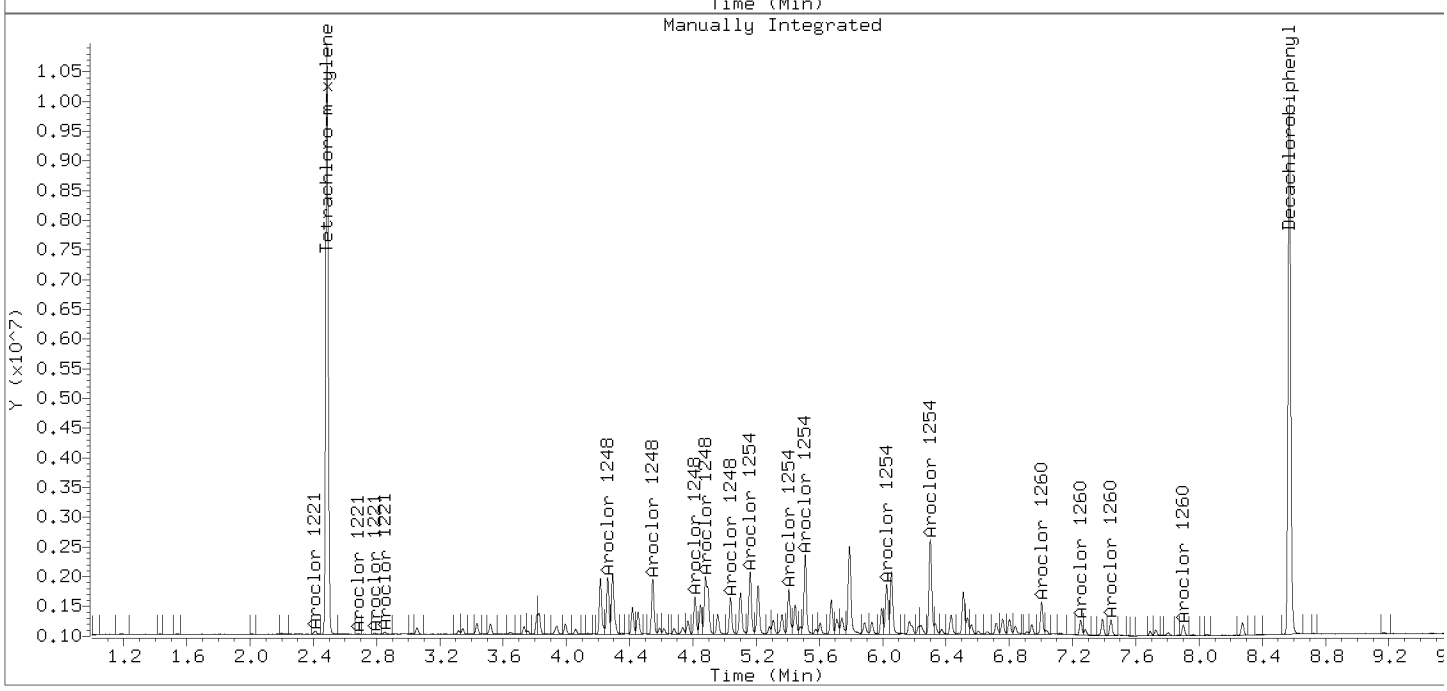
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041218.b/041218021.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 12-APR-2018 16:20 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157694011





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	64870	0	
Aroclor 1016	64870	0	
Aroclor 1016	64870	0	
Aroclor 1016	64870	0	
Aroclor 1016	64870	0	
Aroclor 1221	0	0	BA
Aroclor 1221	0	0	BA
Aroclor 1221	0	0	BA
Aroclor 1221	0	0	BA
Aroclor 1221	0	0	BA
Aroclor 1232	49636	0	
Aroclor 1232	49636	0	
Aroclor 1232	49636	0	
Aroclor 1232	49636	0	

Aroclor 1232	49636	0	
Aroclor 1242	64870	0	
Aroclor 1242	64870	0	
Aroclor 1242	64870	0	
Aroclor 1242	64870	0	
Aroclor 1242	64870	0	
Aroclor 1248	1030189	1038401	BA
Aroclor 1248	1030189	1038401	BA
Aroclor 1248	1030189	1038401	BA
Aroclor 1248	1030189	1038401	BA
Aroclor 1248	1030189	1038401	BA
Aroclor 1254	1175835	1214352	BA
Aroclor 1254	1175835	1214352	BA
Aroclor 1254	1175835	1214352	BA
Aroclor 1254	1175835	1214352	BA
Aroclor 1254	1175835	1214352	BA
Aroclor 1260	1929953	0	BA
Aroclor 1260	1929953	0	BA
Aroclor 1260	1929953	0	BA
Aroclor 1260	1929953	0	BA
Aroclor 1260	1929953	0	BA
Tetrachloro-m-xylene	10937847	10955551	BA
Decachlorobiphenyl	10506209	10506209	

==========

SAMPLE NO.

ND3-170615-01-YP-04

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: 09/29/2017 10:00
Matrix: Tissue SDG No.: 40157694
Date Extracted: 04/11/2018 06:59
Lab Sample ID: 40157694012
Date Analyzed: 04/12/2018 16:36
Lab File ID: 041218.B\041218022.D
Initial wt/vol: 9.9808 g Final wt/vol: 5 mL Dilution: 4
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<45.7	U
11104-28-2	PCB-1221 (Aroclor 1221)	192	J
11141-16-5	PCB-1232 (Aroclor 1232)	<45.7	U
53469-21-9	PCB-1242 (Aroclor 1242)	<45.7	U
12672-29-6	PCB-1248 (Aroclor 1248)	1050	
11097-69-1	PCB-1254 (Aroclor 1254)	557	
11096-82-5	PCB-1260 (Aroclor 1260)	108	J
1336-36-3	PCB, Total	1900	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041218.b\041218022.D
Lab Smp Id: 40157694012 Client Smp ID: ND3-170615-01-YP-04
Inj Date : 12-APR-2018 16:36
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157694012 x4,
Misc Info : 17661,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041218.b\pcba030618.m
Meth Date : 19-Apr-2018 09:02 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 22
Dil Factor: 4.00000
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	4.000	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	9.981	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.412	180261	140649	0.780	0.34	1 Aroclor 1221	BA
2.485	3153476	2929522	0.929	6.43	$ 2 Tetrachloro-m-xylene	BA
2.684	16881	12282	0.728	0.03	1 Aroclor 1221	BA
2.787	24137	18305	0.758	0.04	1 Aroclor 1221	BA
2.852	67085	53540	0.798	0.12	1 Aroclor 1221	BA
2.974	49882	23341	0.468	0.09		
3.017	29754	27594	0.927	0.05		
3.055	255257	230640	0.904	0.48		
3.318	123608	116272	0.941	0.23		
3.344	178148	161482	0.906	0.33		
3.433	414015	382643	0.924	0.78		
3.520	423877	389010	0.918	0.80		
3.646	74195	63816	0.860	0.14		
3.690	5342	5320	0.996	0.01		
3.731	290141	278244	0.959	0.54		
3.756	128792	129658	1.007	0.24		
3.814	686951	843268	1.228	1.29		
3.826	948881	872383	0.919	1.79		
3.938	361451	291187	0.806	0.68		
3.993	394253	362142	0.919	0.74		
4.057	194683	180773	0.929	0.36		
4.136	28005	25958	0.927	0.05		
4.214	1996694	1747783	0.875	3.76		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.260	1995664	1867189	0.936	3.76	6 Aroclor 1248
4.292	2436183	2009417	0.825	4.59	
4.348	47450	35859	0.756	0.08	
4.417	816901	749432	0.917	1.54	
4.452	744654	672106	0.903	1.40	
4.545	1671155	1531941	0.917	3.15	6 Aroclor 1248
4.589	212412	197365	0.929	0.40	
4.617	197201	169802	0.861	0.37	
4.681	191783	175441	0.915	0.36	
4.735	236678	183708	0.776	0.44	
4.767	426907	405967	0.951	0.80	
4.813	1081648	1011933	0.936	2.04	6 Aroclor 1248
4.847	924413	880367	0.952	1.74	
4.880	2696945	1388035	0.515	5.09	6 Aroclor 1248
4.956	652196	579589	0.889	1.23	
5.037	1043272	950597	0.911	1.96	6 Aroclor 1248
5.100	1237782	1071245	0.865	2.33	
5.161	1565112	1330805	0.850	2.95	7 Aroclor 1254
5.212	1297992	1109185	0.855	2.45	
5.283	188632	176741	0.937	0.35	
5.307	397026	336379	0.847	0.74	
5.362	458039	398246	0.869	0.86	
5.406	1138829	1047957	0.920	2.14	7 Aroclor 1254
5.446	758386	633829	0.836	1.43	
5.479	212935	190104	0.893	0.40	
5.509	2044205	1782733	0.872	3.85	7 Aroclor 1254
5.577	116106	102322	0.881	0.21	
5.604	301263	259176	0.860	0.56	
5.674	645332	601612	0.932	1.21	
5.709	401032	317726	0.792	0.75	
5.742	447905	353490	0.789	0.84	
5.790	2258771	1726559	0.764	4.26	
5.885	312228	226970	0.727	0.58	
5.931	249938	199560	0.798	0.47	
5.992	479053	432335	0.902	0.90	
6.025	1167277	984419	0.843	2.20	7 Aroclor 1254
6.055	1298768	1088567	0.838	2.45	
6.169	271938	210122	0.773	0.51	
6.231	124634	140434	1.127	0.23	
6.242	231011	177198	0.767	0.43	
6.300	2100234	1638103	0.780	3.96	7 Aroclor 1254
6.333	223445	197098	0.882	0.42	
6.374	108012	81370	0.753	0.20	
6.431	304143	245156	0.806	0.57	
6.509	619455	542725	0.876	1.16	
6.535	356420	332187	0.932	0.67	
6.561	169055	151281	0.895	0.31	
6.603	72363	54240	0.750	0.13	
6.659	46232	36042	0.780	0.08	
6.716	209365	176180	0.841	0.39	
6.758	270590	234468	0.867	0.51	
6.800	285789	247380	0.866	0.53	
6.839	143372	99812	0.696	0.27	
6.910	28943	28104	0.971	0.05	
6.941	153566	136700	0.890	0.28	
7.005	445956	401347	0.900	0.84	8 Aroclor 1260
7.036	57206	48479	0.847	0.10	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.120	35032	21815	0.623	0.06	
7.251	255045	228844	0.897	0.48	8 Aroclor 1260
7.281	105643	83202	0.788	0.19	
7.340	16512	14048	0.851	0.03	
7.389	193973	164434	0.848	0.36	
7.443	199730	172538	0.864	0.37	8 Aroclor 1260
7.690	54163	48763	0.900	0.10	
7.725	52406	43111	0.823	0.09	
7.811	46638	31704	0.680	0.08	
7.900	127364	105765	0.830	0.24	8 Aroclor 1260
7.962	26135	15134	0.579	0.04	
8.049	71191	61447	0.863	0.13	
8.275	104726	97157	0.928	0.19	
8.570	3027388	2578351	0.852	5.71	$ 12 Decachlorobiphenyl
8.648	9908	7606	0.768	0.01	
8.726	10124	11362	1.122	0.01	
9.055	17100	9014	0.527	0.03	
9.169	23176	19477	0.840	0.04	
	52975826	45356718		100.000	

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041218.b\041218022.D
Lab Smp Id: 40157694012 Client Smp ID: ND3-170615-01-YP-04
Inj Date : 12-APR-2018 16:36
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157694012 x4,
Misc Info : 17661,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041218.b\pcba030618.m
Meth Date : 19-Apr-2018 09:02 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 22
Dil Factor: 4.00000
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	4.000	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	9.981	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			
1.804	1.804	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
2.411	2.407	0.004	180261	0.32904	660	0.00- 20.00	0.00	BA
2.684	2.688	-0.004	16880	0.01220	24	0.00- 20.00	0.00	BA
2.785	2.789	-0.004	24136	0.02183	44	0.00- 20.00	0.00	BA
2.852	2.851	0.001	67085	0.02061	41	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					190			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	3153475	0.02558	51		(M)	BA
3 Aroclor 1242					CAS #: 53469-21-9			

Operator disabled compound identification.

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			
4.259	4.261	-0.002	1995663	0.85176	1700	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1671155	0.40266	810	0.00- 20.00	83.74	BA
4.813	4.812	0.001	1081647	0.53281	1100	0.00- 20.00	54.20	BA
4.879	4.879	0.000	2696945	0.53538	1100	0.00- 20.00	135.14	BA
5.037	5.038	-0.001	1043272	0.29072	580	0.00- 20.00	52.28	BA
		Average of Peak Concentrations =			1000			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	1565112	0.29896	600	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	1138828	0.26478	530	0.00- 20.00	72.76	BA
5.509	5.510	-0.001	2044205	0.26322	530	0.00- 20.00	130.61	BA
6.025	6.027	-0.002	1167277	0.23970	480	0.00- 20.00	74.58	BA
6.300	6.299	0.001	2100234	0.32276	650	0.00- 20.00	134.19	BA
		Average of Peak Concentrations =			560			
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
7.005	7.006	-0.001	445956	0.04453	89	0.00- 20.00	21.23	BA
7.250	7.251	-0.001	255044	0.05336	110	0.00- 20.00	12.14	BA
7.442	7.443	-0.001	199730	0.06852	140	0.00- 20.00	9.51	BA
7.900	7.901	-0.001	127364	0.04827	97	0.00- 20.00	6.06	BA
		Average of Peak Concentrations =			110			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	3027388	0.02763	55			

QC Flag Legend

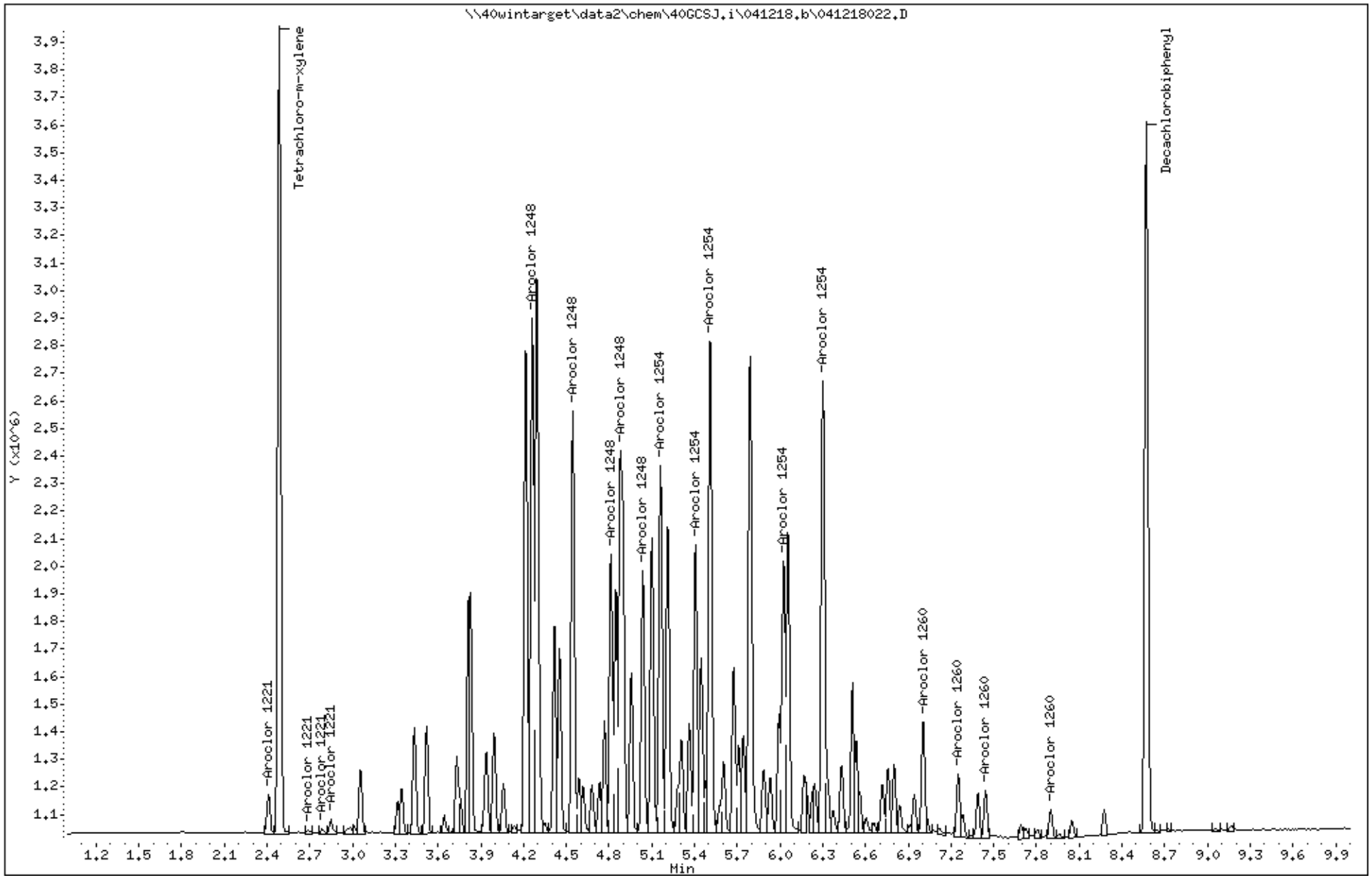
M - Compound response manually integrated.

Review Codes Legend

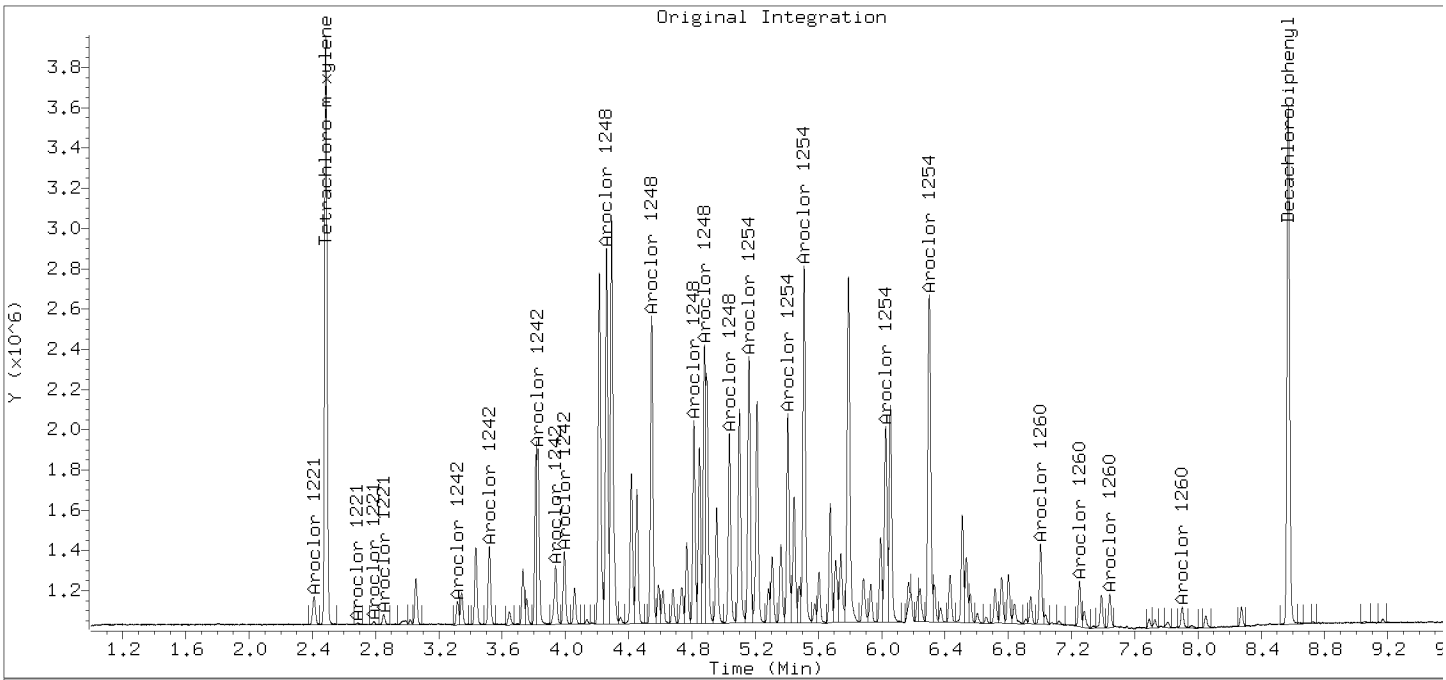
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:

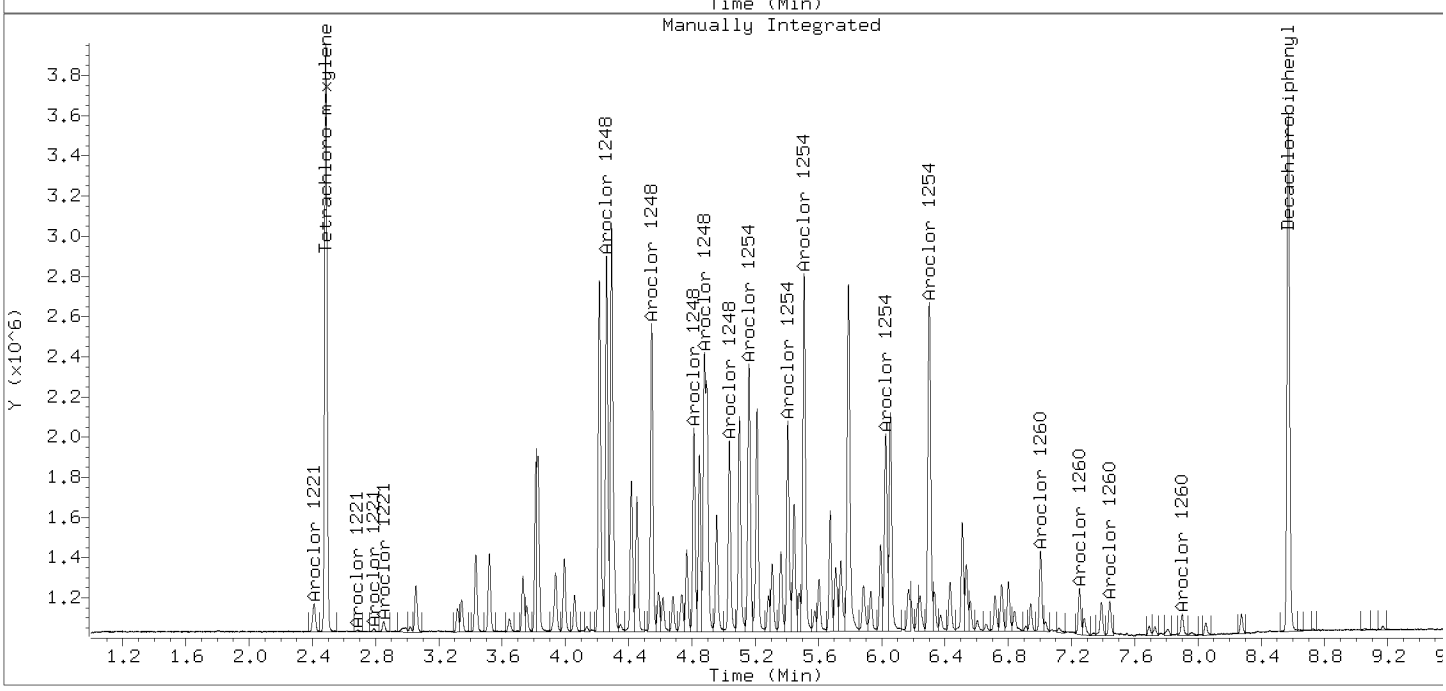
Data File: \\40wintarget\data2\chem\40GCSJ.i\041218.b\041218022.D
Date : 12-APR-2018 16:36
Client ID: ND3-170615-01-YP-04
Sample Info: 40157694012 x4,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\041218.b/041218022.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 12-APR-2018 16:36 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157694012





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	122049	0	
Aroclor 1016	122049	0	
Aroclor 1016	122049	0	
Aroclor 1016	122049	0	
Aroclor 1016	122049	0	
Aroclor 1221	0	0	BA
Aroclor 1221	0	0	BA
Aroclor 1221	0	0	BA
Aroclor 1221	0	0	BA
Aroclor 1221	0	0	BA
Aroclor 1232	65630	0	
Aroclor 1232	65630	0	
Aroclor 1232	65630	0	
Aroclor 1232	65630	0	

Aroclor 1232	65630	0	
Aroclor 1242	122049	0	
Aroclor 1242	122049	0	
Aroclor 1242	122049	0	
Aroclor 1242	122049	0	
Aroclor 1242	122049	0	
Aroclor 1248	1985909	1995663	BA
Aroclor 1248	1985909	1995663	BA
Aroclor 1248	1985909	1995663	BA
Aroclor 1248	1985909	1995663	BA
Aroclor 1248	1985909	1995663	BA
Aroclor 1254	1542651	1565112	BA
Aroclor 1254	1542651	1565112	BA
Aroclor 1254	1542651	1565112	BA
Aroclor 1254	1542651	1565112	BA
Aroclor 1254	1542651	1565112	BA
Aroclor 1260	2060453	0	BA
Aroclor 1260	2060453	0	BA
Aroclor 1260	2060453	0	BA
Aroclor 1260	2060453	0	BA
Aroclor 1260	2060453	0	BA
Tetrachloro-m-xylene	3150120	3153475	BA
Decachlorobiphenyl	3027388	3027388	

==========

SAMPLE NO.

ND3-170615-01-YP-03

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: 09/29/2017 10:00

Matrix: Tissue SDG No.: 40157694

Date Extracted: 04/11/2018 06:59

Lab Sample ID: 40157694013

Date Analyzed: 04/12/2018 16:52

Lab File ID: 041218.B\041218023.D

Initial wt/vol: 10.0197 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)	<34.1	U
11104-28-2	PCB-1221 (Aroclor 1221)	132	J
11141-16-5	PCB-1232 (Aroclor 1232)	<34.1	U
53469-21-9	PCB-1242 (Aroclor 1242)	<34.1	U
12672-29-6	PCB-1248 (Aroclor 1248)	595	
11097-69-1	PCB-1254 (Aroclor 1254)	309	
11096-82-5	PCB-1260 (Aroclor 1260)	79.5	J
1336-36-3	PCB, Total	1120	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041218.b\041218023.D
Lab Smp Id: 40157694013 Client Smp ID: ND3-170615-01-YP-03
Inj Date : 12-APR-2018 16:52
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157694013 x3,
Misc Info : 17661,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041218.b\pcba030618.m
Meth Date : 19-Apr-2018 09:02 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 23
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	10.020	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.411	159864	123071	0.770	0.36	1 Aroclor 1221	BA
2.485	3780301	3538731	0.936	9.17	$ 2 Tetrachloro-m-xylene	BA
2.682	18392	12313	0.669	0.04	1 Aroclor 1221	BA
2.790	26084	19128	0.733	0.05	1 Aroclor 1221	BA
2.850	77432	63193	0.816	0.17	1 Aroclor 1221	BA
2.976	20044	18219	0.909	0.04		
2.988	22827	20042	0.878	0.05		
3.020	22773	22678	0.996	0.05		
3.055	219610	201849	0.919	0.50		
3.318	113822	108217	0.951	0.26		
3.344	185324	174932	0.944	0.42		
3.433	371239	342082	0.921	0.85		
3.519	329927	292647	0.887	0.75		
3.647	69018	53899	0.781	0.15		
3.731	241201	228506	0.947	0.55		
3.755	95276	98191	1.031	0.21		
3.813	563367	629683	1.118	1.29		
3.826	593179	594573	1.002	1.36		
3.938	334013	263767	0.790	0.76		
3.993	284110	265180	0.933	0.65		
4.059	150078	133052	0.887	0.34		
4.136	27580	25334	0.919	0.06		
4.214	1579583	1406544	0.890	3.62		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.261	1572372	1464698	0.932	3.60	6 Aroclor 1248
4.292	1894169	1544299	0.815	4.34	
4.347	44336	31056	0.700	0.10	
4.417	600491	560142	0.933	1.37	
4.452	553044	497341	0.899	1.26	
4.546	1329682	1223568	0.920	3.05	6 Aroclor 1248
4.589	168527	154587	0.917	0.38	
4.616	141425	121550	0.859	0.32	
4.679	154900	135024	0.872	0.35	
4.736	181720	139636	0.768	0.41	
4.767	333426	313253	0.939	0.76	
4.812	784790	744783	0.949	1.80	6 Aroclor 1248
4.847	639201	606494	0.949	1.46	
4.879	2024597	1020655	0.504	4.64	6 Aroclor 1248
4.956	499285	433225	0.868	1.14	
5.037	743833	669570	0.900	1.70	6 Aroclor 1248
5.100	953039	806980	0.847	2.18	
5.161	1190709	1025542	0.861	2.73	7 Aroclor 1254
5.212	958766	839886	0.876	2.20	
5.283	142742	136523	0.956	0.32	
5.308	309915	257375	0.830	0.71	
5.363	344952	305957	0.887	0.79	
5.406	854916	744592	0.871	1.96	7 Aroclor 1254
5.447	529097	434332	0.821	1.21	
5.478	163141	141997	0.870	0.37	
5.510	1512687	1311581	0.867	3.47	7 Aroclor 1254
5.578	88293	76348	0.865	0.20	
5.604	223752	190192	0.850	0.51	
5.675	496638	465869	0.938	1.13	
5.710	297404	239260	0.804	0.68	
5.743	332182	255725	0.770	0.76	
5.791	1703542	1258453	0.739	3.90	
5.885	232268	175176	0.754	0.53	
5.932	201190	153617	0.764	0.46	
5.993	374683	345011	0.921	0.85	
6.025	827111	704484	0.852	1.89	7 Aroclor 1254
6.056	1026327	873429	0.851	2.35	
6.169	292624	165406	0.565	0.67	
6.227	78288	103779	1.326	0.17	
6.242	194194	130651	0.673	0.44	
6.301	1578938	1268574	0.803	3.62	7 Aroclor 1254
6.331	159033	146639	0.922	0.36	
6.374	86299	63387	0.735	0.19	
6.431	246455	201727	0.819	0.56	
6.510	501562	452953	0.903	1.15	
6.536	265807	235212	0.885	0.61	
6.560	134425	121761	0.906	0.30	
6.605	54719	40779	0.745	0.12	
6.660	38332	31377	0.819	0.08	
6.718	164929	137493	0.834	0.37	
6.759	217822	189985	0.872	0.49	
6.801	217122	187916	0.865	0.49	
6.839	118340	85210	0.720	0.27	
6.912	25915	24662	0.952	0.05	
6.944	107045	95047	0.888	0.24	
7.005	392653	350698	0.893	0.90	8 Aroclor 1260
7.034	36513	42012	1.151	0.08	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.120	38459	21074	0.548	0.08	
7.251	223469	192960	0.863	0.51	8 Aroclor 1260
7.281	94293	71793	0.761	0.21	
7.341	16238	14182	0.873	0.03	
7.390	176941	157439	0.890	0.40	
7.442	205906	168815	0.820	0.47	8 Aroclor 1260
7.622	22070	10115	0.458	0.05	
7.691	51960	46437	0.894	0.11	
7.728	57882	46409	0.802	0.13	
7.803	41743	25608	0.613	0.09	
7.900	147576	118968	0.806	0.33	8 Aroclor 1260
7.957	19246	15542	0.808	0.04	
8.050	28168	23213	0.824	0.06	
8.275	125041	114850	0.918	0.28	
8.384	10498	8191	0.780	0.02	
8.570	3655043	3174473	0.869	8.38	$ 12 Decachlorobiphenyl
9.172	23694	19086	0.806	0.05	
9.962	11248	9080	0.807	0.02	
	43574684	37351544		100.000	

Total unknown % area = 51

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041218.b\041218023.D
Lab Smp Id: 40157694013 Client Smp ID: ND3-170615-01-YP-03
Inj Date : 12-APR-2018 16:52
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157694013 x3,
Misc Info : 17661,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041218.b\pcba030618.m
Meth Date : 19-Apr-2018 09:02 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 23
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	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			
1.804	1.804	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
2.410	2.407	0.003	159863	0.29180	440	0.00- 20.00	0.00	BA
2.682	2.688	-0.006	18391	0.01329	20	0.00- 20.00	0.00	BA
2.789	2.789	0.000	26084	0.02359	35	0.00- 20.00	0.00	BA
2.849	2.851	-0.002	77432	0.02379	36	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					130			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	3780300	0.03066	46		(M)	BA
3 Aroclor 1242					CAS #: 53469-21-9			

Operator disabled compound identification.

```
                                        CONCENTRATIONS
                                        ON-COL    FINAL
  RT   EXP RT   DLT RT         RESPONSE (ug/ml)  (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
4.261    4.261    0.000         1572371 0.67110     1000   0.00-  20.00   100.00(M)      BA
4.545    4.546   -0.001         1329682 0.32038      480   0.00-  20.00    84.57         BA
4.812    4.812    0.000          784789 0.38658      580   0.00-  20.00    49.91         BA
4.878    4.879   -0.001         2024596 0.40191      600   0.00-  20.00   128.76         BA
5.037    5.038   -0.001          743832 0.20728      310   0.00-  20.00    47.31         BA
               Average of Peak Concentrations =      600
-------------------------------------------------------------------------------
    7 Aroclor 1254                                CAS #: 11097-69-1
5.160    5.162   -0.002         1190708 0.22744      340   0.00-  20.00   100.00(M)      BA
5.405    5.408   -0.003          854916 0.19877      300   0.00-  20.00    71.80         BA
5.509    5.510   -0.001         1512686 0.19478      290   0.00-  20.00   127.04         BA
6.024    6.027   -0.003          827111 0.16985      250   0.00-  20.00    69.46         BA
6.300    6.299    0.001         1578937 0.24265      360   0.00-  20.00   132.60         BA
               Average of Peak Concentrations =      310
-------------------------------------------------------------------------------
    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          392652 0.03921       59   0.00-  20.00    27.15         CO
7.250    7.251   -0.001          223469 0.04675       70   0.00-  20.00    14.15         CO
7.441    7.443   -0.002          205905 0.07063      100   0.00-  20.00    13.04         CO
7.899    7.901   -0.002          147575 0.05593       84   0.00-  20.00     9.35         CO
               Average of Peak Concentrations =       80
-------------------------------------------------------------------------------
$  12 Decachlorobiphenyl                          CAS #: 2051-24-3
8.569    8.571   -0.002         3655043 0.03336       50
-------------------------------------------------------------------------------
```

QC Flag Legend

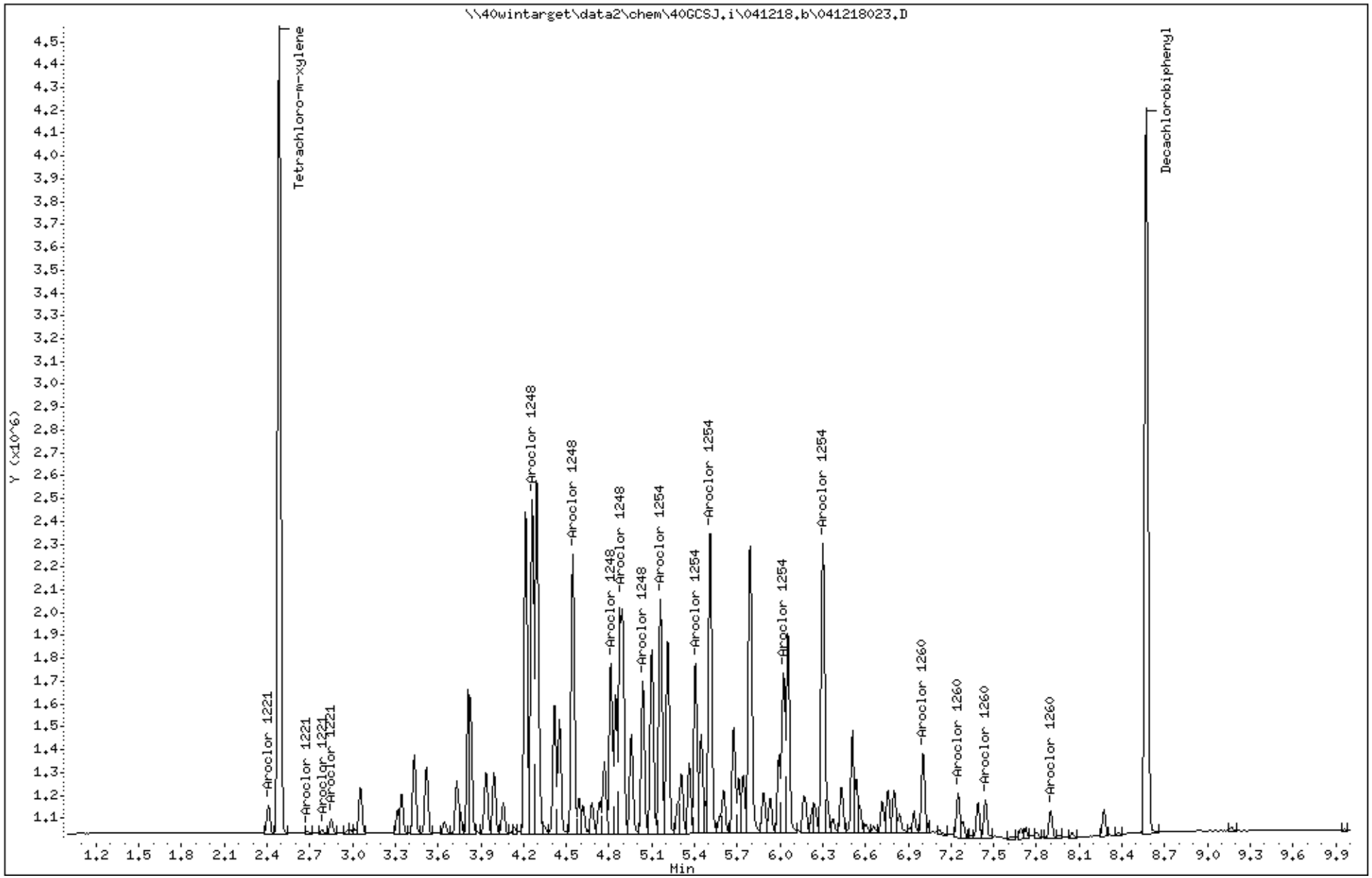
M - Compound response manually integrated.

Review Codes Legend

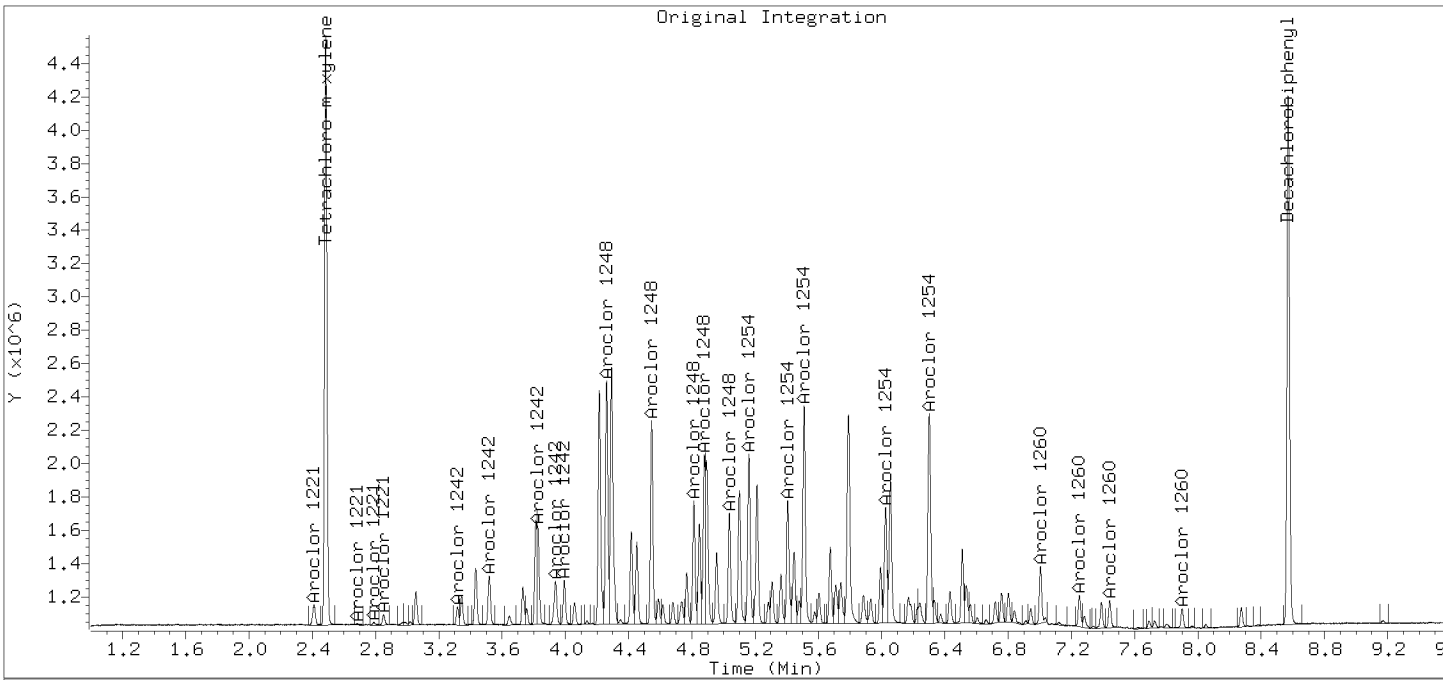
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

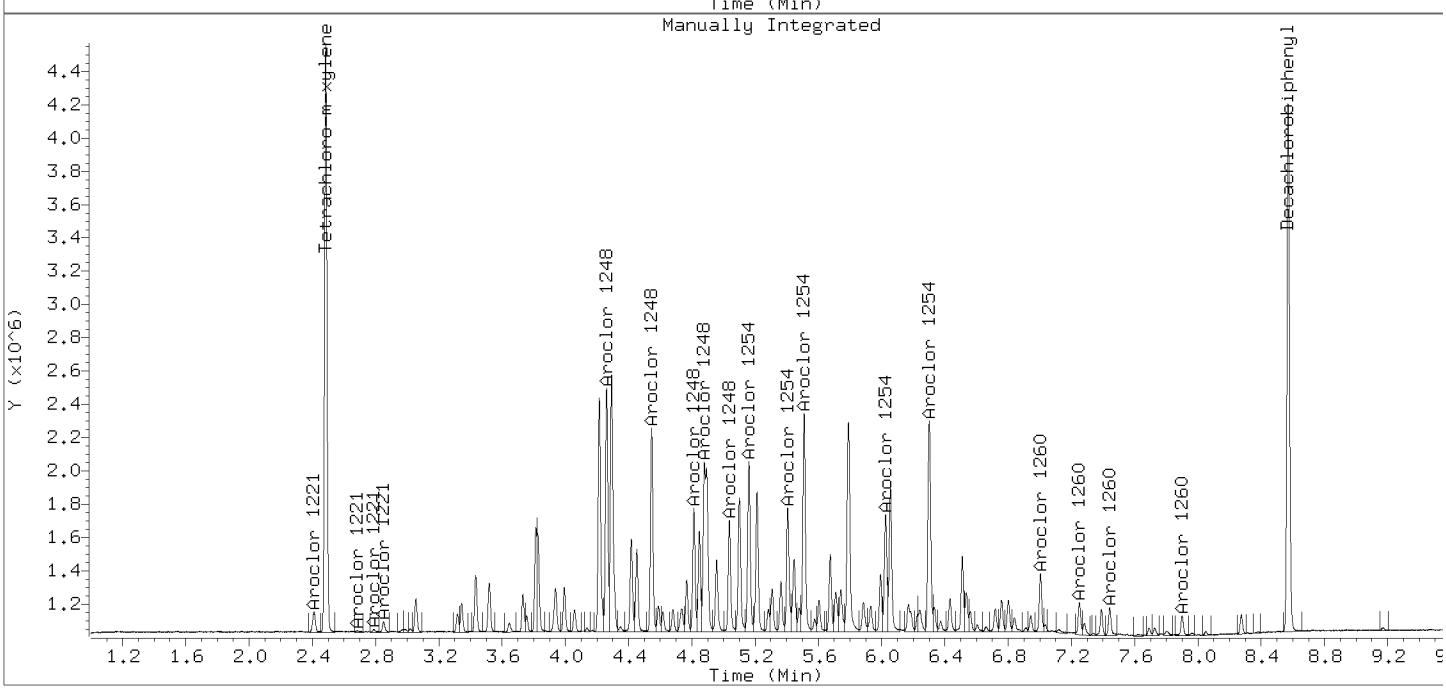
Data File: \\40wintarget\data2\chem\40GCSJ.i\041218.b\041218023.D
Date : 12-APR-2018 16:52
Client ID: ND3-170615-01-YP-03
Sample Info: 40157694013 x3,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\041218.b/041218023.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 12-APR-2018 16:52 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157694013





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	113062	0	
Aroclor 1016	113062	0	
Aroclor 1016	113062	0	
Aroclor 1016	113062	0	
Aroclor 1016	113062	0	
Aroclor 1221	0	0	BA
Aroclor 1221	0	0	BA
Aroclor 1221	0	0	BA
Aroclor 1221	0	0	BA
Aroclor 1221	0	0	BA
Aroclor 1232	71685	0	
Aroclor 1232	71685	0	
Aroclor 1232	71685	0	
Aroclor 1232	71685	0	

Aroclor 1232	71685	0	
Aroclor 1242	113062	0	
Aroclor 1242	113062	0	
Aroclor 1242	113062	0	
Aroclor 1242	113062	0	
Aroclor 1242	113062	0	
Aroclor 1248	1561929	1572371	BA
Aroclor 1248	1561929	1572371	BA
Aroclor 1248	1561929	1572371	BA
Aroclor 1248	1561929	1572371	BA
Aroclor 1248	1561929	1572371	BA
Aroclor 1254	1169161	1190708	BA
Aroclor 1254	1169161	1190708	BA
Aroclor 1254	1169161	1190708	BA
Aroclor 1254	1169161	1190708	BA
Aroclor 1254	1169161	1190708	BA
Aroclor 1260	1552691	0	CO
Aroclor 1260	1552691	0	CO
Aroclor 1260	1552691	0	CO
Aroclor 1260	1552691	0	CO
Aroclor 1260	1552691	0	CO
Tetrachloro-m-xylene	3771568	3780300	BA
Decachlorobiphenyl	3655043	3655043	

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SAMPLE NO.

ND3-170615-01-YP-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: 09/29/2017 10:00
Matrix: Tissue SDG No.: 40157694
Date Extracted: 04/11/2018 06:59
Lab Sample ID: 40157694014
Date Analyzed: 04/12/2018 17:39
Lab File ID: 041218.B\041218026.D
Initial wt/vol: 9.9893 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)	130	J
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)	745	
11097-69-1	PCB-1254 (Aroclor 1254)	393	
11096-82-5	PCB-1260 (Aroclor 1260)	71.2	J
1336-36-3	PCB, Total	1340	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041218.b\041218026.D
Lab Smp Id: 40157694014 Client Smp ID: ND3-170615-01-YP-02
Inj Date : 12-APR-2018 17:39
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157694014 x3,
Misc Info : 17661,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041218.b\pcba030618.m
Meth Date : 19-Apr-2018 09:02 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 26
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	9.989	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.538	9569	7147	0.747	0.01		
2.411	161106	125496	0.779	0.31	1 Aroclor 1221	BA
2.485	3681870	3476655	0.944	7.70	$ 2 Tetrachloro-m-xylene	BA
2.685	20507	12194	0.595	0.04	1 Aroclor 1221	BA
2.787	23527	18539	0.788	0.04	1 Aroclor 1221	BA
2.850	49311	35432	0.719	0.09	1 Aroclor 1221	BA
2.973	47232	21565	0.457	0.09		
3.018	26901	24014	0.893	0.05		
3.055	266998	247706	0.928	0.52		
3.317	88490	81941	0.926	0.17		
3.344	117388	106012	0.903	0.23		
3.433	344417	321074	0.932	0.67		
3.519	467639	448341	0.959	0.91		
3.647	74303	63228	0.851	0.14		
3.732	271117	263223	0.971	0.53		
3.756	122434	119579	0.977	0.23		
3.813	621158	756121	1.217	1.21		
3.825	868846	806796	0.929	1.70		
3.938	307307	253929	0.826	0.60		
3.993	377942	350570	0.928	0.74		
4.059	180844	164638	0.910	0.35		
4.134	24337	19078	0.784	0.04		
4.215	1973667	1762249	0.893	3.86		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.261	1930056	1820788	0.943	3.78	6 Aroclor 1248
4.292	2312523	1927409	0.833	4.53	
4.347	45470	33457	0.736	0.08	
4.417	772137	721376	0.934	1.51	
4.452	711870	648824	0.911	1.39	
4.545	1558687	1421932	0.912	3.05	6 Aroclor 1248
4.588	205659	188187	0.915	0.40	
4.617	181611	155513	0.856	0.35	
4.679	182448	160113	0.878	0.35	
4.735	213091	163153	0.766	0.41	
4.768	402909	377355	0.937	0.78	
4.813	1018290	956248	0.939	1.99	6 Aroclor 1248
4.848	831455	786671	0.946	1.62	
4.879	2582705	1292171	0.500	5.06	6 Aroclor 1248
4.955	612858	539859	0.881	1.20	
5.037	956566	879061	0.919	1.87	6 Aroclor 1248
5.100	1195285	1066795	0.893	2.34	
5.161	1489388	1261957	0.847	2.91	7 Aroclor 1254
5.212	1201064	1043691	0.869	2.35	
5.284	166568	167352	1.005	0.32	
5.307	369057	297084	0.805	0.72	
5.362	432482	393501	0.910	0.84	
5.406	1073929	955274	0.890	2.10	7 Aroclor 1254
5.446	707130	596029	0.843	1.38	
5.478	204291	184472	0.903	0.40	
5.509	1978681	1747988	0.883	3.87	7 Aroclor 1254
5.576	101453	89159	0.879	0.19	
5.604	287941	245767	0.854	0.56	
5.675	592741	549813	0.928	1.16	
5.709	392820	305805	0.778	0.76	
5.741	410587	319464	0.778	0.80	
5.790	2103455	1607536	0.764	4.12	
5.884	287178	213732	0.744	0.56	
5.931	235951	181996	0.771	0.46	
5.993	431796	389317	0.902	0.84	
6.025	1098007	979936	0.892	2.15	7 Aroclor 1254
6.054	1128089	944126	0.837	2.21	
6.168	343538	186204	0.542	0.67	
6.228	258984	161767	0.625	0.50	
6.301	1921344	1564162	0.814	3.76	7 Aroclor 1254
6.331	200899	186335	0.928	0.39	
6.373	92561	73807	0.797	0.18	
6.431	291735	238636	0.818	0.57	
6.509	557089	506513	0.909	1.09	
6.535	325367	290484	0.893	0.63	
6.559	147307	134615	0.914	0.28	
6.605	54723	43619	0.797	0.10	
6.660	39193	33411	0.852	0.07	
6.716	190946	163843	0.858	0.37	
6.758	253118	228690	0.903	0.49	
6.801	256269	220384	0.860	0.50	
6.838	127149	92022	0.724	0.24	
6.913	25128	25248	1.005	0.04	
6.942	121438	110911	0.913	0.23	
7.004	386068	342007	0.886	0.75	8 Aroclor 1260
7.035	37243	44979	1.208	0.07	
7.076	16181	12257	0.757	0.03	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.122	38106	22047	0.579	0.07	
7.250	228881	200473	0.876	0.44	8 Aroclor 1260
7.281	97634	75735	0.776	0.19	
7.337	15982	12756	0.798	0.03	
7.388	185770	156439	0.842	0.36	
7.442	184543	156022	0.845	0.36	8 Aroclor 1260
7.547	13153	12097	0.920	0.02	
7.690	50932	46968	0.922	0.09	
7.725	53056	45015	0.848	0.10	
7.798	34427	24671	0.717	0.06	
7.900	105246	86460	0.822	0.20	8 Aroclor 1260
7.962	25606	13332	0.521	0.05	
8.047	35540	26738	0.752	0.06	
8.274	100324	91102	0.908	0.19	
8.571	3638932	3123655	0.858	7.13	$ 12 Decachlorobiphenyl
8.940	11103	7622	0.686	0.02	
9.168	19450	17137	0.881	0.03	
	51018104	43876601		100.000	

Total unknown % area = 52

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041218.b\041218026.D
Lab Smp Id: 40157694014 Client Smp ID: ND3-170615-01-YP-02
Inj Date : 12-APR-2018 17:39
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157694014 x3,
Misc Info : 17661,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041218.b\pcba030618.m
Meth Date : 19-Apr-2018 09:02 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 26
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	9.989	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			
1.804	1.804	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
2.410	2.407	0.003	161106	0.29407	440	0.00- 20.00	0.00	BA
2.684	2.688	-0.004	20507	0.01482	22	0.00- 20.00	0.00	BA
2.786	2.789	-0.003	23526	0.02128	32	0.00- 20.00	0.00	BA
2.850	2.851	-0.001	49311	0.01515	23	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					130			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	3681870	0.02986	45		(M)	BA
3 Aroclor 1242					CAS #: 53469-21-9			

Operator disabled compound identification.

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			
4.261	4.261	0.000	1930055	0.82376	1200	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1558687	0.37556	560	0.00- 20.00	80.76	BA
4.812	4.812	0.000	1018290	0.50160	750	0.00- 20.00	52.76	BA
4.879	4.879	0.000	2582705	0.51270	770	0.00- 20.00	133.82	BA
5.036	5.038	-0.002	956566	0.26656	400	0.00- 20.00	49.56	BA
Average of Peak Concentrations =					740			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	1489387	0.28449	430	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	1073928	0.24969	370	0.00- 20.00	72.11	BA
5.508	5.510	-0.002	1978680	0.25479	380	0.00- 20.00	132.85	BA
6.025	6.027	-0.002	1098007	0.22548	340	0.00- 20.00	73.72	BA
6.300	6.299	0.001	1921344	0.29527	440	0.00- 20.00	129.00	BA
Average of Peak Concentrations =					390			
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	386067	0.03855	58	0.00- 20.00	22.00	CO
7.250	7.251	-0.001	228880	0.04788	72	0.00- 20.00	11.91	CO
7.442	7.443	-0.001	184542	0.06331	95	0.00- 20.00	9.60	CO
7.900	7.901	-0.001	105246	0.03989	60	0.00- 20.00	5.48	CO
Average of Peak Concentrations =					71			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	3638932	0.03321	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\041218.b\041218026.D

Date : 12-APR-2018 17:39

Client ID: ND3-170615-01-YP-02

Instrument: 40GCSJ.i

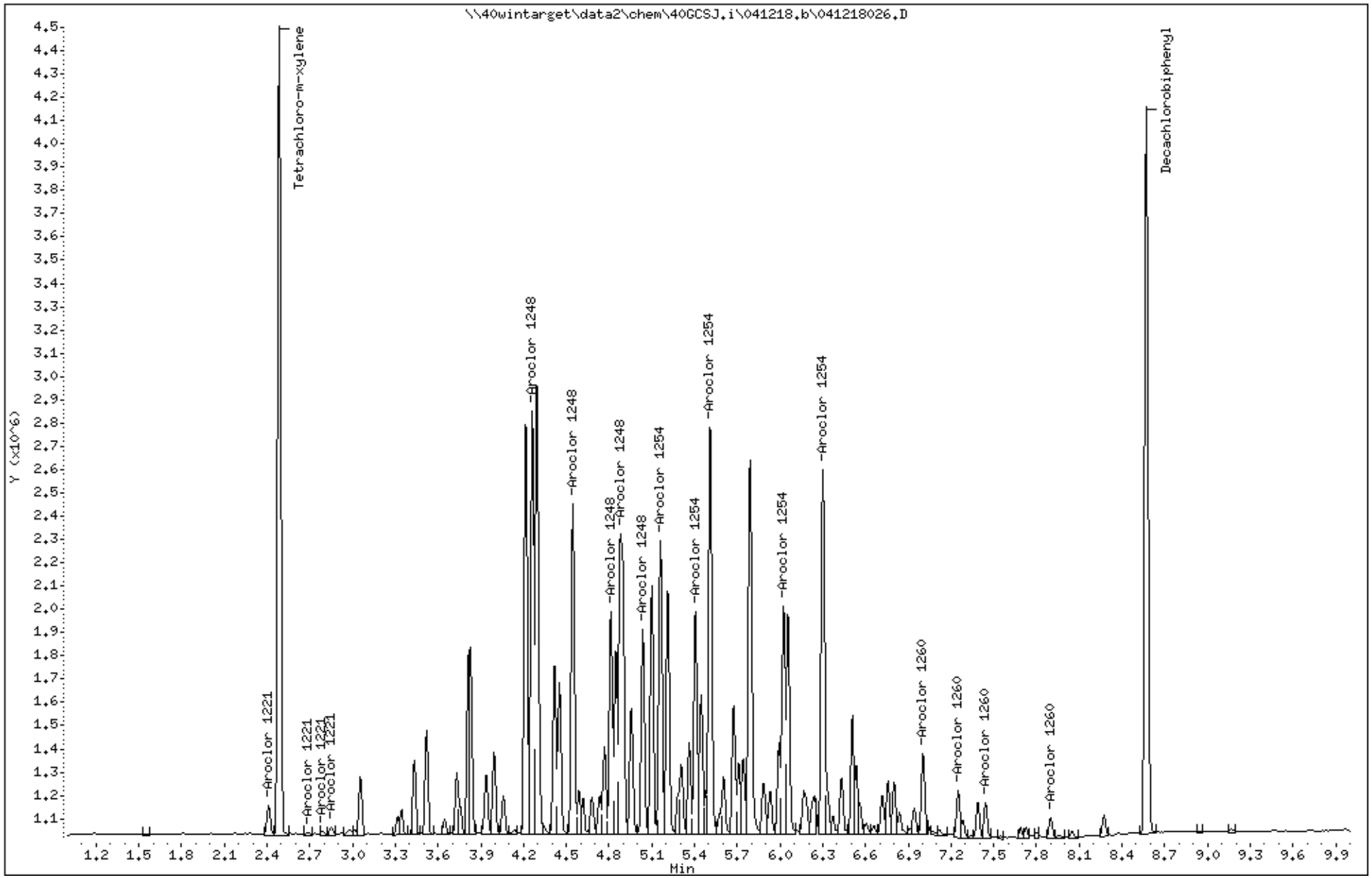
Sample Info: 40157694014 x3,

Volume Injected (uL): 1.0

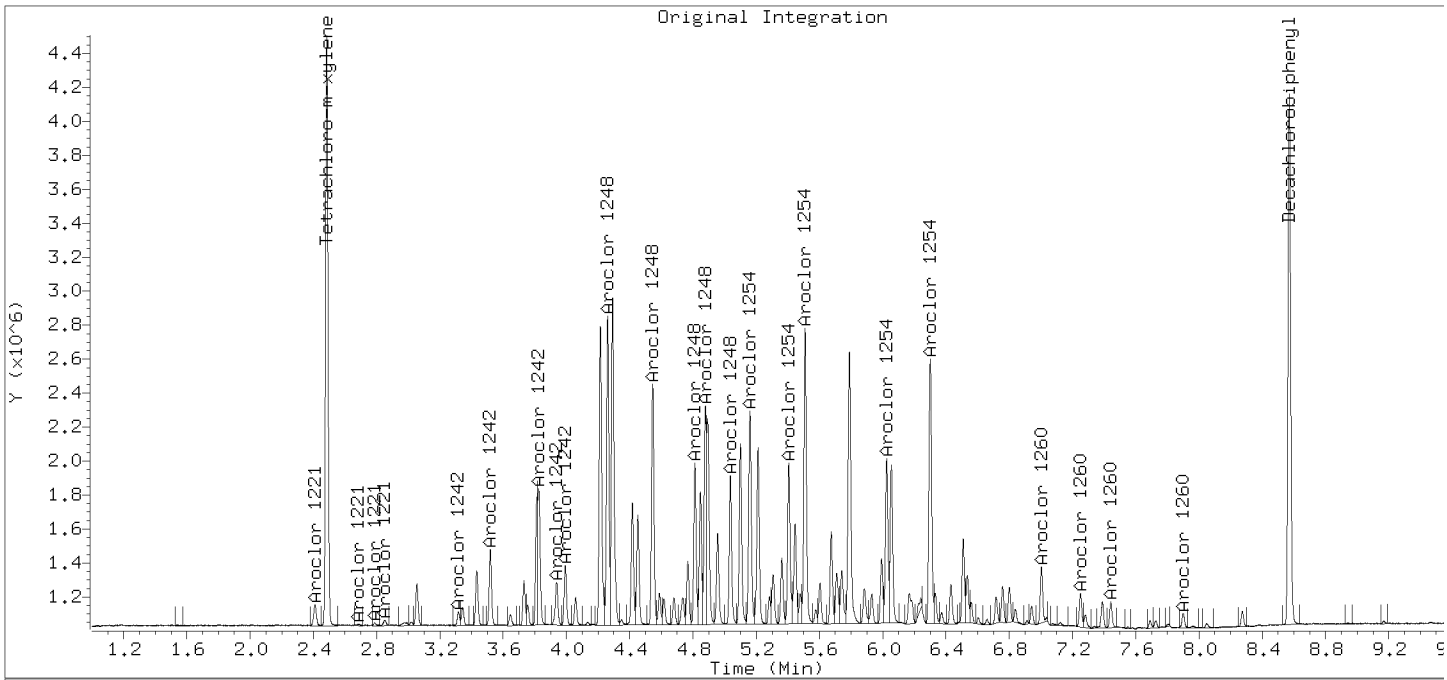
Operator: BLM

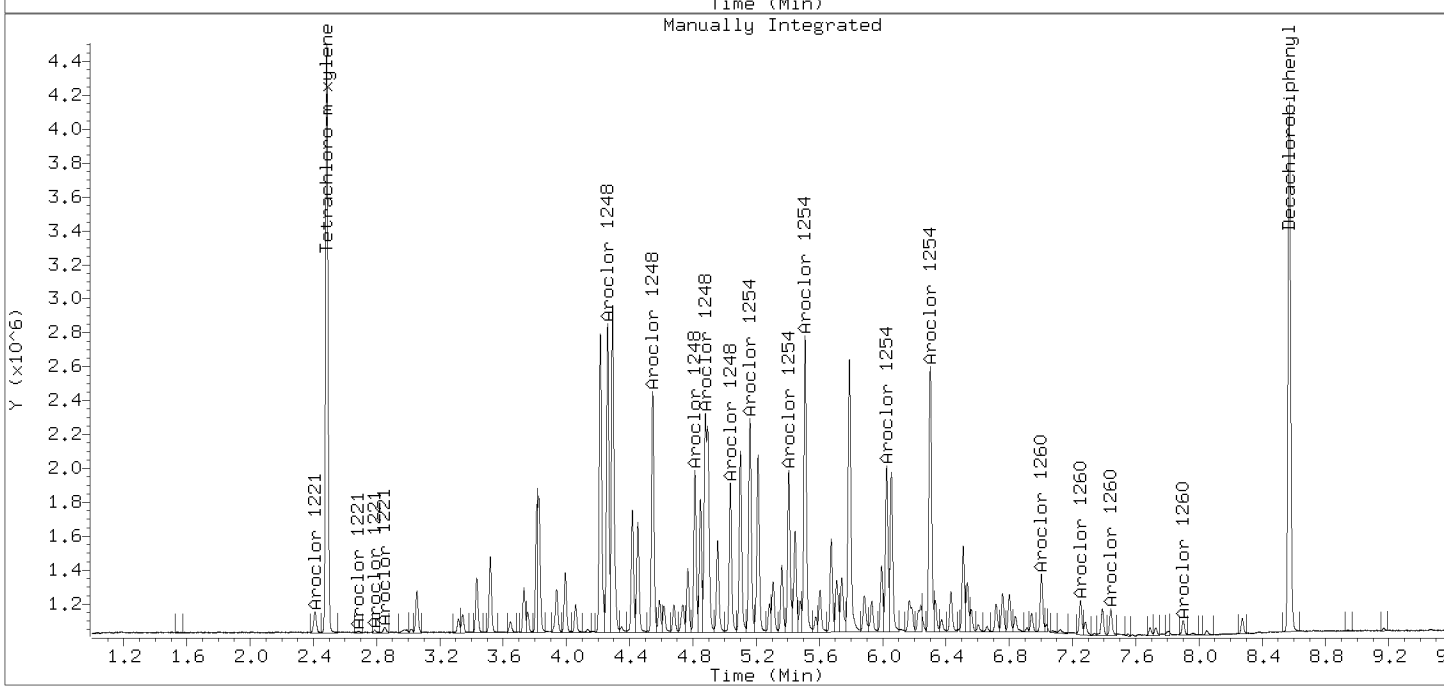
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041218.b/041218026.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 12-APR-2018 17:39 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157694014





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	89717	0	
Aroclor 1016	89717	0	
Aroclor 1016	89717	0	
Aroclor 1016	89717	0	
Aroclor 1016	89717	0	
Aroclor 1221	0	0	BA
Aroclor 1221	0	0	BA
Aroclor 1221	0	0	BA
Aroclor 1221	0	0	BA
Aroclor 1221	0	0	BA
Aroclor 1232	44303	0	
Aroclor 1232	44303	0	
Aroclor 1232	44303	0	
Aroclor 1232	44303	0	

Aroclor 1232	44303	0	
Aroclor 1242	89717	0	
Aroclor 1242	89717	0	
Aroclor 1242	89717	0	
Aroclor 1242	89717	0	
Aroclor 1242	89717	0	
Aroclor 1248	1923953	1930055	BA
Aroclor 1248	1923953	1930055	BA
Aroclor 1248	1923953	1930055	BA
Aroclor 1248	1923953	1930055	BA
Aroclor 1248	1923953	1930055	BA
Aroclor 1254	1469197	1489387	BA
Aroclor 1254	1469197	1489387	BA
Aroclor 1254	1469197	1489387	BA
Aroclor 1254	1469197	1489387	BA
Aroclor 1254	1469197	1489387	BA
Aroclor 1260	1891030	0	CO
Aroclor 1260	1891030	0	CO
Aroclor 1260	1891030	0	CO
Aroclor 1260	1891030	0	CO
Aroclor 1260	1891030	0	CO
Tetrachloro-m-xylene	3672880	3681870	BA
Decachlorobiphenyl	3638932	3638932	

==========

SAMPLE NO.

ND3-170615-01-YP-01

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: 09/29/2017 10:00
Matrix: Tissue SDG No.: 40157694
Date Extracted: 04/11/2018 06:59
Lab Sample ID: 40157694015
Date Analyzed: 04/12/2018 17:55
Lab File ID: 041218.B\041218027.D
Initial wt/vol: 9.9659 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)	306	
11097-69-1	PCB-1254 (Aroclor 1254)	219	
11096-82-5	PCB-1260 (Aroclor 1260)	53.0	J
1336-36-3	PCB, Total	578	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041218.b\041218027.D
Lab Smp Id: 40157694015 Client Smp ID: ND3-170615-01-YP-01
Inj Date : 12-APR-2018 17:55
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157694015 x2,
Misc Info : 17661,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041218.b\pcba030618.m
Meth Date : 19-Apr-2018 09:02 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 27
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	9.966	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.409	101131	78521	0.776	0.23		
2.484	5329972	5118168	0.960	12.71	$ 2 Tetrachloro-m-xylene	
2.788	17535	15526	0.885	0.04		
2.850	30150	21513	0.714	0.06		
3.017	15712	18970	1.207	0.03		
3.053	133485	125616	0.941	0.30		
3.317	38498	37515	0.974	0.08		
3.344	54174	49996	0.923	0.12		
3.433	147025	135165	0.919	0.33		
3.519	240056	231813	0.966	0.55		
3.646	43371	36576	0.843	0.09		
3.732	131481	132028	1.004	0.30		
3.756	59327	60261	1.016	0.13		
3.813	345429	380601	1.102	0.79		
3.825	386479	382430	0.990	0.88		
3.940	131858	105991	0.804	0.30		
3.993	200688	185467	0.924	0.46		
4.058	91020	83890	0.922	0.20		
4.214	1183678	1074411	0.908	2.71		
4.260	1183182	1122812	0.949	2.71	6 Aroclor 1248	BA
4.292	1562302	1316519	0.843	3.58		
4.350	27658	20764	0.751	0.06		
4.417	433392	404469	0.933	0.99		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.452	407909	362466	0.889	0.93	
4.545	917948	860867	0.938	2.10	6 Aroclor 1248
4.589	143776	132915	0.924	0.33	
4.616	105777	89085	0.842	0.24	
4.680	136011	116308	0.855	0.31	
4.736	161067	135848	0.843	0.36	
4.768	292280	270100	0.924	0.67	
4.812	616618	588228	0.954	1.41	6 Aroclor 1248
4.848	439918	423185	0.962	1.00	
4.878	1715328	852508	0.497	3.93	6 Aroclor 1248
4.957	466101	405816	0.871	1.06	
5.038	556881	492598	0.885	1.27	6 Aroclor 1248
5.101	896976	798541	0.890	2.05	
5.160	1249152	1079010	0.864	2.86	7 Aroclor 1254
5.212	975101	859861	0.882	2.23	
5.283	152769	141135	0.924	0.35	
5.307	293945	242295	0.824	0.67	
5.363	317635	290347	0.914	0.72	
5.406	834388	748443	0.897	1.91	7 Aroclor 1254
5.446	578227	484586	0.838	1.32	
5.480	165105	148726	0.901	0.37	
5.510	1520663	1345409	0.885	3.49	7 Aroclor 1254
5.577	105143	90682	0.862	0.24	
5.603	209247	176579	0.844	0.48	
5.675	565657	522077	0.923	1.29	
5.710	331803	269321	0.812	0.76	
5.743	372200	291669	0.784	0.85	
5.790	1889708	1407366	0.745	4.33	
5.885	245692	179785	0.732	0.56	
5.932	212307	174650	0.823	0.48	
5.992	446555	407280	0.912	1.02	
6.024	908080	791868	0.872	2.08	7 Aroclor 1254
6.055	1207391	1017479	0.843	2.77	
6.169	348885	188432	0.540	0.80	
6.227	245275	151435	0.617	0.56	
6.301	1795276	1471776	0.820	4.12	7 Aroclor 1254
6.332	187798	170315	0.907	0.43	
6.374	90866	70011	0.770	0.20	
6.431	292330	232655	0.796	0.67	
6.486	22950	23555	1.026	0.05	
6.509	598811	555275	0.927	1.37	
6.535	288052	264981	0.920	0.66	
6.560	156622	139230	0.889	0.35	
6.604	61562	45998	0.747	0.14	
6.662	50125	35811	0.714	0.11	
6.717	201403	172759	0.858	0.46	
6.757	269574	224997	0.835	0.61	
6.801	248826	216150	0.869	0.57	
6.839	139095	94019	0.676	0.31	
6.911	33819	30814	0.911	0.07	
6.942	141107	120265	0.852	0.32	
7.004	446627	396671	0.888	1.02	8 Aroclor 1260
7.034	51586	48778	0.946	0.11	
7.120	29000	23649	0.815	0.06	
7.250	233073	199427	0.856	0.53	8 Aroclor 1260
7.282	98672	75071	0.761	0.22	
7.333	18146	13282	0.732	0.04	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.388	199586	176934	0.887	0.45	
7.442	205679	178044	0.866	0.47	8 Aroclor 1260
7.549	17683	13589	0.768	0.04	
7.579	11726	10319	0.880	0.02	
7.691	54327	49937	0.919	0.12	
7.728	64364	55003	0.855	0.14	
7.804	54411	30490	0.560	0.12	
7.899	124492	106716	0.857	0.28	8 Aroclor 1260
7.960	29104	15359	0.528	0.06	
8.052	37381	27166	0.727	0.08	
8.276	133668	117680	0.880	0.30	
8.570	5202889	4401202	0.846	11.94	$ 12 Decachlorobiphenyl
9.171	27477	21665	0.788	0.06	
9.216	11189	6762	0.604	0.02	
9.964	13226	8748	0.661	0.03	
	43561639	37521025		100.000	

Total unknown % area = 47

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041218.b\041218027.D
Lab Smp Id: 40157694015 Client Smp ID: ND3-170615-01-YP-01
Inj Date : 12-APR-2018 17:55
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157694015 x2,
Misc Info : 17661,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041218.b\pcba030618.m
Meth Date : 19-Apr-2018 09:02 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 27
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	9.966	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

2.483	2.484	-0.001	5329971	0.04323		43		

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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	1183181	0.50499	510	0.00- 20.00	100.00(M)	BA
4.544	4.546	-0.002	917947	0.22118	220	0.00- 20.00	77.58	BA
4.812	4.812	0.000	616618	0.30374	300	0.00- 20.00	52.12	BA
4.878	4.879	-0.001	1715327	0.34052	340	0.00- 20.00	144.98	BA
5.037	5.038	-0.001	556880	0.15518	160	0.00- 20.00	47.07	BA
Average of Peak Concentrations =					310			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	1249152	0.23860	240	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	834388	0.19400	190	0.00- 20.00	66.80	BA
5.509	5.510	-0.001	1520663	0.19581	200	0.00- 20.00	121.74	BA
6.024	6.027	-0.003	908080	0.18648	190	0.00- 20.00	72.70	BA
6.300	6.299	0.001	1795276	0.27589	280	0.00- 20.00	143.72	BA
Average of Peak Concentrations =					220			
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	446626	0.04460	45	0.00- 20.00	24.88	BA
7.250	7.251	-0.001	233072	0.04876	49	0.00- 20.00	12.98	BA
7.442	7.443	-0.001	205679	0.07056	71	0.00- 20.00	11.46	BA
7.899	7.901	-0.002	124491	0.04718	47	0.00- 20.00	6.93	BA
Average of Peak Concentrations =					53			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	5202888	0.04749	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\041218.b\041218027.D

Date : 12-APR-2018 17:55

Client ID: ND3-170615-01-YP-01

Instrument: 40GCSJ.i

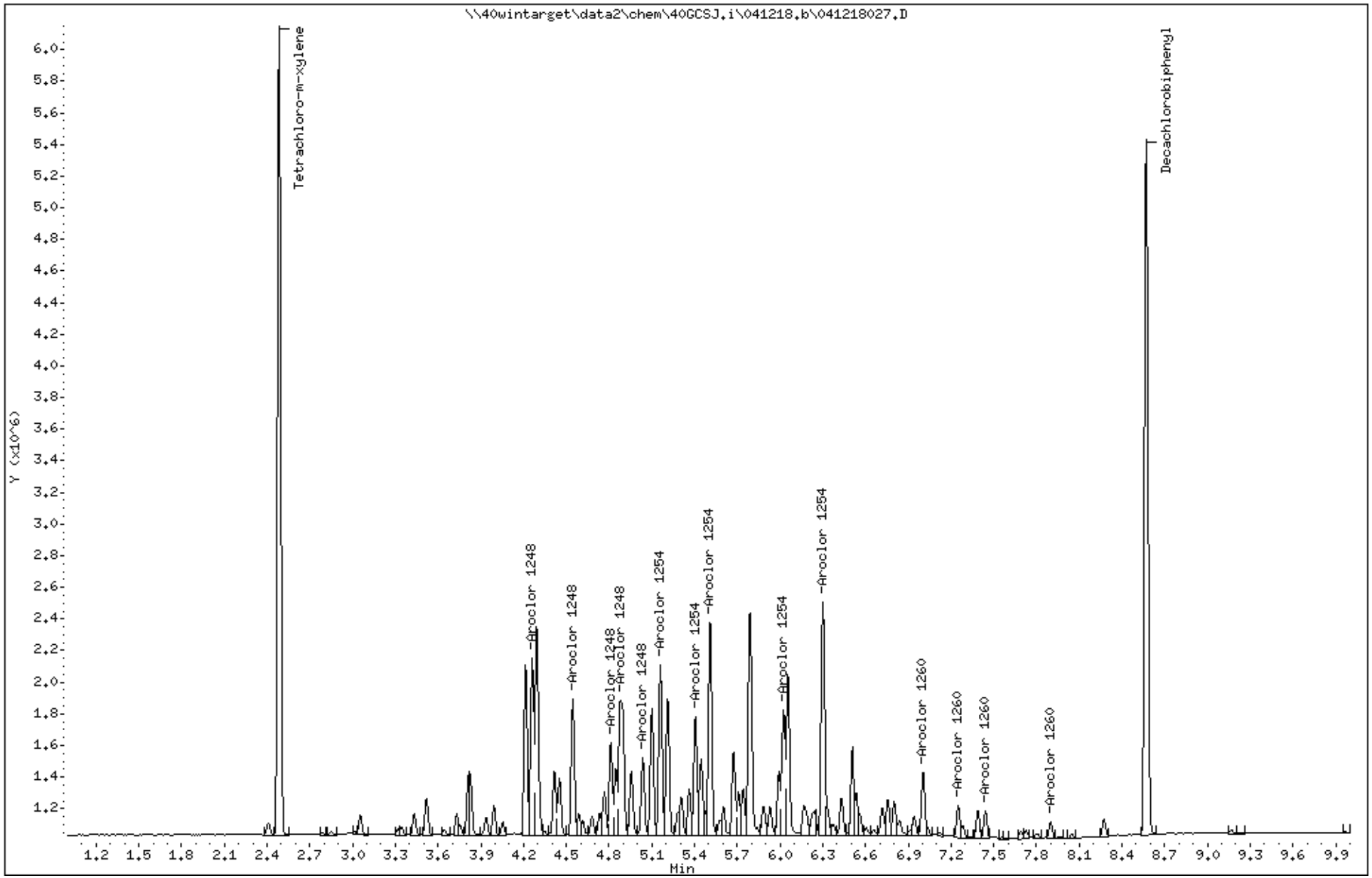
Sample Info: 40157694015 x2,

Volume Injected (uL): 1.0

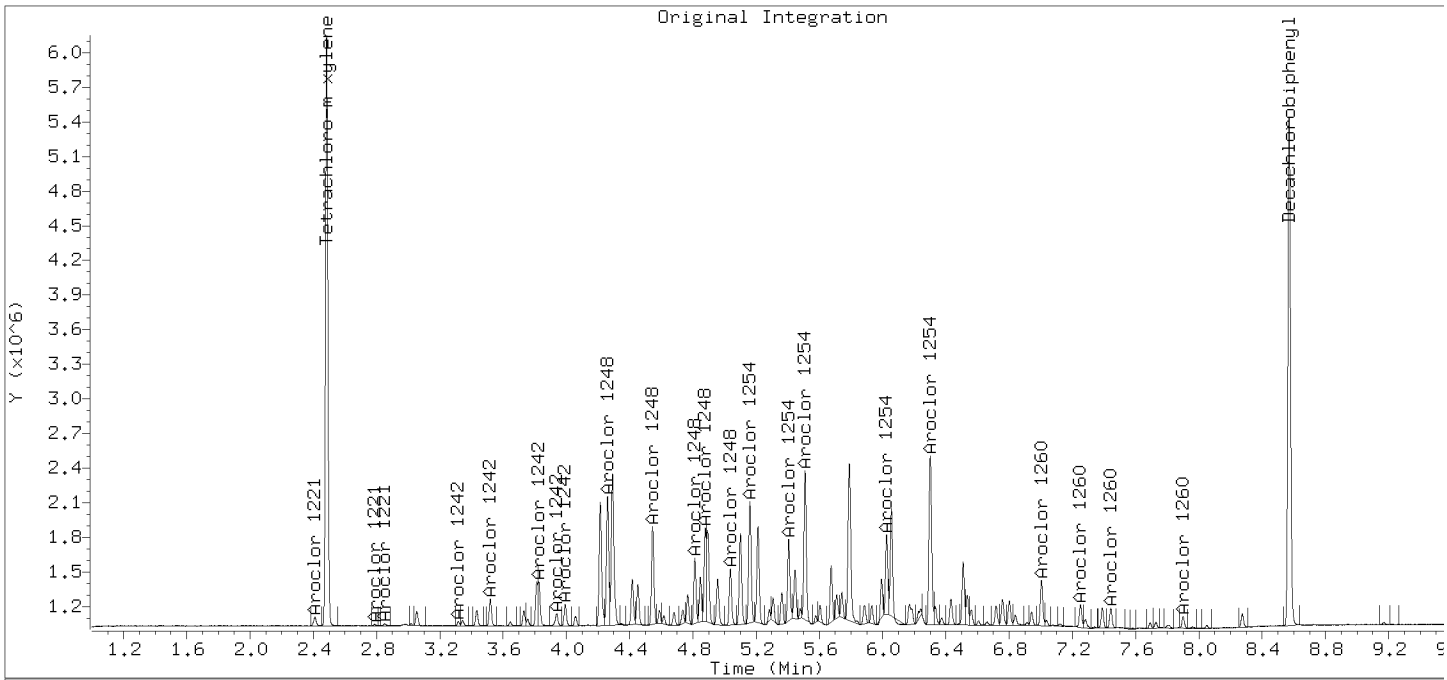
Operator: BLM

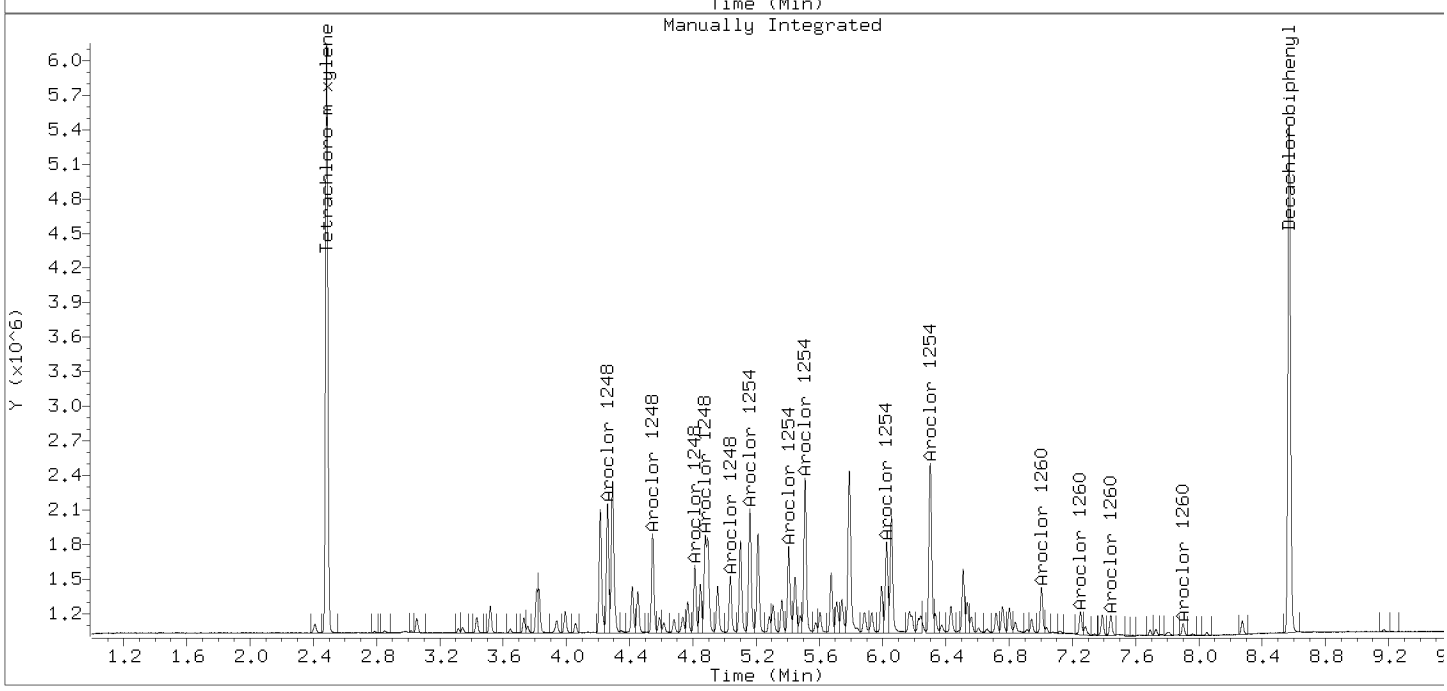
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041218.b/041218027.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 12-APR-2018 17:55 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157694015





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	38498	0	
Aroclor 1016	38498	0	
Aroclor 1016	38498	0	
Aroclor 1016	38498	0	
Aroclor 1016	38498	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	30149	0	
Aroclor 1232	30149	0	
Aroclor 1232	30149	0	
Aroclor 1232	30149	0	

Aroclor 1232	30149	0	
Aroclor 1242	38498	0	
Aroclor 1242	38498	0	
Aroclor 1242	38498	0	
Aroclor 1242	38498	0	
Aroclor 1242	38498	0	
Aroclor 1248	1170685	1183181	BA
Aroclor 1248	1170685	1183181	BA
Aroclor 1248	1170685	1183181	BA
Aroclor 1248	1170685	1183181	BA
Aroclor 1248	1170685	1183181	BA
Aroclor 1254	1162824	1249152	BA
Aroclor 1254	1162824	1249152	BA
Aroclor 1254	1162824	1249152	BA
Aroclor 1254	1162824	1249152	BA
Aroclor 1254	1162824	1249152	BA
Aroclor 1260	1762041	0	BA
Aroclor 1260	1762041	0	BA
Aroclor 1260	1762041	0	BA
Aroclor 1260	1762041	0	BA
Aroclor 1260	1762041	0	BA
Tetrachloro-m-xylene	5329971	5329971	
Decachlorobiphenyl	5202888	5202888	

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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.: 40157694

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.: 40157694

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.: 40157694

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.

05/11/2018 10:37

PCB - FORM VI SVOA-4

PCB INITIAL CALIBRATION (MULTIPOINT)

Lab Name: Pace Analytical - Green Bay Instrument ID: 40GCSJ GC Column: Col 1 SDG No.: 40157694

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.: 40157694

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.

05/11/2018 10:37

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.: 40157694

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.: 40157694

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

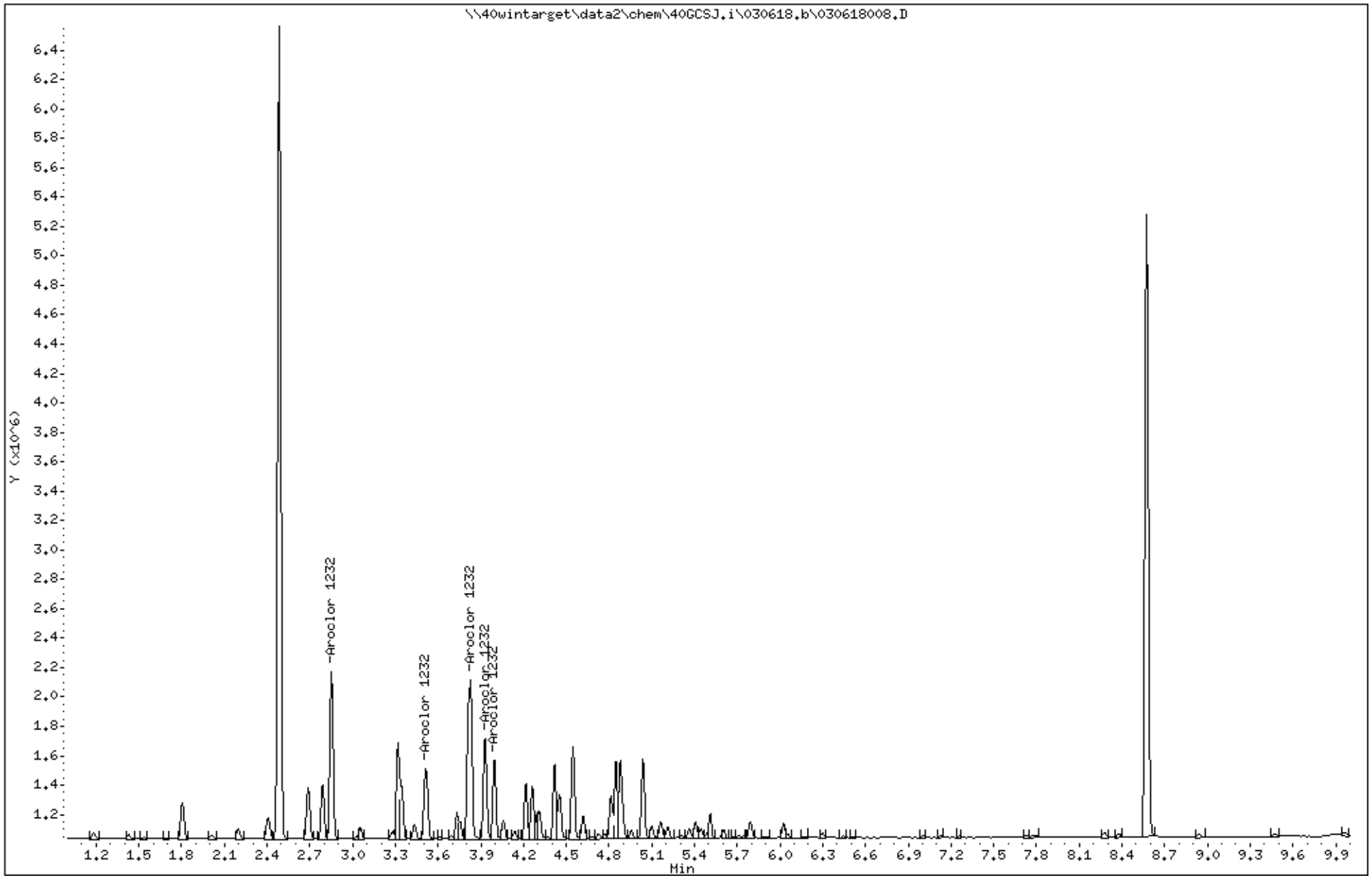
M - Compound response manually integrated.

Review Codes Legend

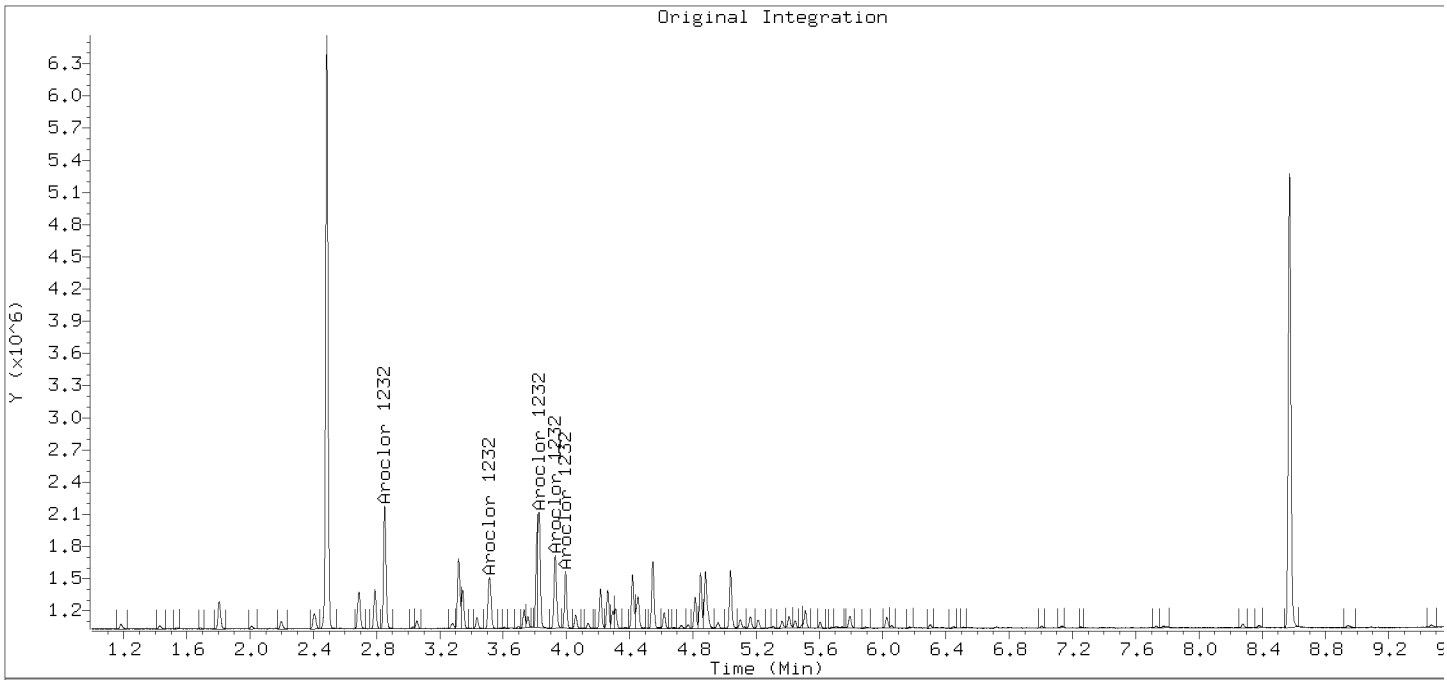
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

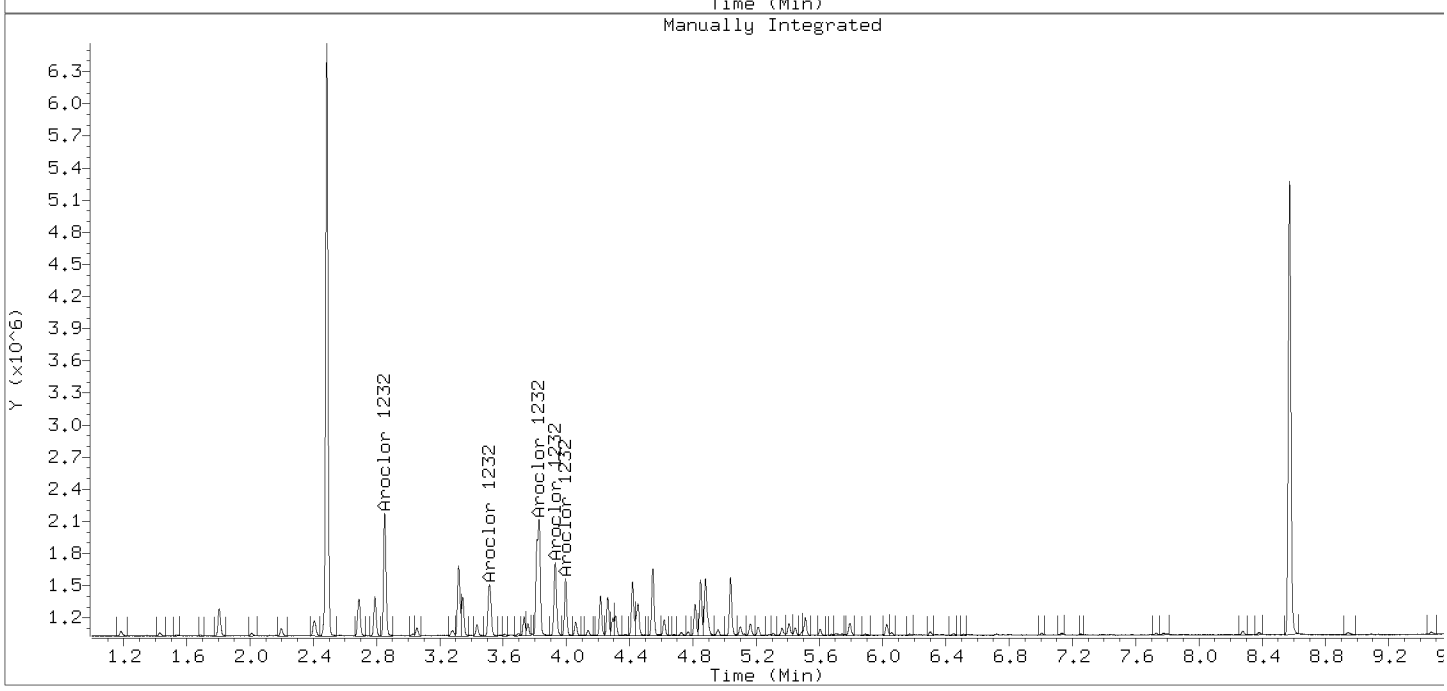
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618008.D
Date : 06-MAR-2018 11:50
Client ID: 1232-CAL3S
Sample Info: 1232-CAL3S, 185539:1

Instrument: 40GCSJ.i
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

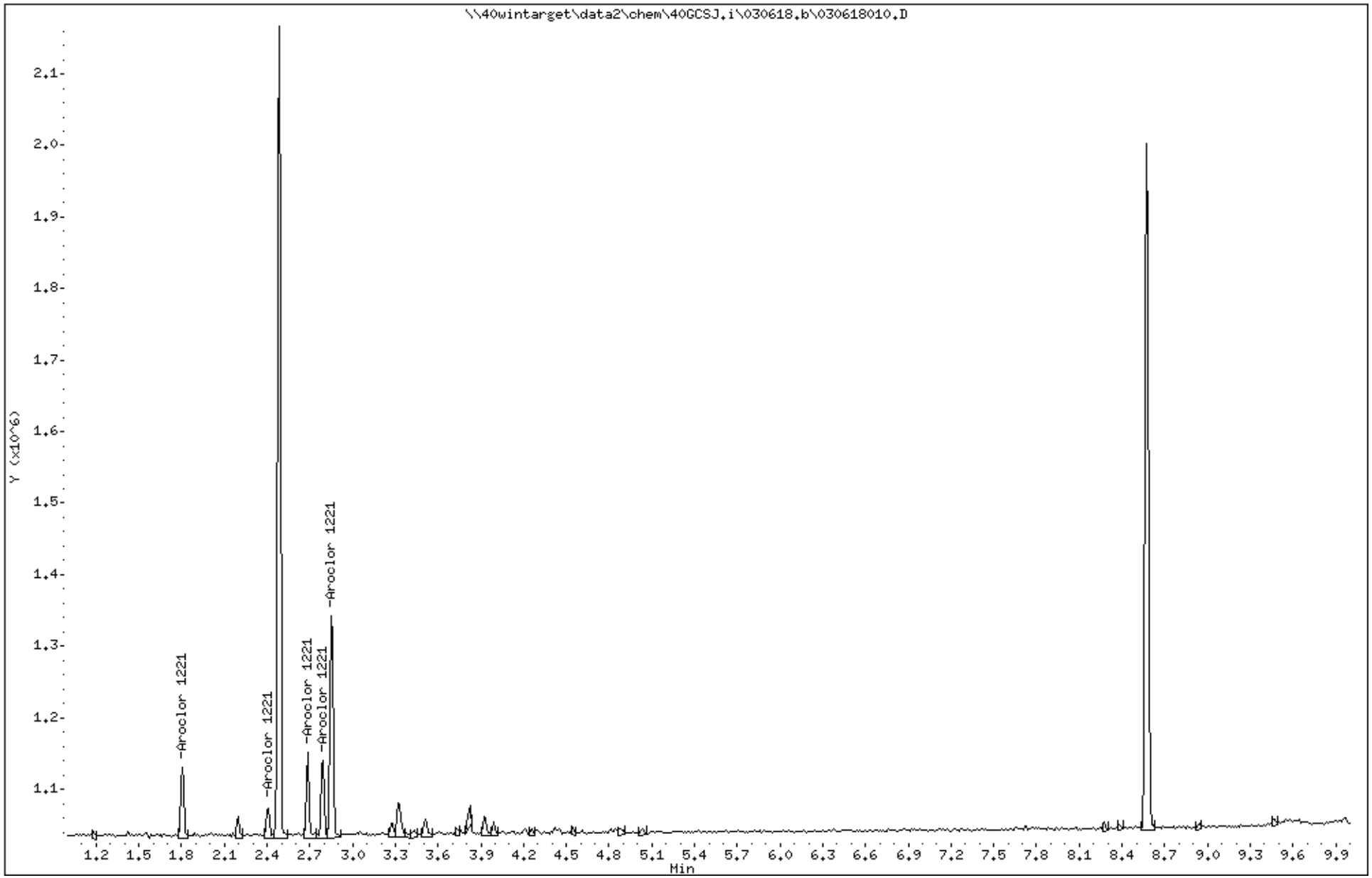
Instrument: 40GCSJ.i

Sample Info: 1221-CAL1F, 188138:1

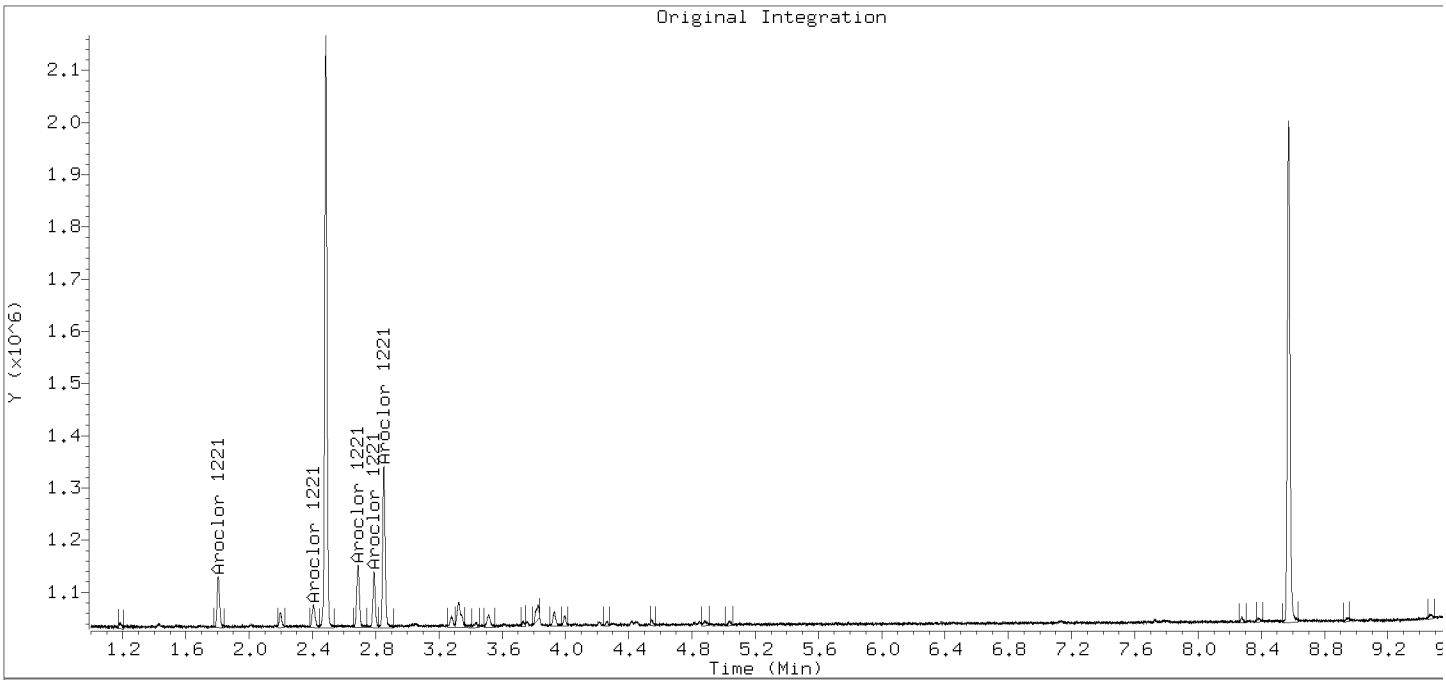
Operator: BLM

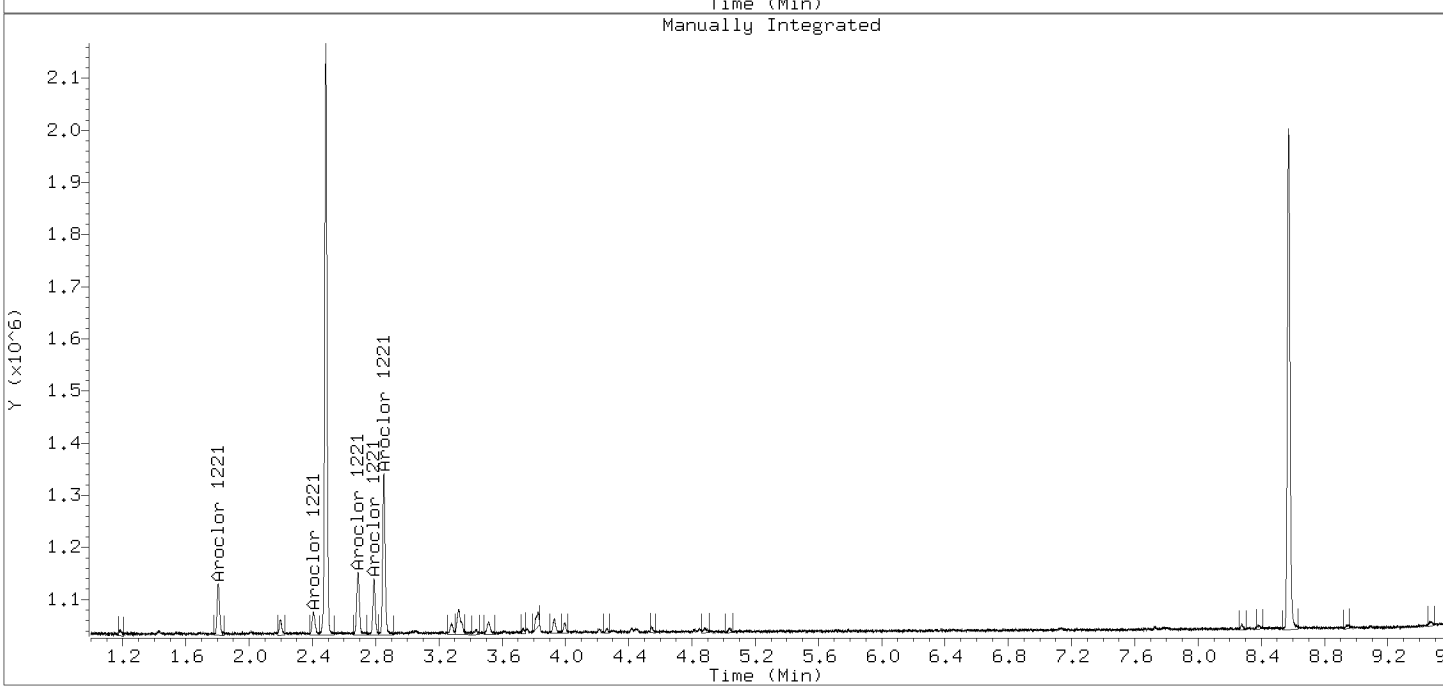
Column phase: ZB-1ms

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

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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

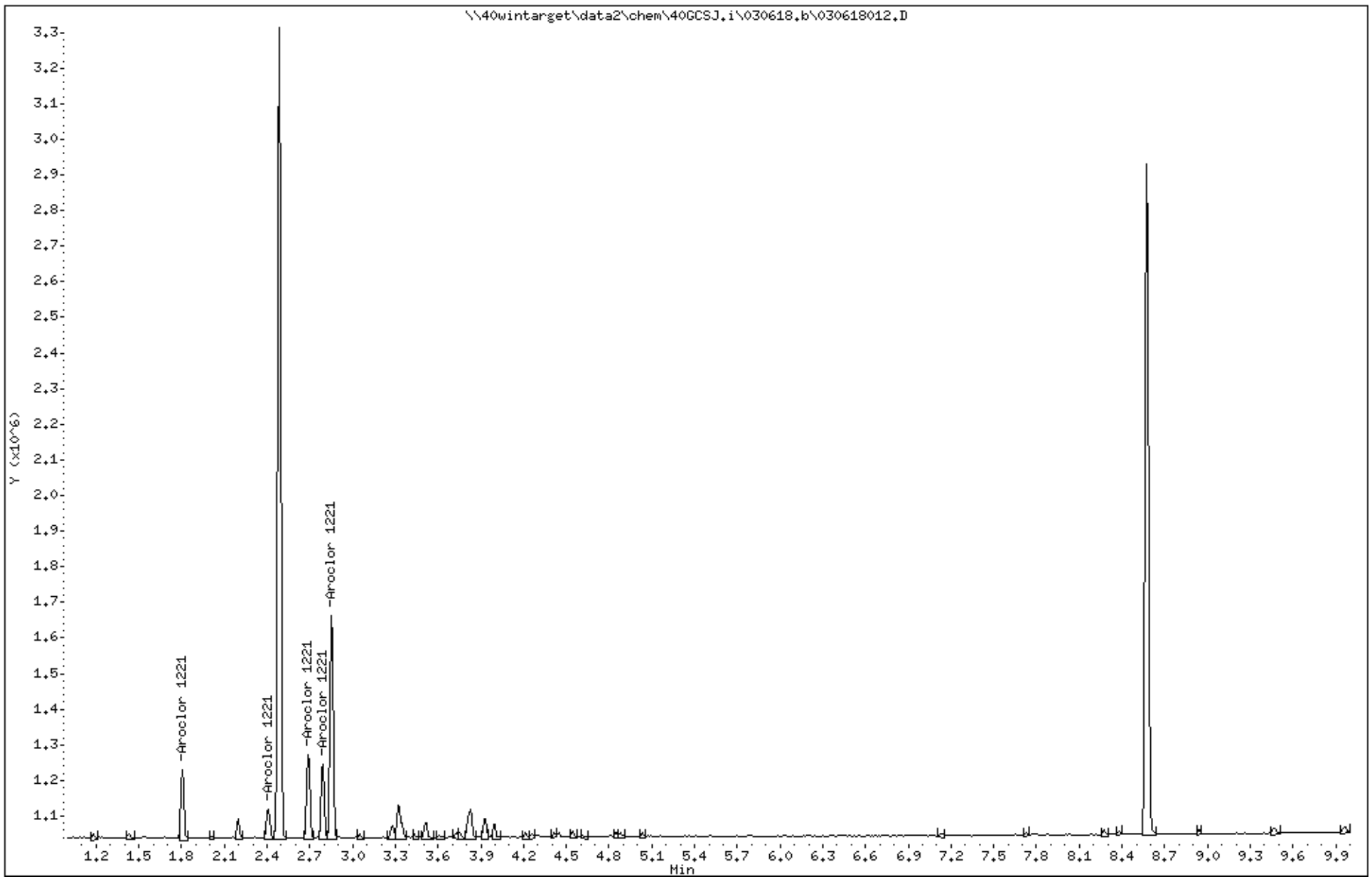
Instrument: 40GCSJ.i

Sample Info: 1221-CAL2F, 188139:1

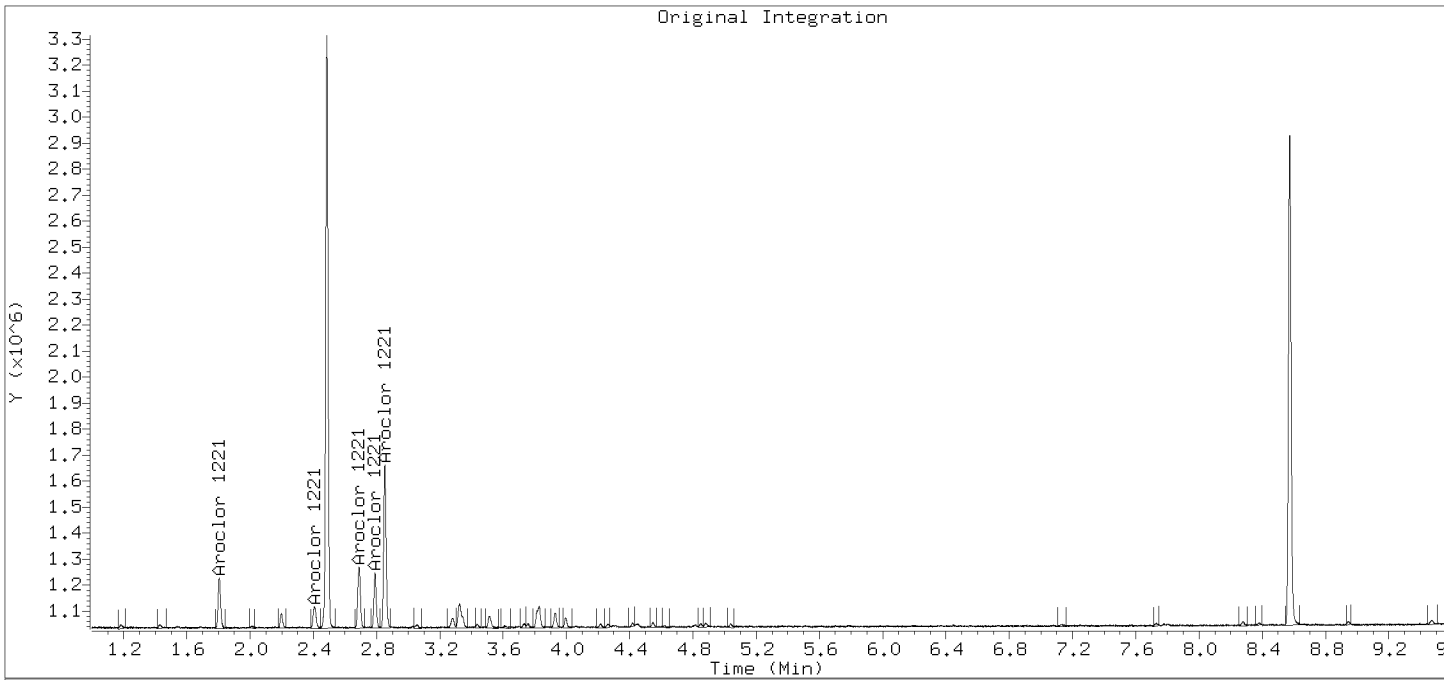
Operator: BLM

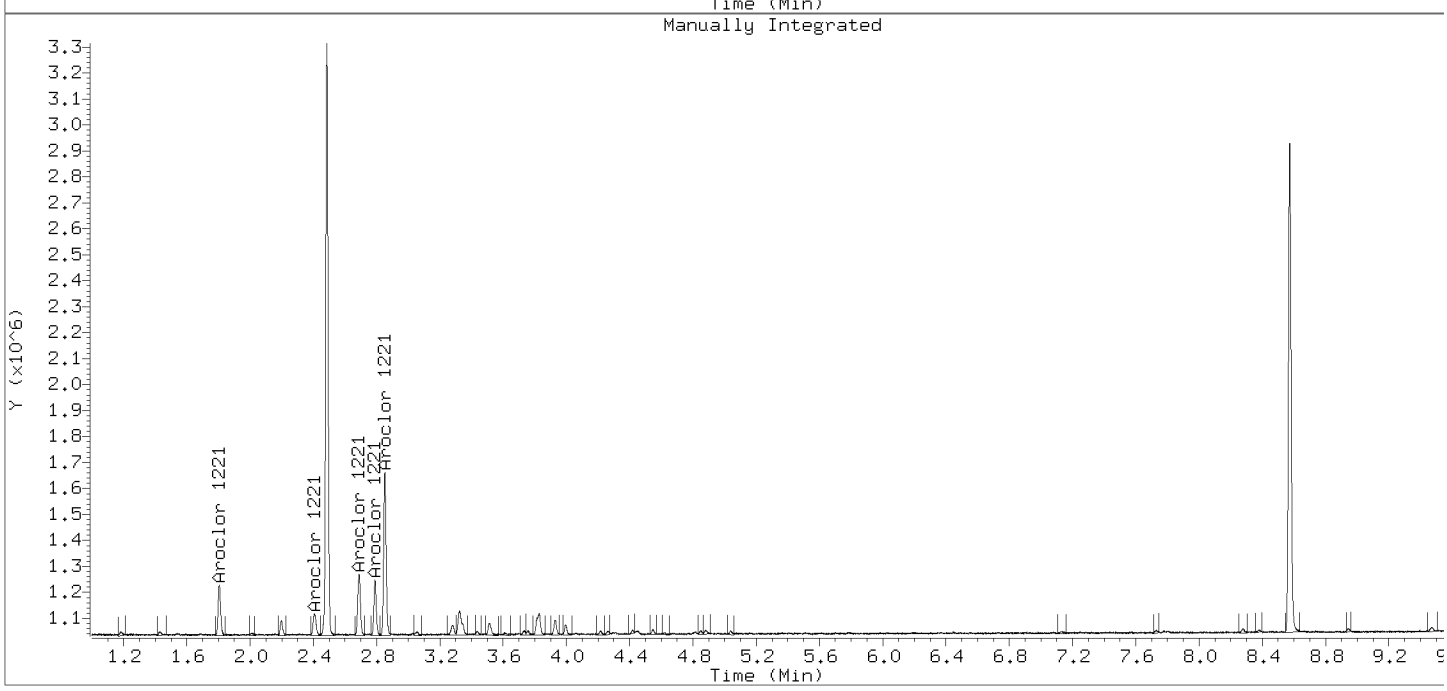
Column phase: ZB-1ms

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

Pace Analytical Services, Inc.

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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

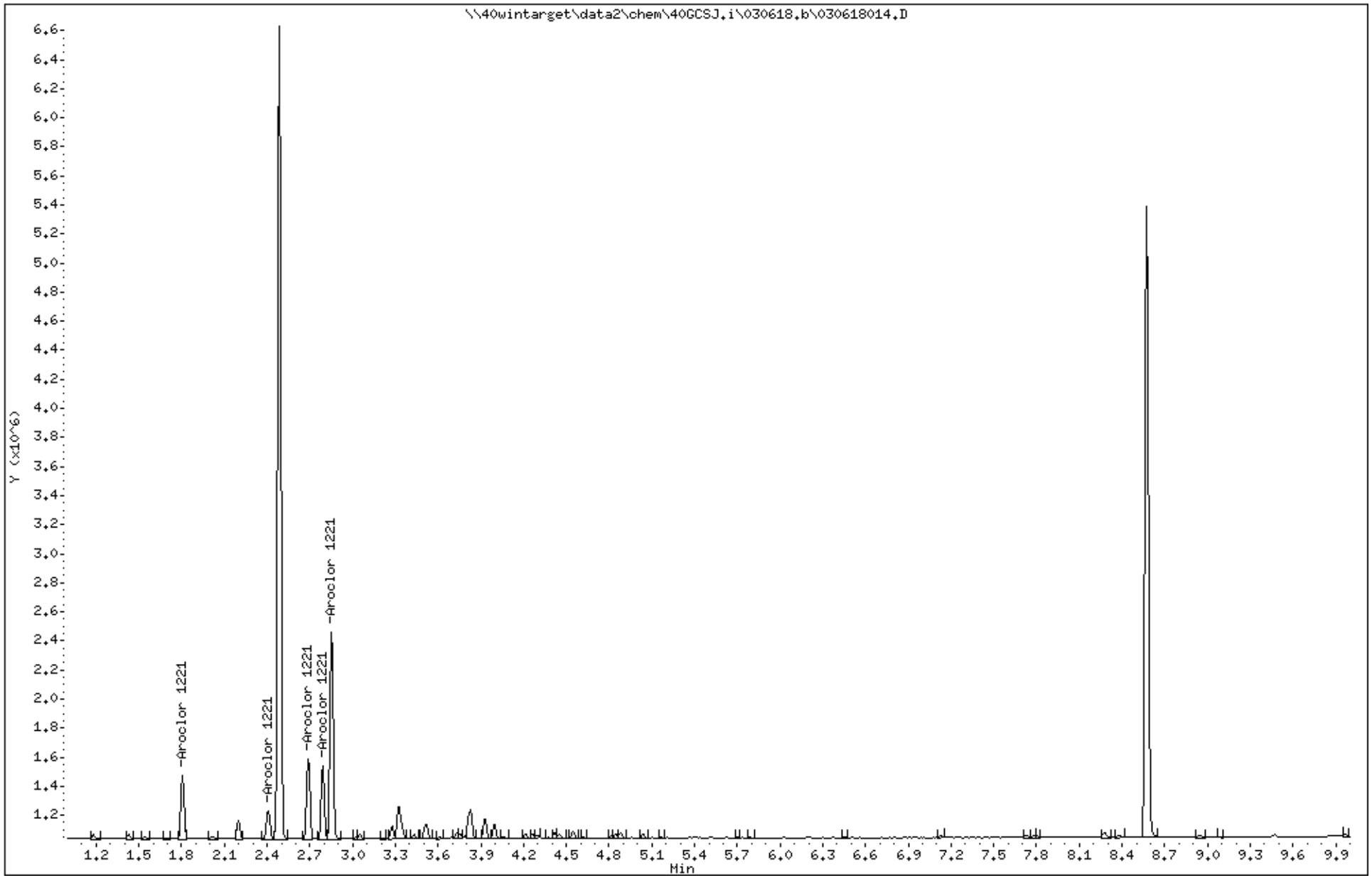
M - Compound response manually integrated.

Review Codes Legend

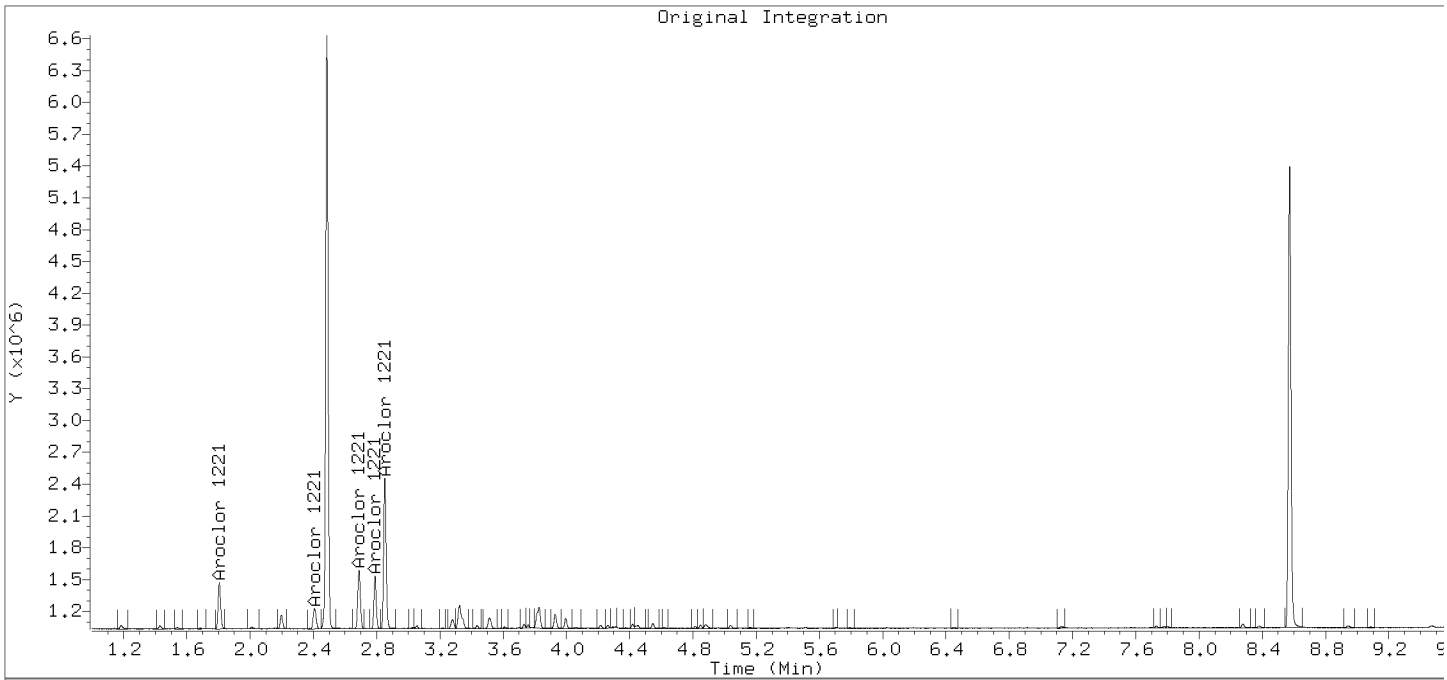
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

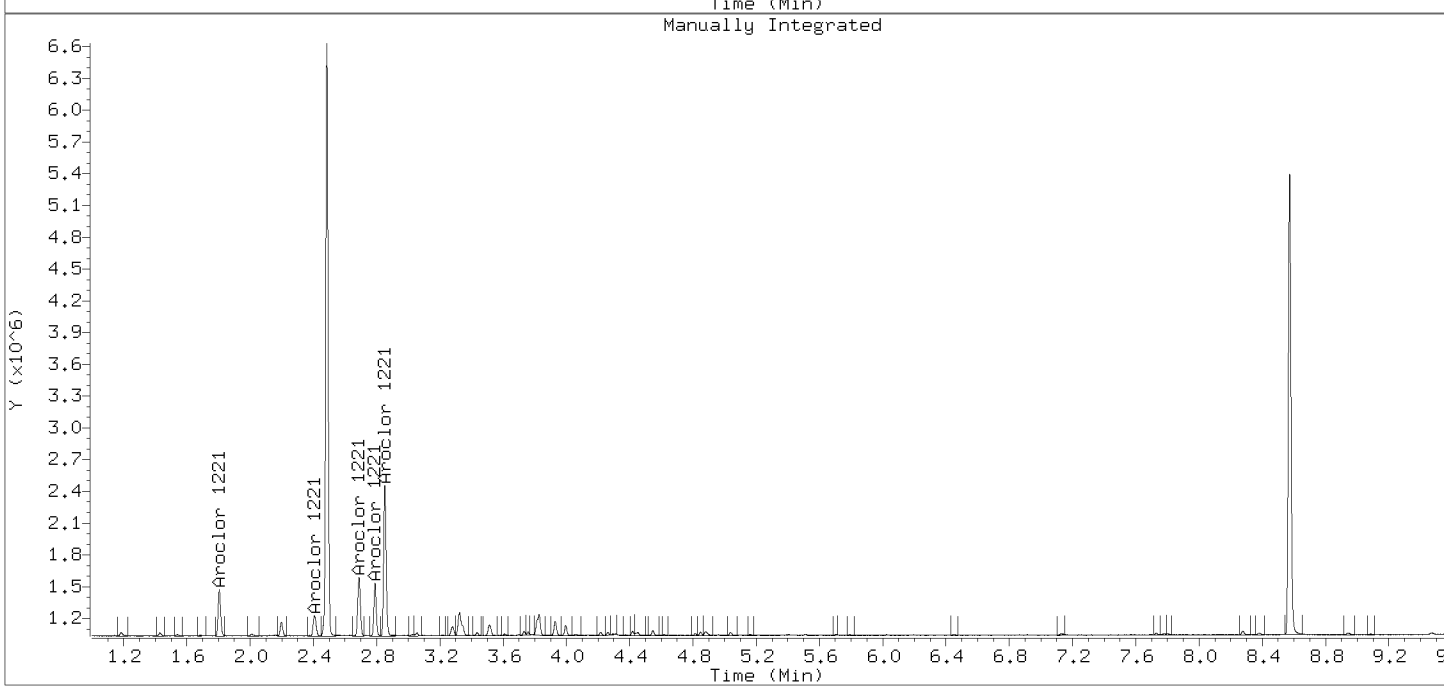
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618014.D
Date : 06-MAR-2018 12:39
Client ID: 1221-CAL3F
Sample Info: 1221-CAL3F, 185538:1

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

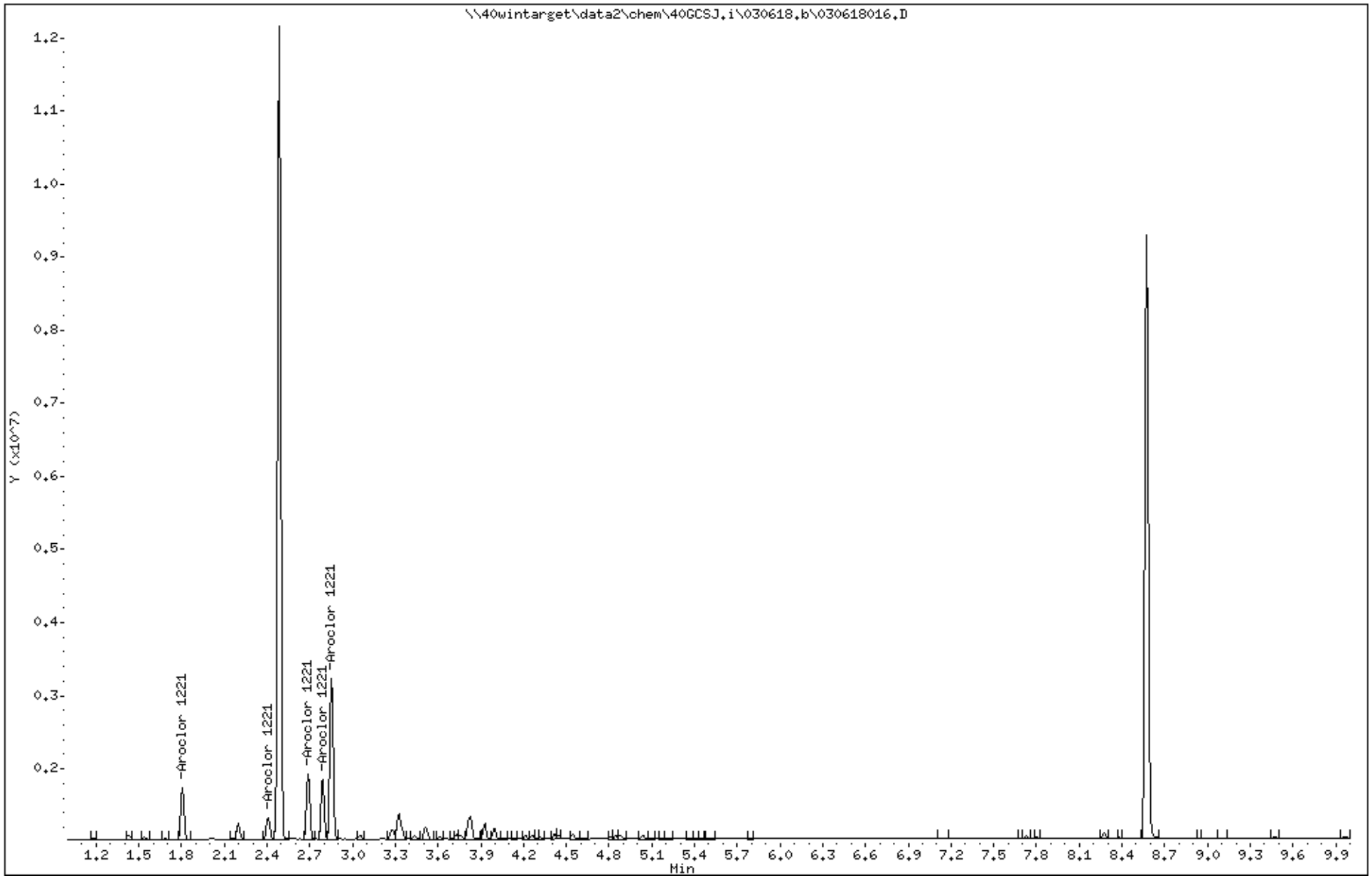
M - Compound response manually integrated.

Review Codes Legend

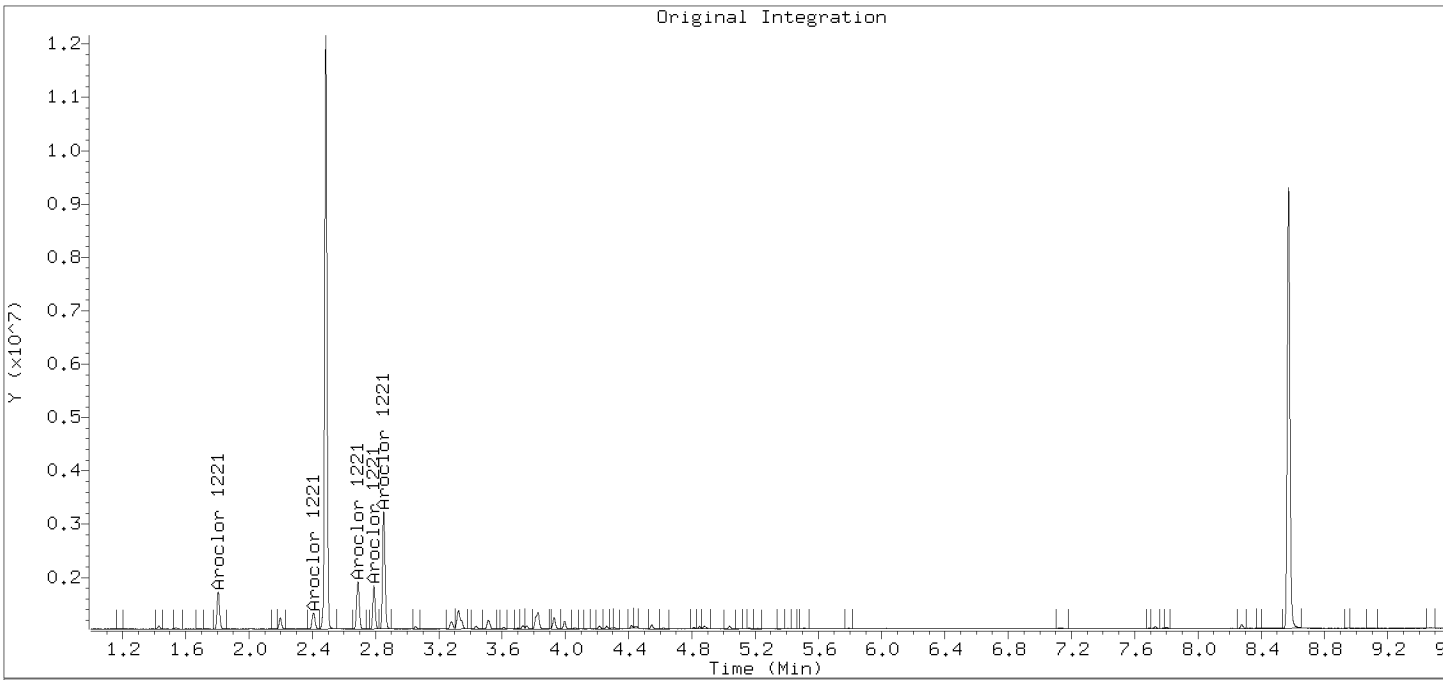
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

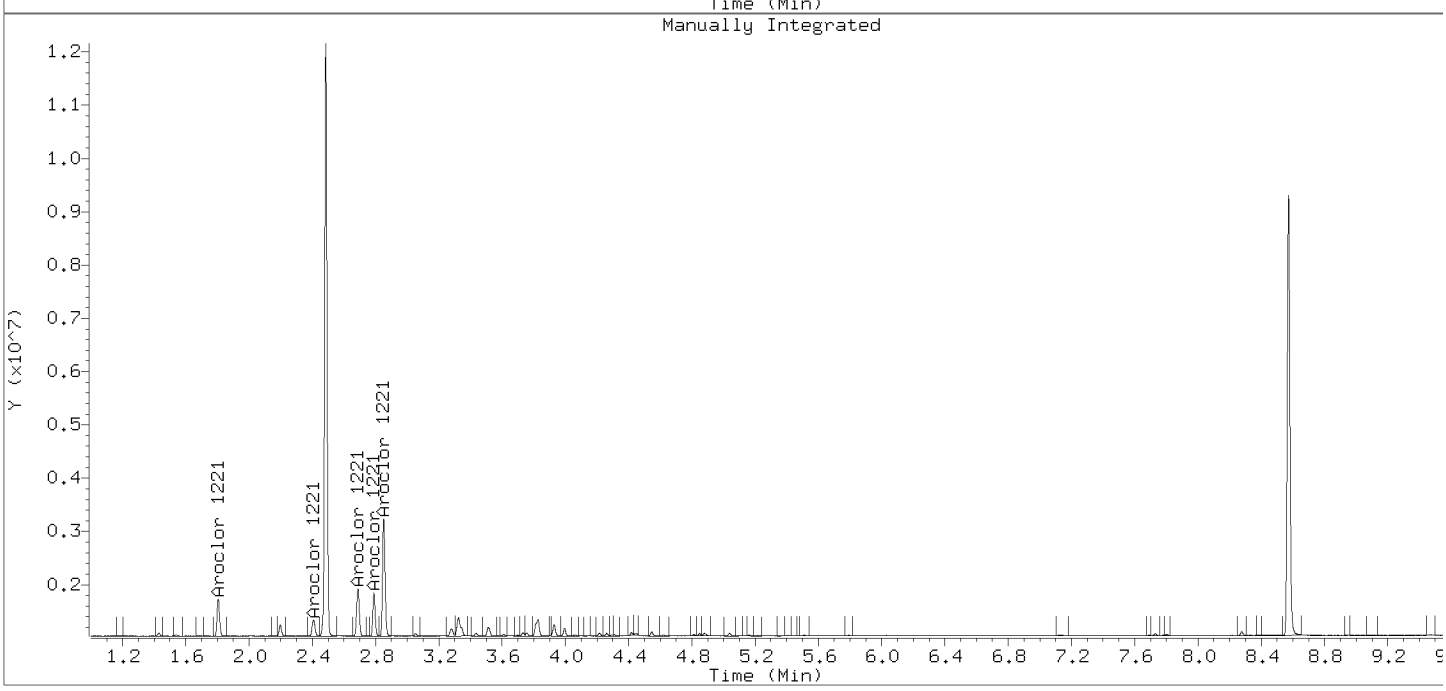
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618016.D
Date : 06-MAR-2018 12:55
Client ID: 1221-CAL4F
Sample Info: 1221-CAL4F, 188140:1

Instrument: 40GCSJ.i
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

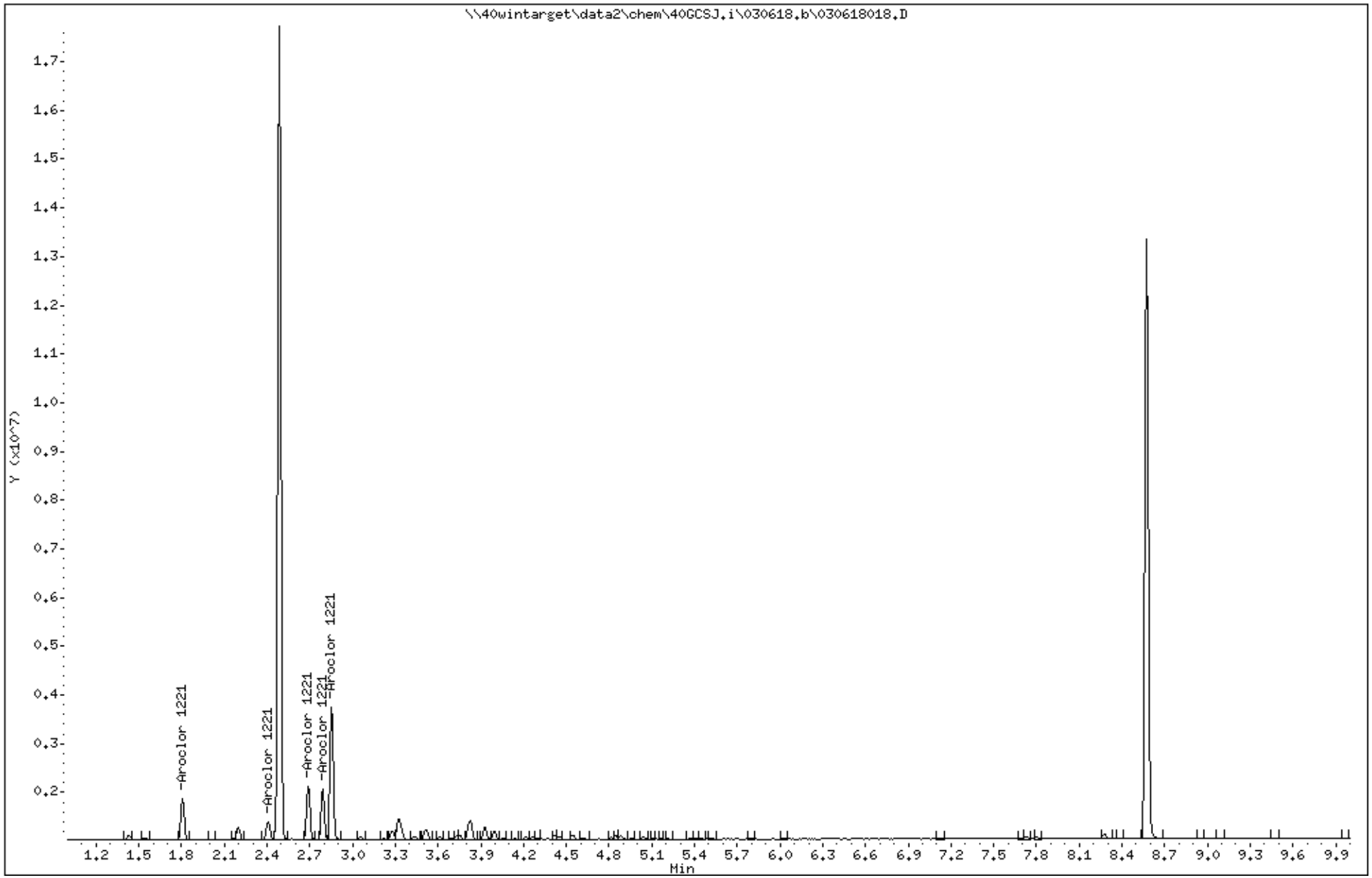
M - Compound response manually integrated.

Review Codes Legend

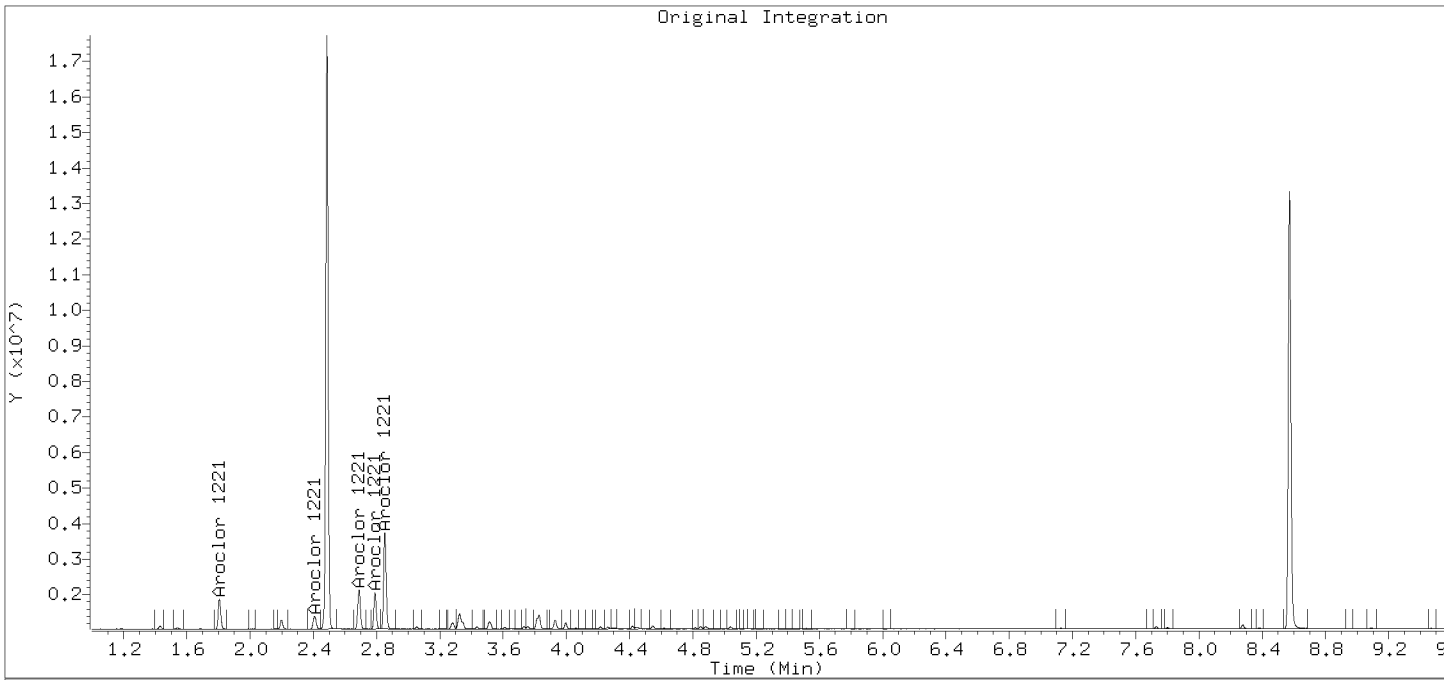
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

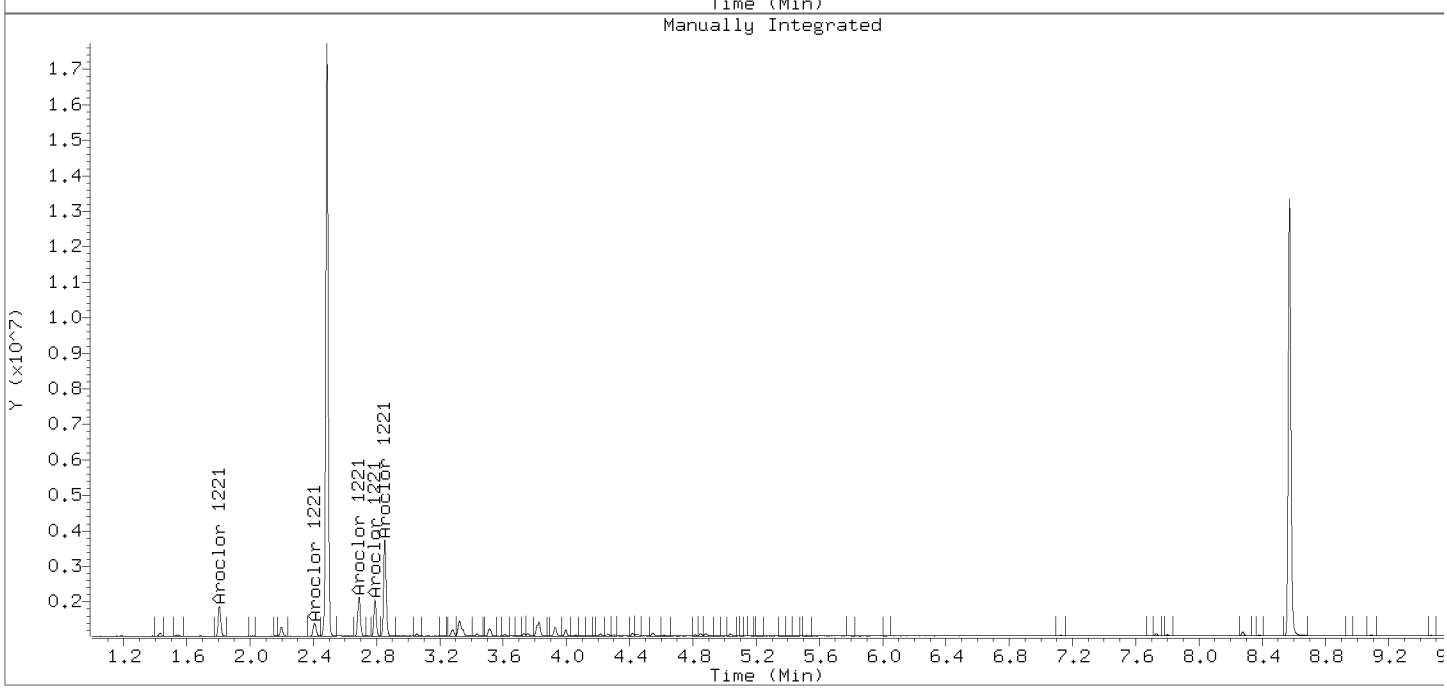
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618018.D
Date : 06-MAR-2018 13:11
Client ID: 1221-CAL5F
Sample Info: 1221-CAL5F, 188141:1

Instrument: 40GCSJ.i
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

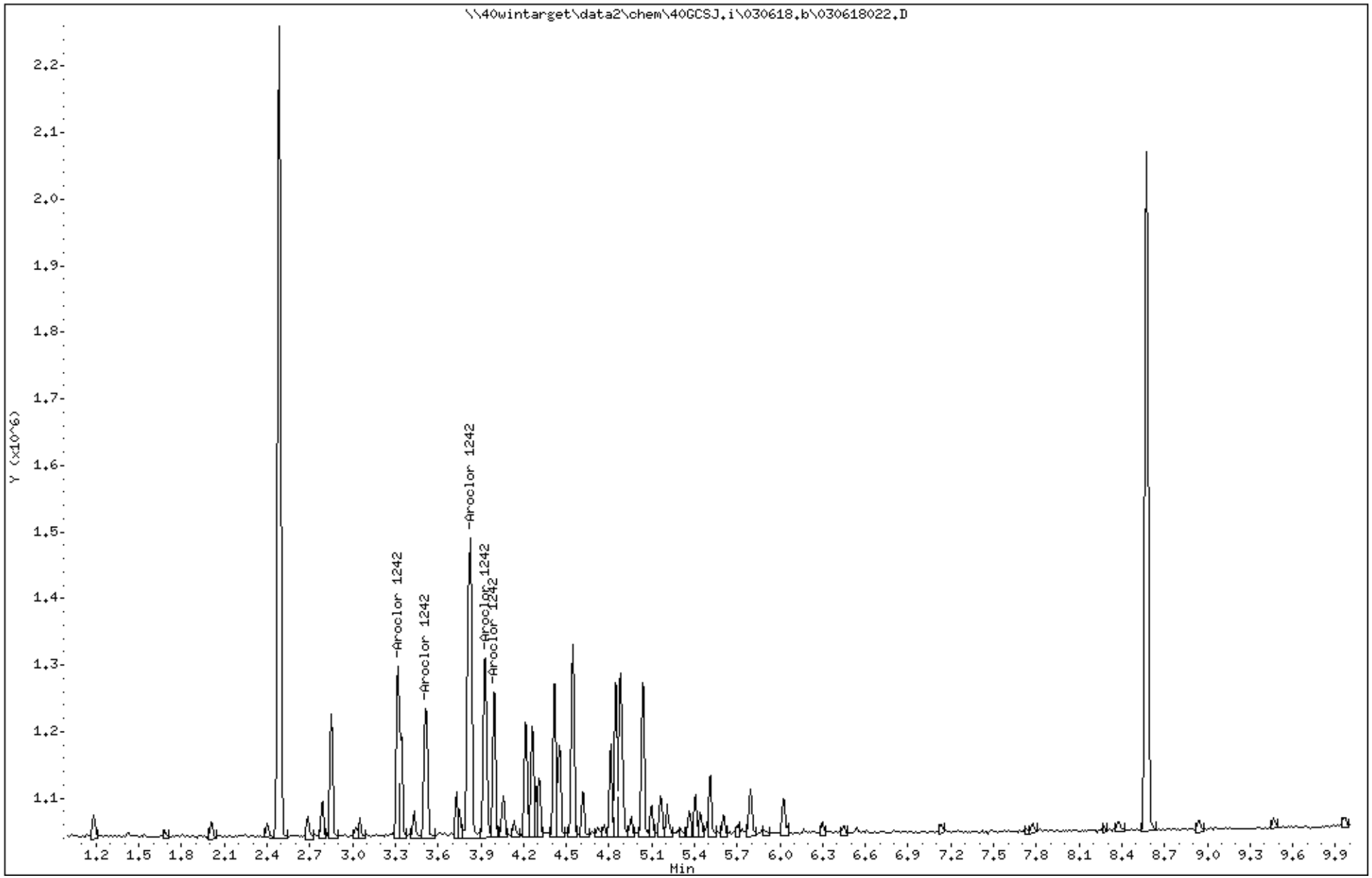
M - Compound response manually integrated.

Review Codes Legend

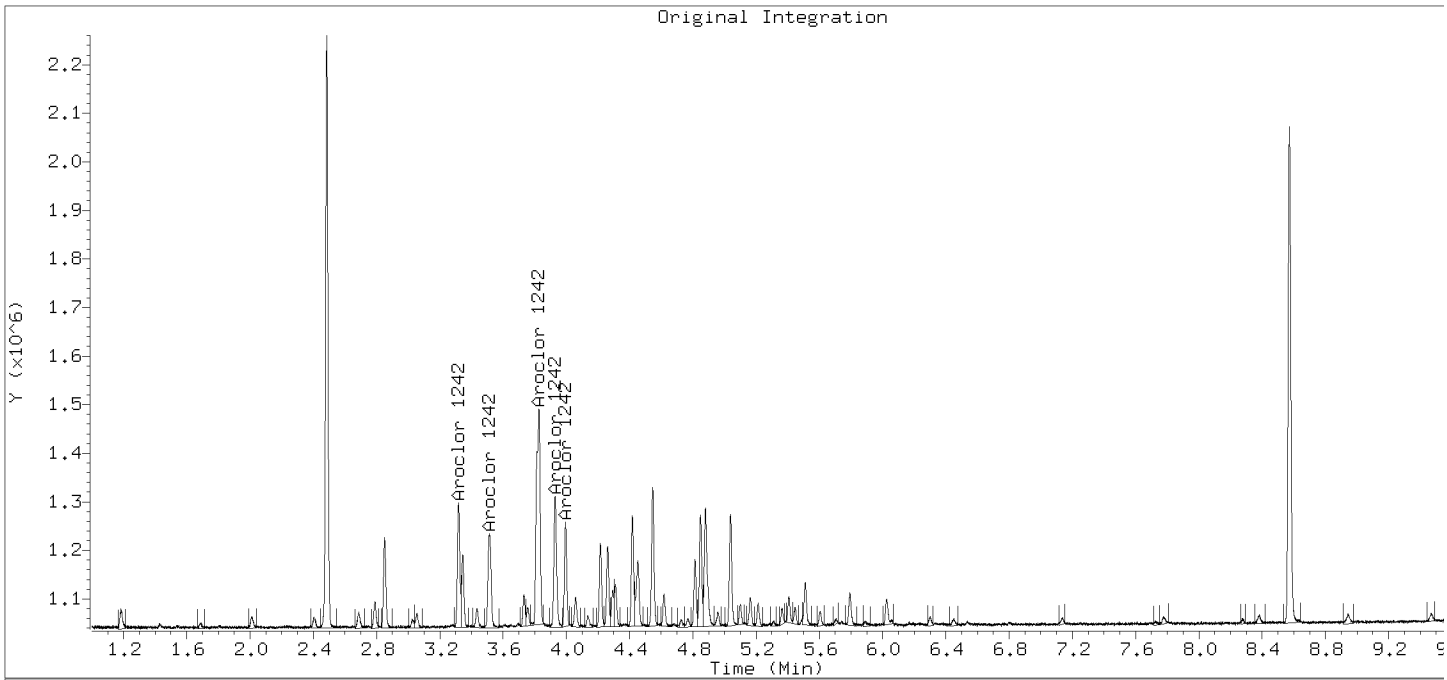
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

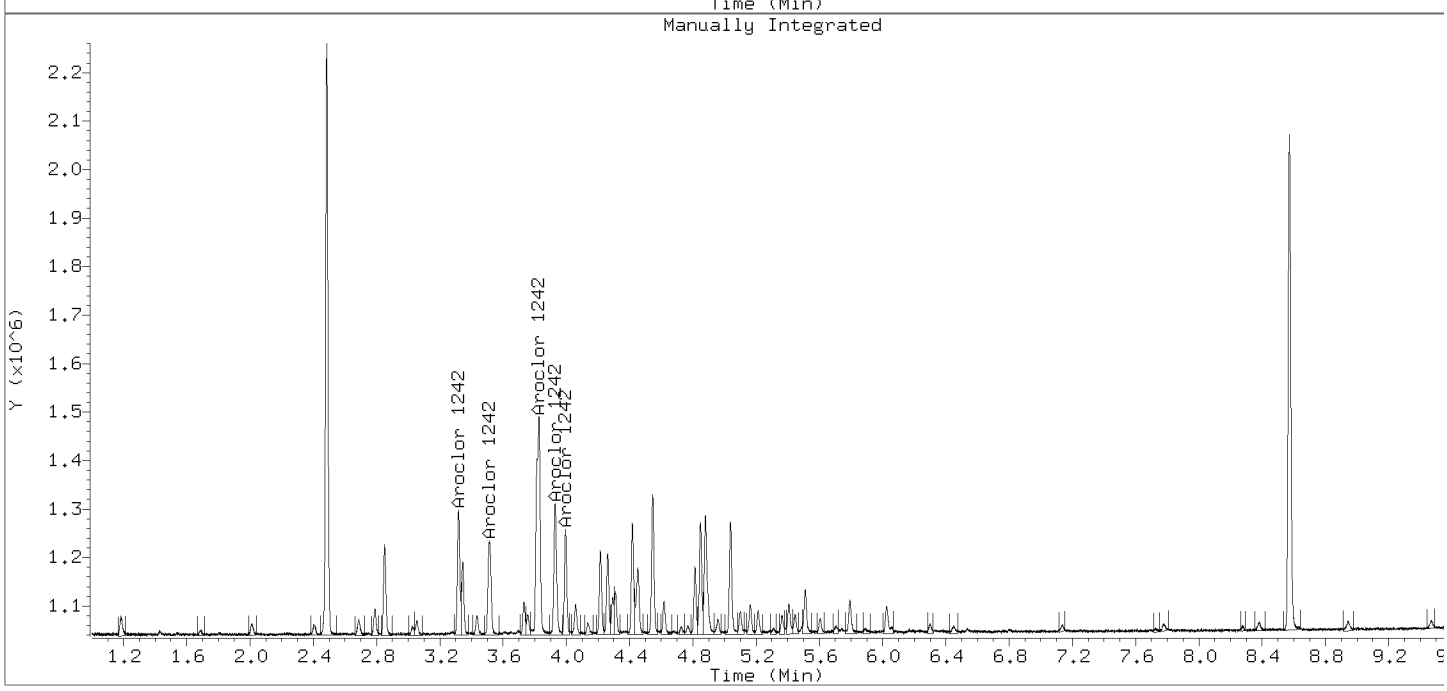
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618022.D
Date : 06-MAR-2018 13:44
Client ID: 1242-CAL1B
Sample Info: 1242-CAL1B, 188132:1

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

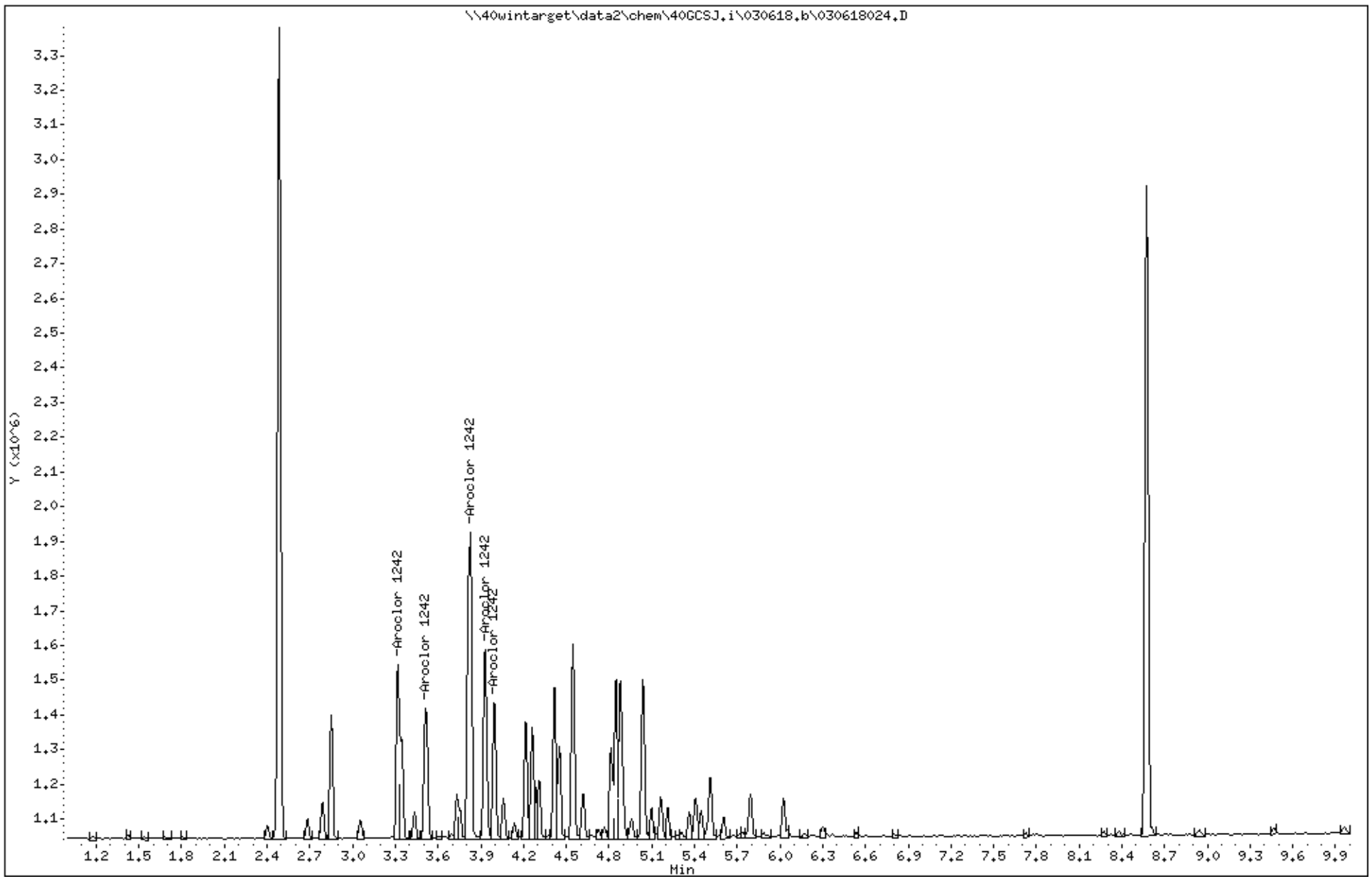
M - Compound response manually integrated.

Review Codes Legend

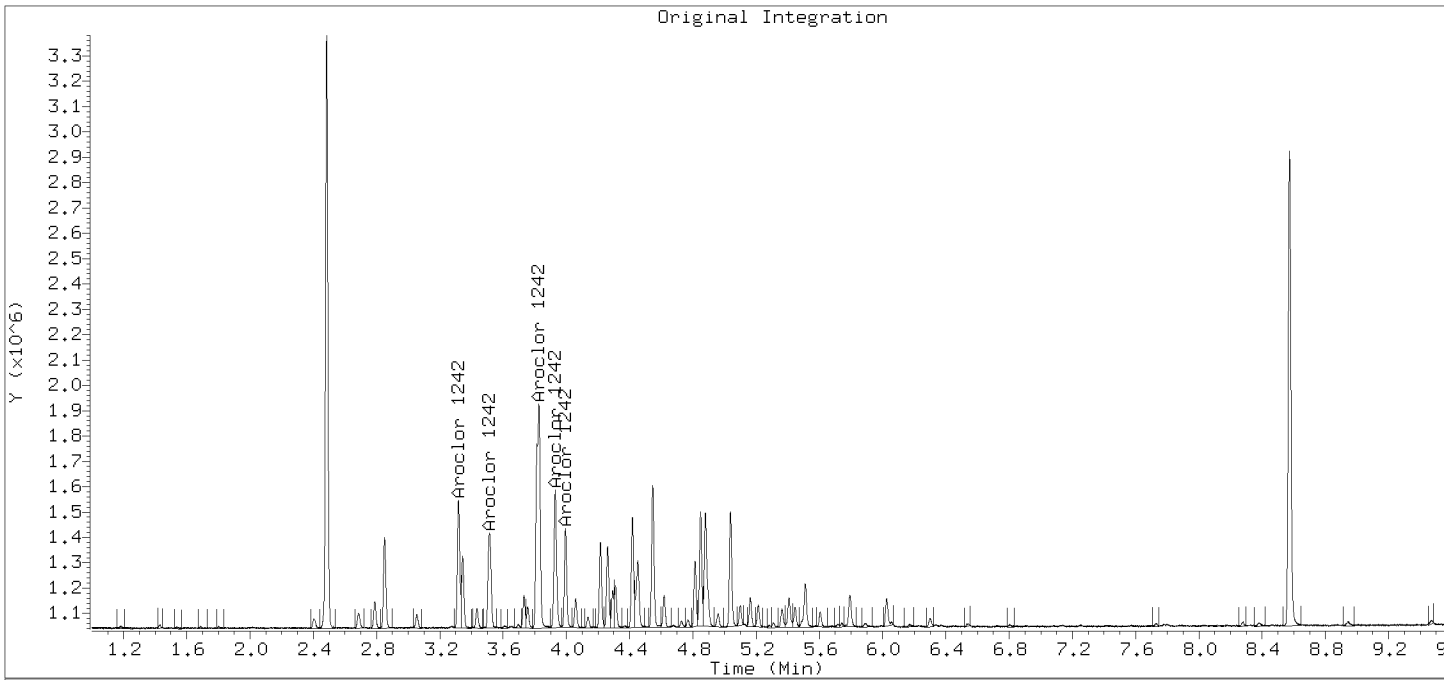
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

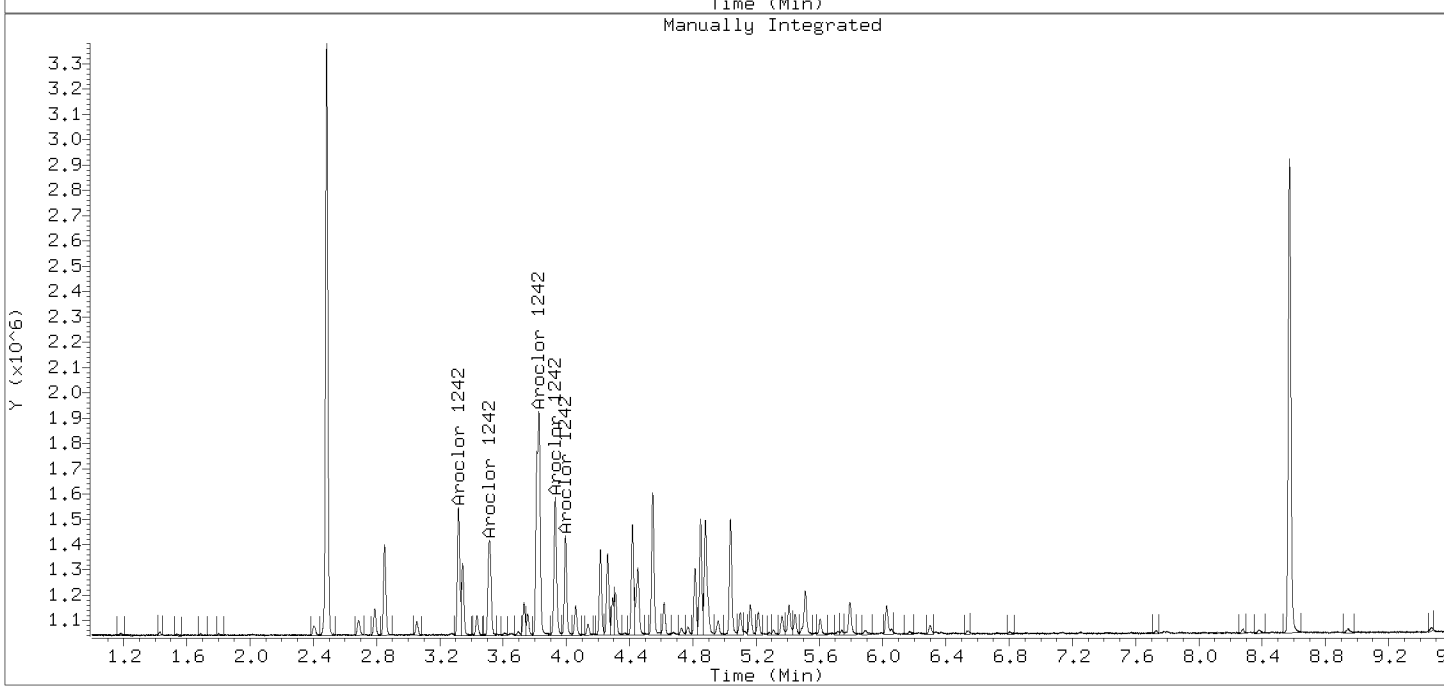
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618024.D
Date : 06-MAR-2018 14:00
Client ID: 1242-CAL2B
Sample Info: 1242-CAL2B, 185543:1

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

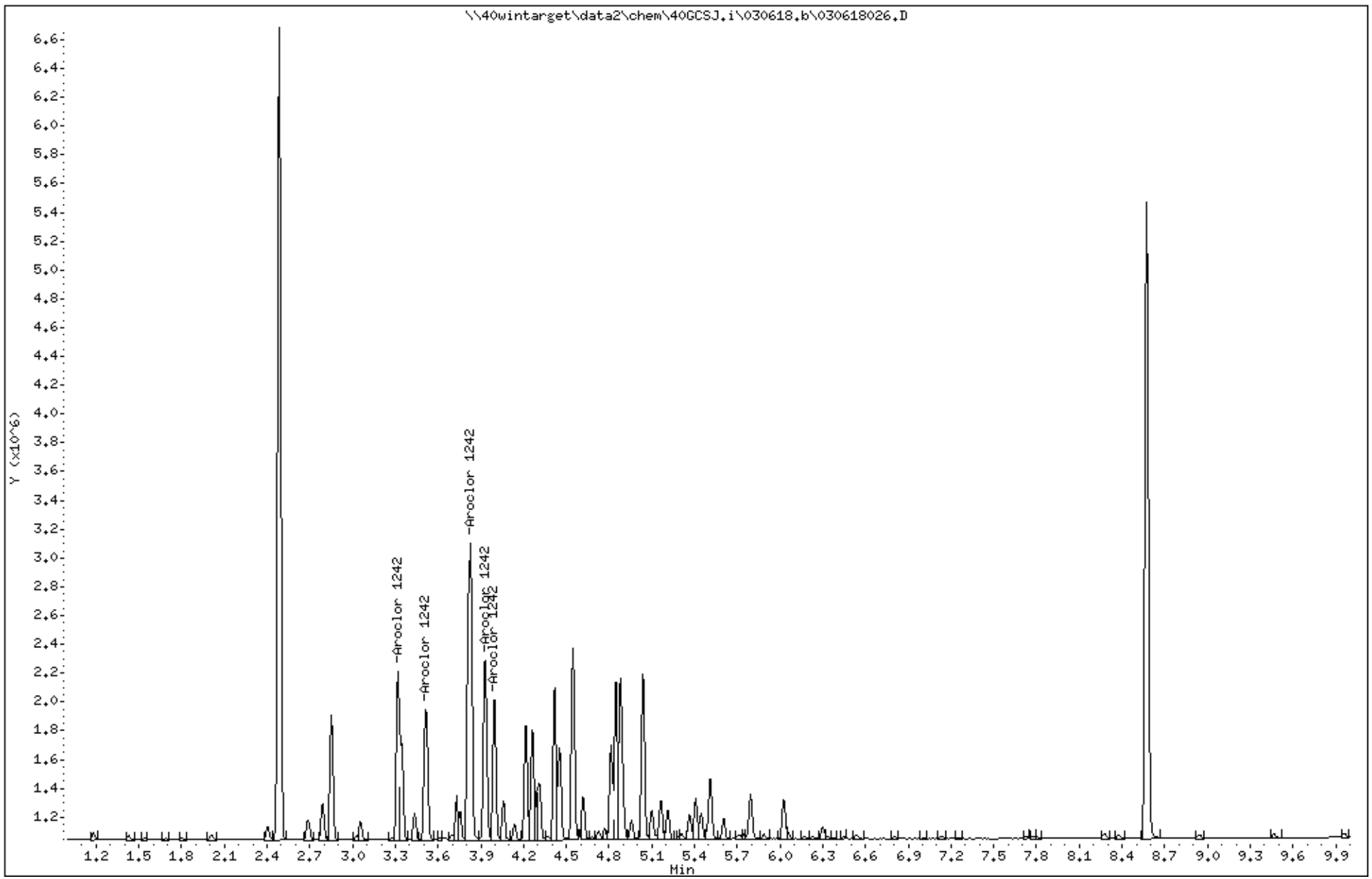
M - Compound response manually integrated.

Review Codes Legend

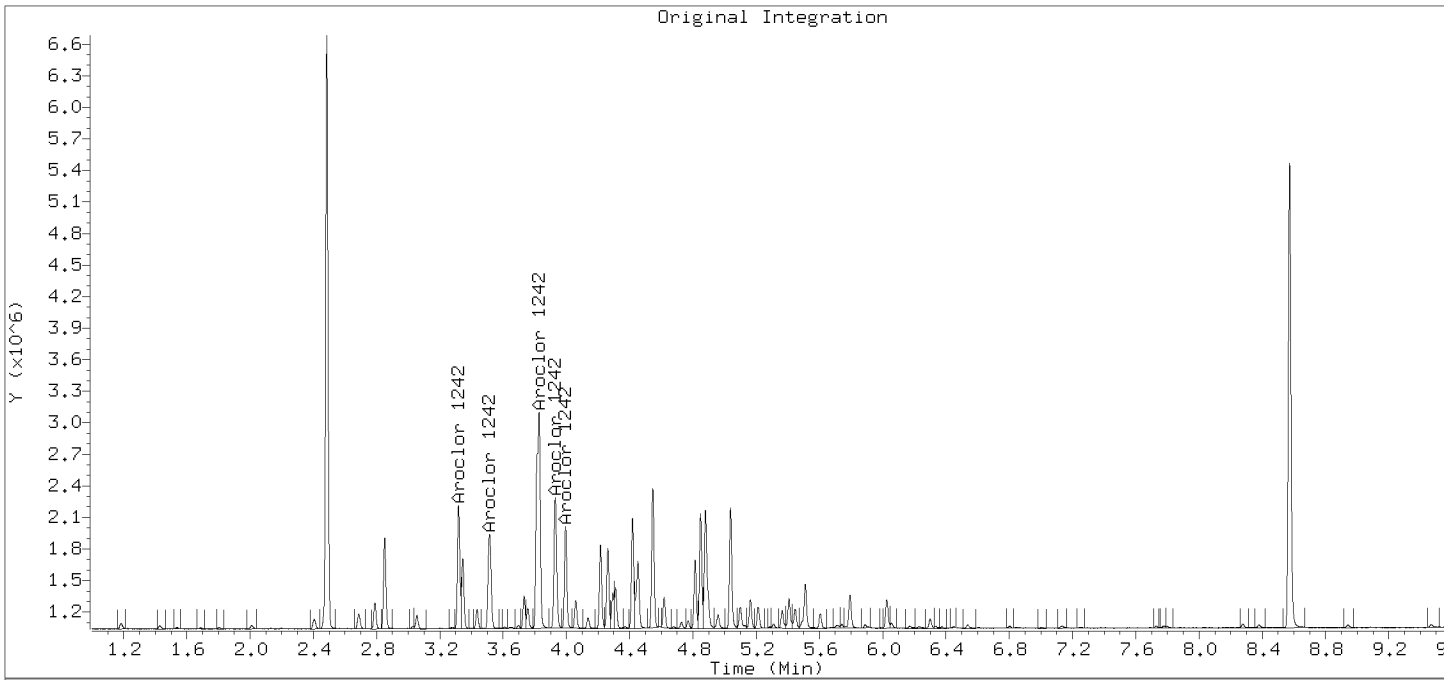
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

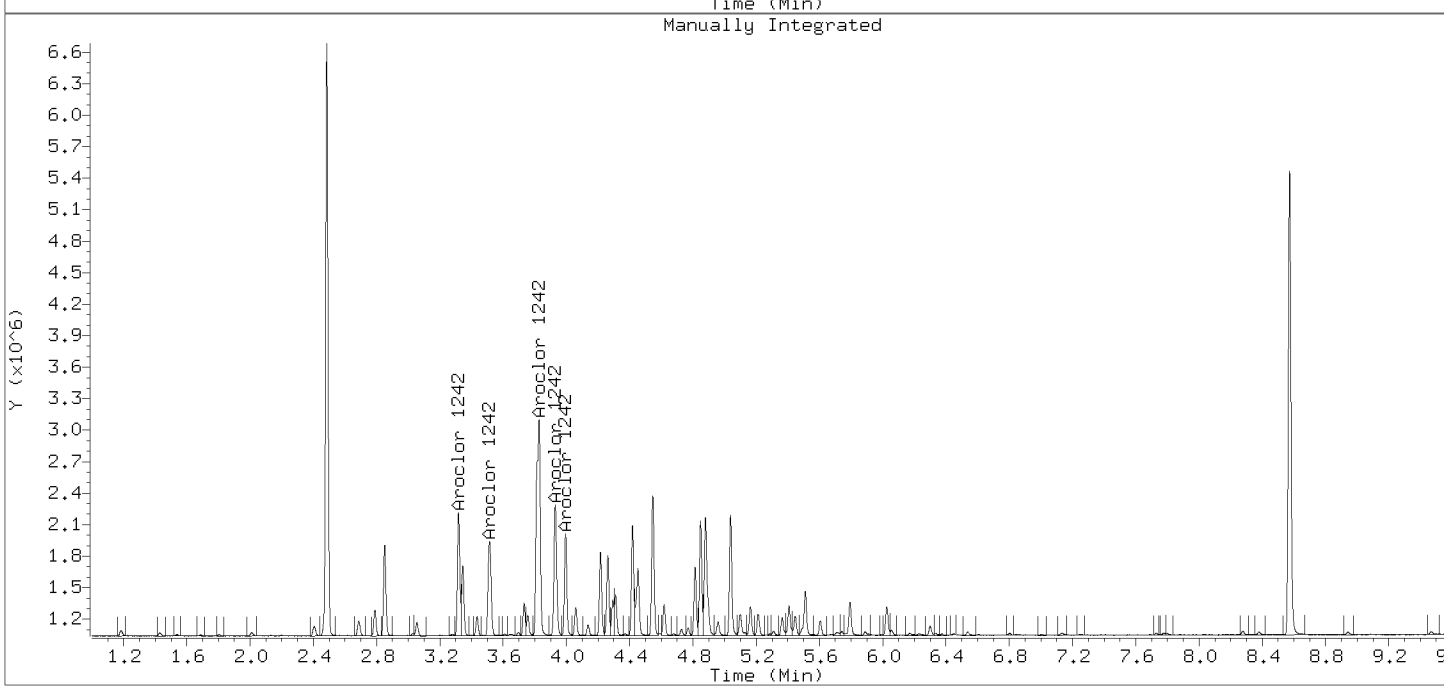
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618026.D
Date : 06-MAR-2018 14:16
Client ID: 1242-CAL3B
Sample Info: 1242-CAL3B, 185544:1

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

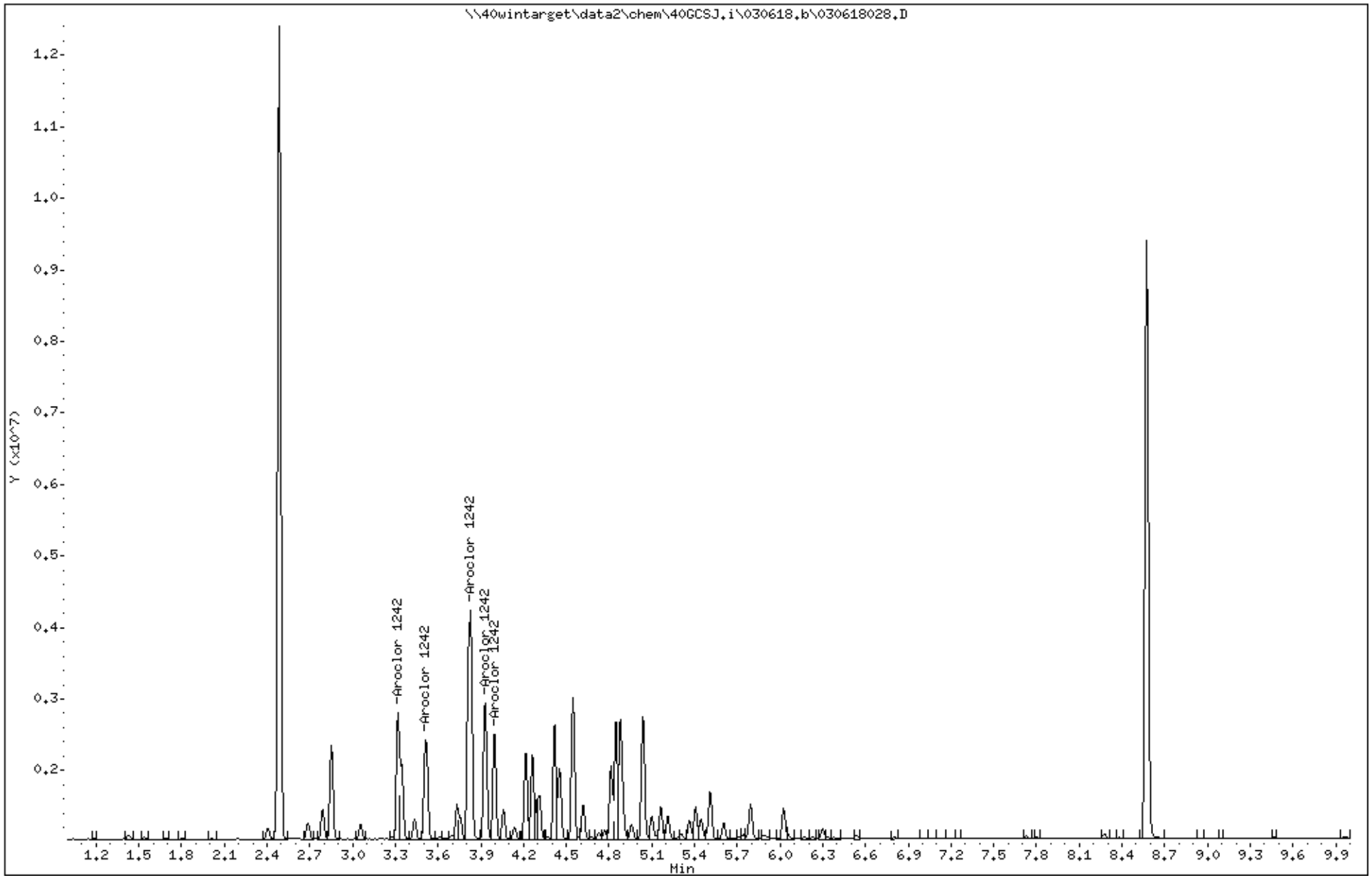
Instrument: 40GCSJ.i

Sample Info: 1242-CAL4B, 185545:1

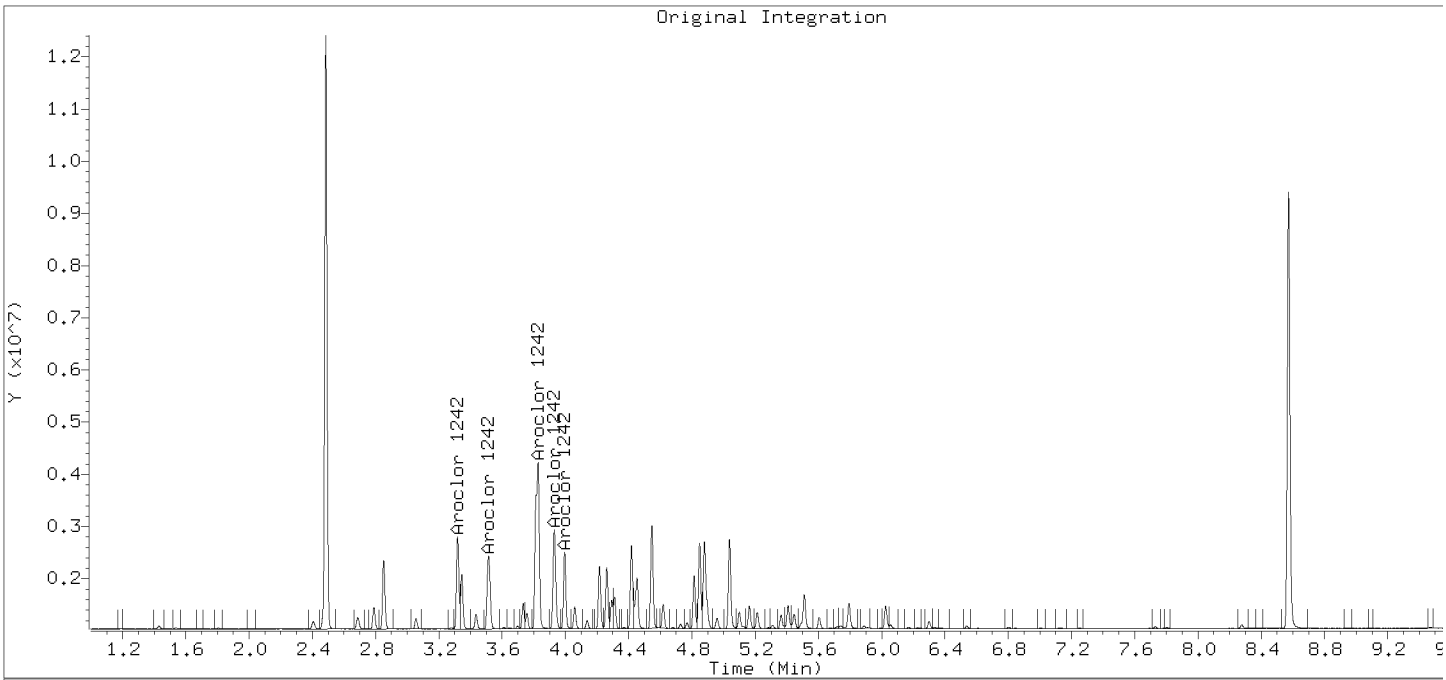
Operator: BLM

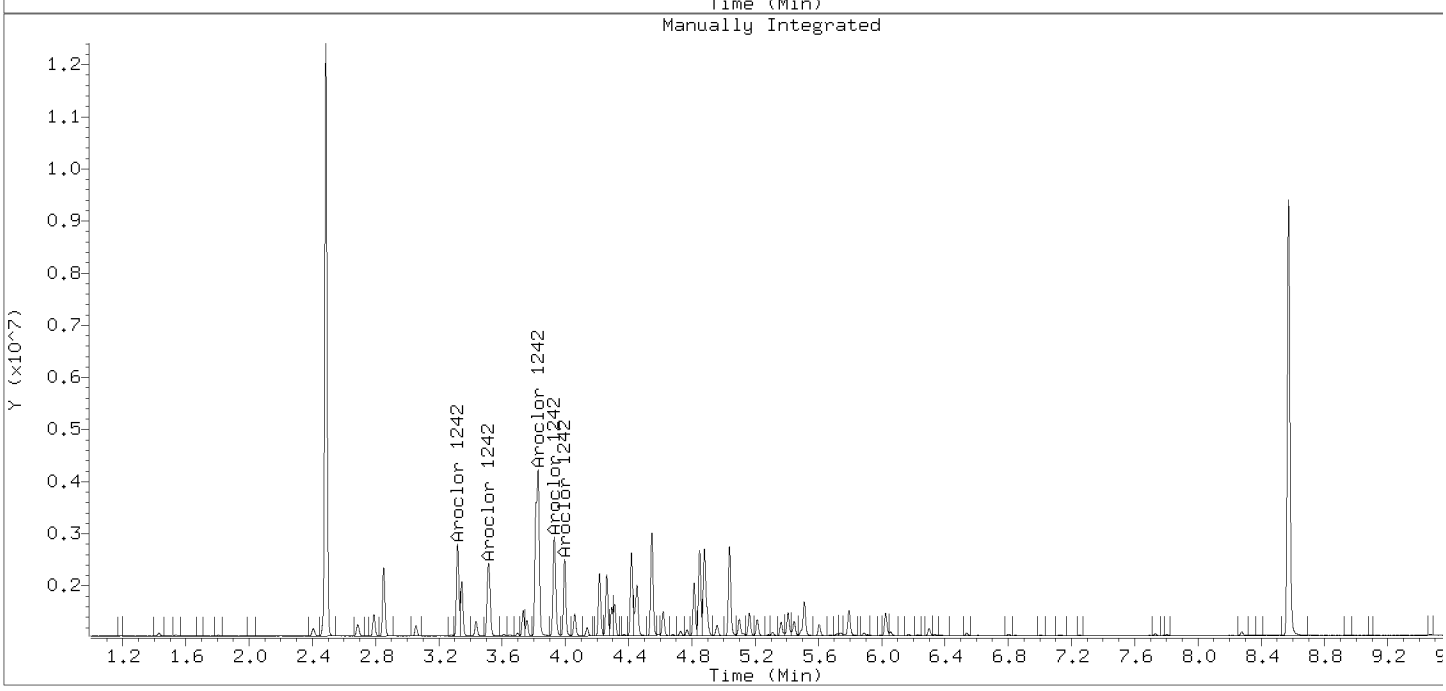
Column phase: ZB-1ms

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

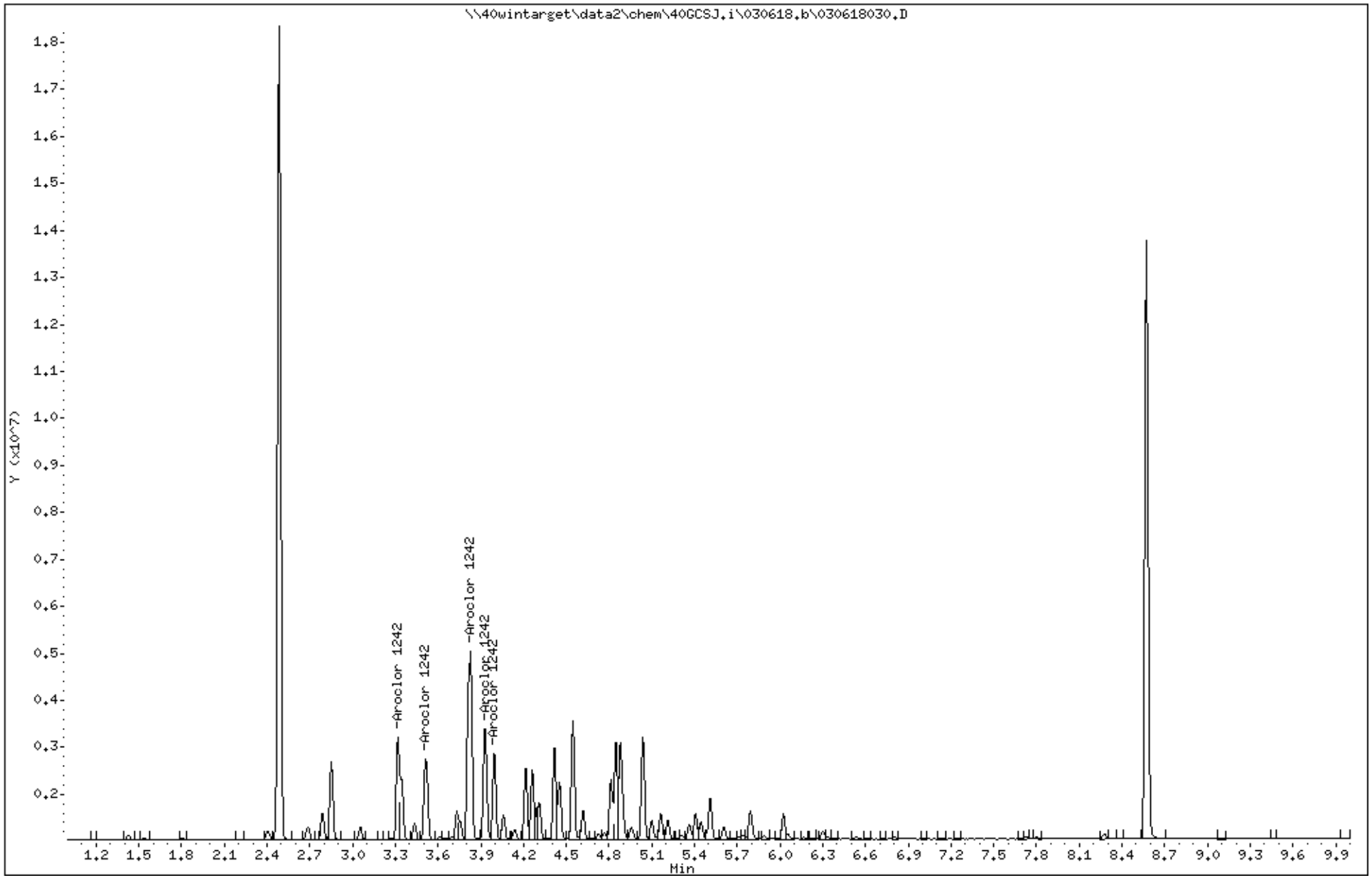
M - Compound response manually integrated.

Review Codes Legend

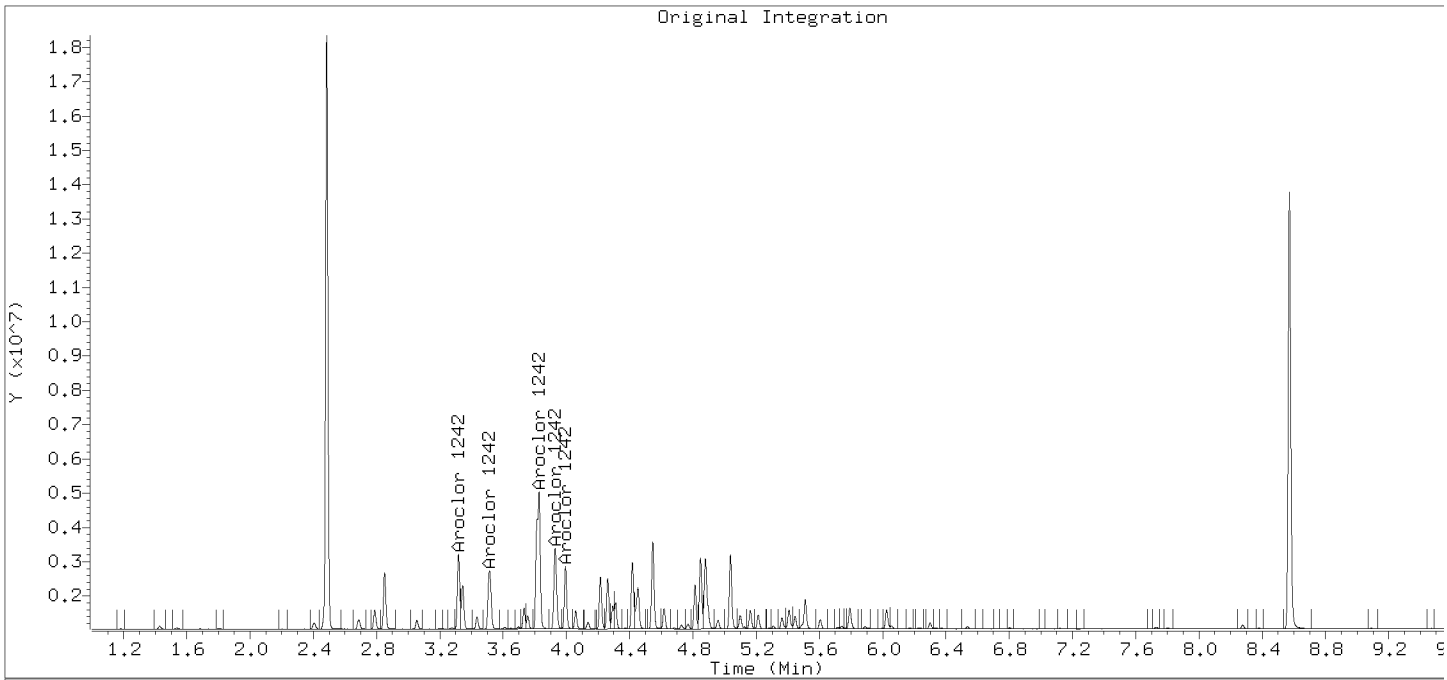
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

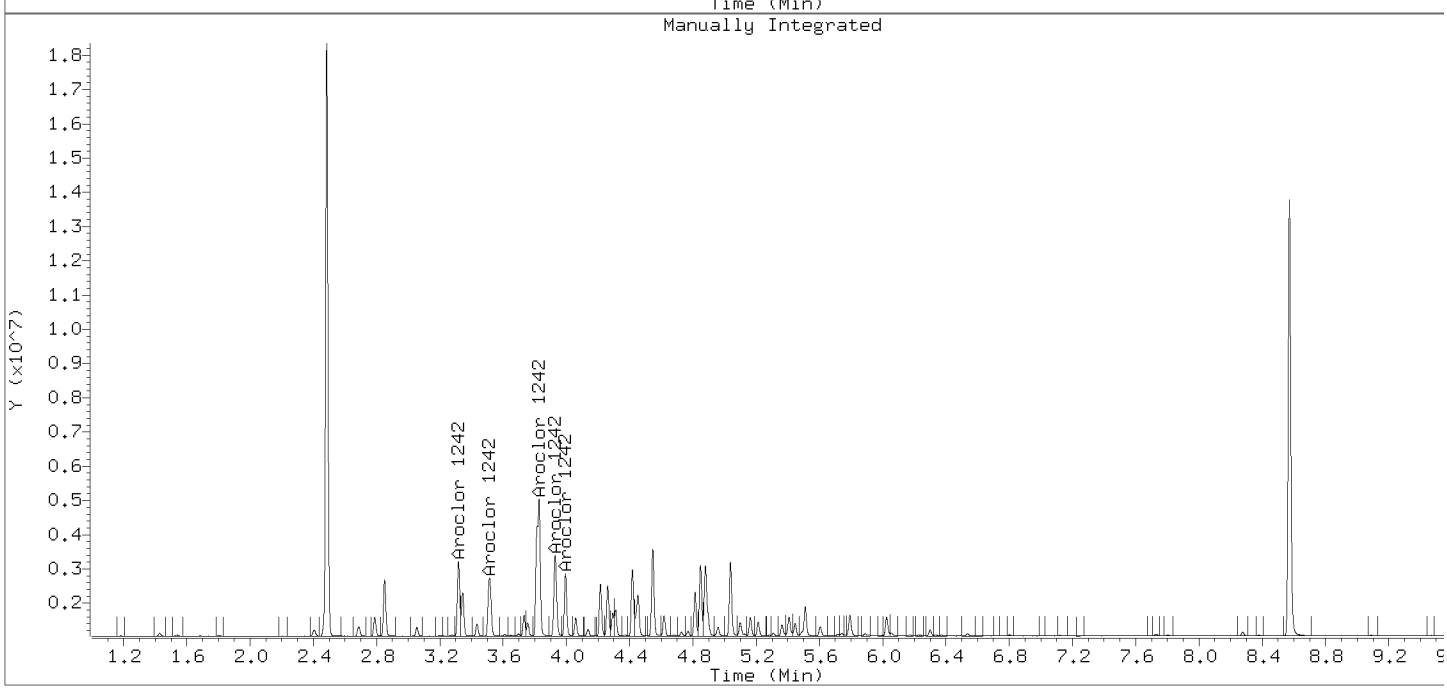
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618030.D
Date : 06-MAR-2018 14:48
Client ID: 1242-CAL5B
Sample Info: 1242-CAL5B, 185546:1

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.

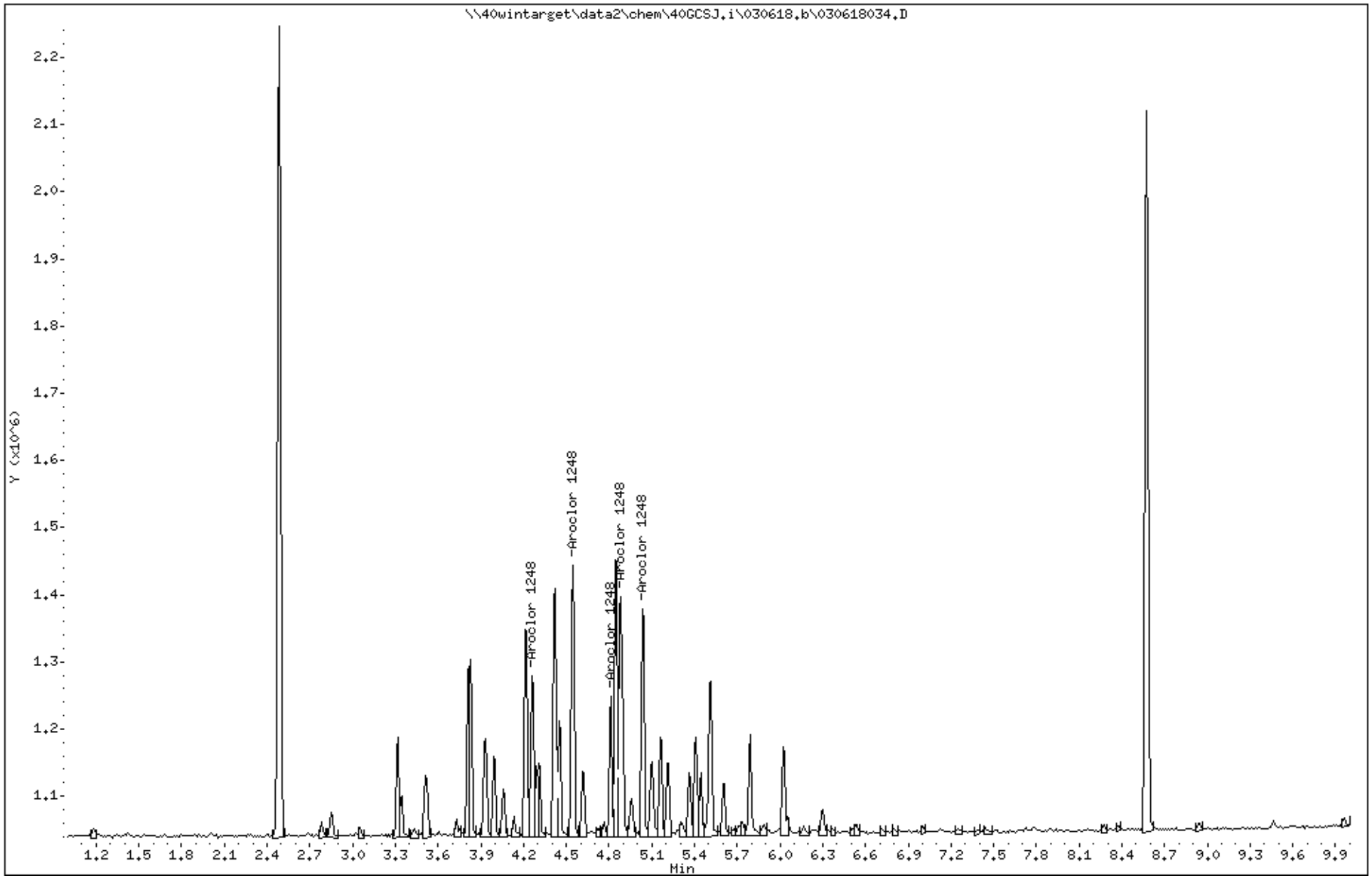
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618034.D
Date : 06-MAR-2018 15:21
Client ID: 1248-CAL1D
Sample Info: 1248-CAL1D, 188134:1

Instrument: 40GCSJ.i

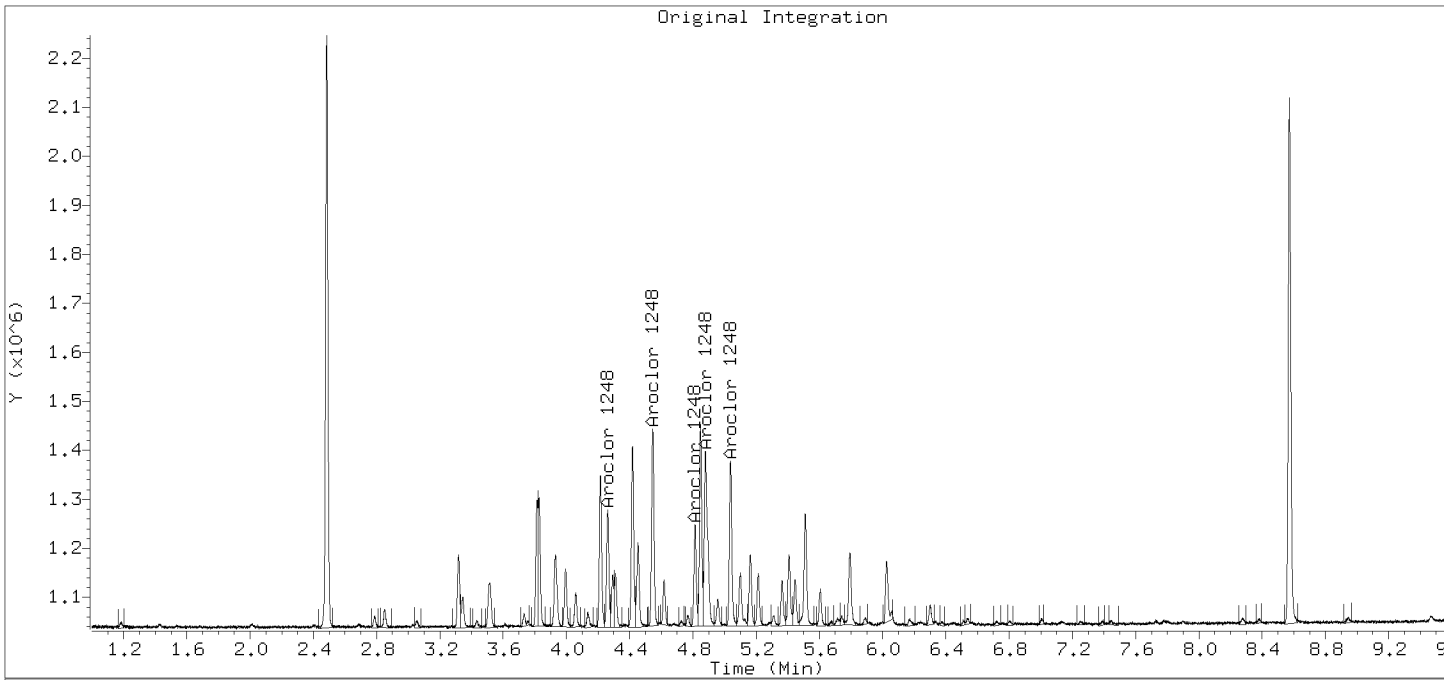
Operator: BLM

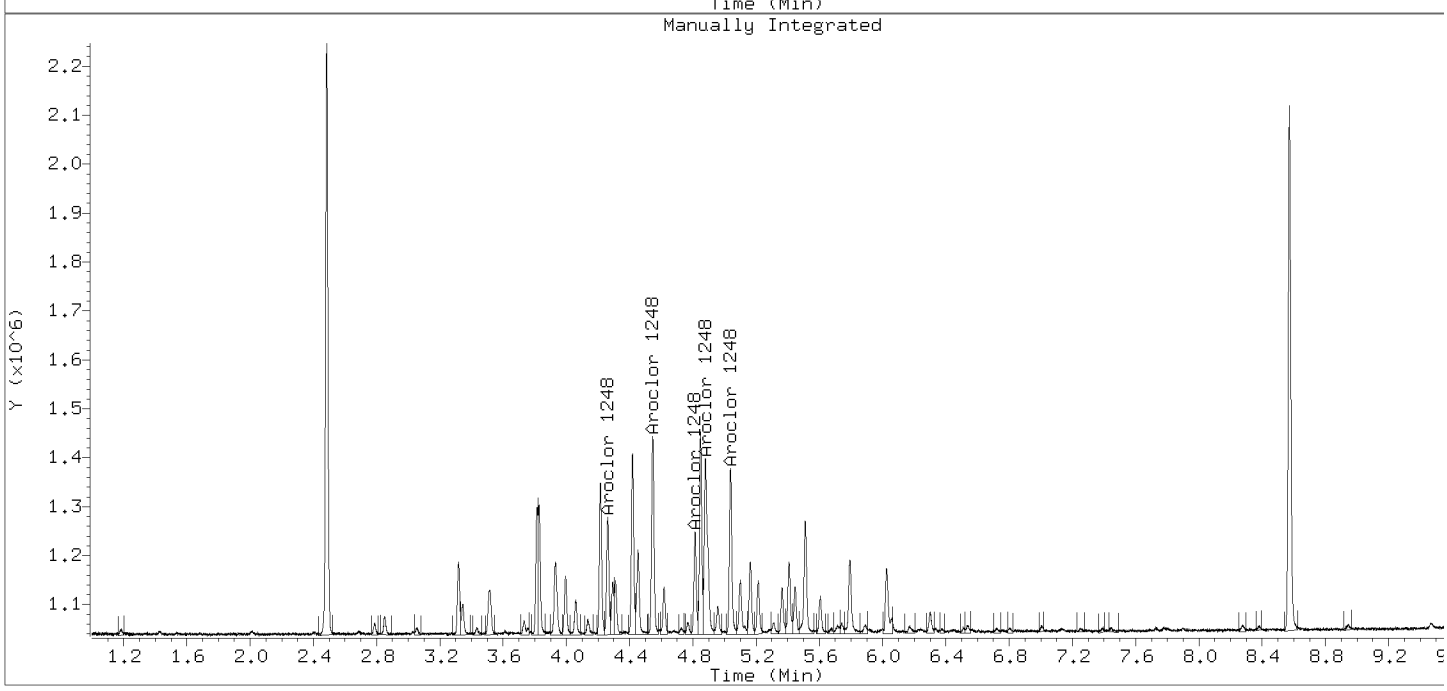
Column phase: ZB-1ms

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

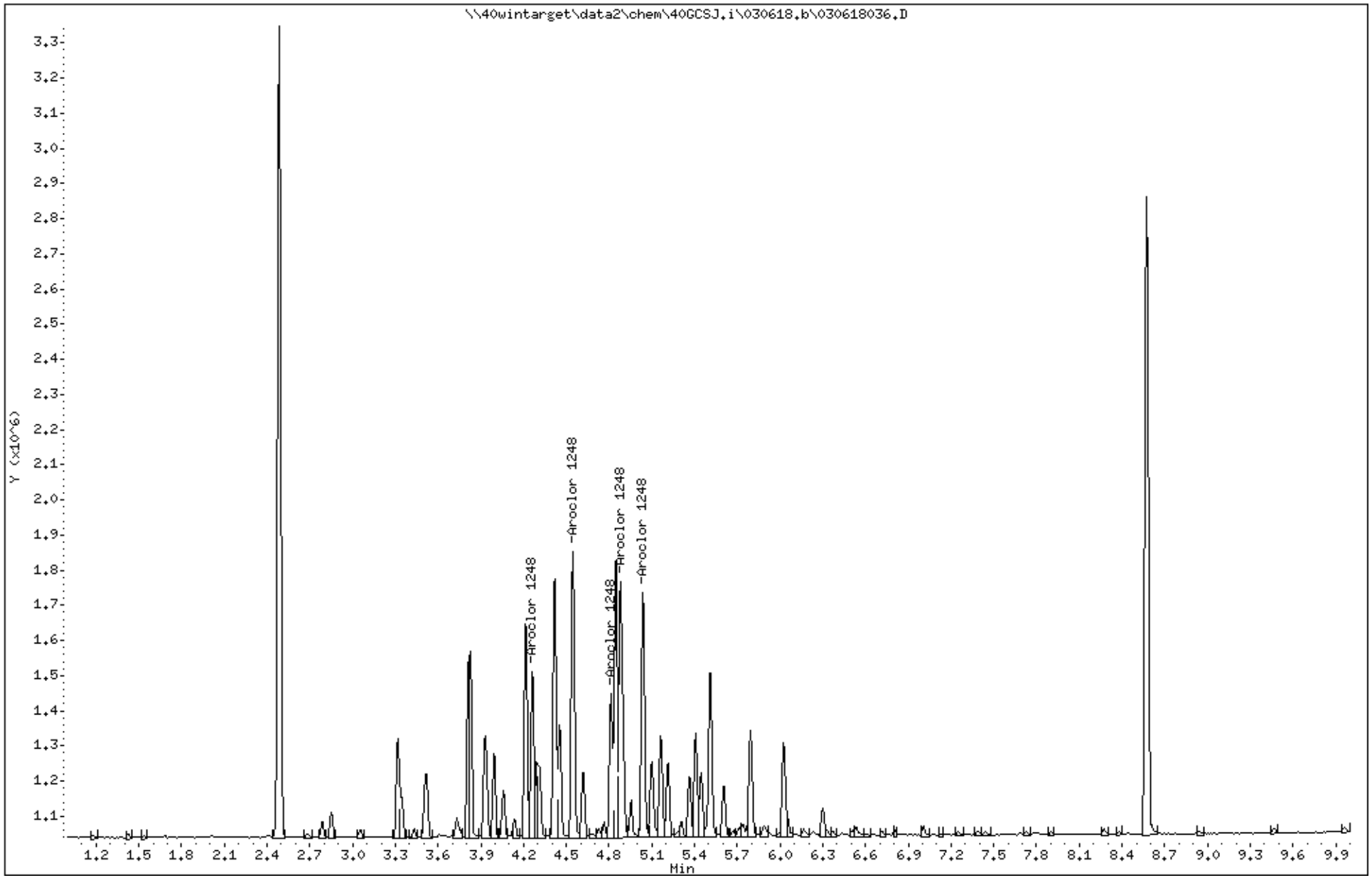
Instrument: 40GCSJ.i

Sample Info: 1248-CAL2D, 185548:1

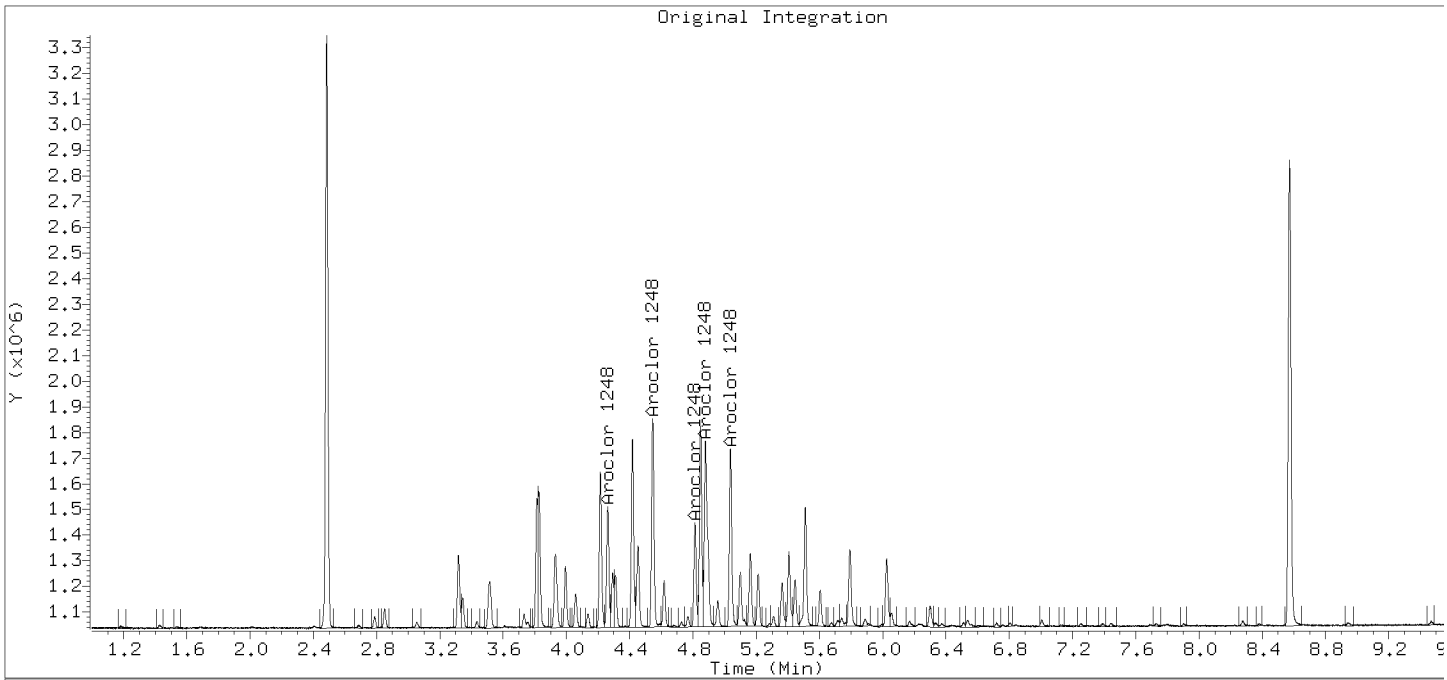
Operator: BLM

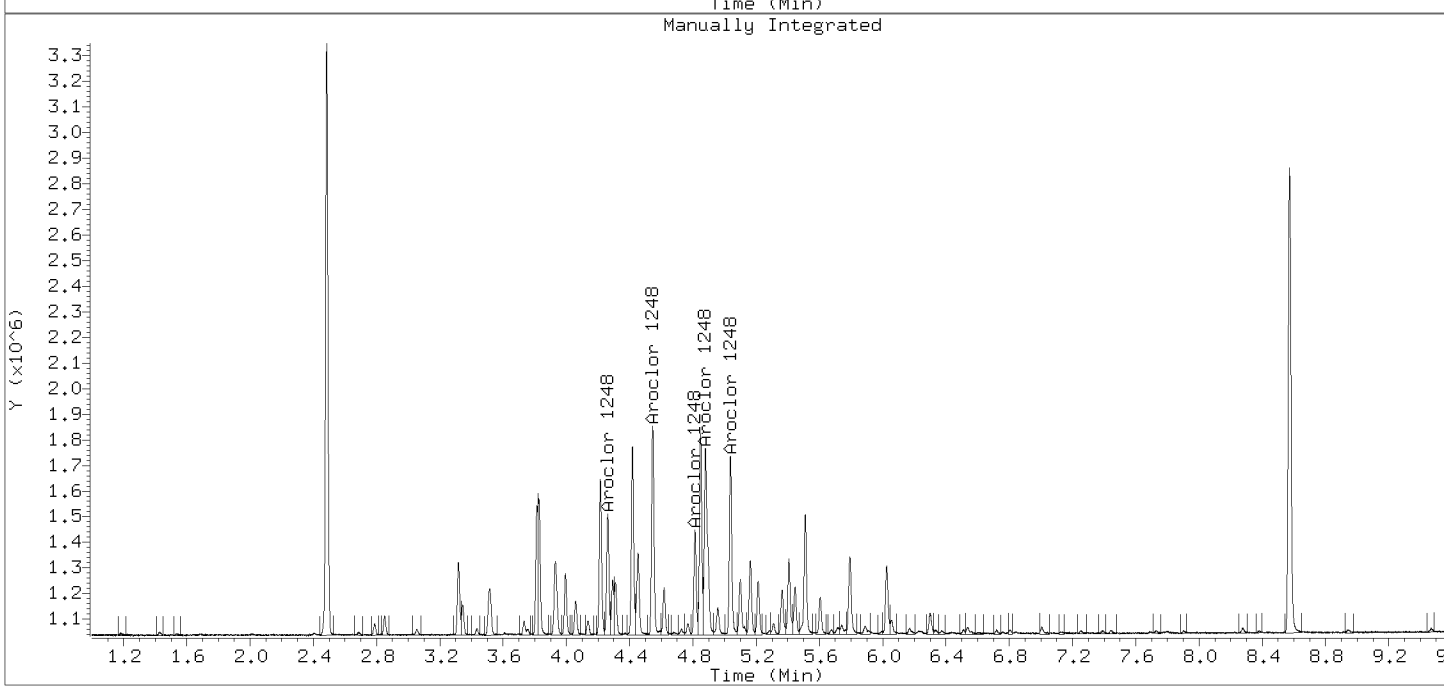
Column phase: ZB-1ms

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

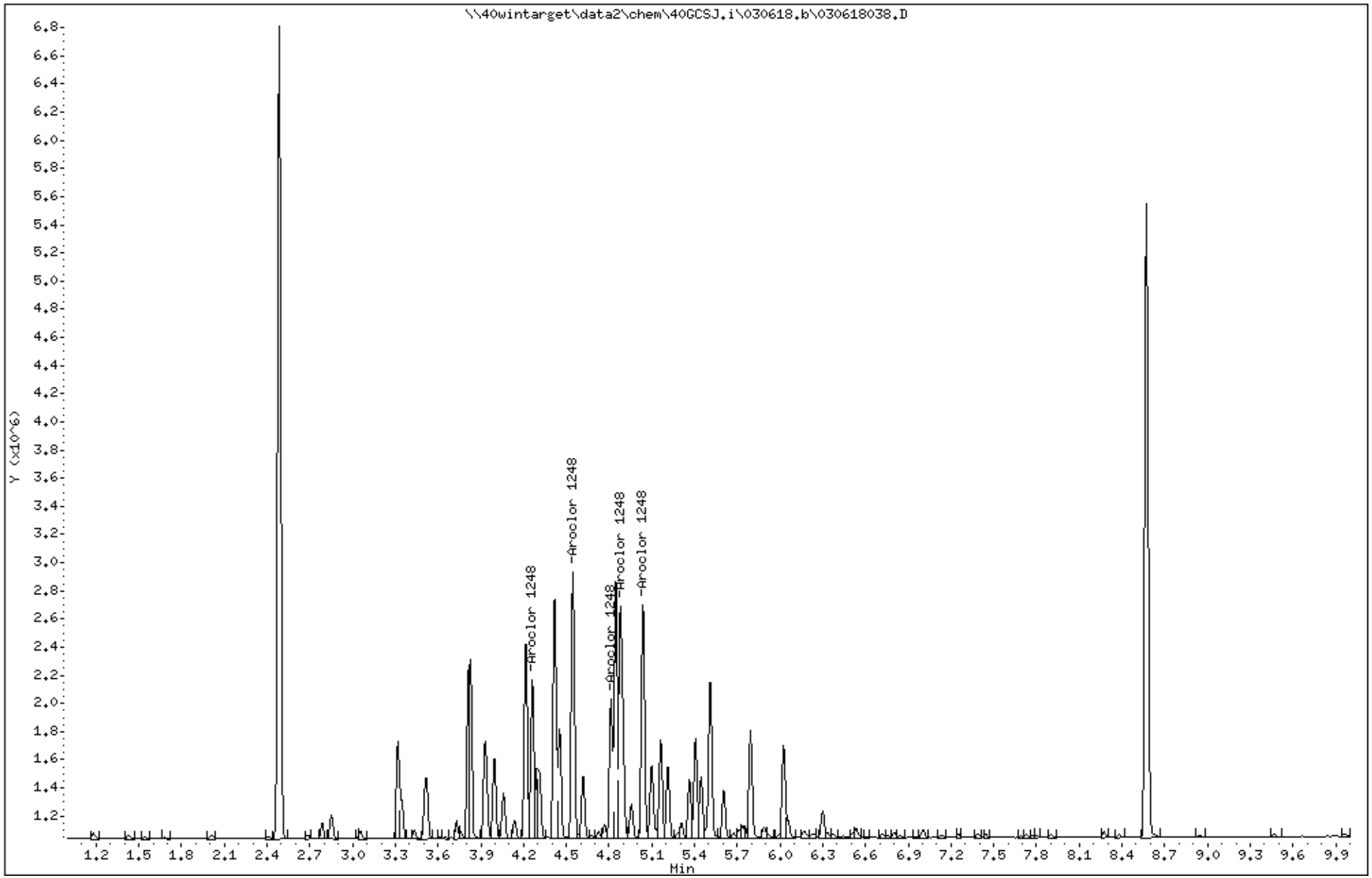
M - Compound response manually integrated.

Review Codes Legend

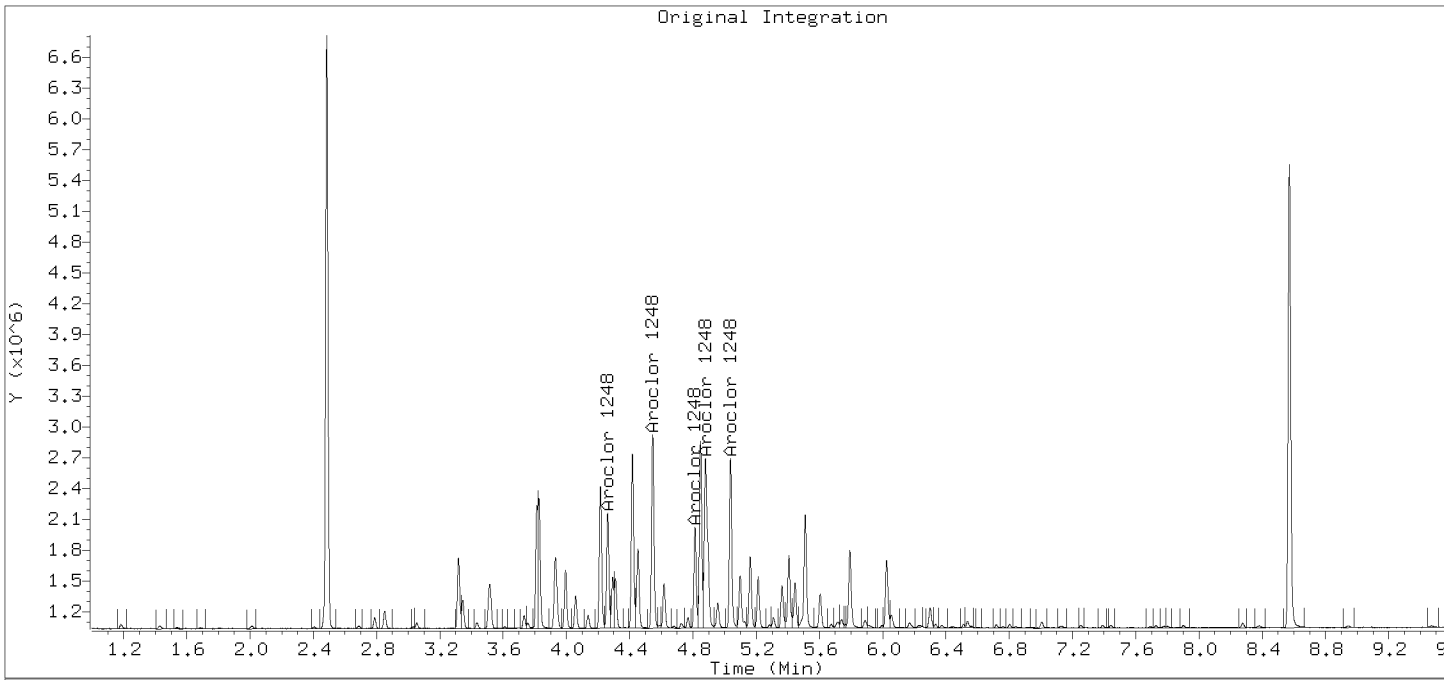
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

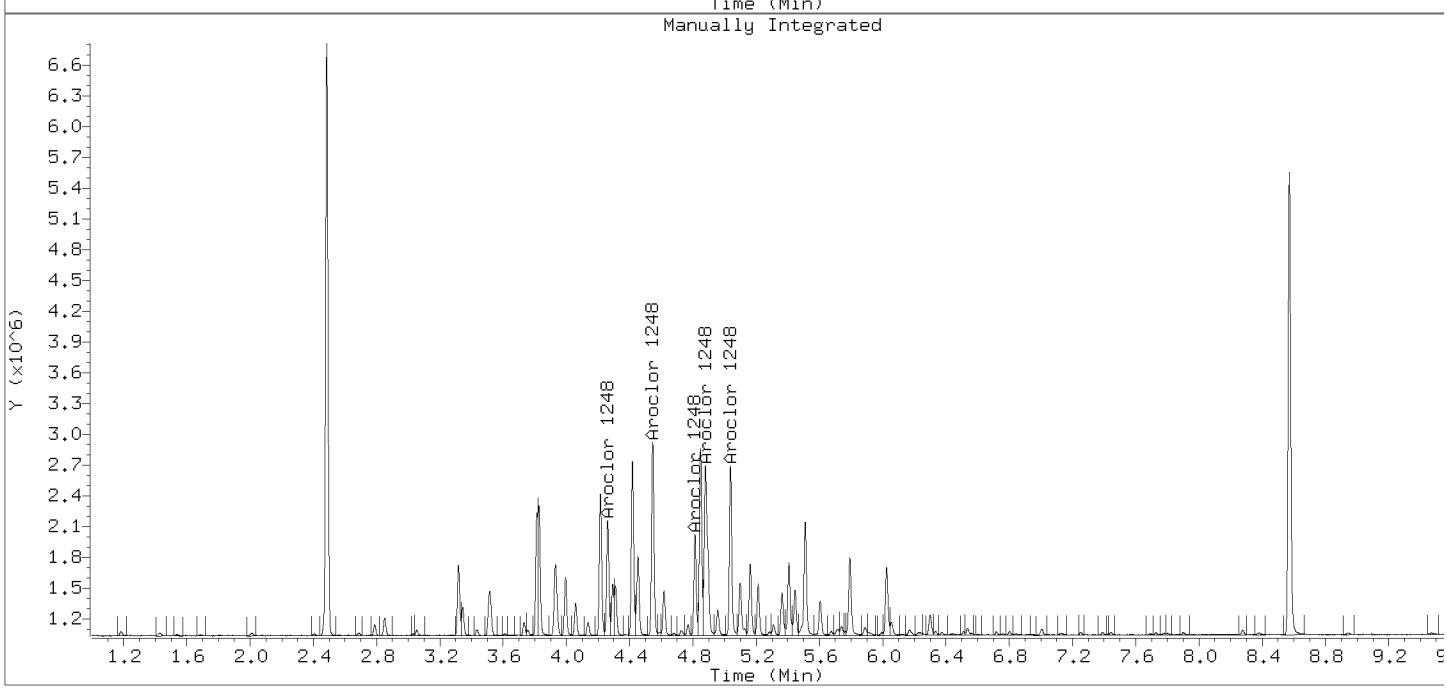
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618038.D
Date : 06-MAR-2018 15:53
Client ID: 1248-CAL3D
Sample Info: 1248-CAL3D, 185549:1

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

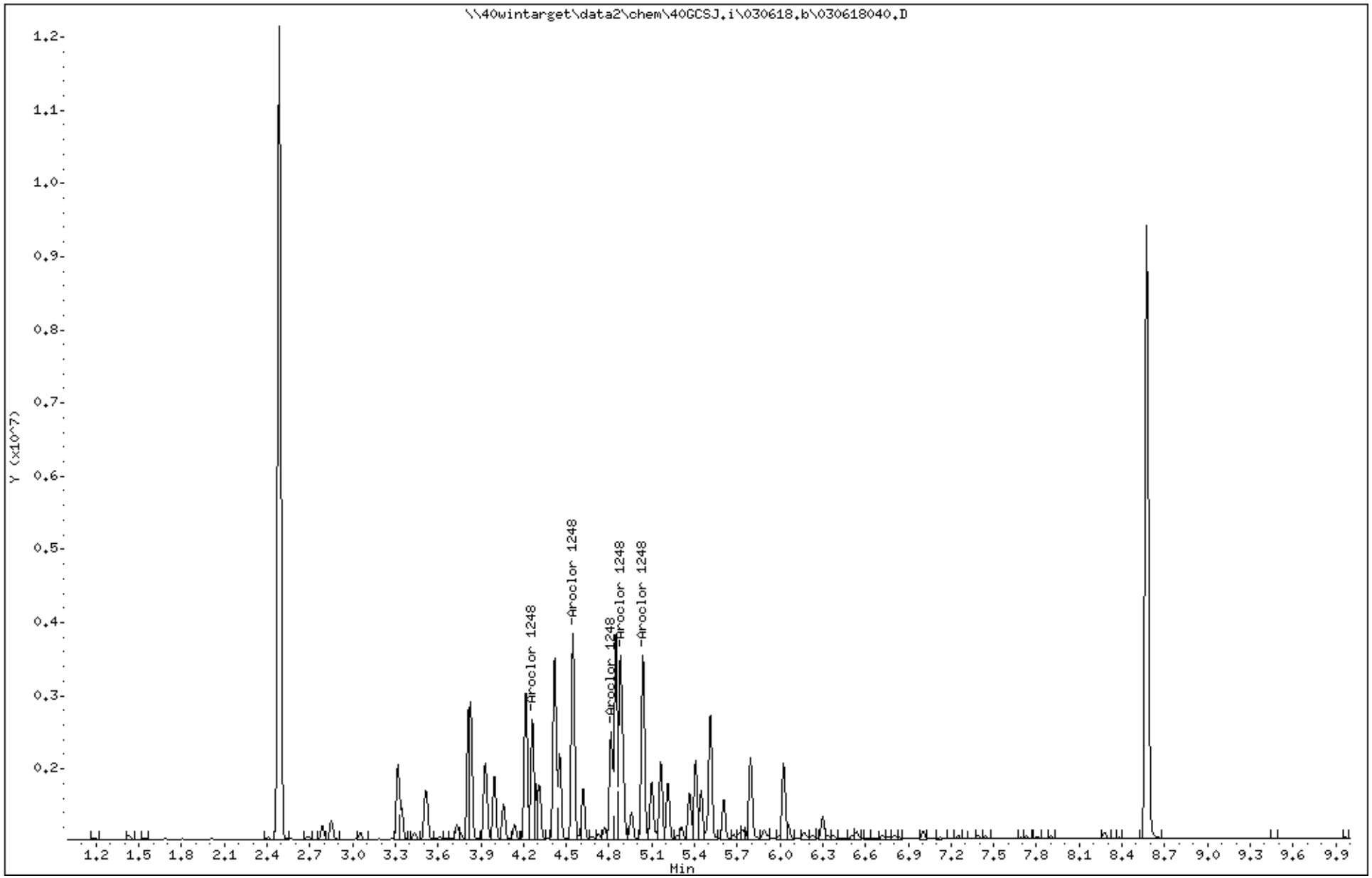
Instrument: 40GCSJ.i

Sample Info: 1248-CAL4D, 185550:1

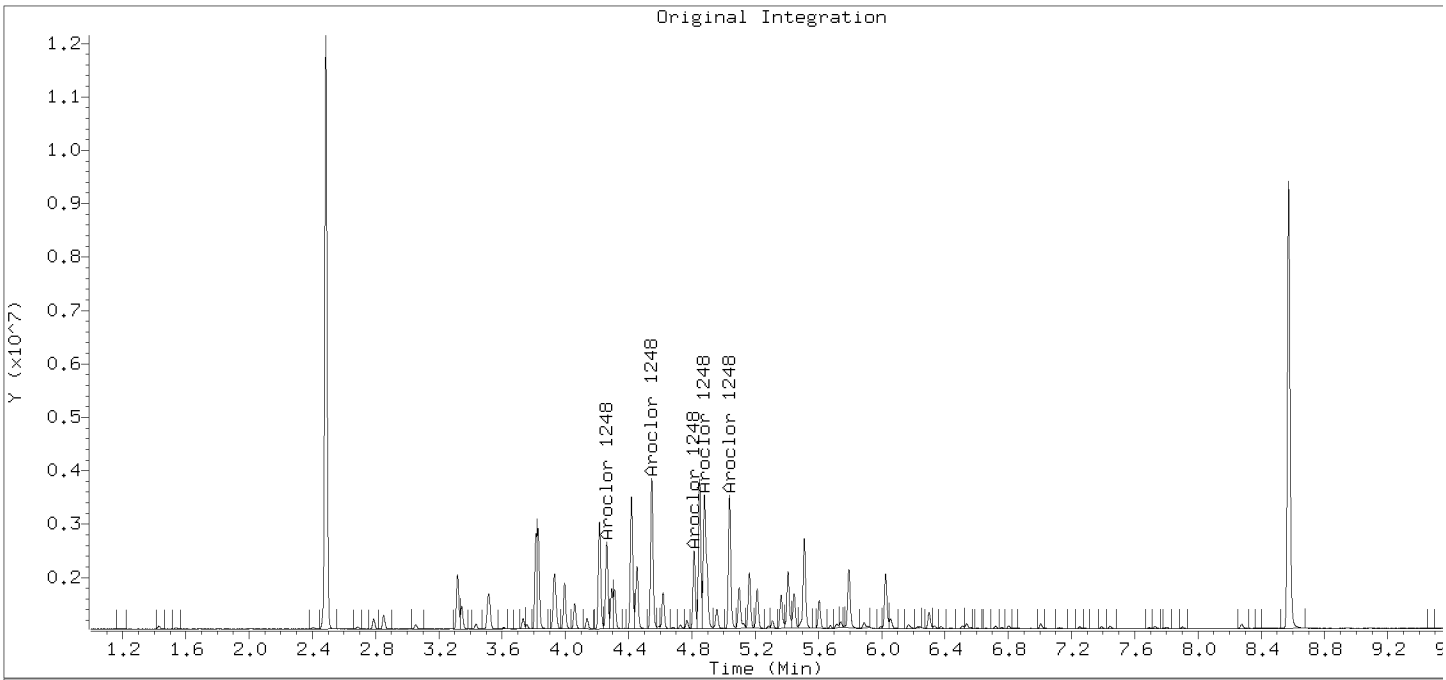
Operator: BLM

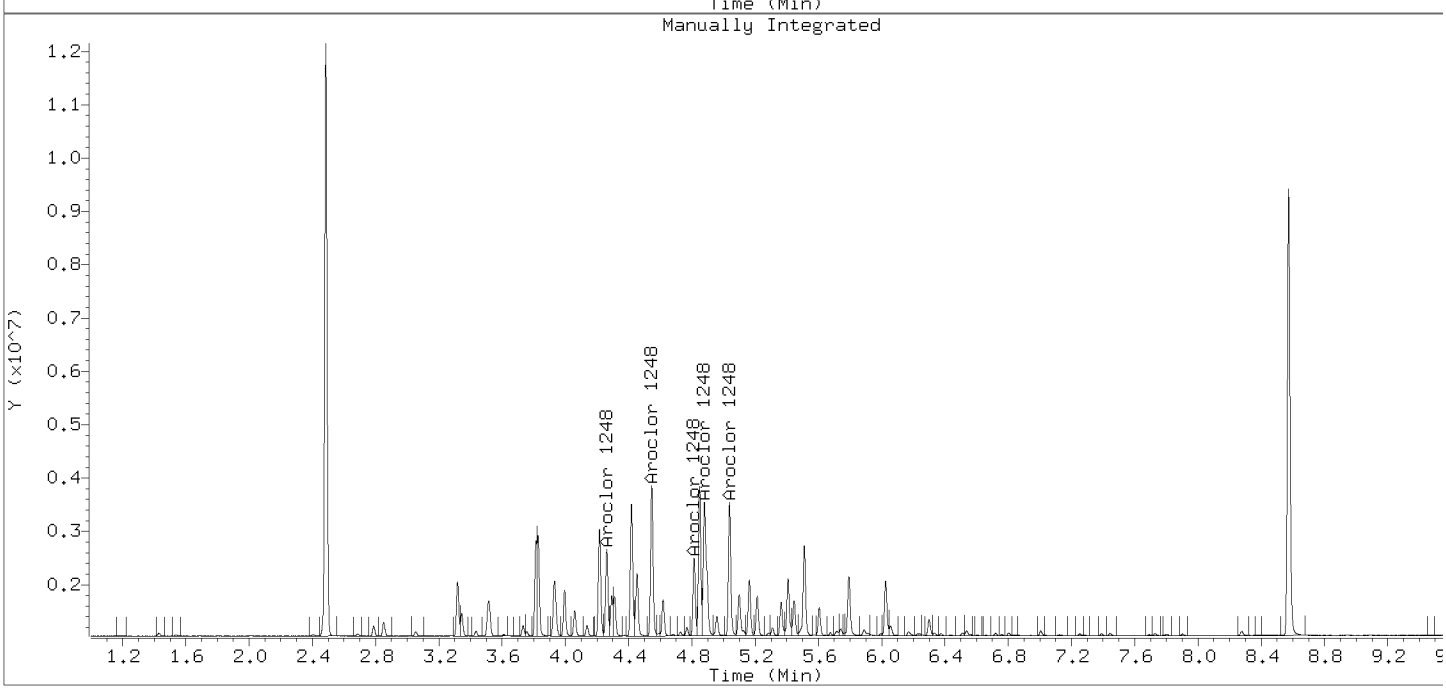
Column phase: ZB-1ms

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

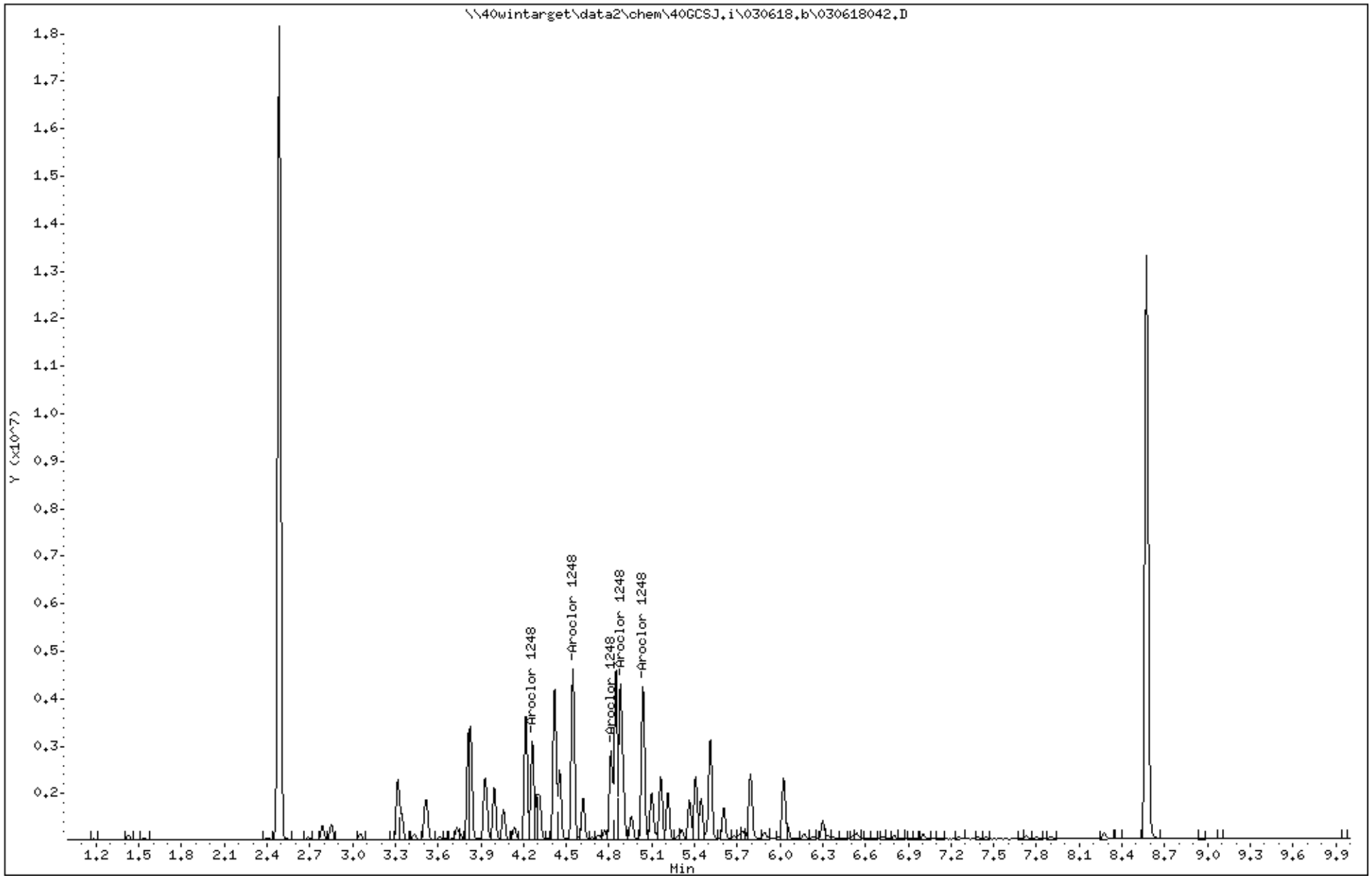
Instrument: 40GCSJ.i

Sample Info: 1248-CAL5D, 185551:1

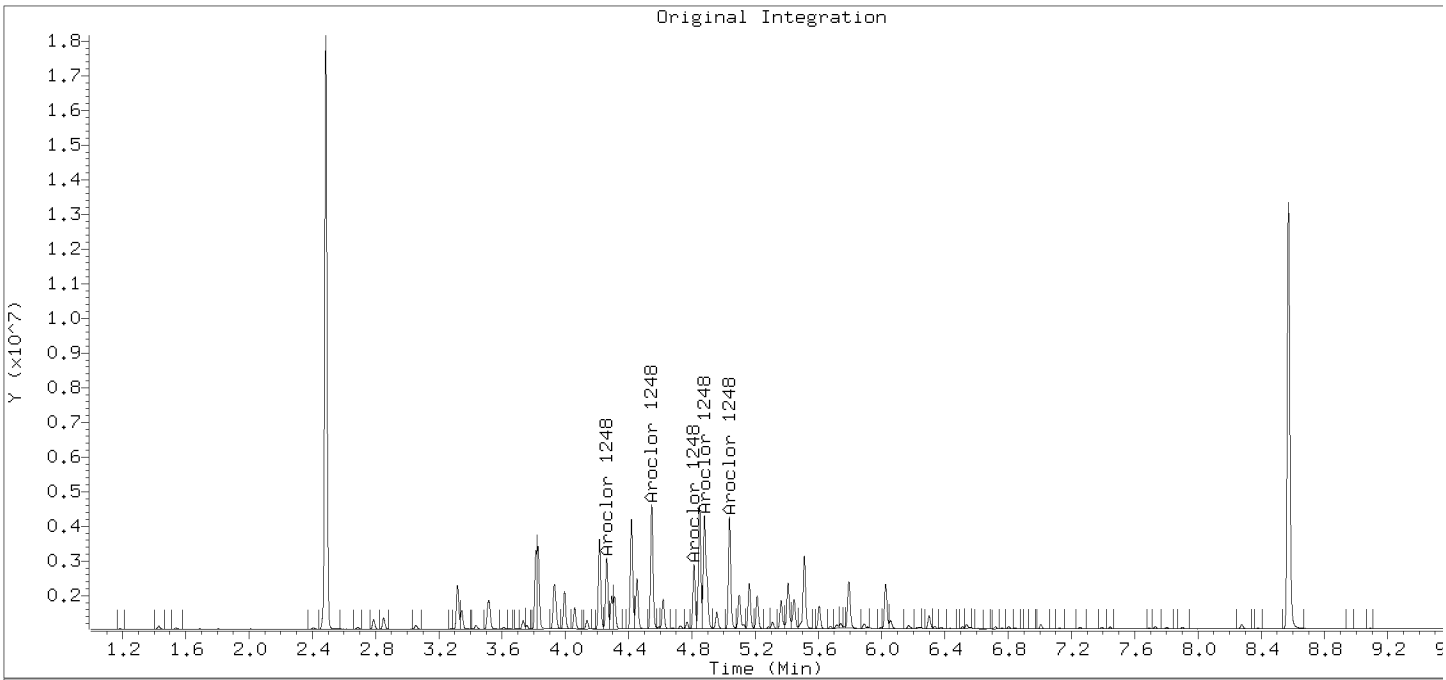
Operator: BLM

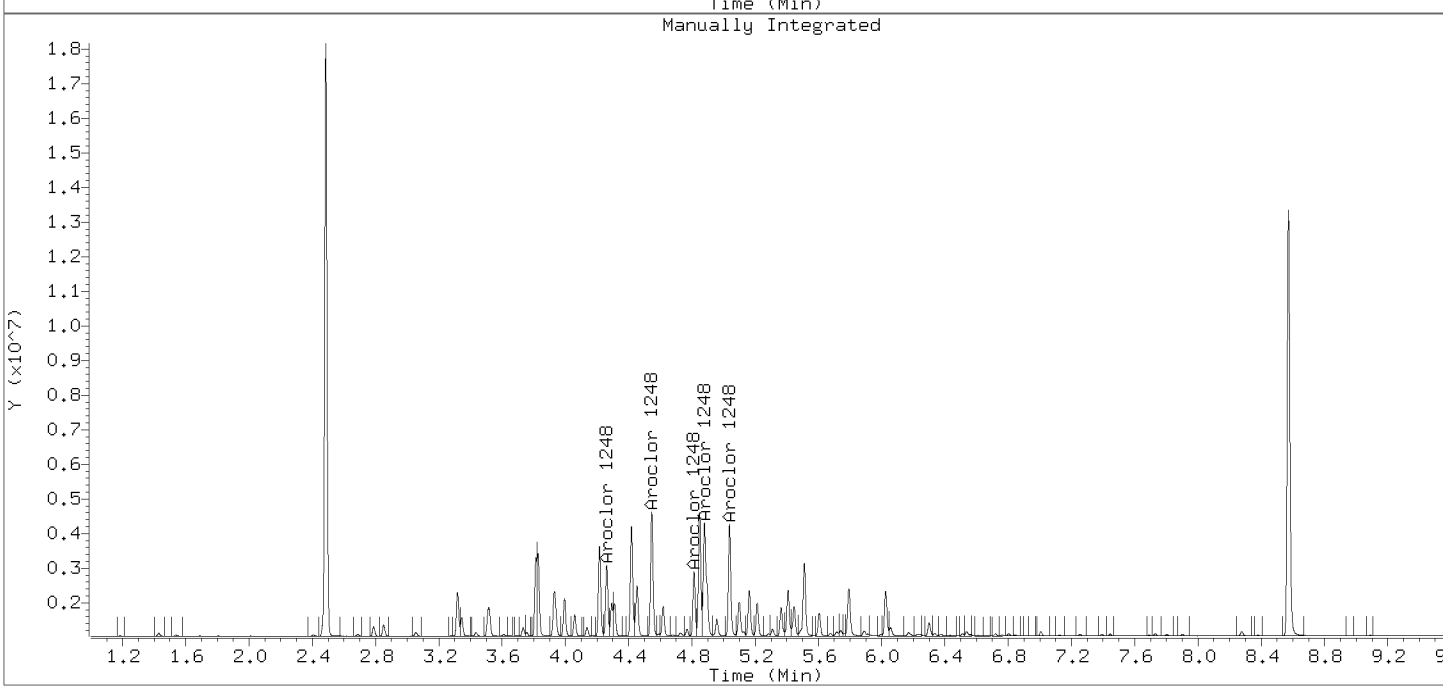
Column phase: ZB-1ms

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		

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

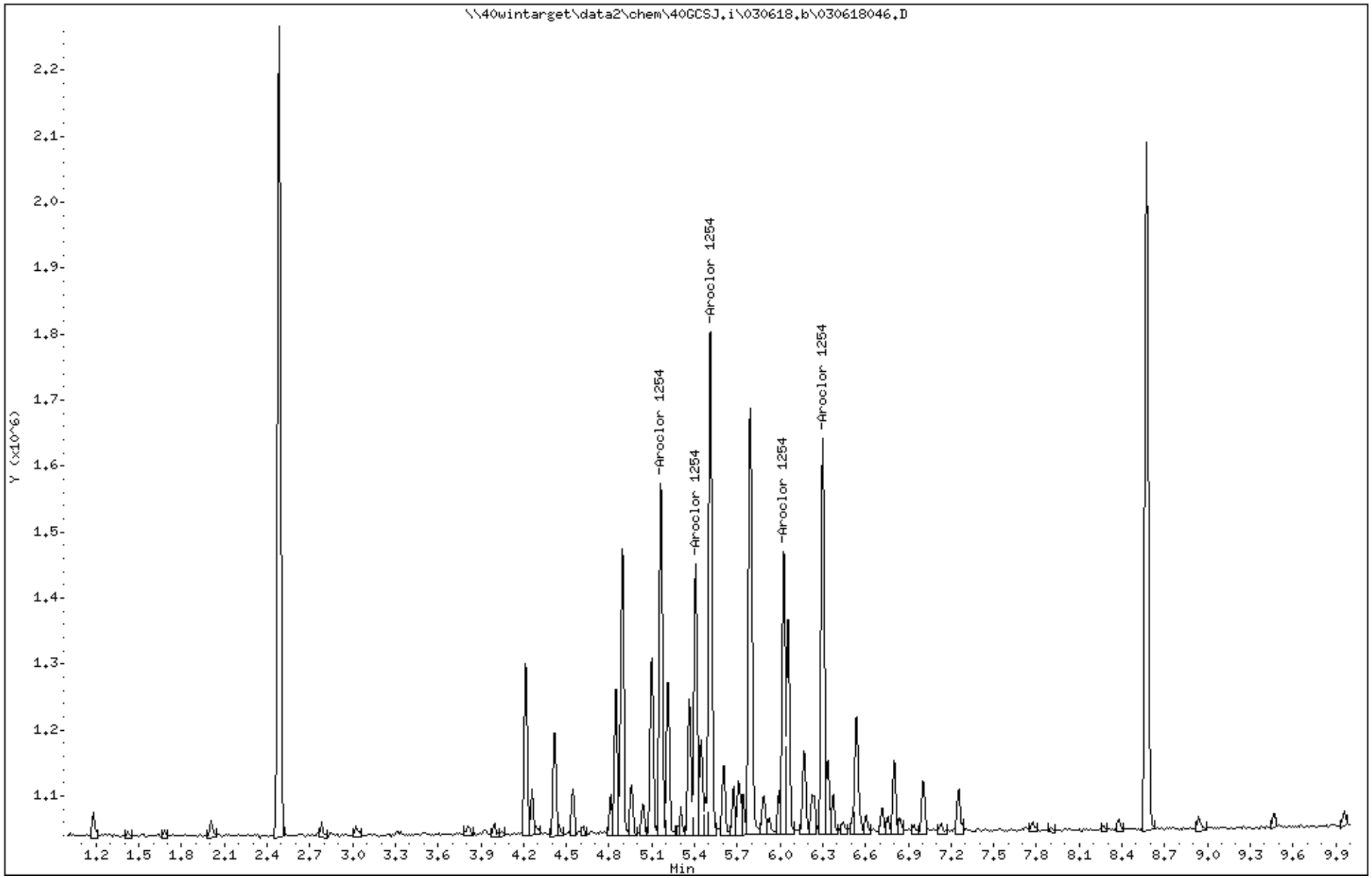
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618046.D
Date : 06-MAR-2018 16:57
Client ID: 1254-CAL1C
Sample Info: 1254-CAL1C, 188135:1

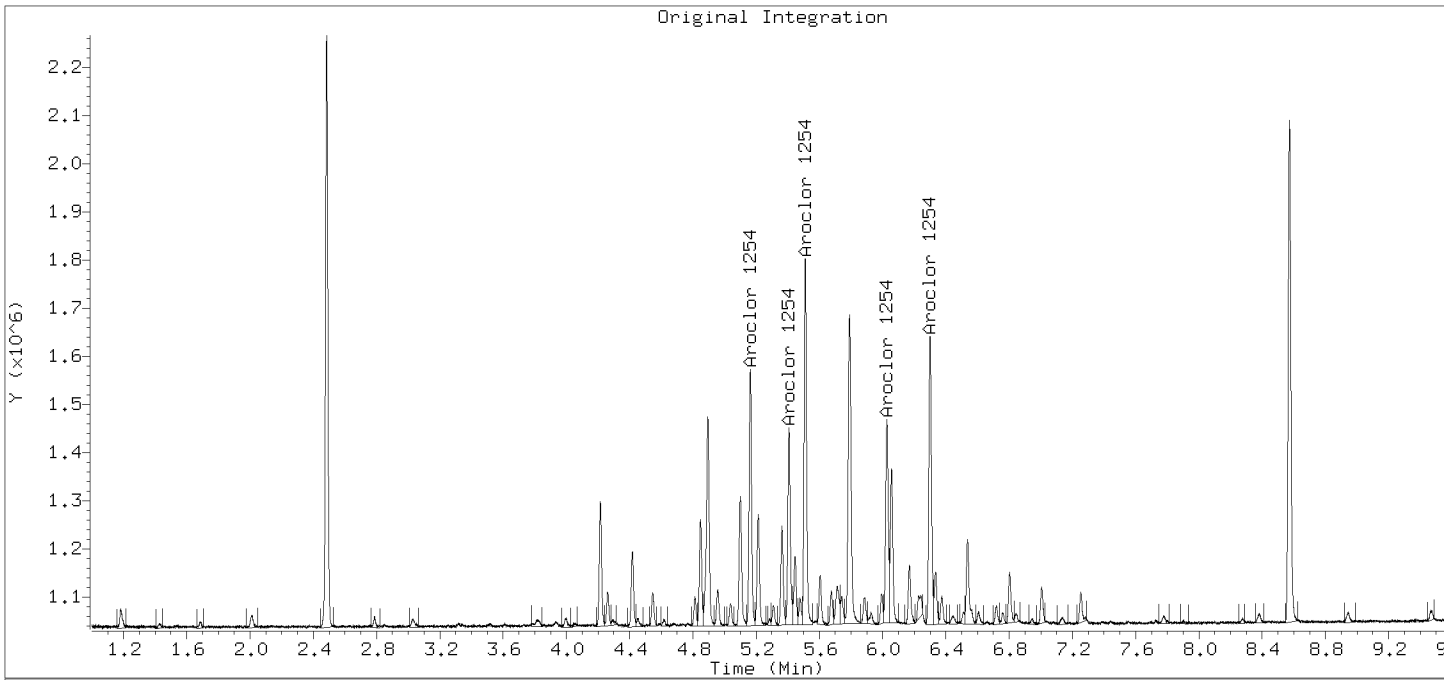
Column phase: ZB-1ms

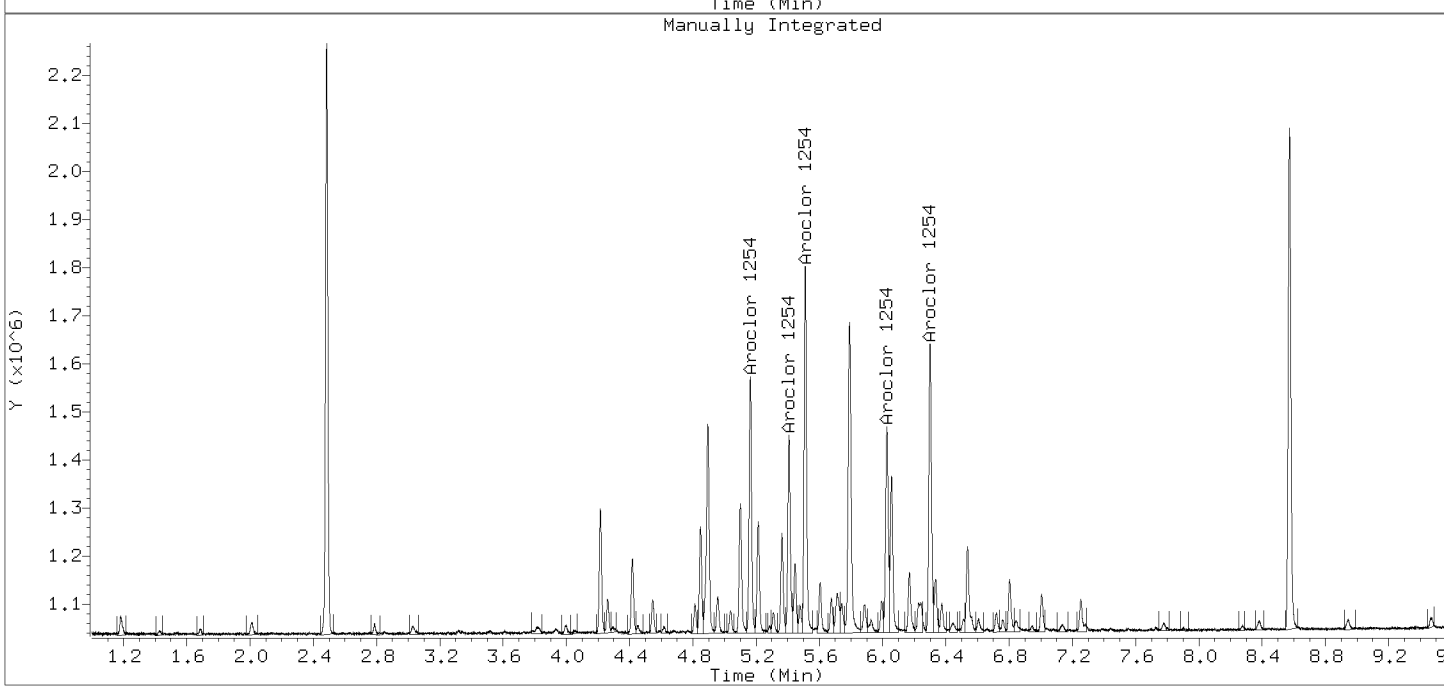
Instrument: 40GCSJ.i

Operator: BLM
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

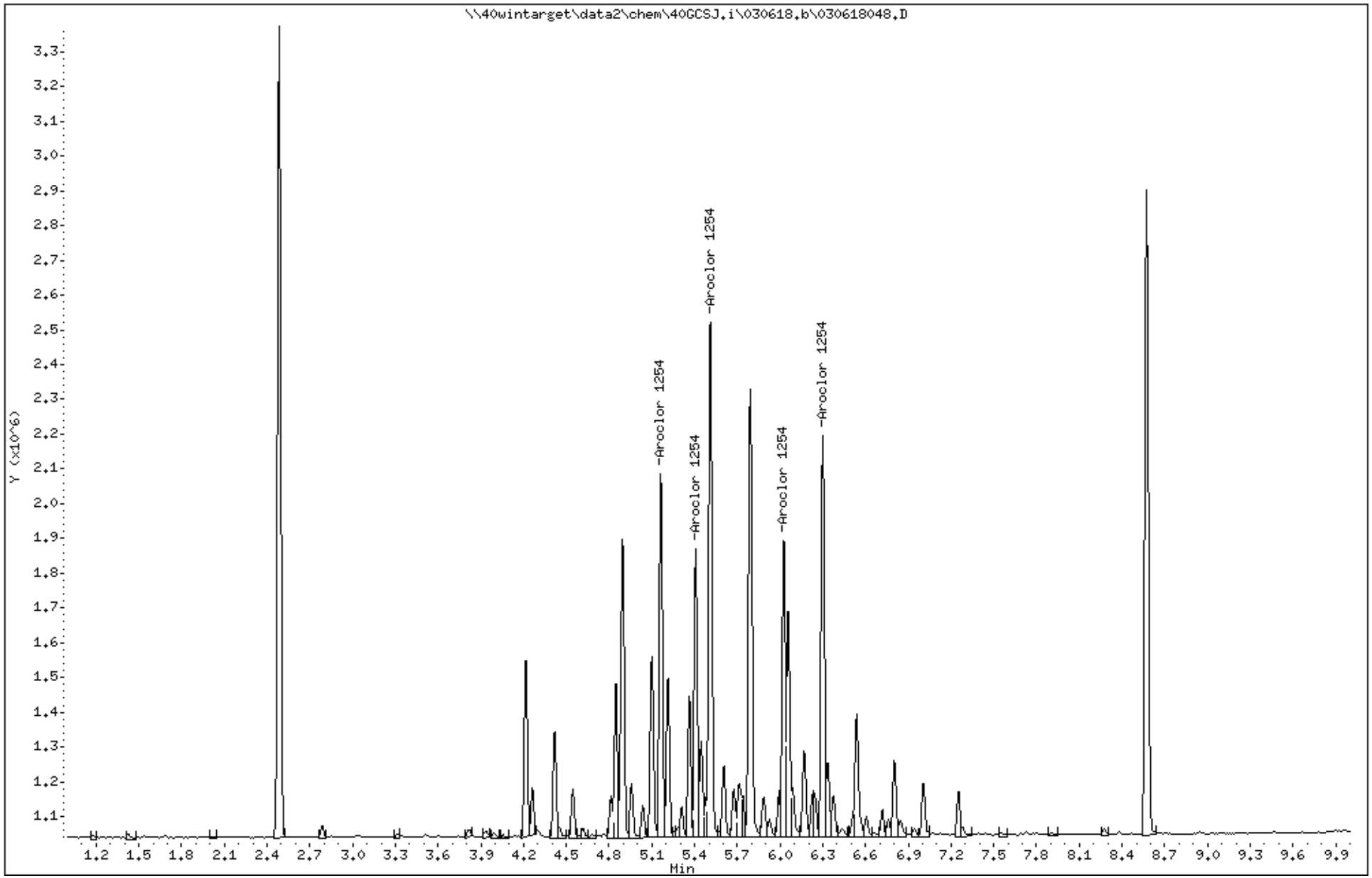
Instrument: 40GCSJ.i

Sample Info: 1254-CAL2C, 185553:1

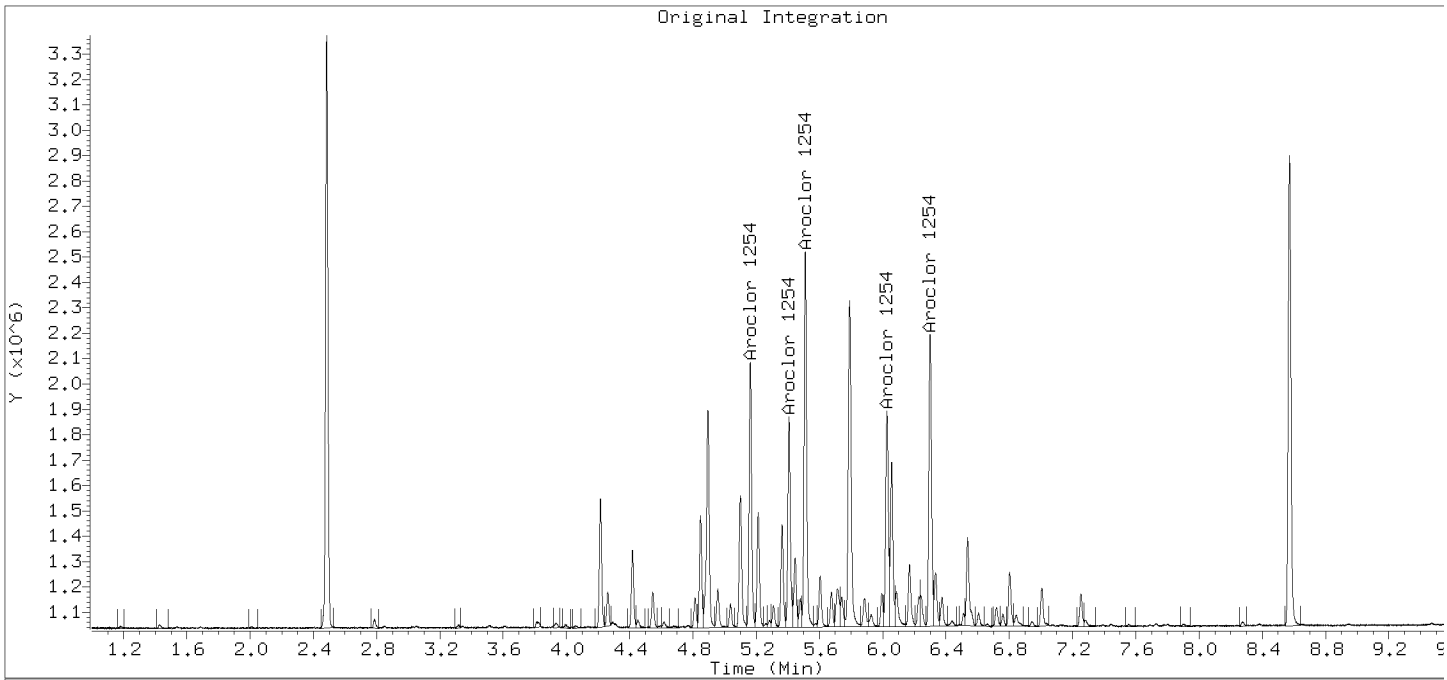
Operator: BLM

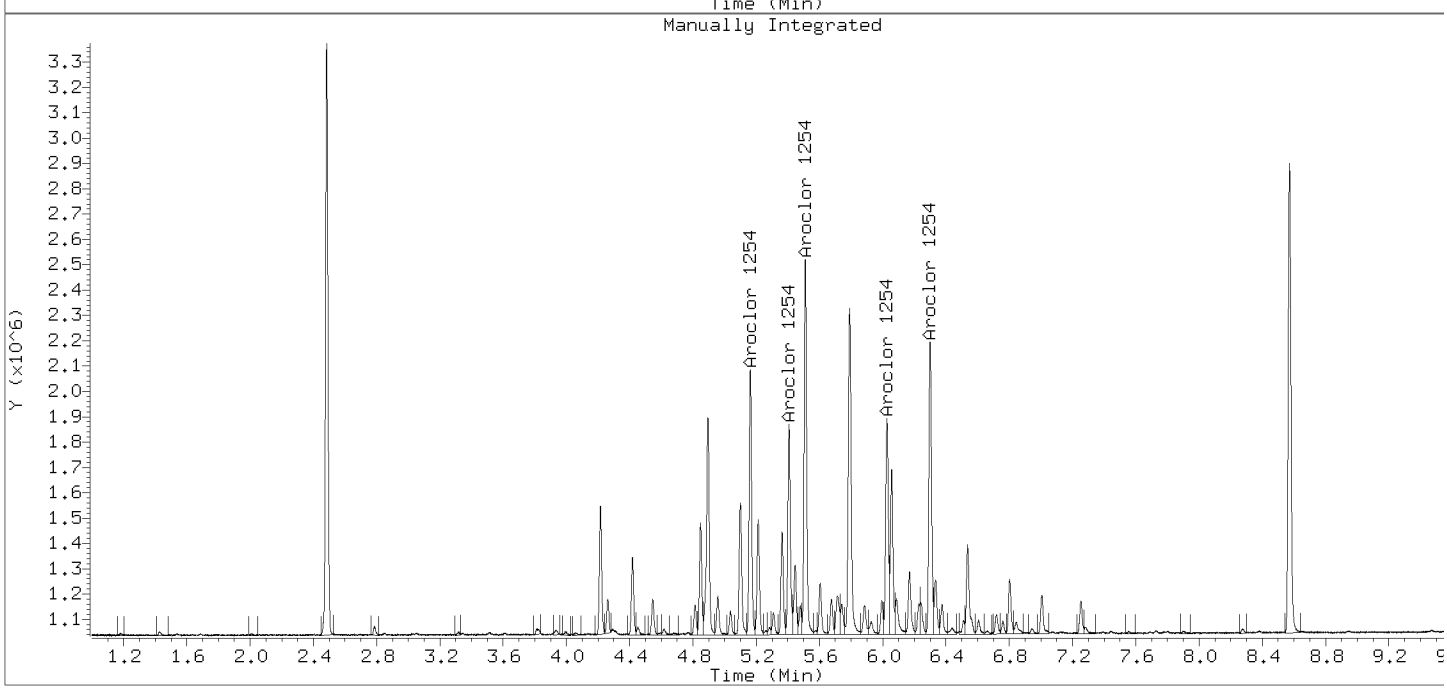
Column phase: ZB-1ms

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

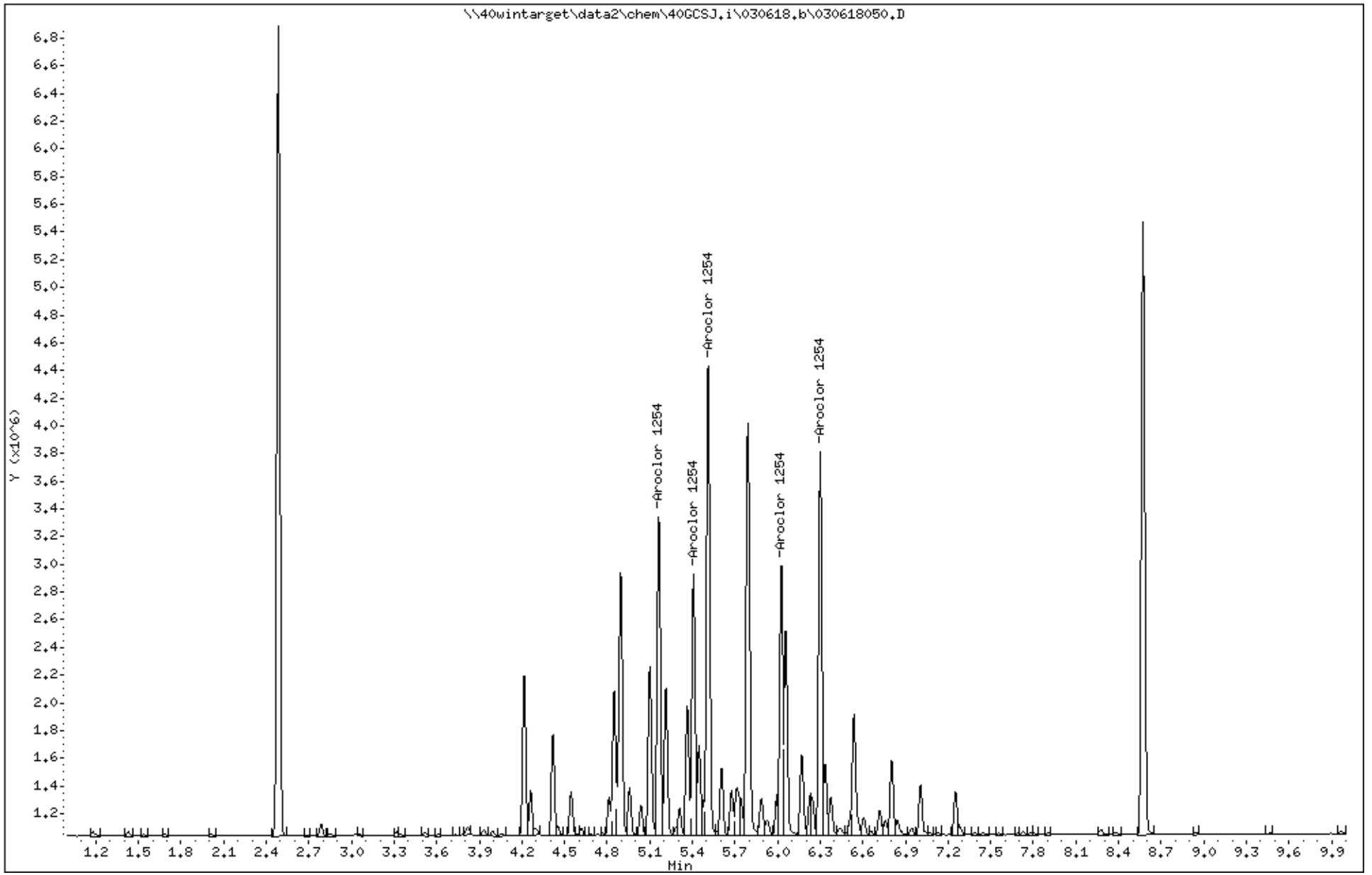
Instrument: 40GCSJ.i

Sample Info: 1254-CAL3C, 185554:1

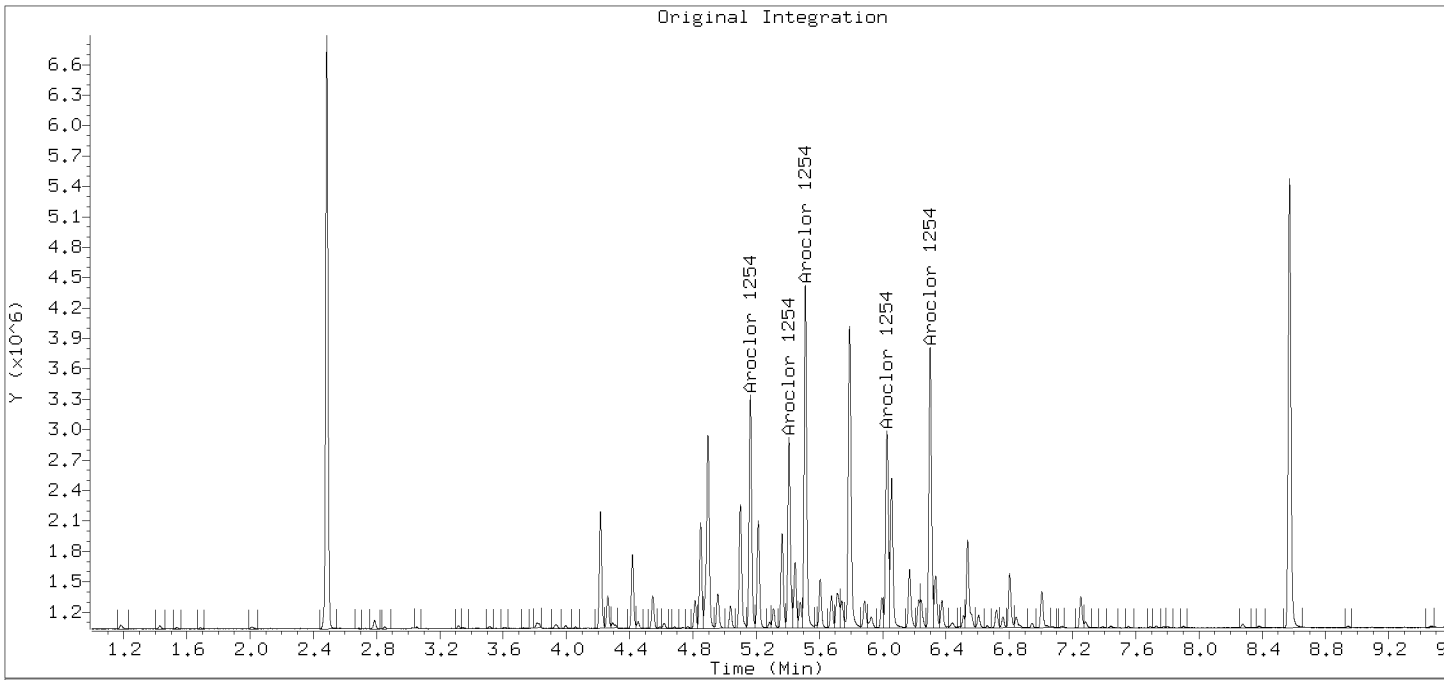
Operator: BLM

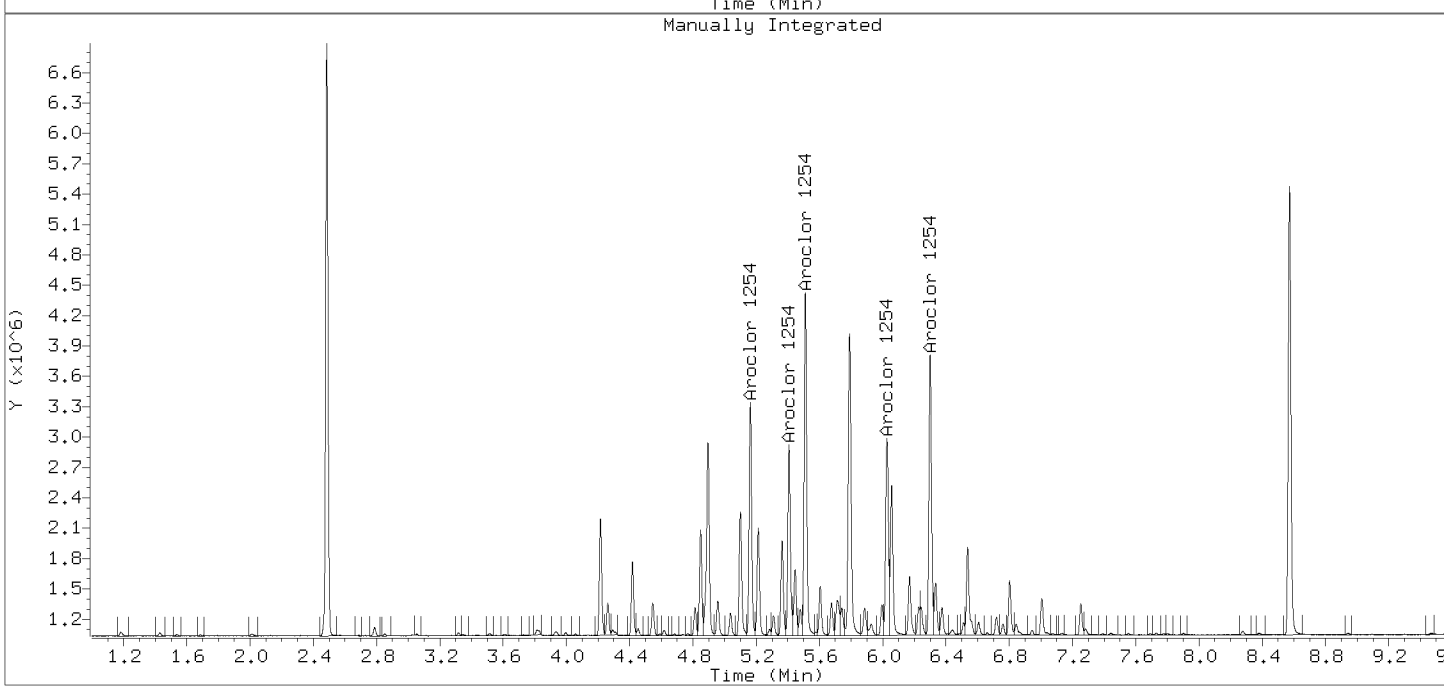
Column phase: ZB-1ms

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

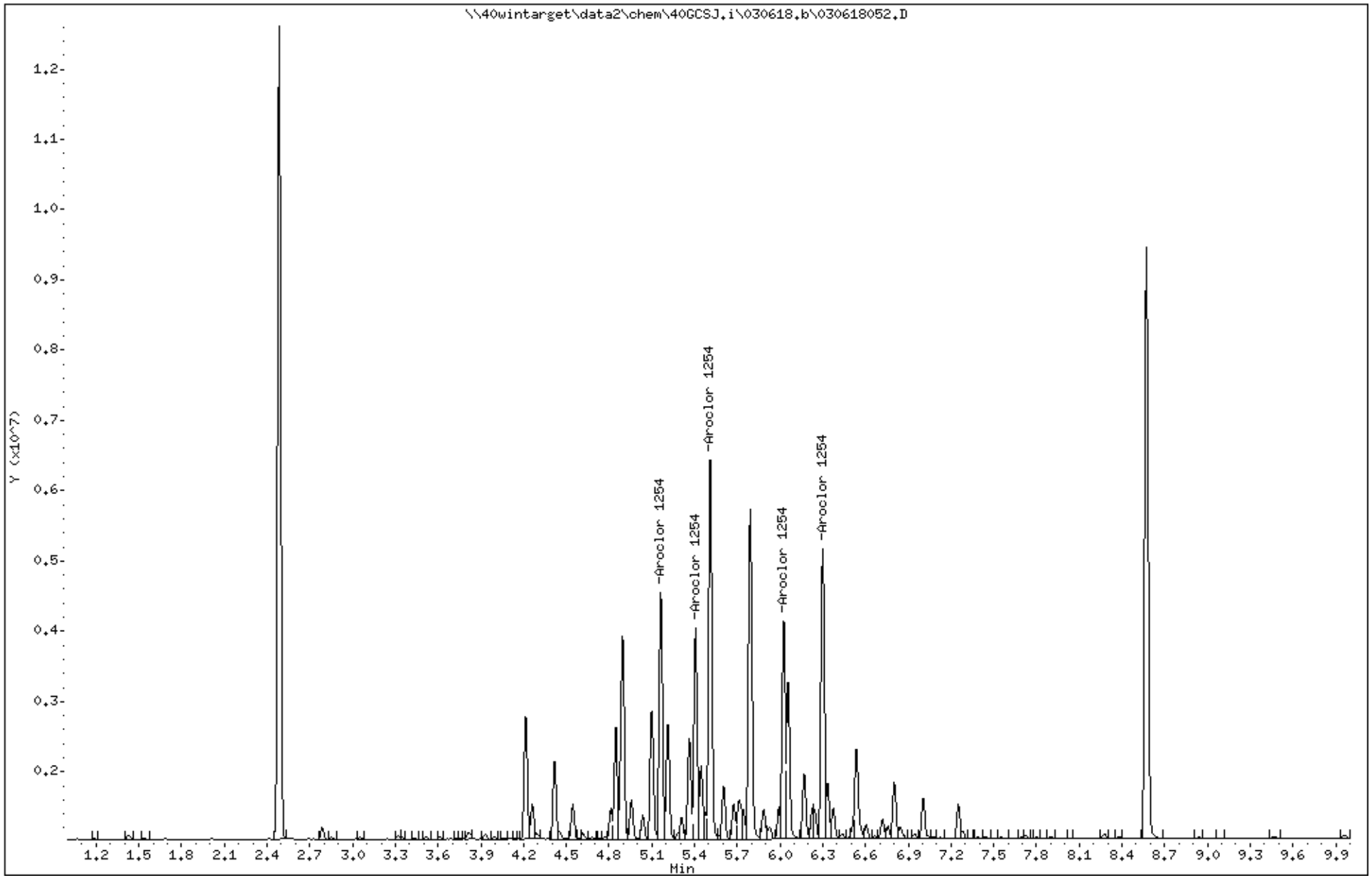
Instrument: 40GCSJ.i

Sample Info: 1254-CAL4C, 185555:1

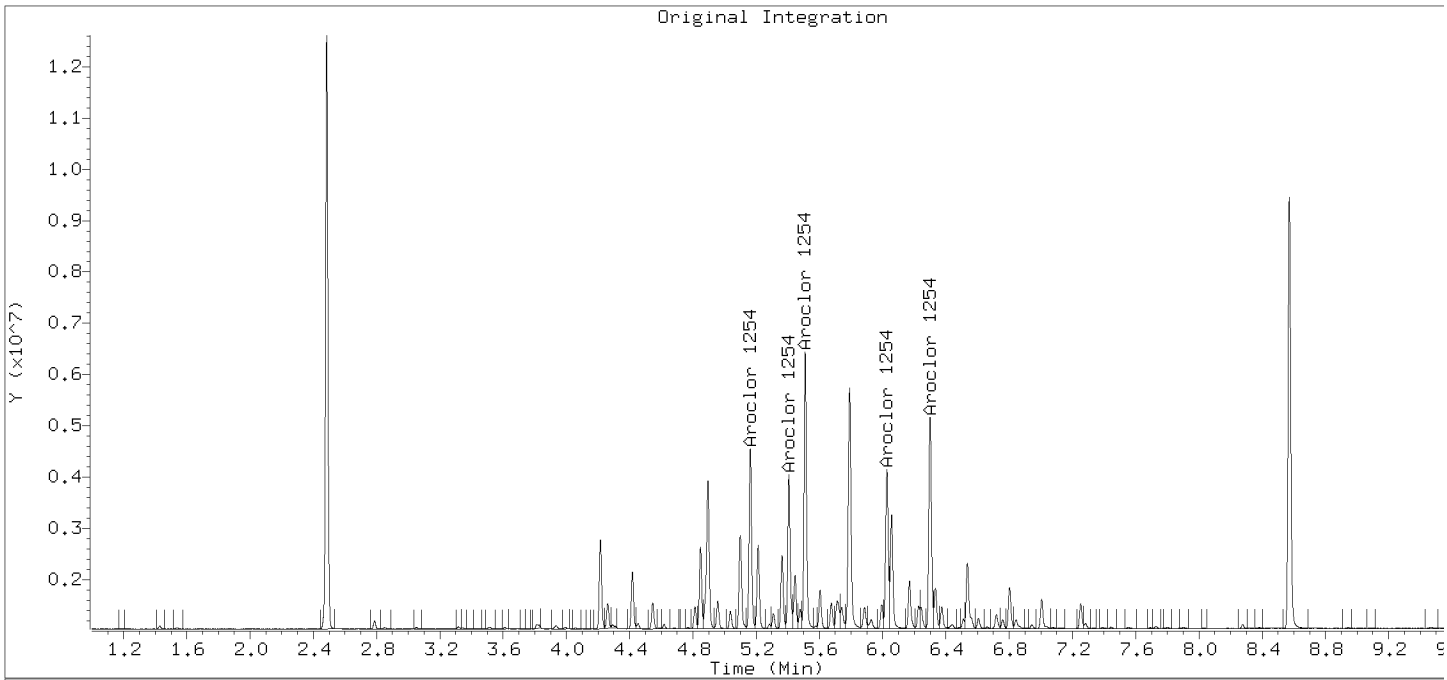
Operator: BLM

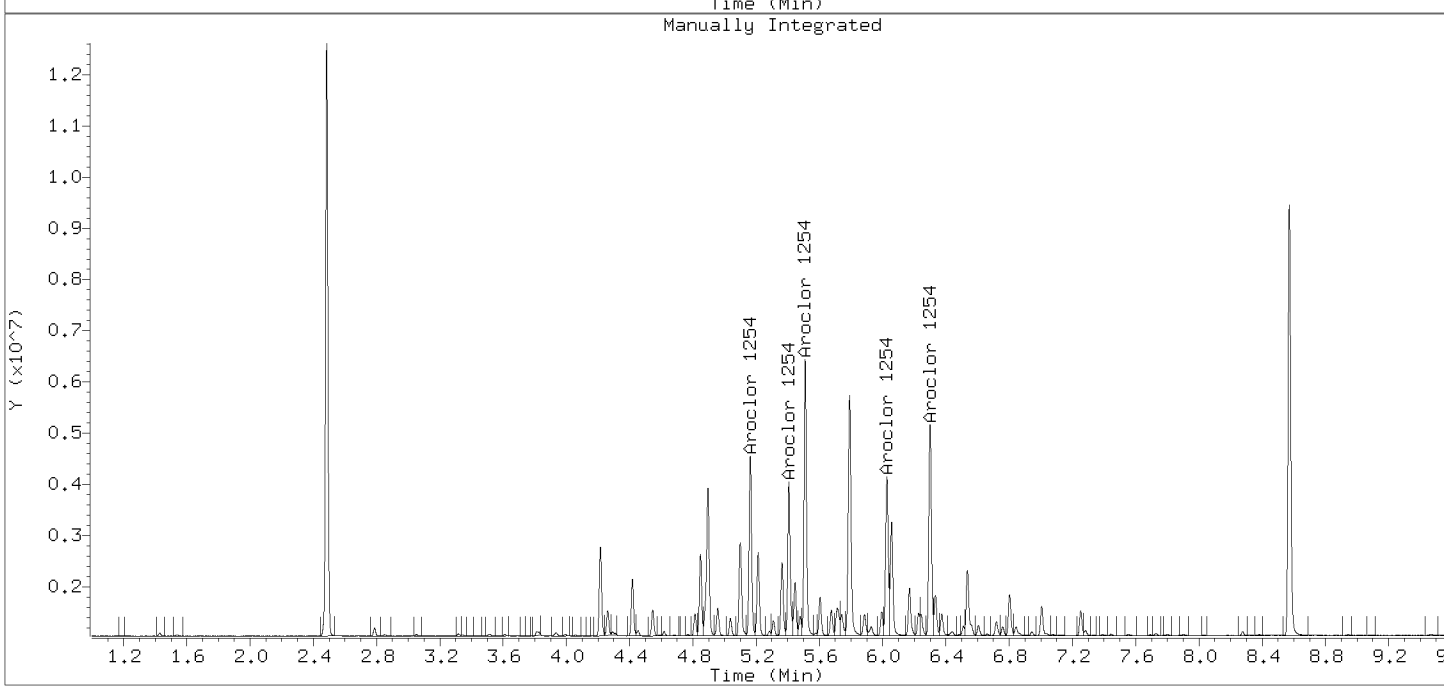
Column phase: ZB-1ms

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

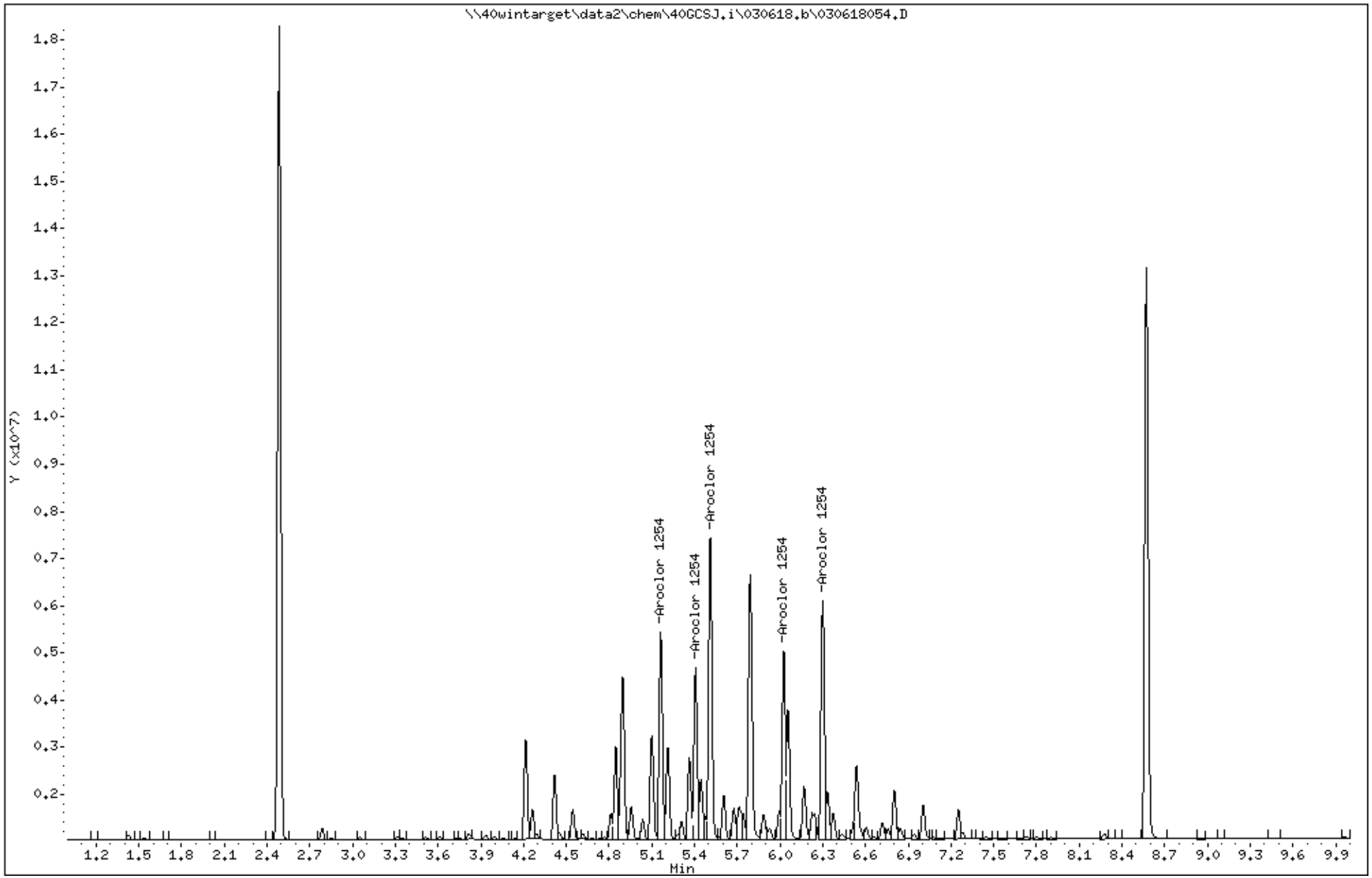
Instrument: 40GCSJ.i

Sample Info: 1254-CAL5C, 185556:1

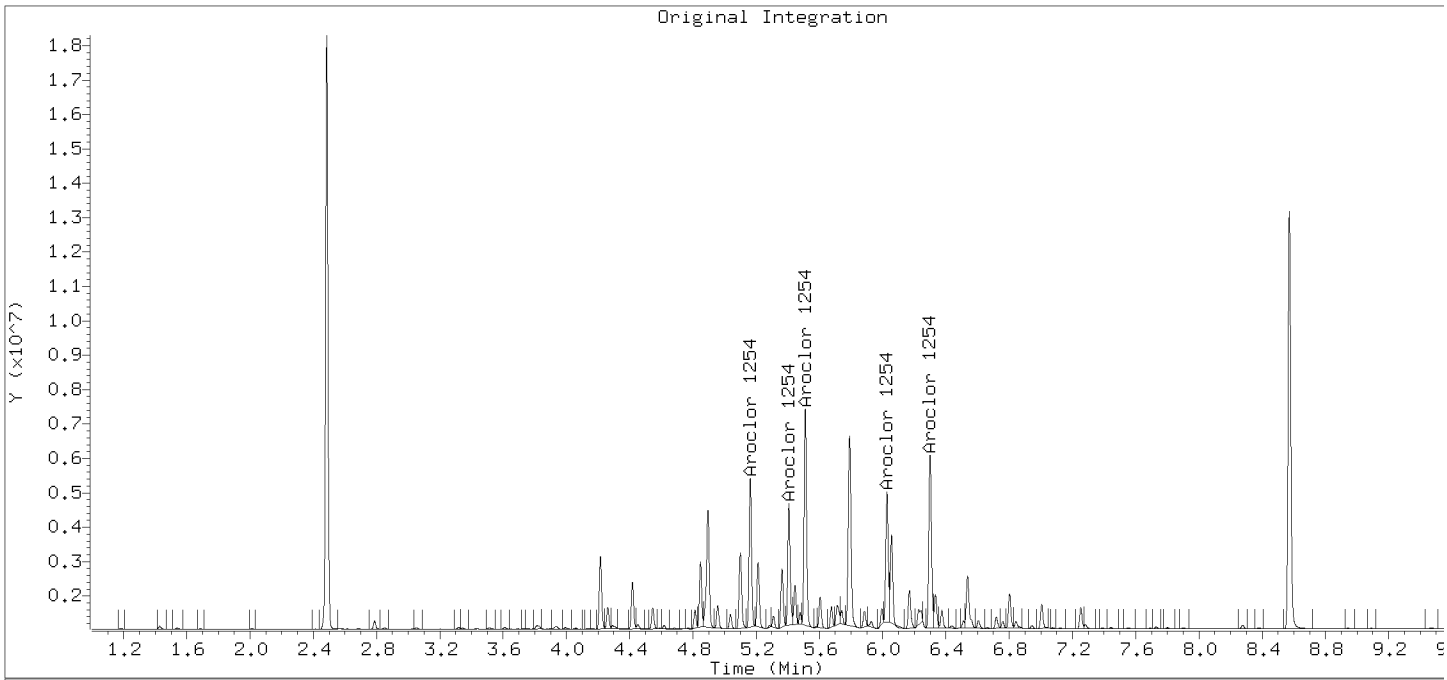
Operator: BLM

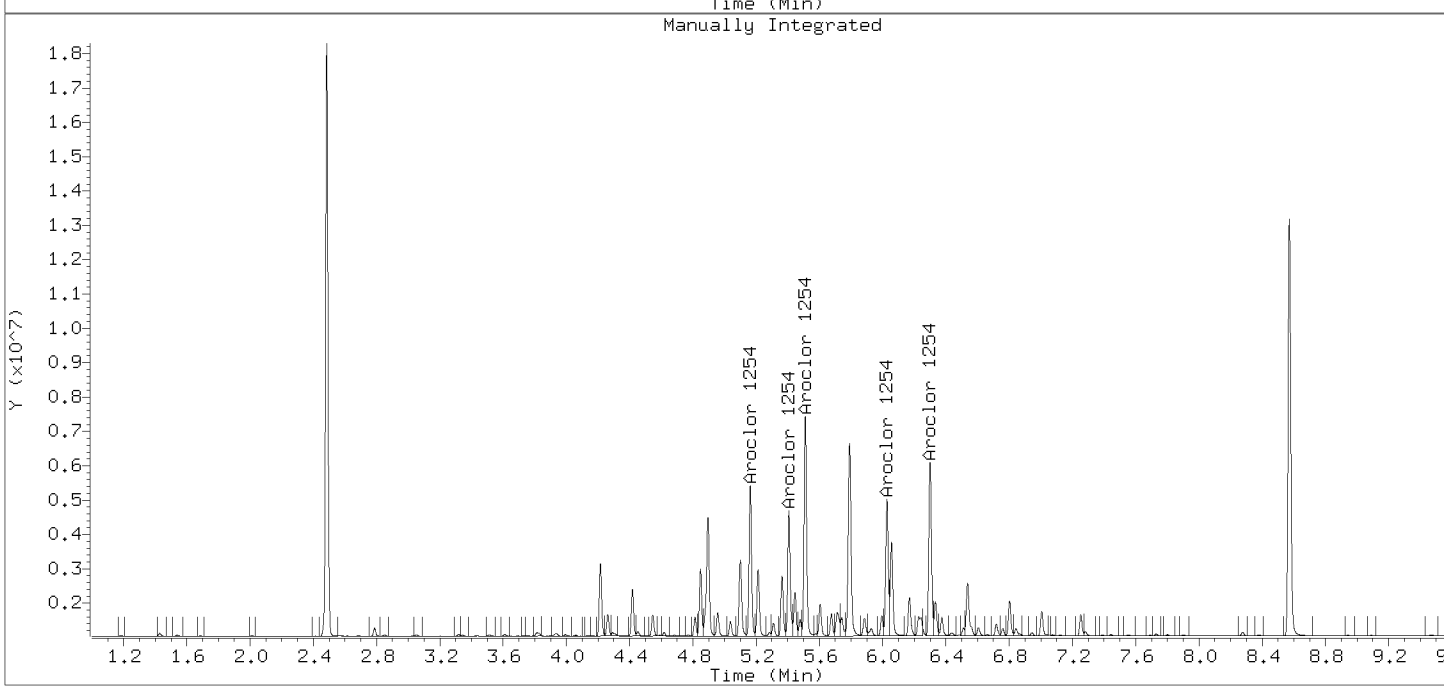
Column phase: ZB-1ms

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

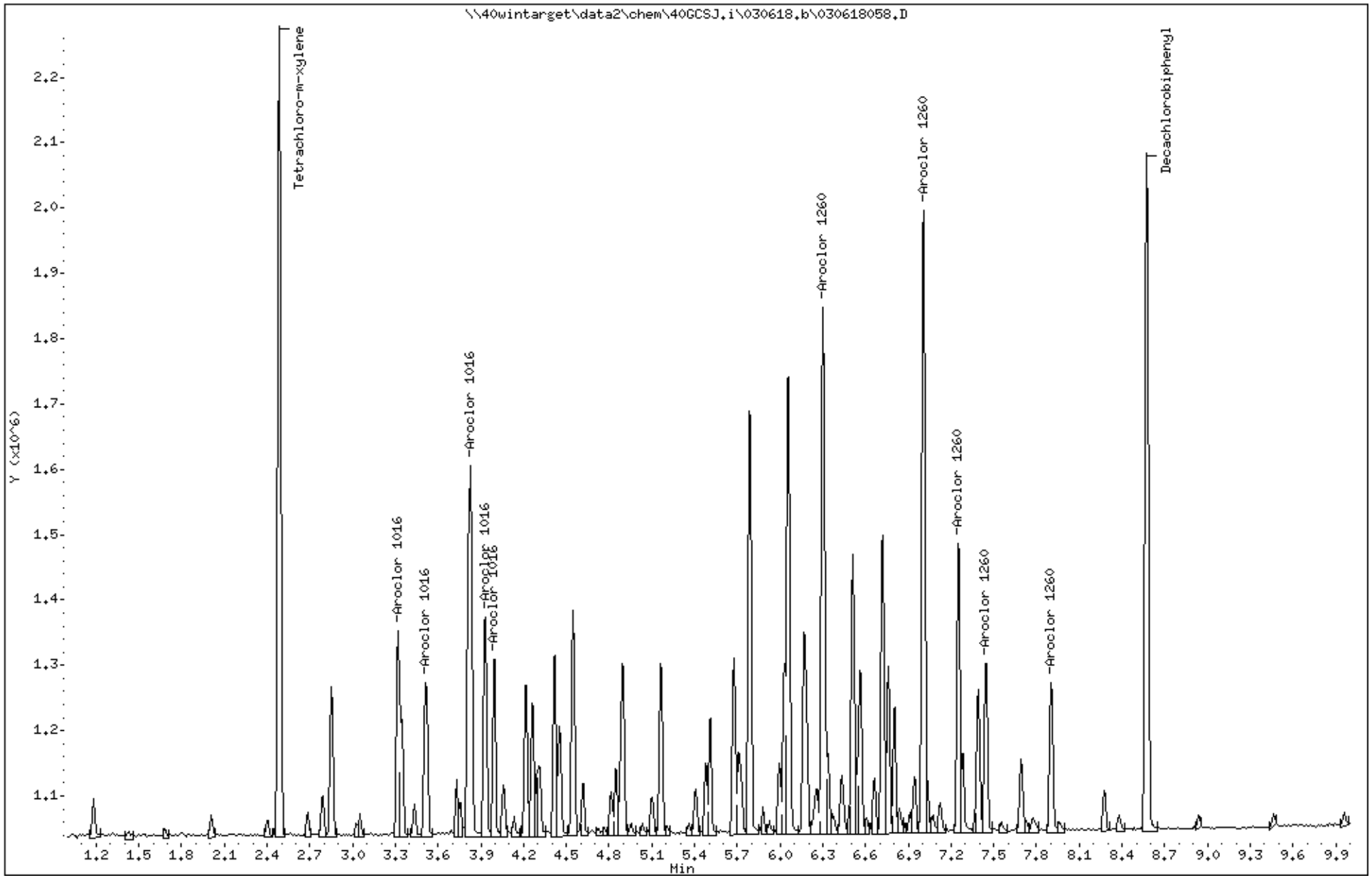
Instrument: 40GCSJ.i

Sample Info: 1660-CAL1A, 188136:1

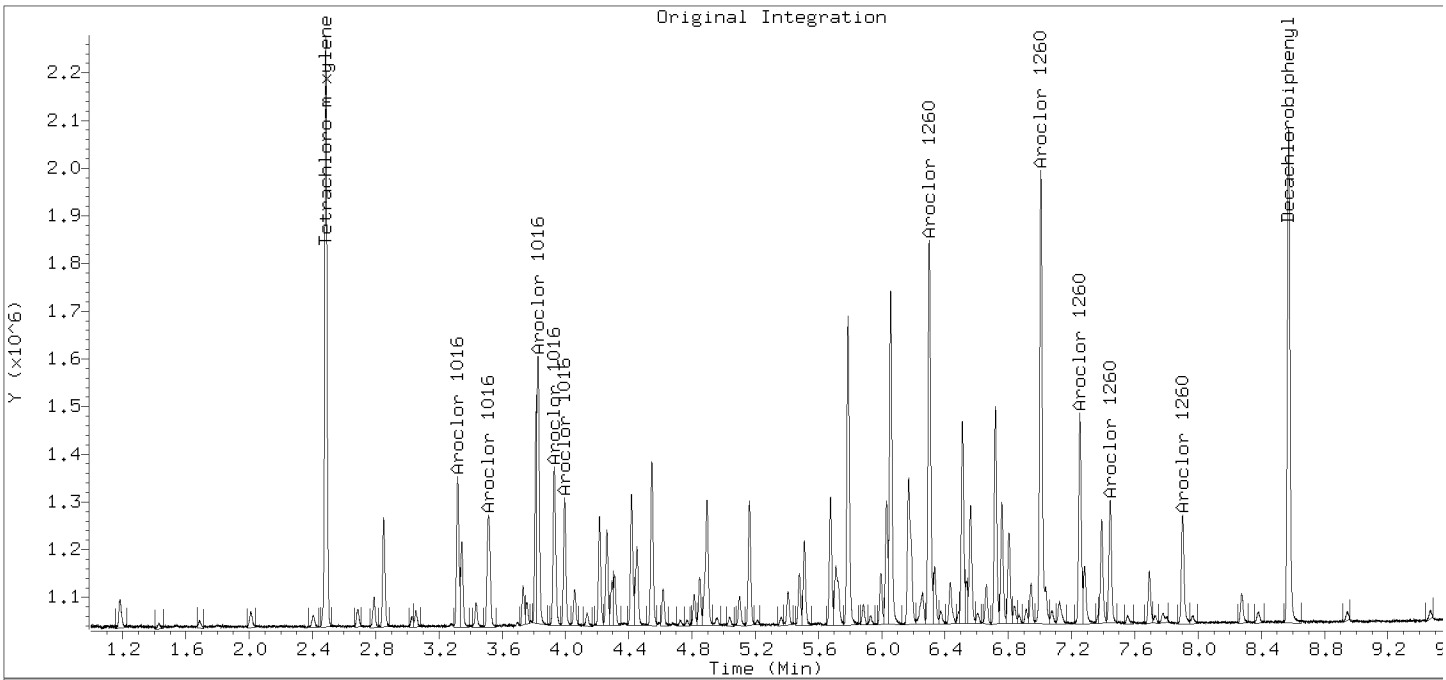
Operator: BLM

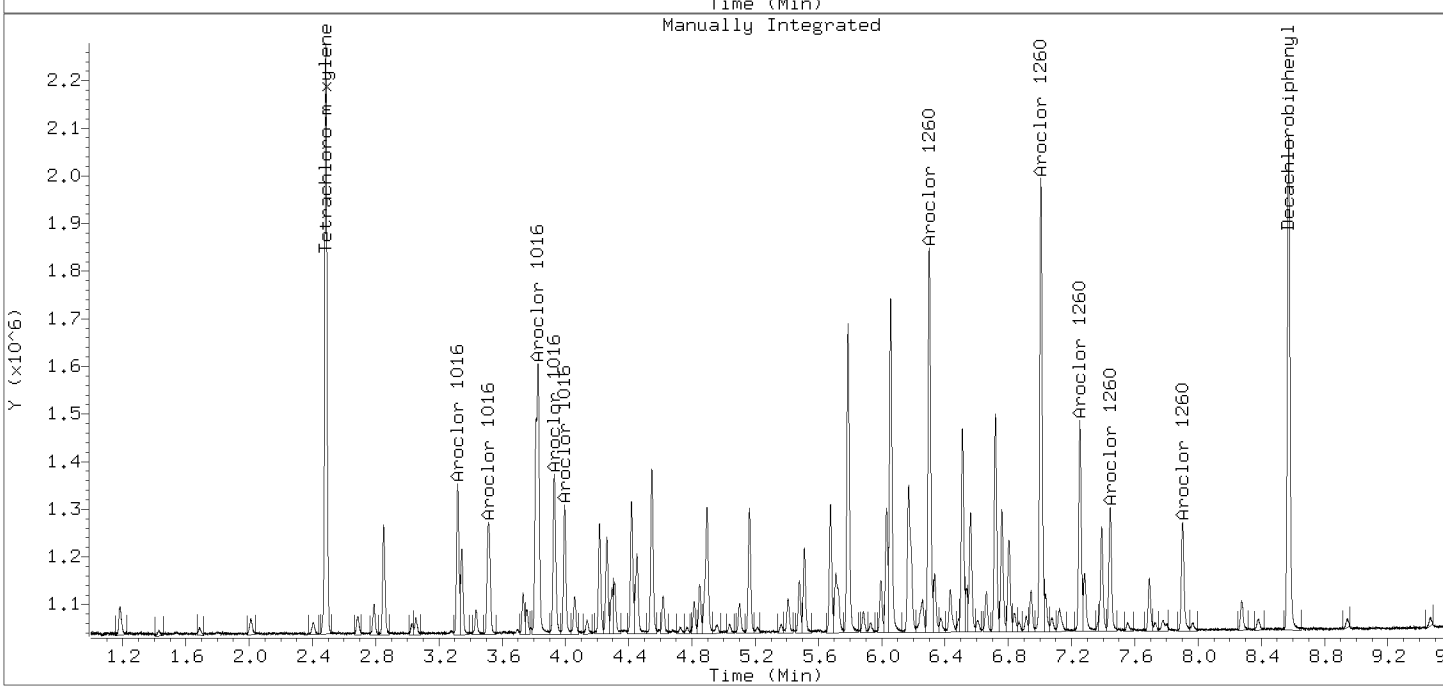
Column phase: ZB-1ms

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

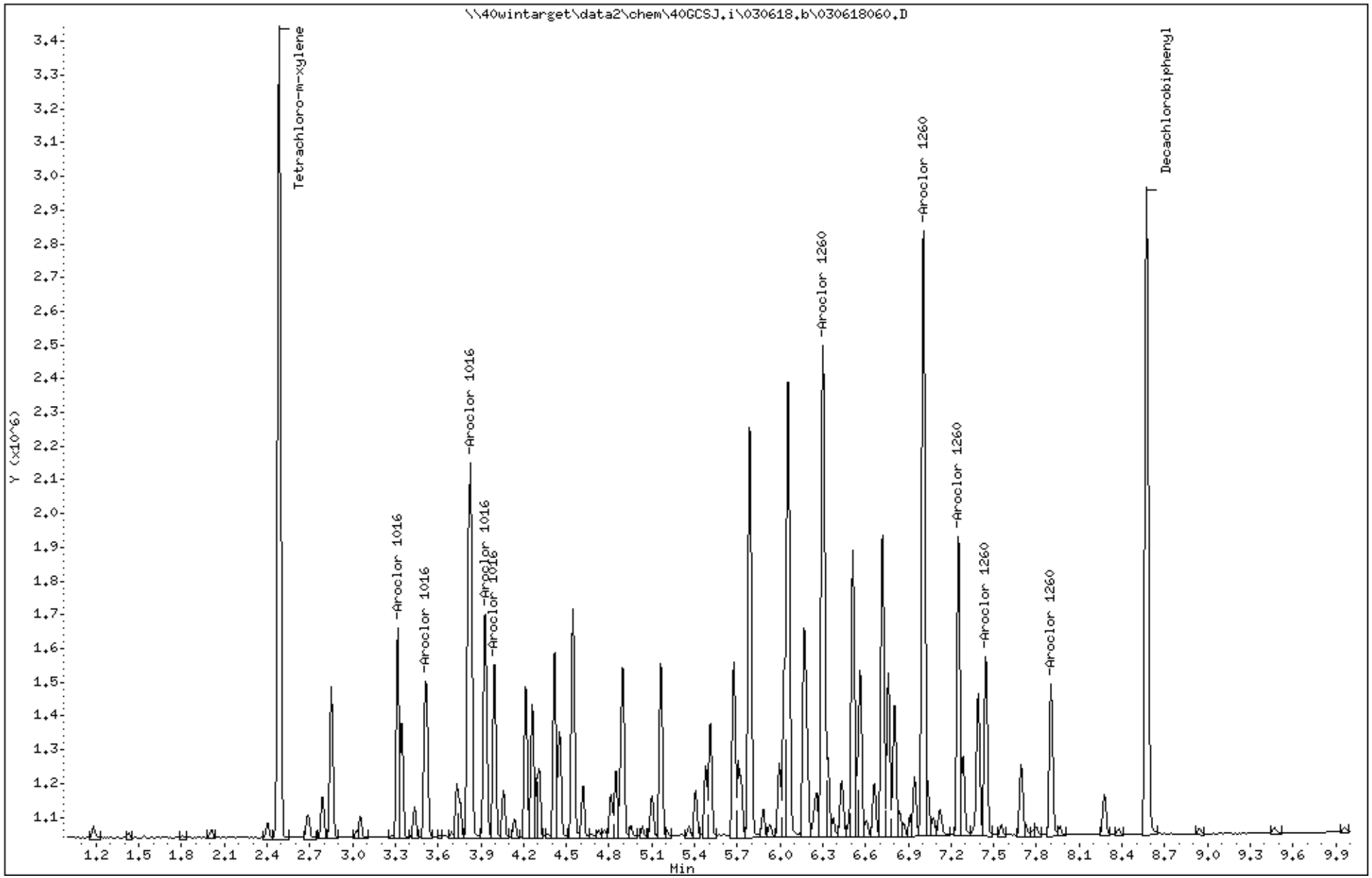
Instrument: 40GCSJ.i

Sample Info: 1660-CAL2A, 185558:1

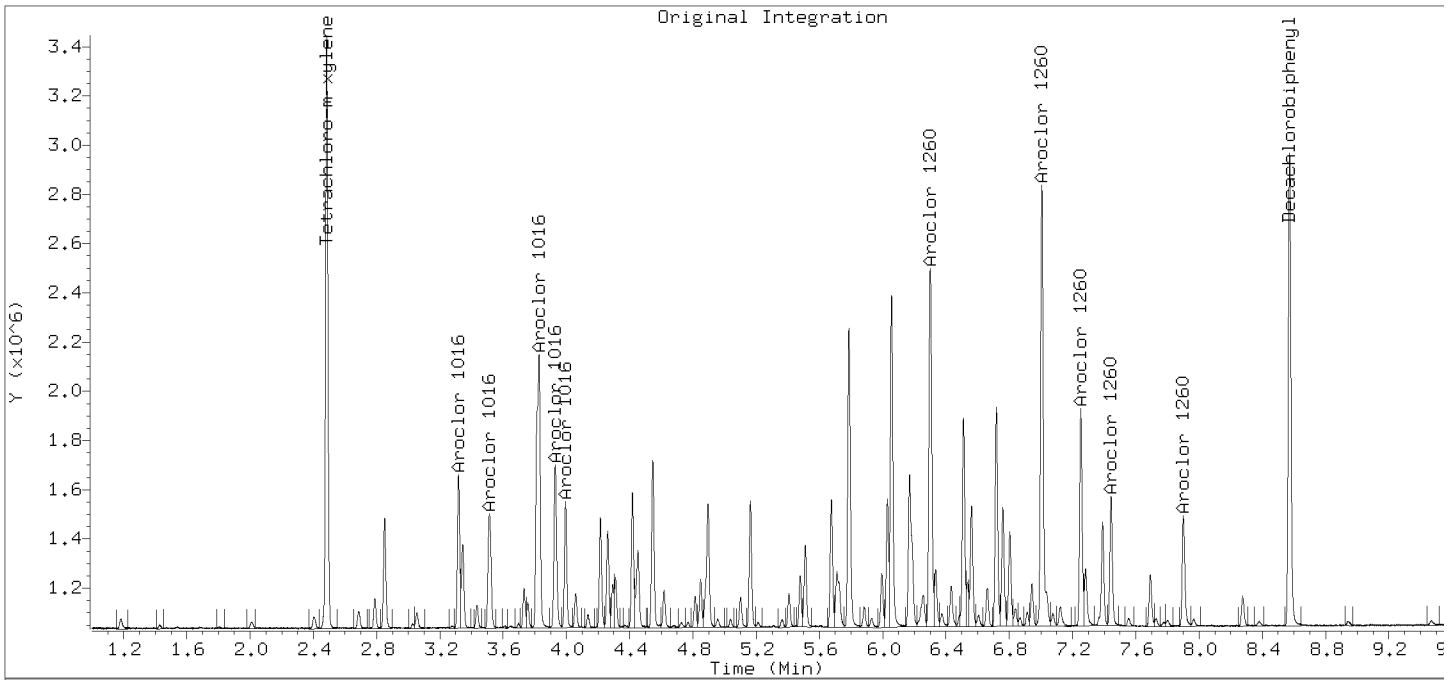
Operator: BLM

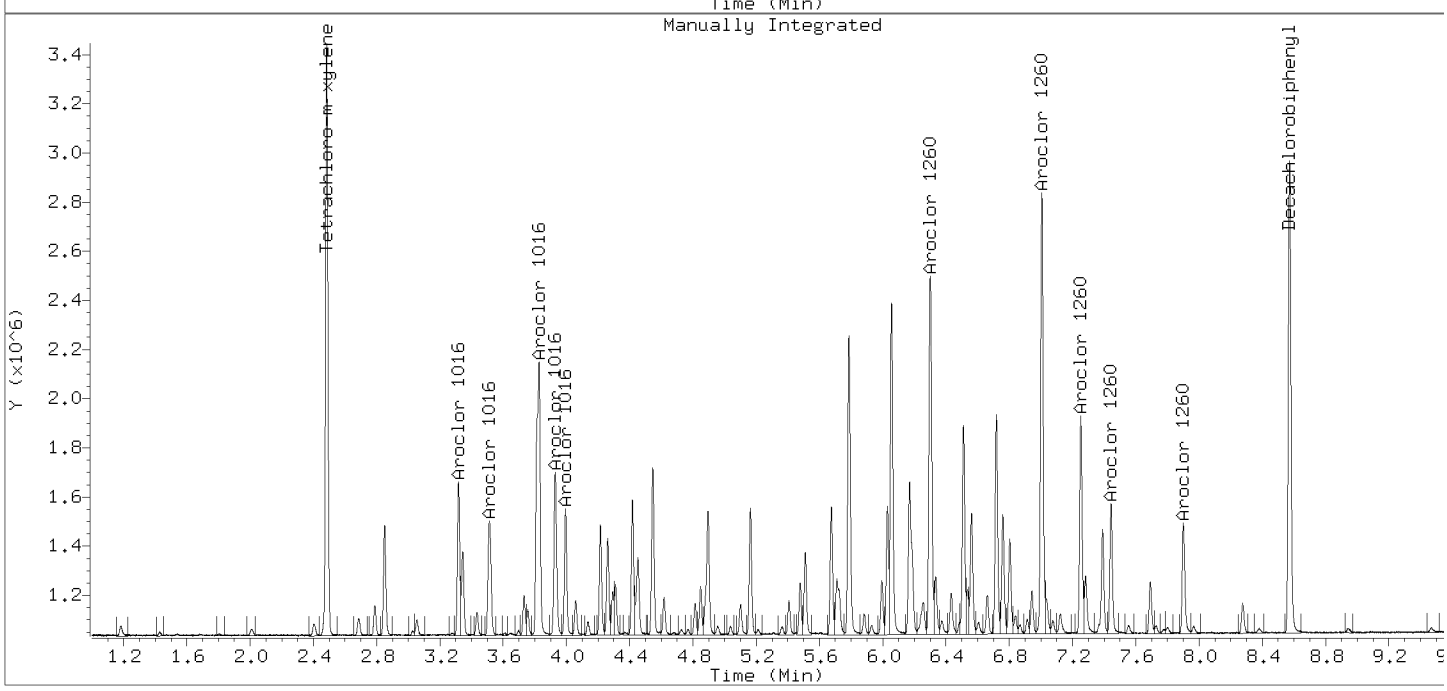
Column phase: ZB-1ms

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

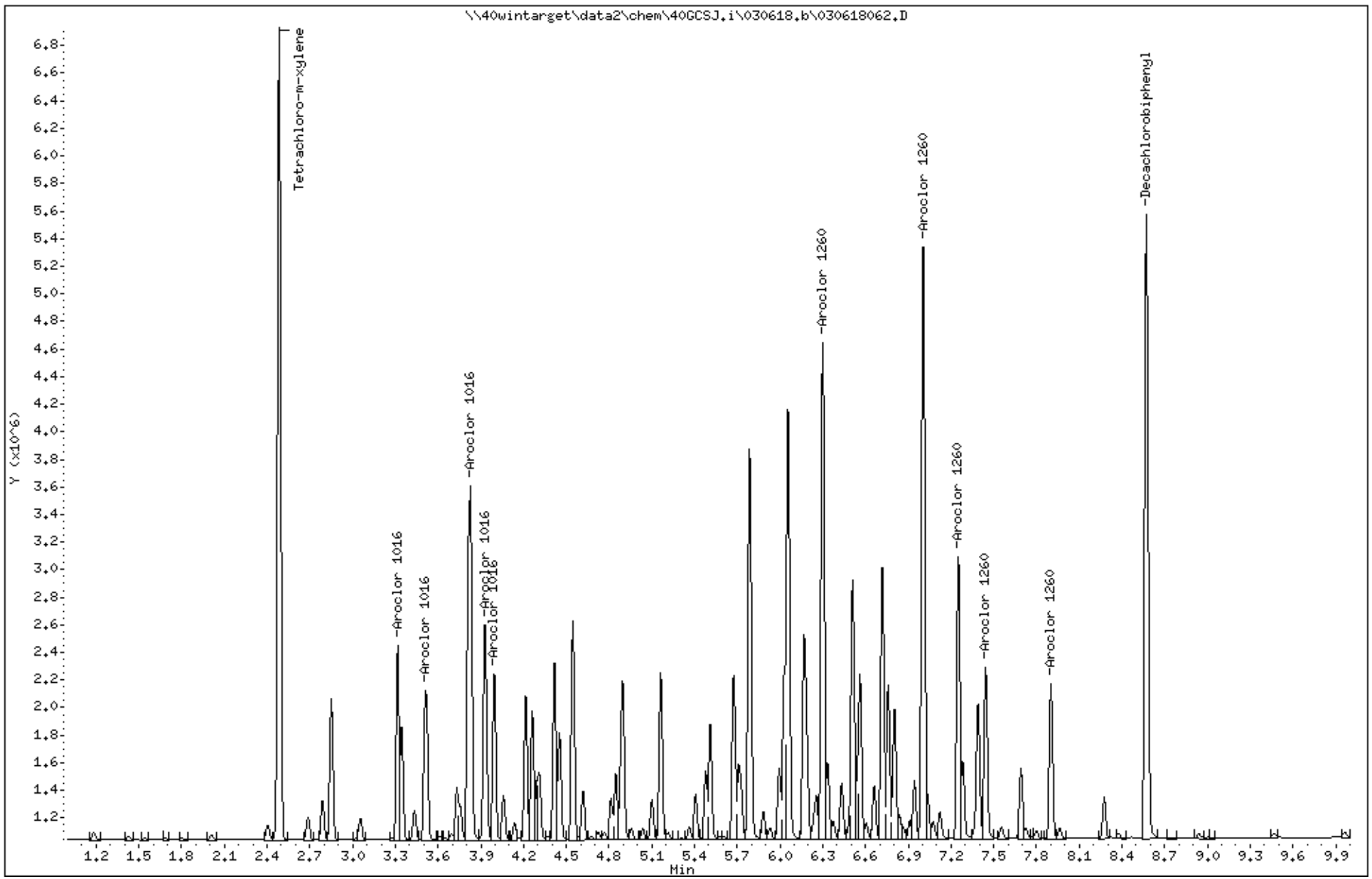
Instrument: 40GCSJ.i

Sample Info: 1660-CAL3A, 185559:1

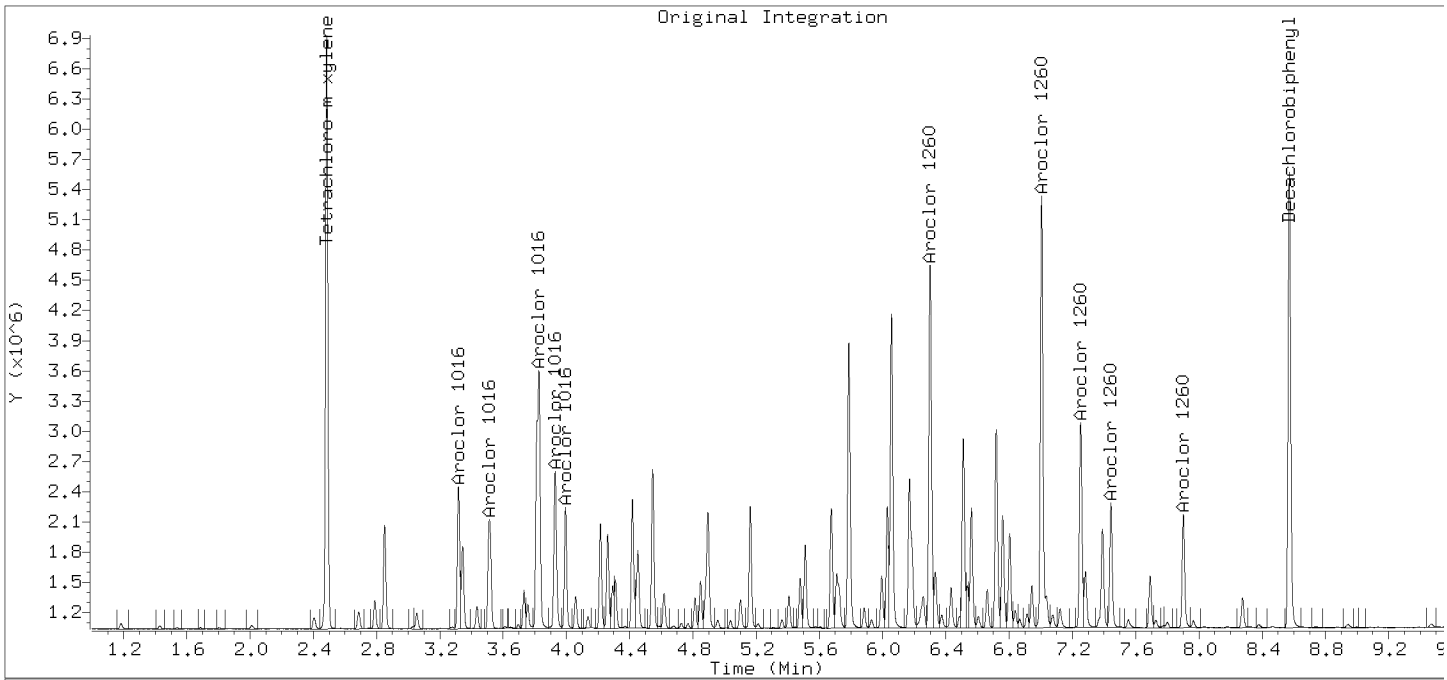
Operator: BLM

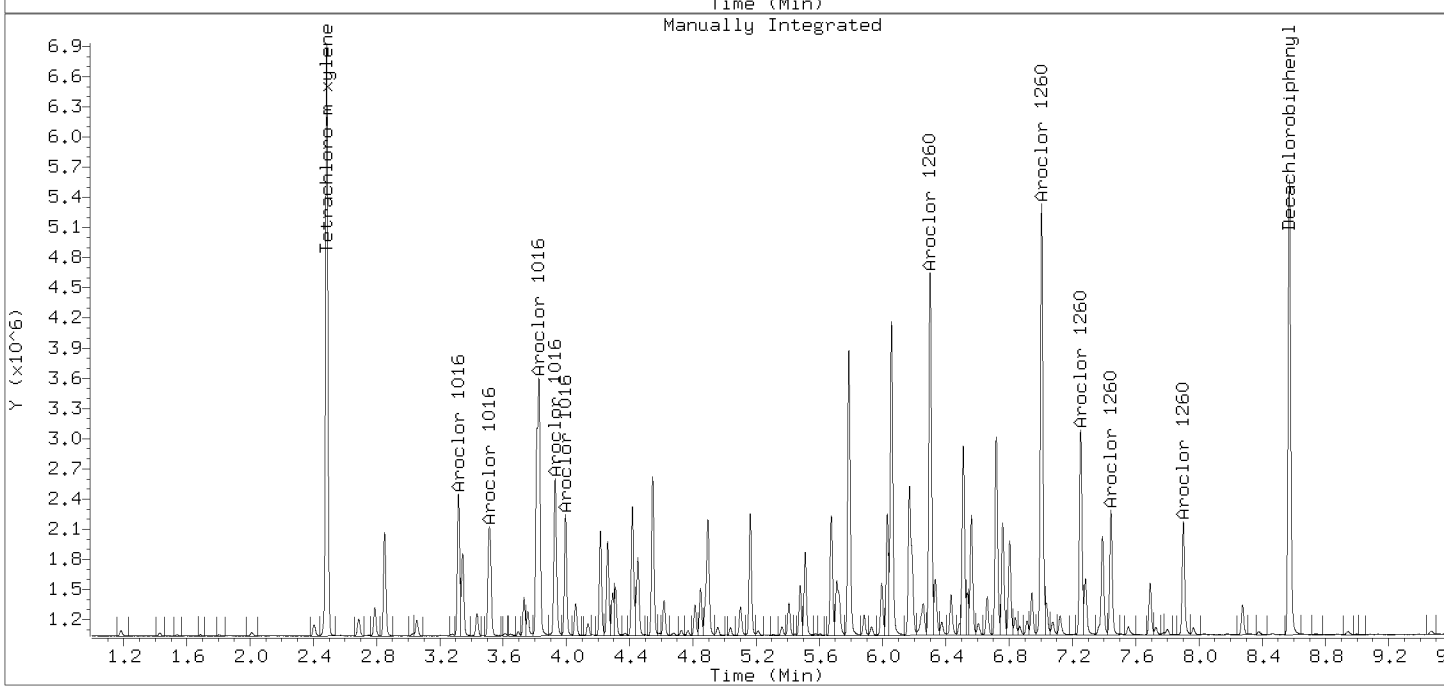
Column phase: ZB-1ms

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

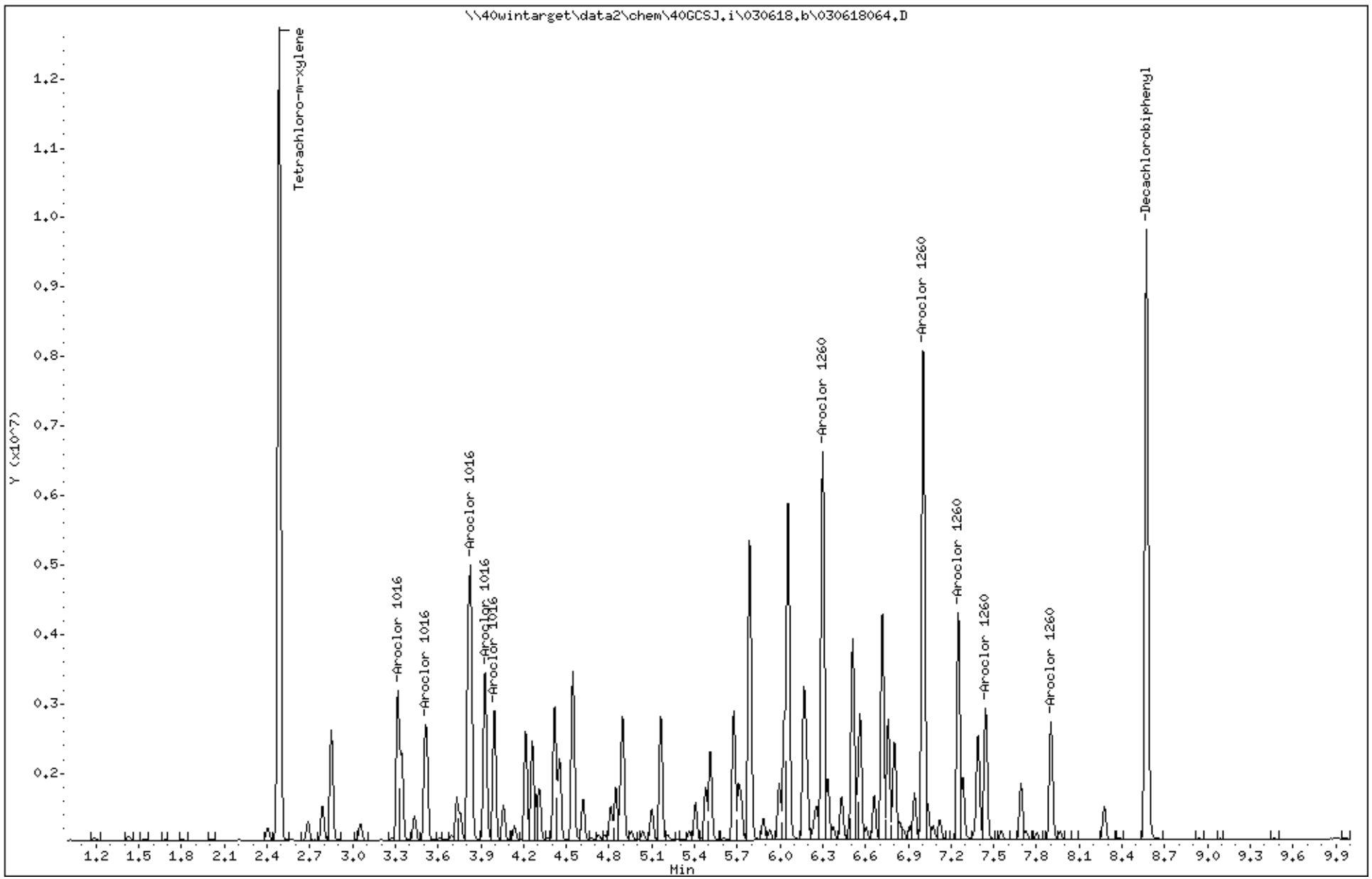
M - Compound response manually integrated.

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



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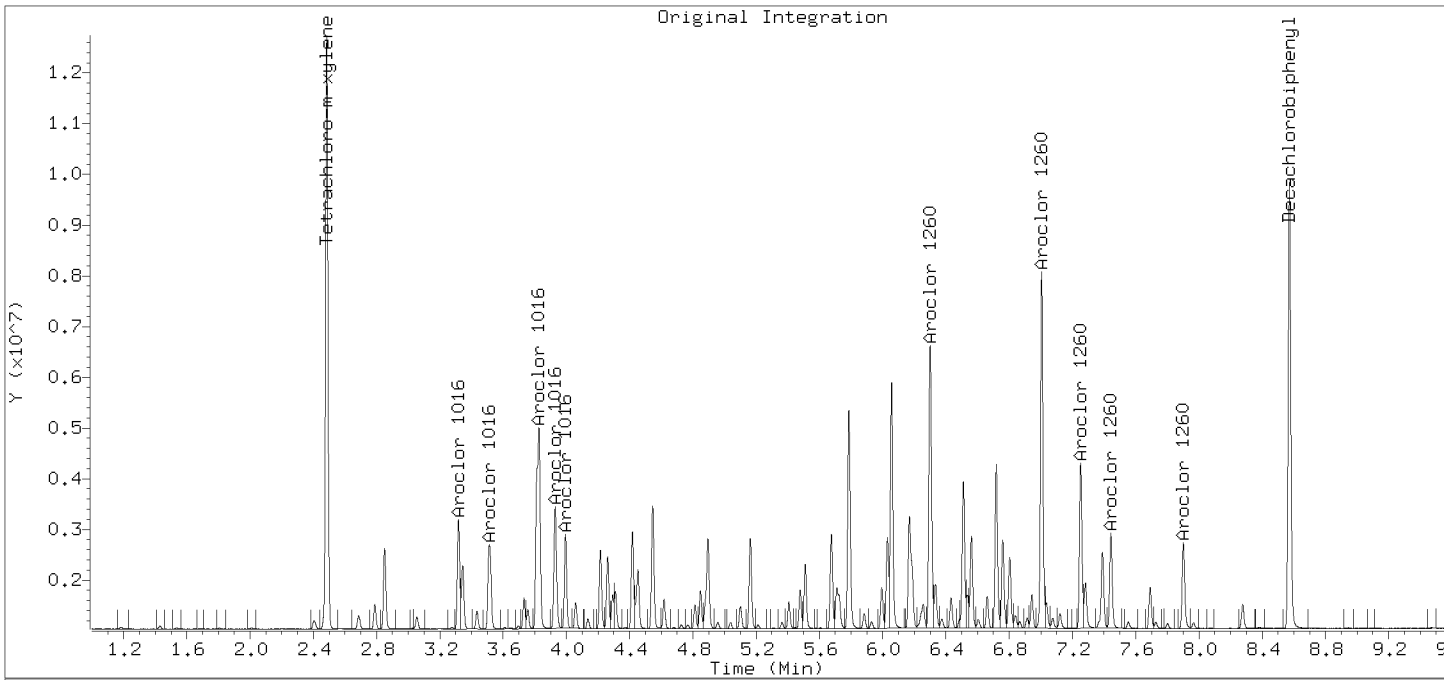
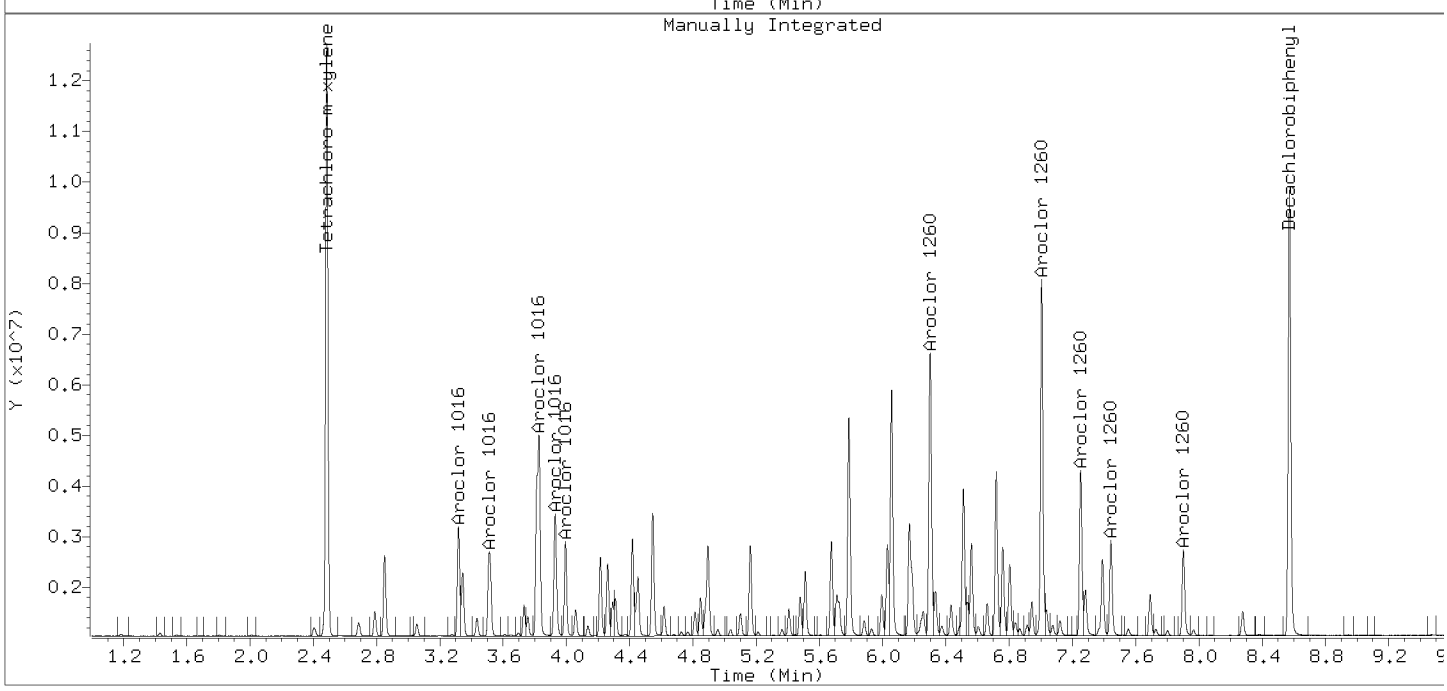
Injection Date: 06-MAR-2018 19:23 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1660-CAL4A





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	

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

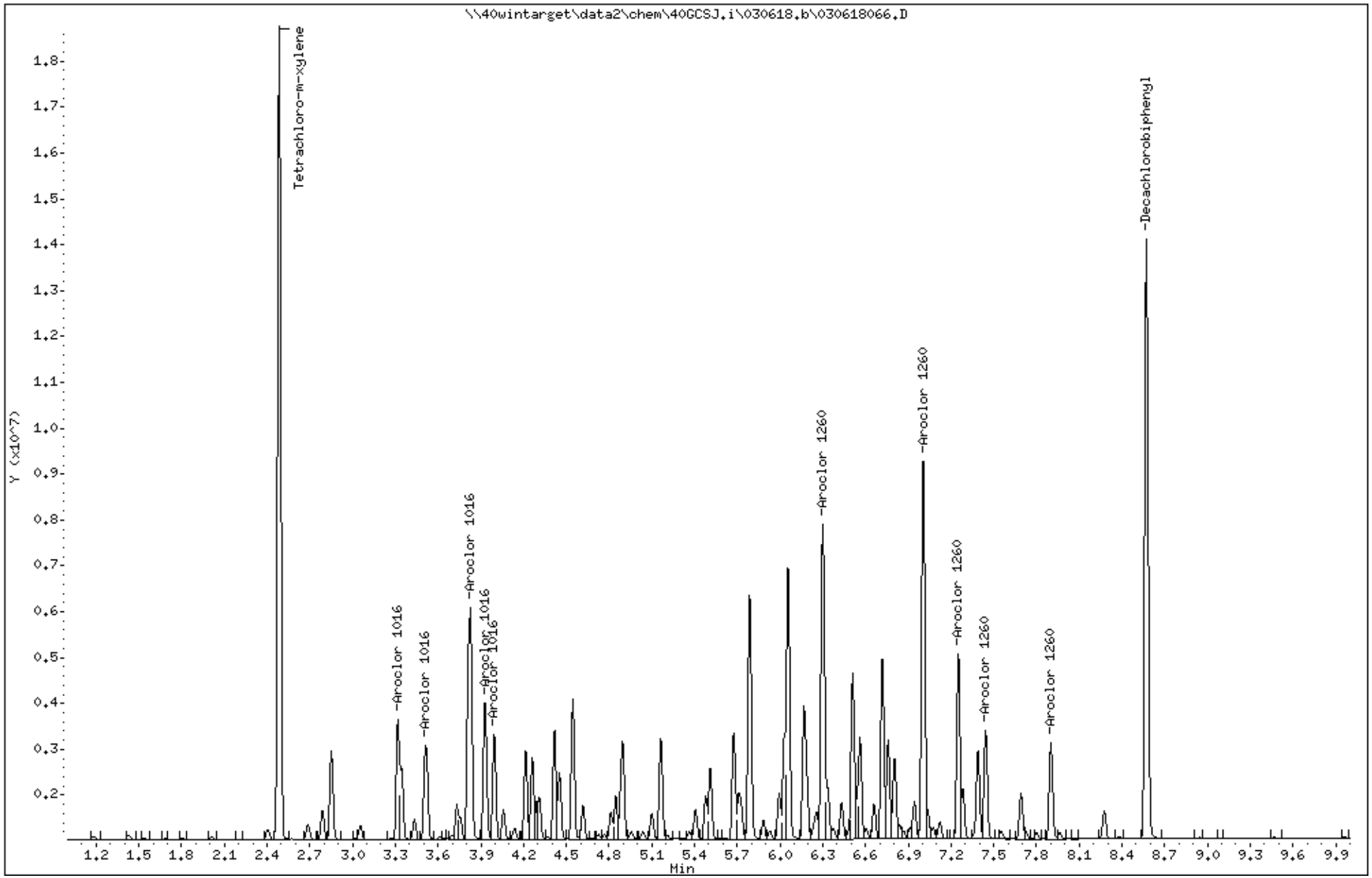
Instrument: 40GCSJ.i

Sample Info: 1660-CAL5A, 185561:1

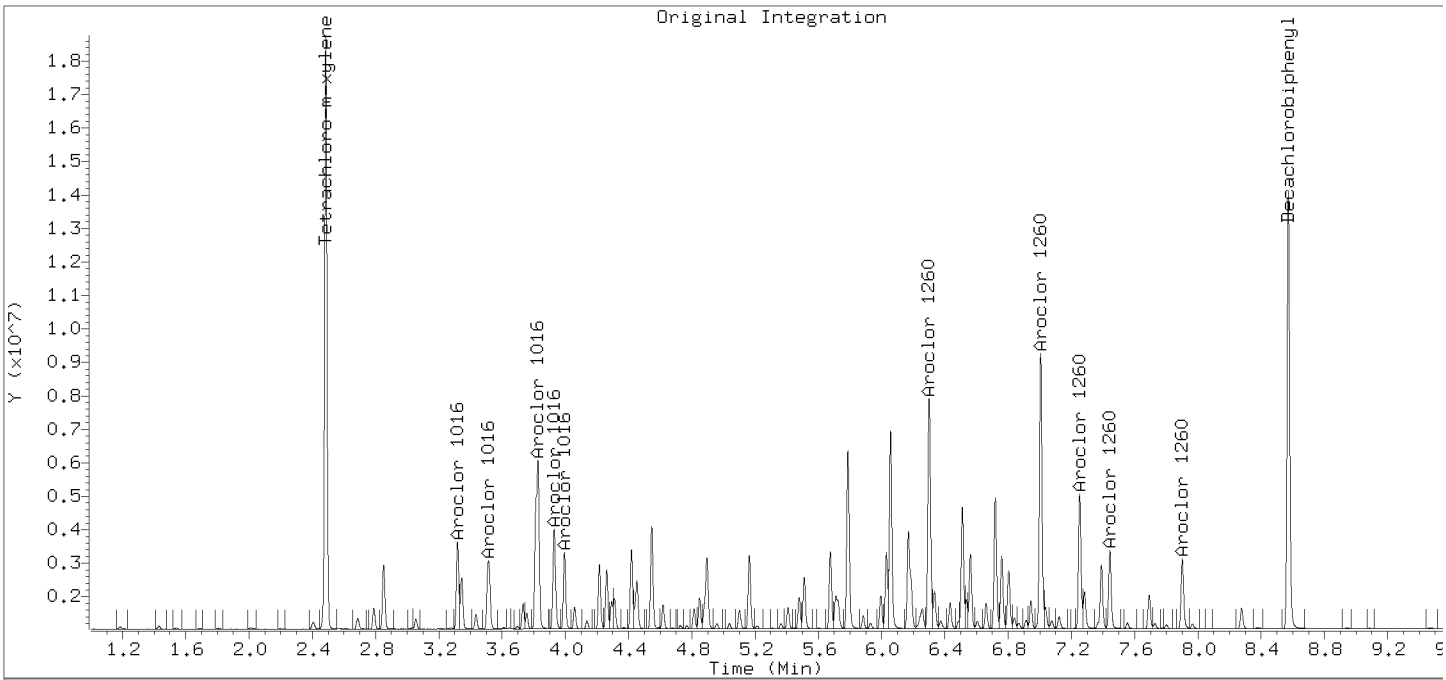
Operator: BLM

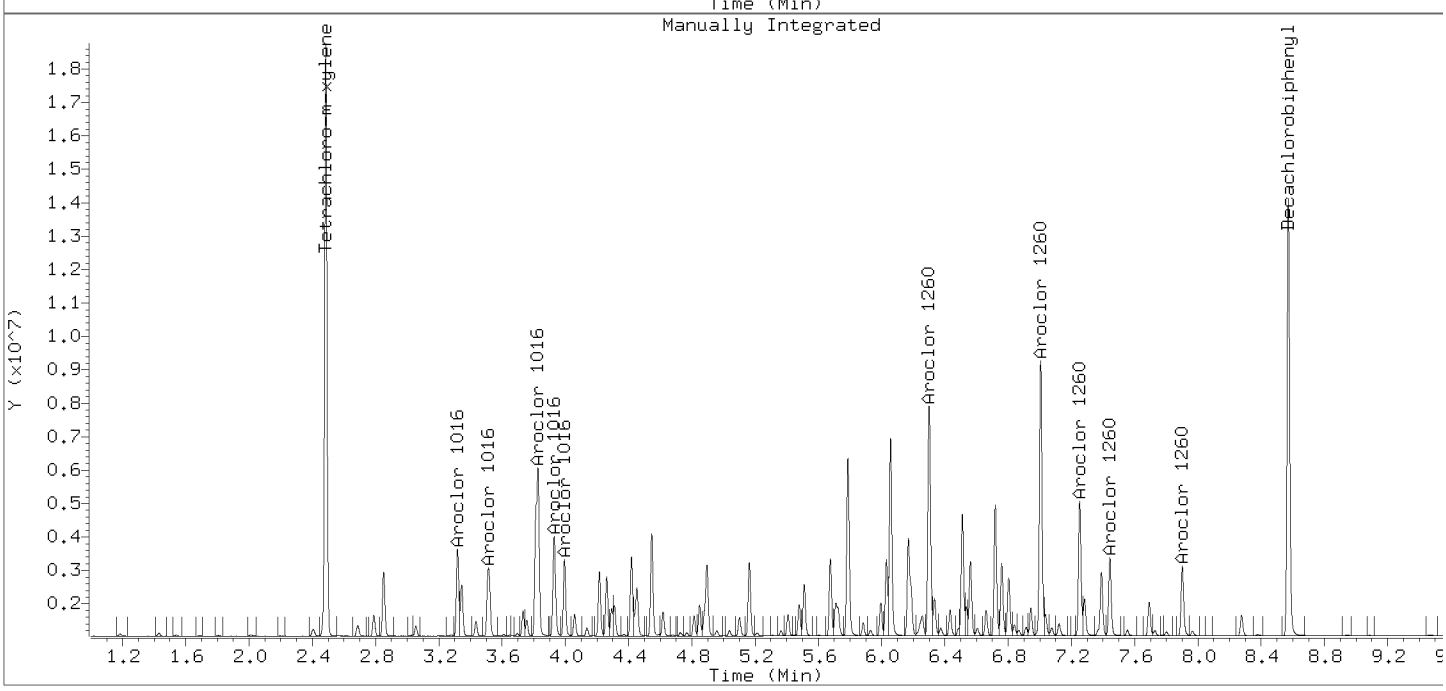
Column phase: ZB-1ms

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.: 40157694

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.: 40157694

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.: 40157694

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.: 40157694

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.: 40157694

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.

10900679CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 04/12/2018 Time: 11:50

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

Lab File ID: 041218.B\041218004.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40157694

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	2797466.00	10.4322
Aroclor 1242	2	Averaged	3.513	3.479	3.547	2520033.45	2767668.00	9.8266
Aroclor 1242	3	Averaged	3.826	3.793	3.861	7116457.95	7848312.00	10.2840
Aroclor 1242	4	Averaged	3.929	3.895	3.963	3041534.65	3369232.00	10.7741
Aroclor 1242	5	Averaged	3.995	3.961	4.029	2047746.90	2264034.00	10.5622
Decachlorobiphenyl (S)		Averaged	8.571	8.537	8.605	109559990.	116086760.	5.9573
Tetrachloro-m-xylene		Averaged	2.485	2.45	2.518	123295106.	130113840.	5.5304

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

SAMPLE NO.

10900680CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 04/12/2018 Time: 15:01

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

Lab File ID: 041218.B\041218016.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40157694

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	2578172.00	10.0384
Aroclor 1248	2	Averaged	4.545	4.512	4.58	4150305.95	4486758.00	8.1067
Aroclor 1248	3	Averaged	4.812	4.778	4.846	2030080.20	2238870.00	10.2848
Aroclor 1248	4	Averaged	4.878	4.845	4.913	5037445.65	5595682.00	11.0817
Aroclor 1248	5	Averaged	5.036	5.004	5.072	3588546.15	3976602.00	10.8137
Decachlorobiphenyl (S)		Averaged	8.57	8.537	8.605	109559990.	116985060.	6.7772
Tetrachloro-m-xylene		Averaged	2.485	2.45	2.518	123295106.	129008720.	4.6341

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

SAMPLE NO.

10900678CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 04/12/2018 Time: 18:11

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

Lab File ID: 041218.B\041218028.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40157694

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	5525878.00	5.5514
Aroclor 1254	2	Averaged	5.406	5.374	5.442	4301054.45	4615134.00	7.3024
Aroclor 1254	3	Averaged	5.51	5.476	5.544	7766063.85	8265484.00	6.4308
Aroclor 1254	4	Averaged	6.026	5.993	6.061	4869683.55	5342440.00	9.7082
Aroclor 1254	5	Averaged	6.298	6.265	6.333	6507103.75	7033882.00	8.0954
Decachlorobiphenyl (S)		Averaged	8.571	8.537	8.605	109559990.	116710300.	6.5264
Tetrachloro-m-xylene		Averaged	2.485	2.45	2.518	123295106.	126075680.	2.2552

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

SAMPLE NO.

10900691CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 04/13/2018 Time: 14:33

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

Lab File ID: 041318.B\041318004.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40157694

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1016	1	Averaged	3.318	3.284	3.352	3080830.60	3554572.00	15.3771
Aroclor 1016	2	Averaged	3.513	3.478	3.546	3099002.40	3552538.00	14.6349
Aroclor 1016	3	Averaged	3.826	3.792	3.86	8861786.20	10089424.0	13.8532
Aroclor 1016	4	Averaged	3.928	3.895	3.963	3780223.45	4311960.00	14.0663
Aroclor 1016	5	Averaged	3.994	3.96	4.028	2603349.30	2891374.00	11.0636
Aroclor 1260	1	Averaged	6.299	6.266	6.334	8862352.50	10126960.0	14.2694
Aroclor 1260	2	Averaged	7.004	6.972	7.04	10014373.3	11517452.0	15.0092
Aroclor 1260	3	Averaged	7.25	7.217	7.285	4779803.15	5468054.00	14.3991
Aroclor 1260	4	Averaged	7.442	7.409	7.477	2915110.60	3406364.00	16.8520
Aroclor 1260	5	Averaged	7.898	7.867	7.935	2638735.95	3028976.00	14.7889
Decachlorobiphenyl (S)		Averaged	8.569	8.537	8.605	109559990.	127639880.	16.5023
Tetrachloro-m-xylene		Averaged	2.485	2.45	2.518	123295106.	141420860.	14.7011

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

SAMPLE NO.

10900696CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 04/13/2018 Time: 17:43

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

Lab File ID: 041318.B\041318016.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40157694

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	1047946.00	0.6424
Aroclor 1221	2	Averaged	2.406	2.373	2.441	547842.900	547976.000	0.0243
Aroclor 1221	3	Averaged	2.687	2.654	2.722	1383336.70	1431008.00	3.4461
Aroclor 1221	4	Averaged	2.788	2.755	2.823	1105769.55	1119668.00	1.2569
Aroclor 1221	5	Averaged	2.851	2.817	2.885	3255397.65	3436568.00	5.5652
Decachlorobiphenyl (S)		Averaged	8.569	8.537	8.605	109559990.	112176180.	2.3879
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	123672060.	0.3057

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

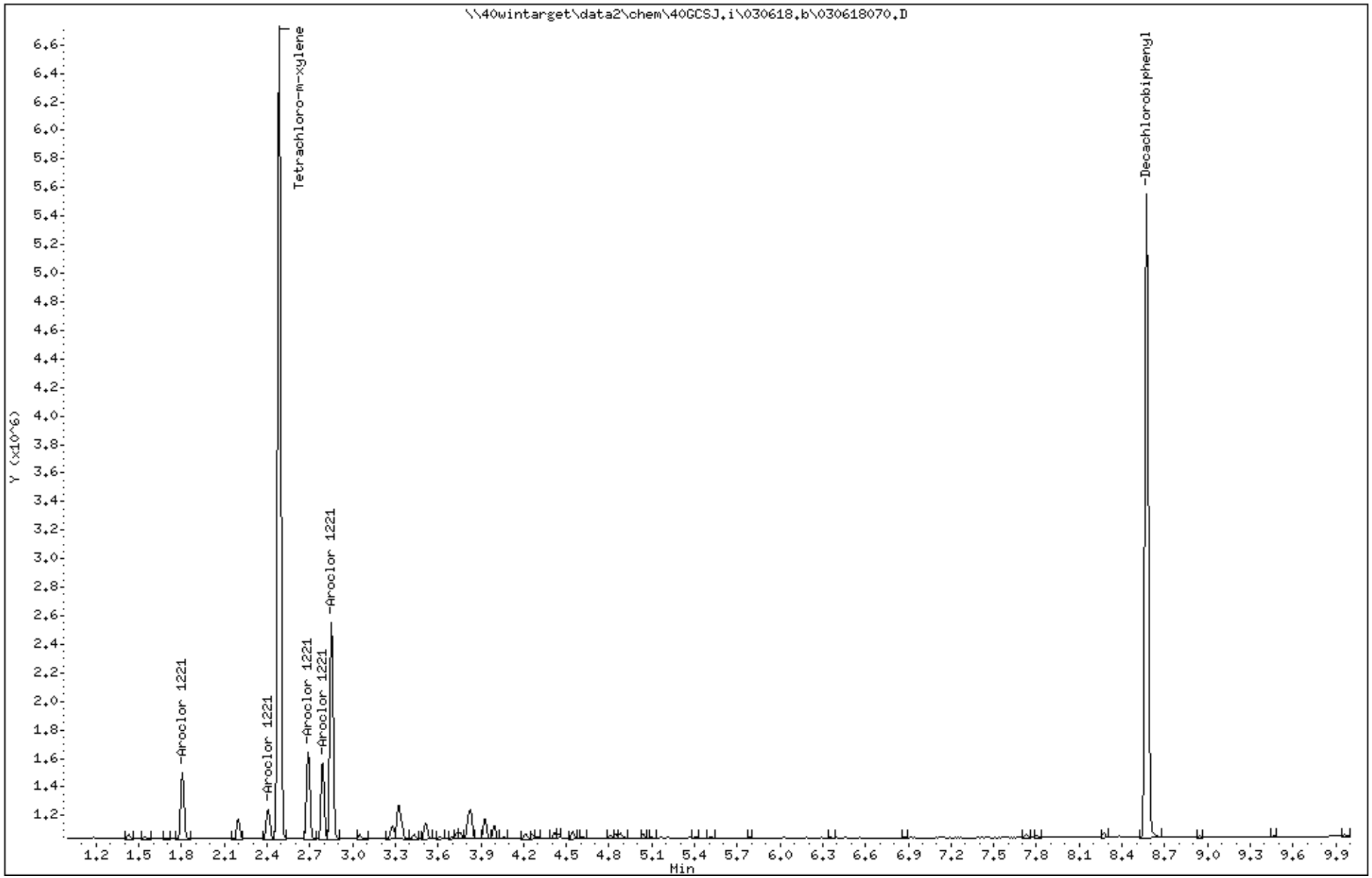
M - Compound response manually integrated.

Review Codes Legend

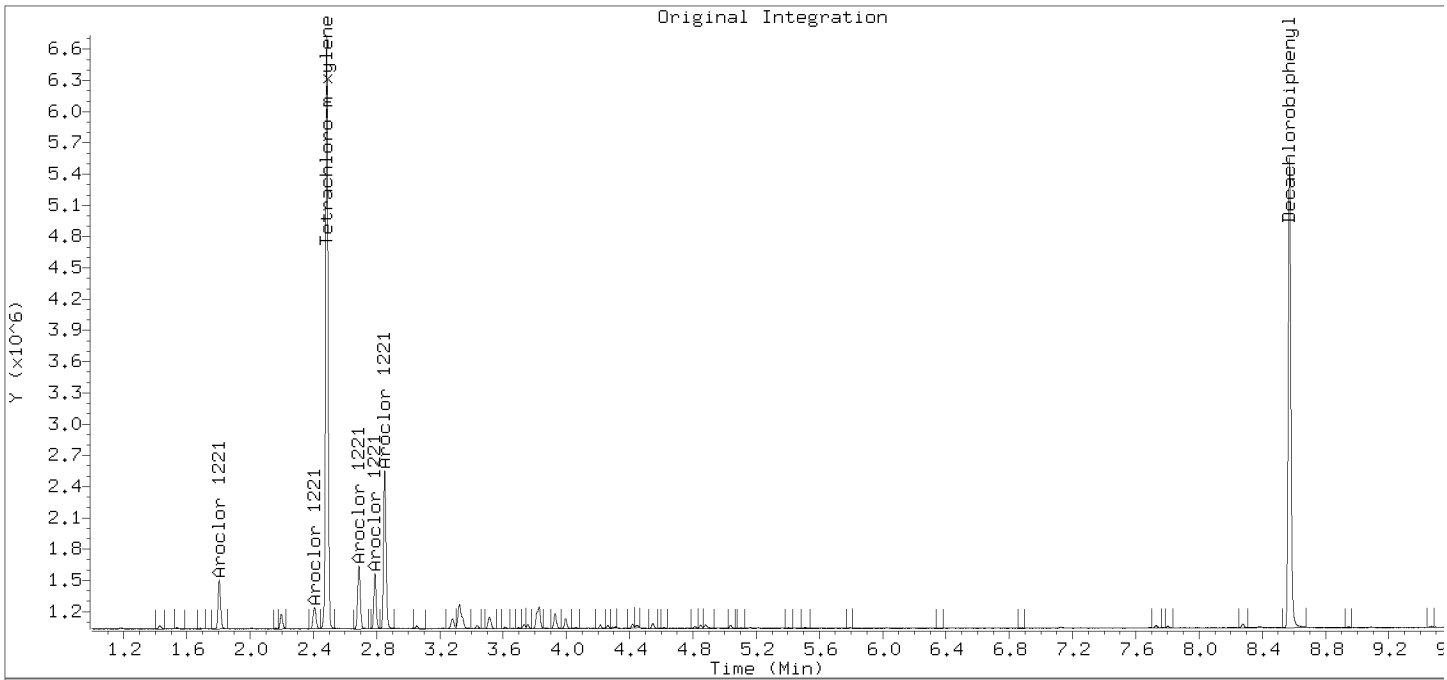
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

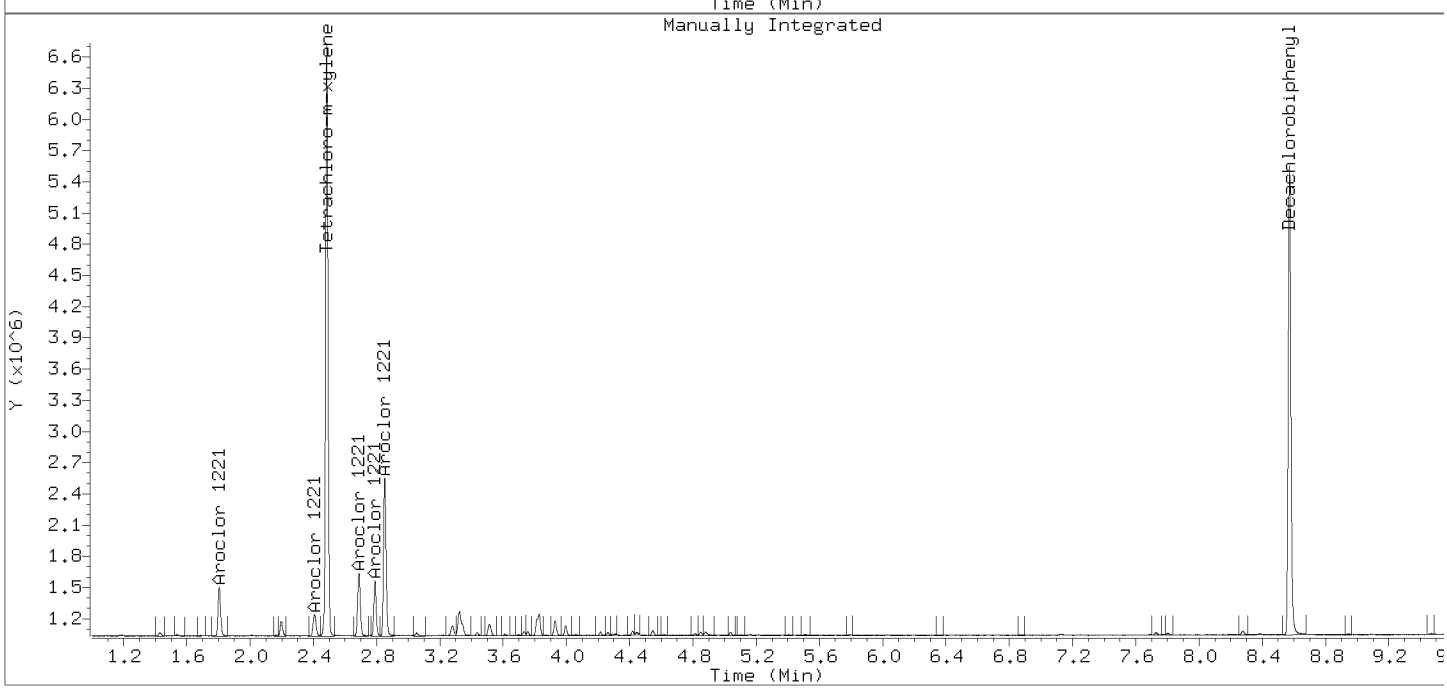
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618070.D
Date : 06-MAR-2018 20:11
Client ID: 1221-ICV
Sample Info: 1221-ICV, 188142:1

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

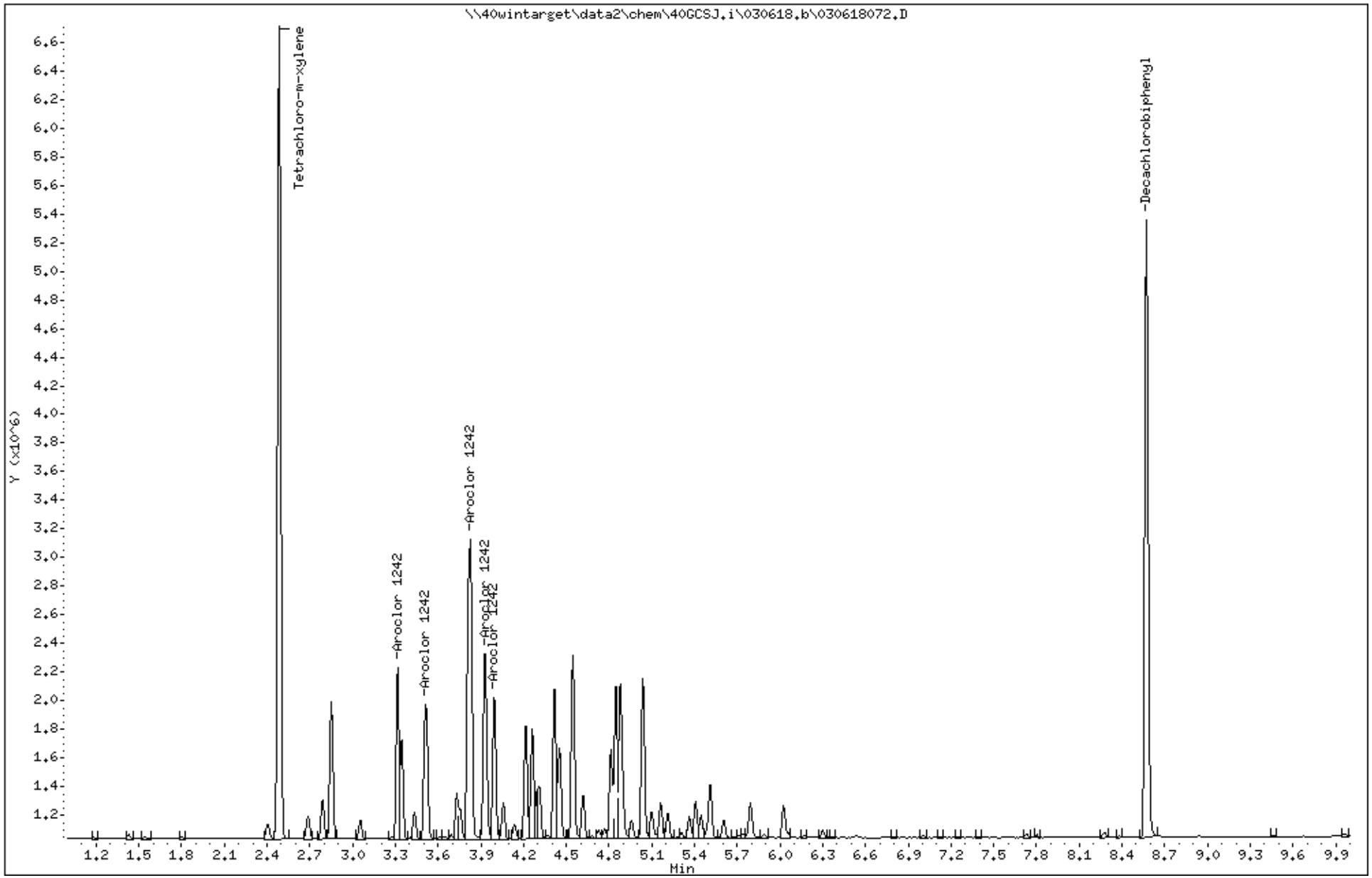
M - Compound response manually integrated.

Review Codes Legend

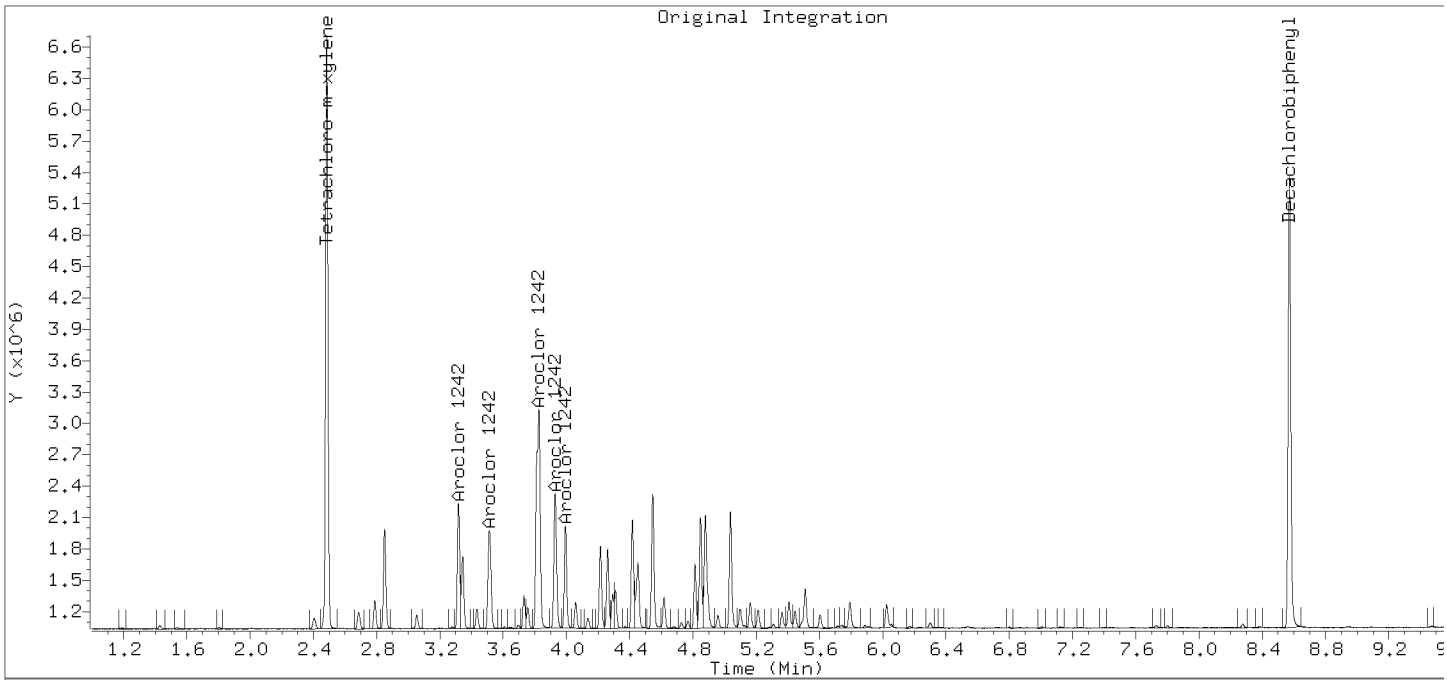
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

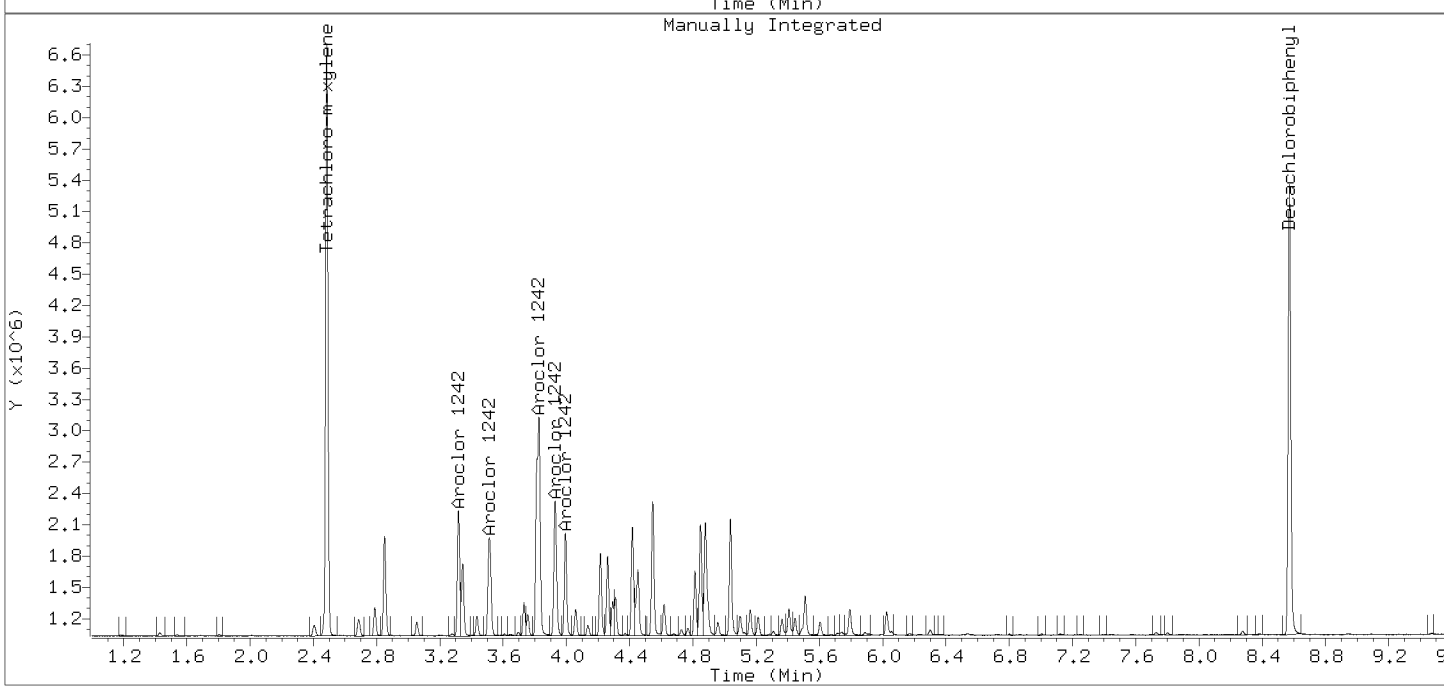
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618072.D
Date : 06-MAR-2018 20:27
Client ID: 1242-ICV
Sample Info: 1242-ICV, 185562:1

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

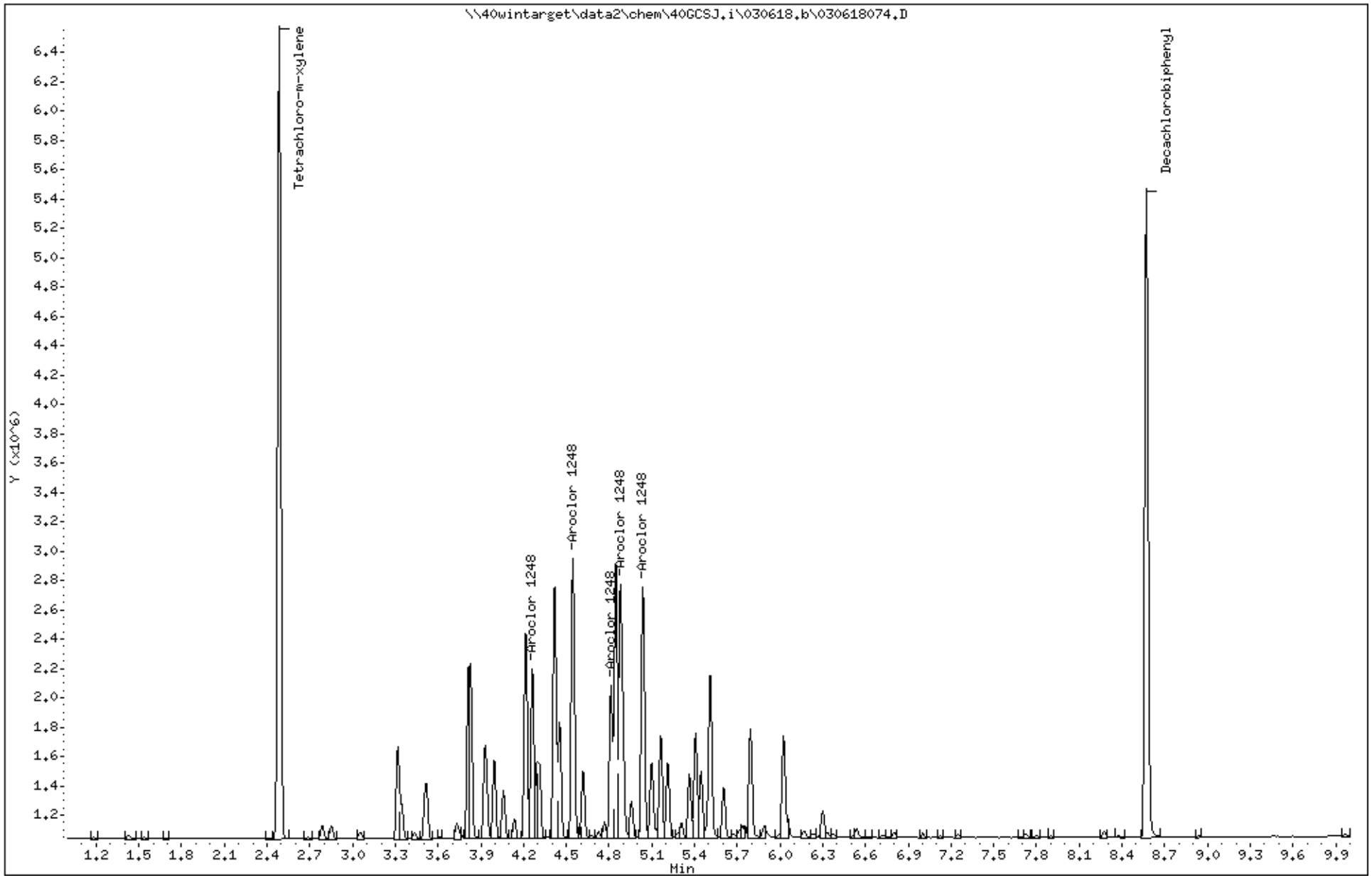
M - Compound response manually integrated.

Review Codes Legend

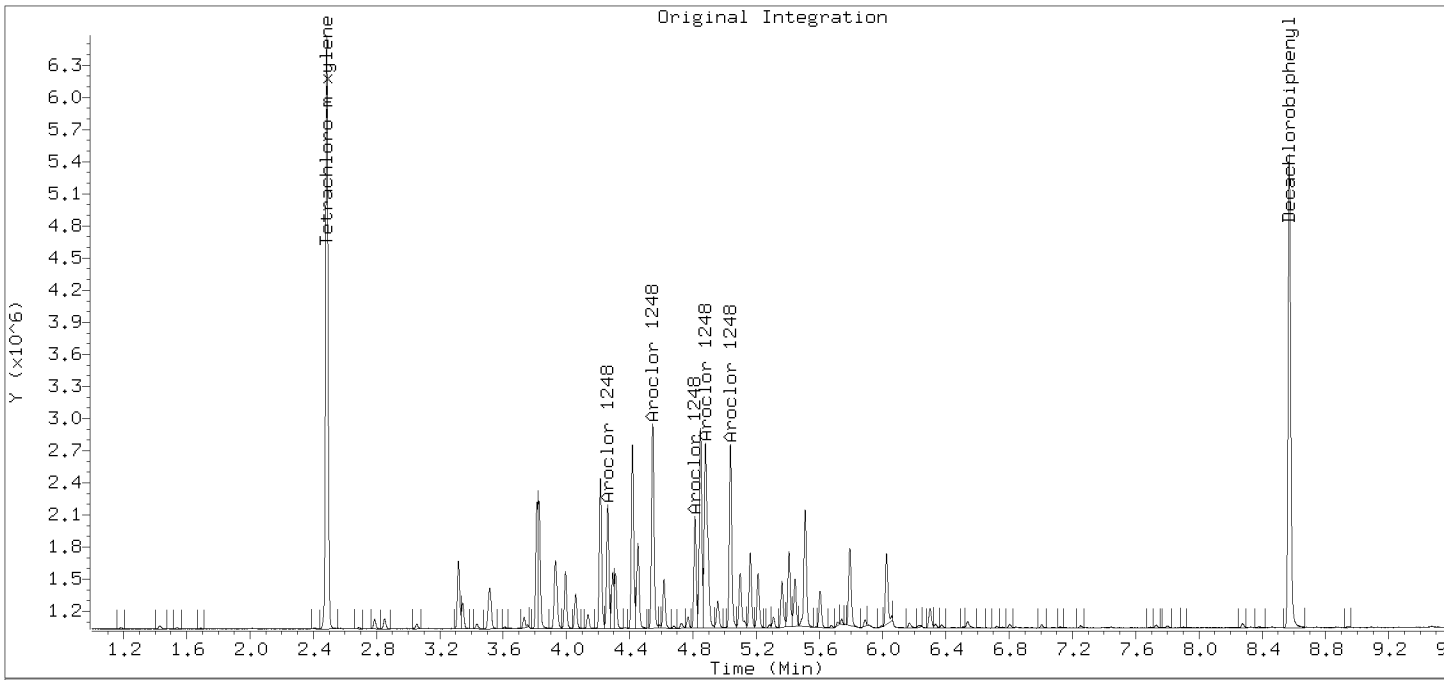
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

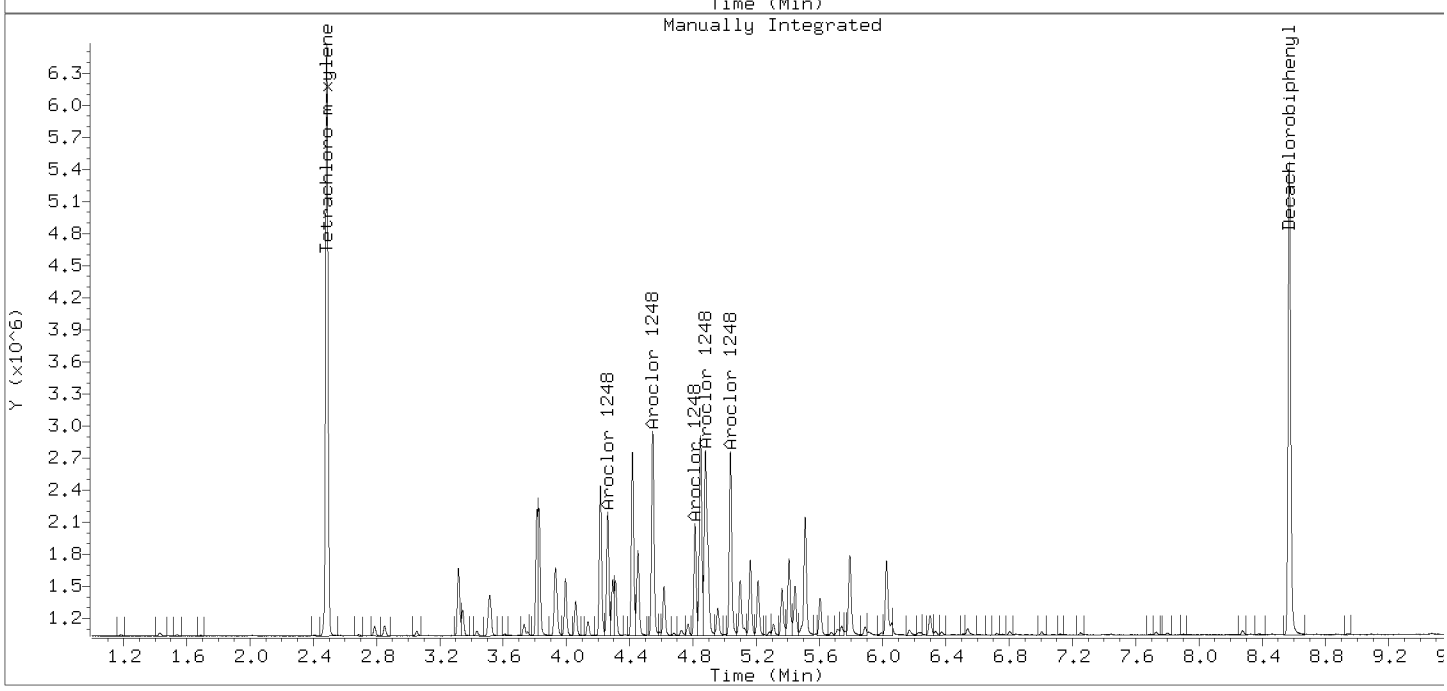
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618074.D
Date : 06-MAR-2018 20:44
Client ID: 1248-ICV
Sample Info: 1248-ICV, 185563:1

Instrument: 40GCSJ.i
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

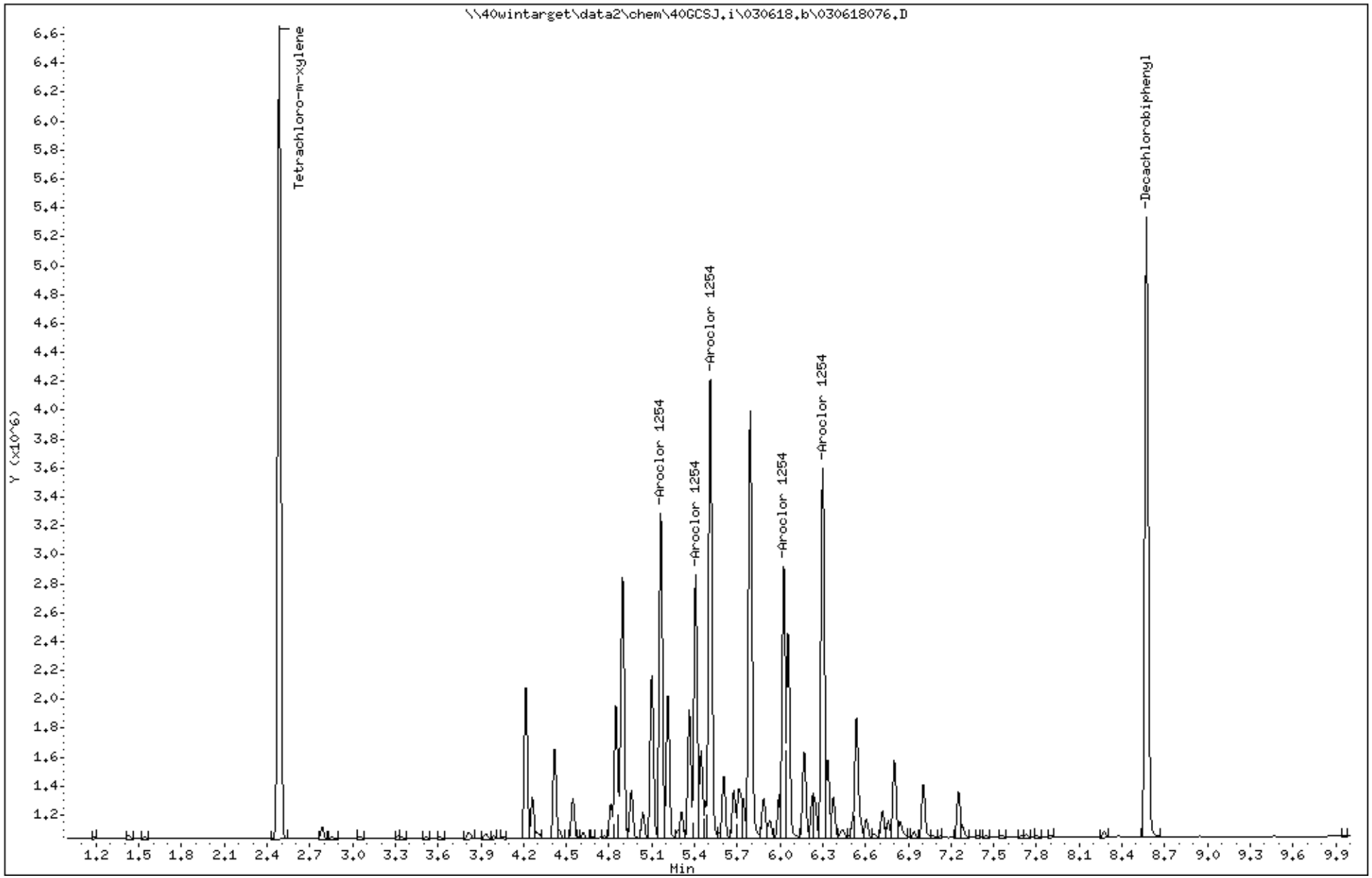
Instrument: 40GCSJ.i

Sample Info: 1254-ICV, 185564:1

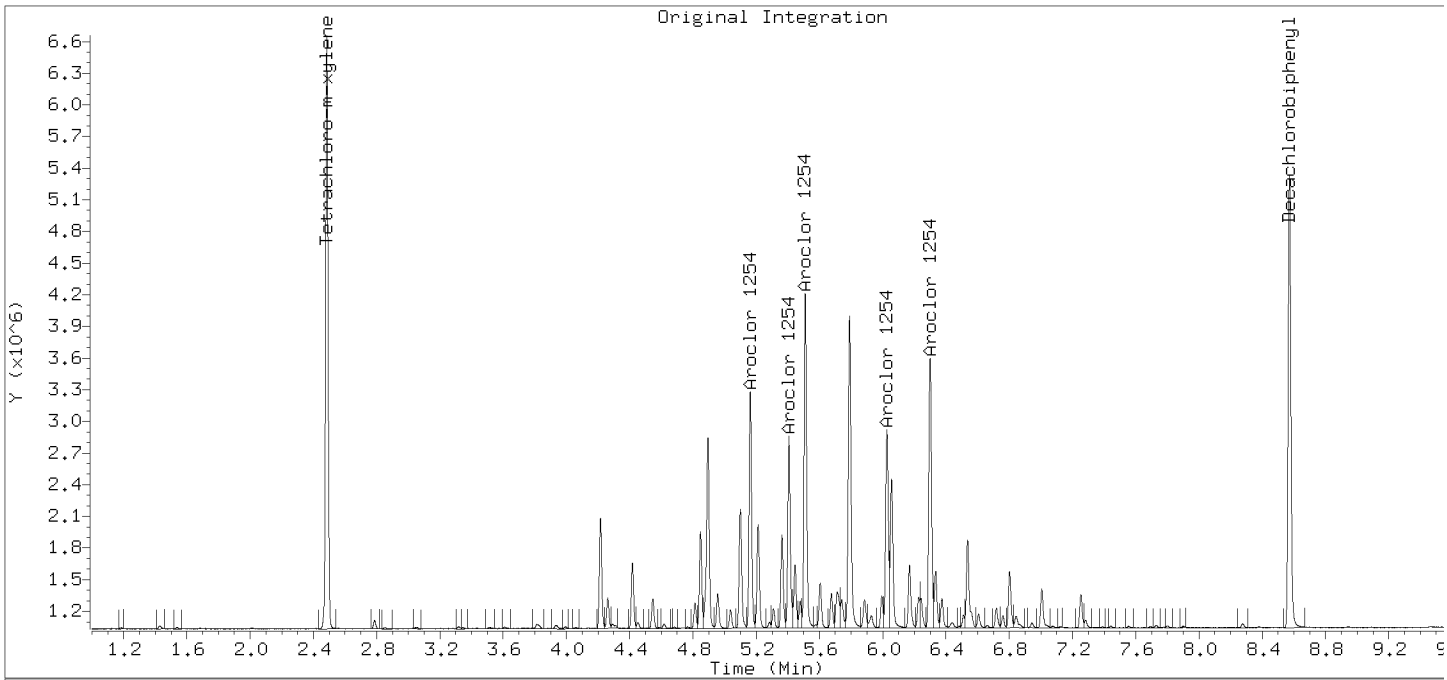
Operator: BLM

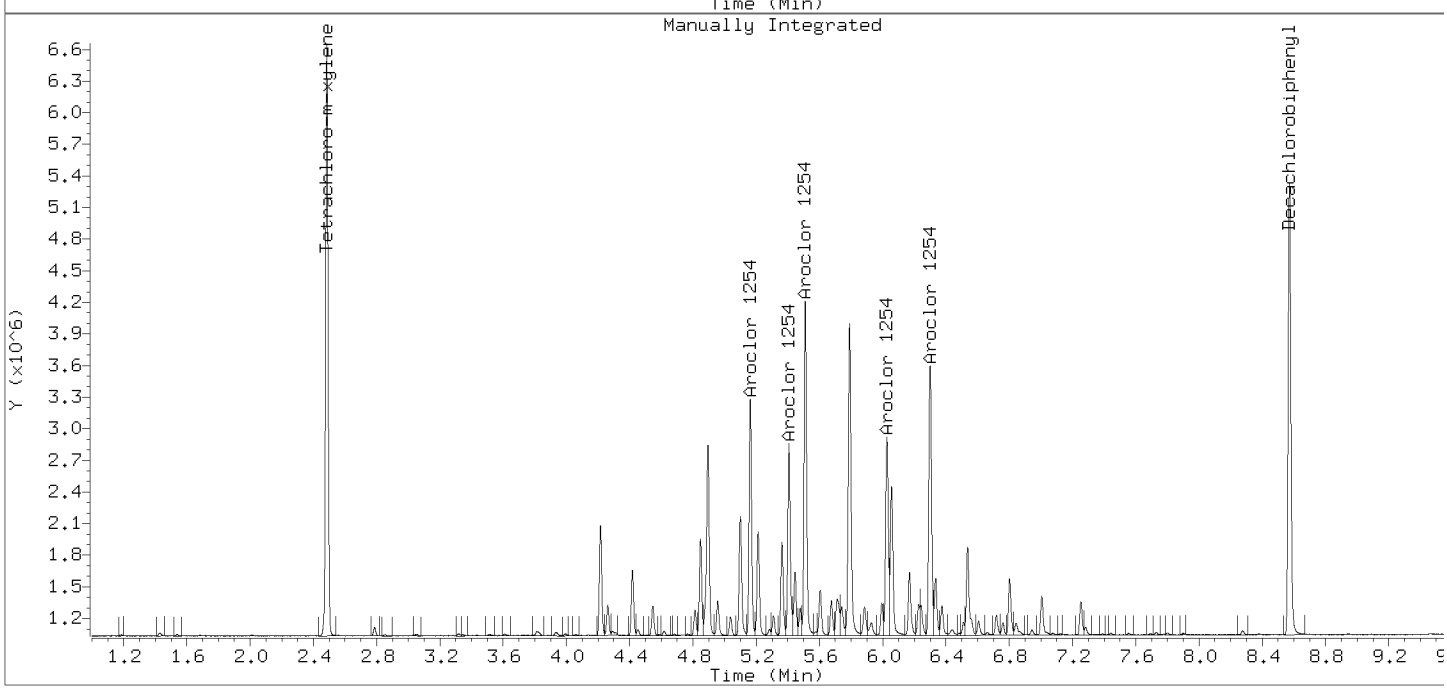
Column phase: ZB-1ms

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	

Data File: ...wintarget\data2\chem\40GCSJ.i\030618.b\030618078.D Page 3
Report Date: 22-Mar-2018 13:35

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

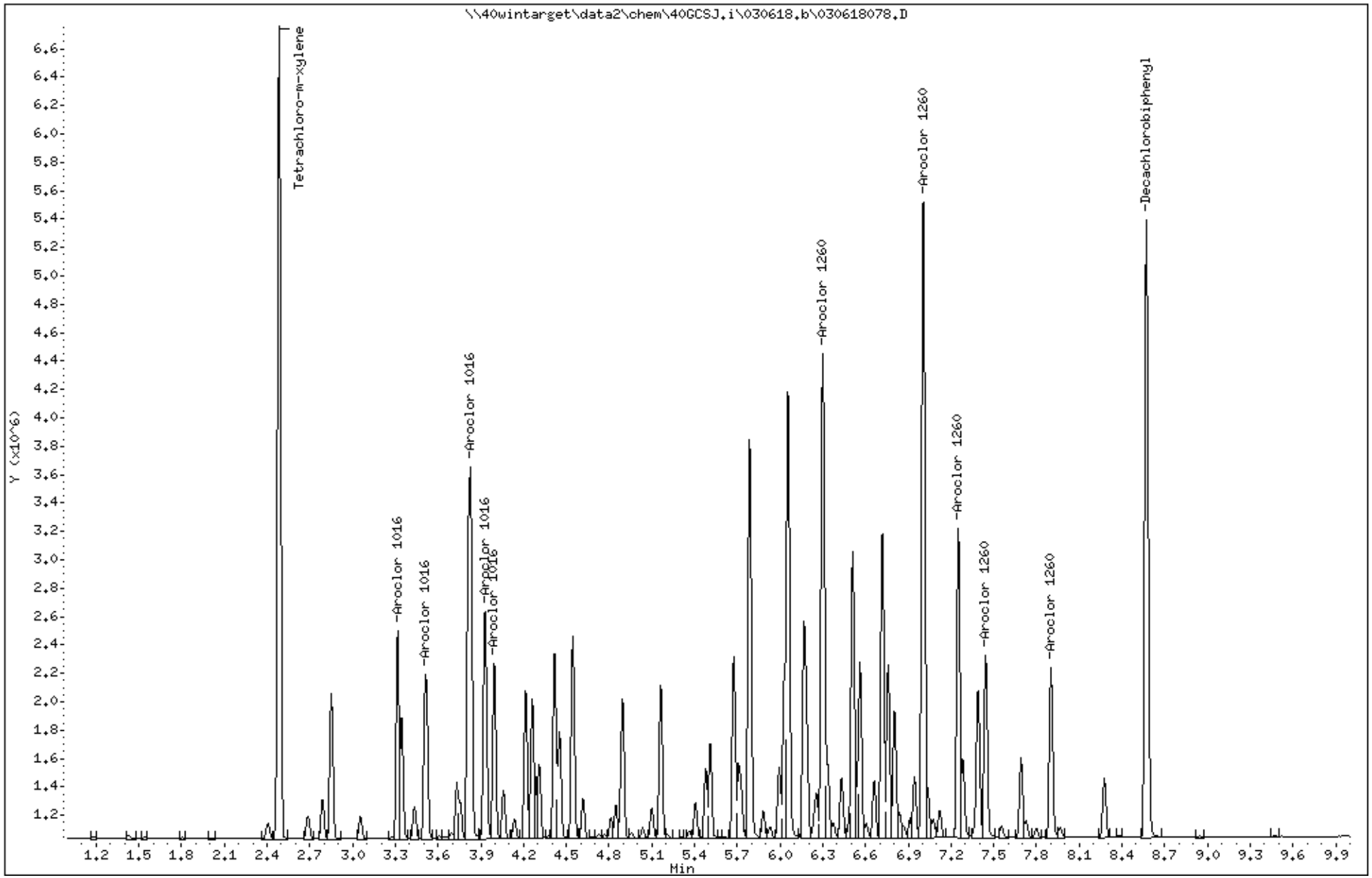
Instrument: 40GCSJ.i

Sample Info: 1660-ICV, 185565:1

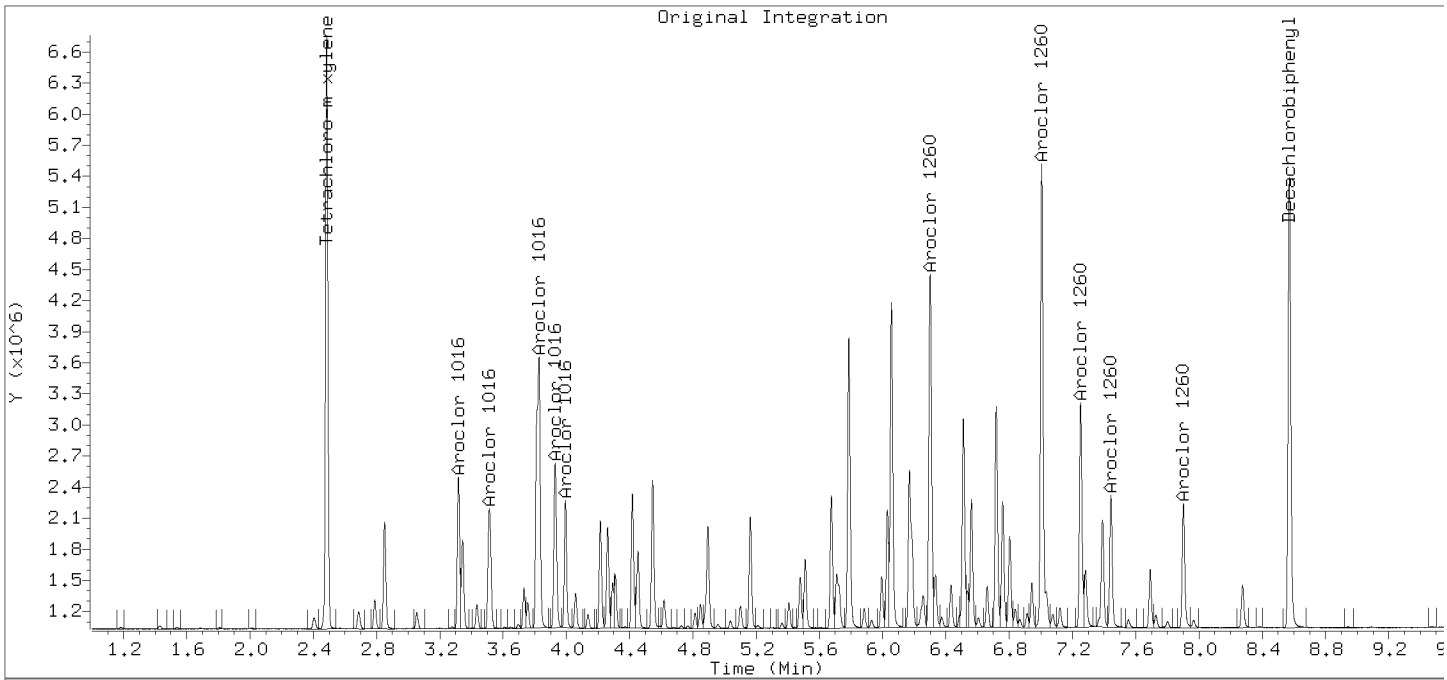
Operator: BLM

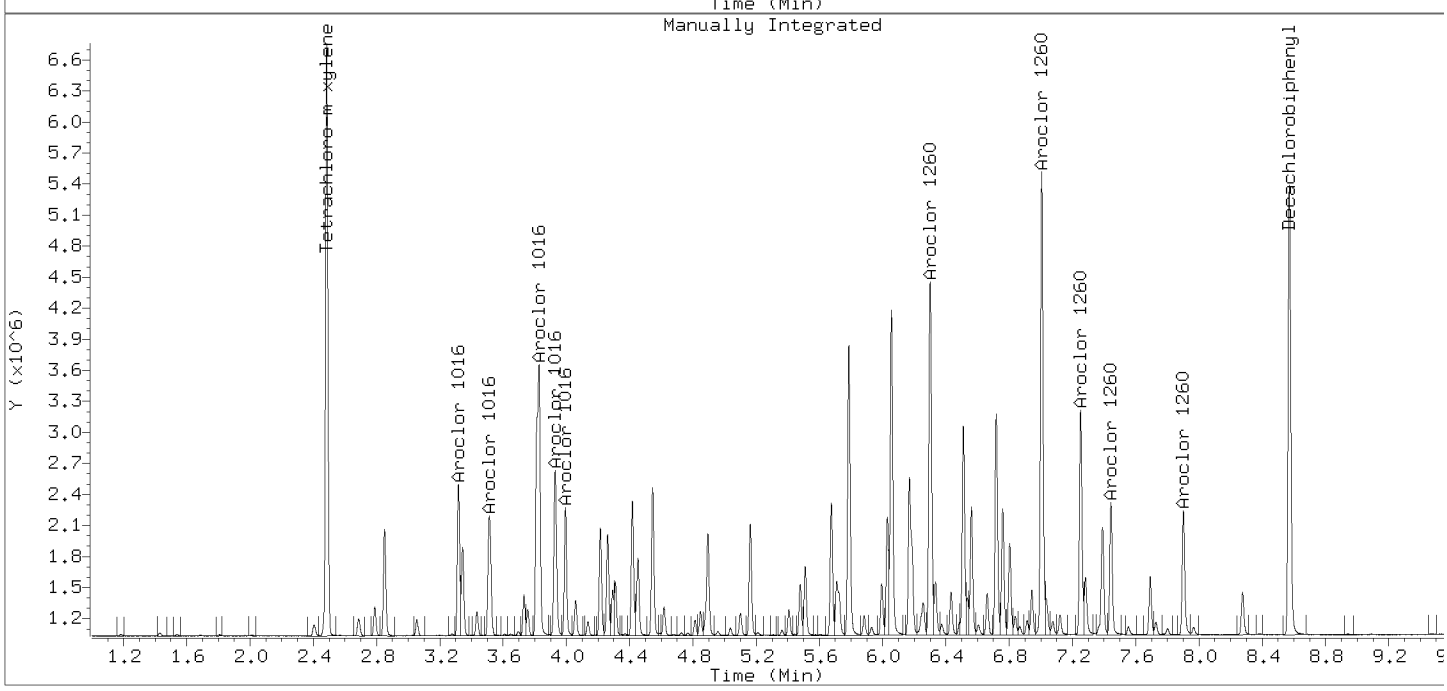
Column phase: ZB-1ms

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\041218.b\041218004.D
Lab Smp Id: 1242-CCV Client Smp ID: 1242-CCV
Inj Date : 12-APR-2018 11:50
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-ccv, 185544:1
Misc Info : 17498,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041218.b\pcba030618.m
Meth Date : 19-Apr-2018 09:02 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: AR1242.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.186	41655	31983	0.768	0.09		
1.428	39914	31857	0.798	0.09		
1.684	10397	11429	1.099	0.02		
1.801	17579	12608	0.717	0.04		
2.010	30189	18531	0.614	0.07		
2.404	126144	95595	0.758	0.29		
2.485	6505693	5919866	0.910	15.72	$ 2 Tetrachloro-m-xylene	
2.687	197780	153029	0.774	0.46		
2.789	295609	264757	0.896	0.69		
2.851	1038694	934496	0.900	2.44		
3.056	160550	139459	0.869	0.37		
3.276	26013	19936	0.766	0.06		
3.318	1398733	1272117	0.909	3.29	3 Aroclor 1242	BA
3.345	808321	739279	0.915	1.90		
3.434	230387	199304	0.865	0.54		
3.514	1383835	1003578	0.725	3.26	3 Aroclor 1242	BA
3.608	21645	19175	0.886	0.05		
3.646	28714	16017	0.558	0.06		
3.696	40763	38627	0.948	0.09		
3.733	348732	340802	0.977	0.82		
3.756	235714	218760	0.928	0.55		
3.827	3924156	2256017	0.575	9.25	3 Aroclor 1242	BA
3.930	1684616	1363334	0.809	3.97	3 Aroclor 1242	BA
3.995	1132017	1054462	0.931	2.67	3 Aroclor 1242	BA
4.058	333701	300410	0.900	0.78		
4.136	128274	116785	0.910	0.30		
4.215	939995	882628	0.939	2.21		
4.262	902788	871628	0.965	2.12		
4.293	370280	377338	1.019	0.87		
4.311	471621	431150	0.914	1.11		
4.371	33714	22258	0.660	0.07		
4.417	1238699	1137434	0.918	2.92		
4.452	960735	710623	0.740	2.26		
4.546	1619304	1470126	0.908	3.81		
4.618	366445	330996	0.903	0.86		
4.679	26288	21047	0.801	0.06		
4.727	77618	66586	0.858	0.18		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.769	88699	82285	0.928	0.20	
4.814	738797	723545	0.979	1.74	
4.848	1270622	1176418	0.926	2.99	
4.878	1662408	1169331	0.703	3.92	
4.958	192117	146596	0.763	0.45	
5.038	1353248	1208917	0.893	3.19	
5.099	298819	223832	0.749	0.70	
5.162	341425	290612	0.851	0.80	
5.213	263278	235378	0.894	0.62	
5.285	20630	19738	0.957	0.04	
5.309	61355	50459	0.822	0.14	
5.363	219241	188078	0.858	0.51	
5.406	376366	305694	0.812	0.88	
5.446	231644	207735	0.897	0.54	
5.511	600044	469775	0.783	1.41	
5.605	181071	155164	0.857	0.42	
5.717	44115	31290	0.709	0.10	
5.742	60509	41561	0.687	0.14	
5.793	414504	326518	0.788	0.97	
5.889	50932	38301	0.752	0.12	
6.025	317164	268385	0.846	0.74	
6.170	17220	18416	1.069	0.04	
6.228	20029	13166	0.657	0.04	
6.299	110789	93247	0.842	0.26	
6.336	26678	19403	0.727	0.06	
6.375	20163	15056	0.747	0.04	
6.445	18751	11121	0.593	0.04	
6.538	46728	36004	0.771	0.11	
6.804	24868	21680	0.872	0.05	
7.006	11775	10378	0.881	0.02	
7.130	36905	18874	0.511	0.08	
7.693	10134	10525	1.039	0.02	
7.730	35902	29729	0.828	0.08	
7.777	13846	15488	1.119	0.03	
7.803	34090	29798	0.874	0.08	
8.275	64419	50251	0.780	0.15	
8.379	26064	18663	0.716	0.06	
8.571	5804338	4815692	0.830	13.69	$ 12 Decachlorobiphenyl
8.944	18098	14155	0.782	0.04	
9.469	27135	13200	0.486	0.06	
9.866	9581	9830	1.026	0.02	
9.883	17613	10972	0.623	0.04	
9.961	16351	12903	0.789	0.03	
	42395778	35542190		100.000	

Total unknown % area = 48

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041218.b\041218004.D
Lab Smp Id: 1242-CCV Client Smp ID: 1242-CCV
Inj Date : 12-APR-2018 11:50
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-ccv, 185544:1
Misc Info : 17498,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041218.b\pcba030618.m
Meth Date : 19-Apr-2018 09:02 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: 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		
2.485	2.484	0.001	6505692	0.05000	0.053			
3 Aroclor 1242						CAS #: 53469-21-9		
3.317	3.318	-0.001	1398733	0.50000	0.55	0.00- 20.00	100.00(M)	BA
3.513	3.513	0.000	1383834	0.50000	0.55	0.00- 20.00	98.93	BA
3.826	3.827	-0.001	3924156	0.50000	0.55	0.00- 20.00	280.55	BA
3.929	3.929	0.000	1684616	0.50000	0.55	0.00- 20.00	120.44	BA
3.995	3.995	0.000	1132017	0.50000	0.55	0.00- 20.00	80.93	BA
Average of Peak Amounts =					0.55000			
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
8.571	8.571	0.000	5804338	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.

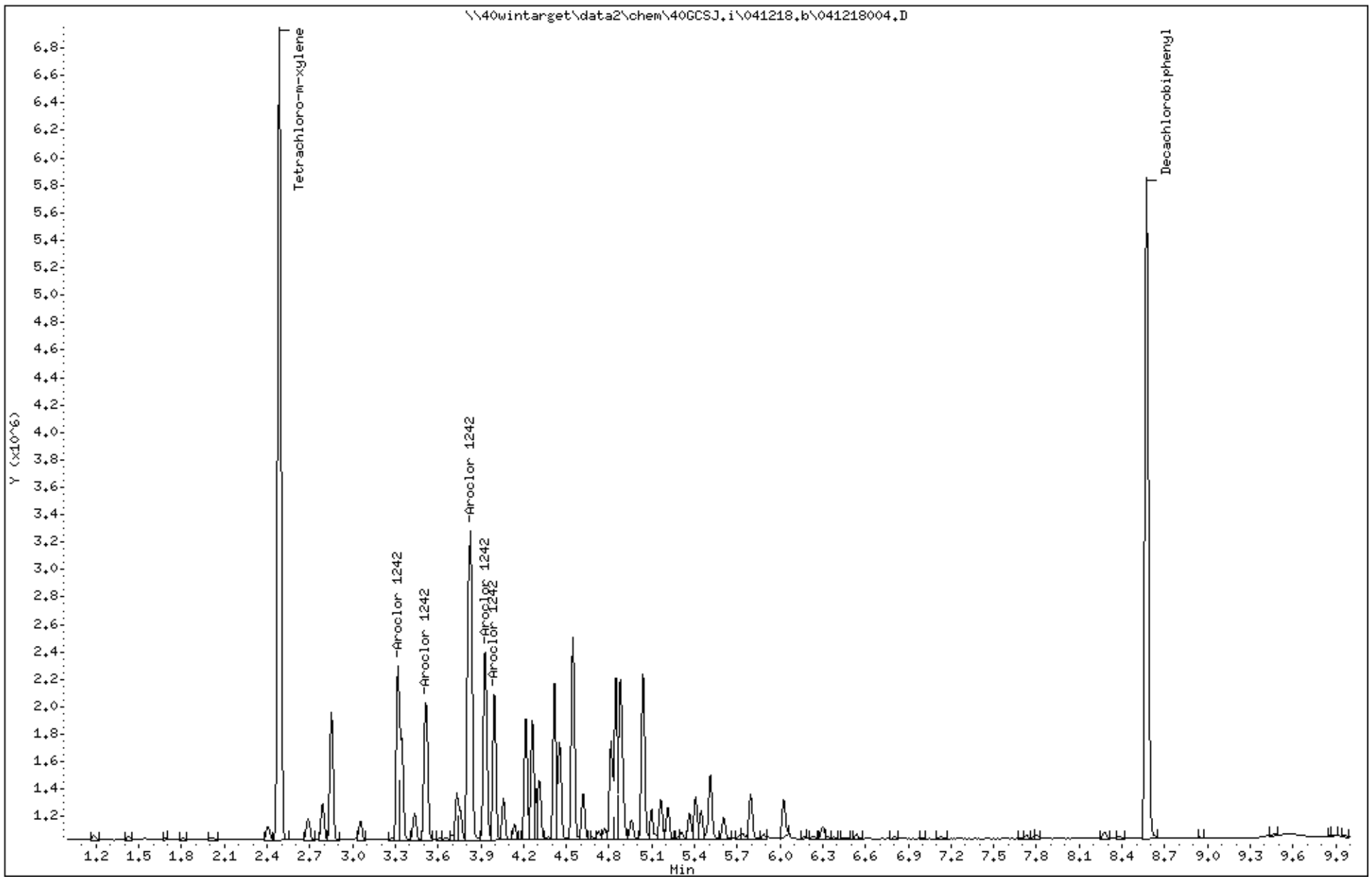
Data File: \\40wintarget\data2\chem\40GCSJ.i\041218.b\041218004.D
Date : 12-APR-2018 11:50
Client ID: 1242-CCV
Sample Info: 1242-CCV, 185544:1

Instrument: 40GCSJ.i

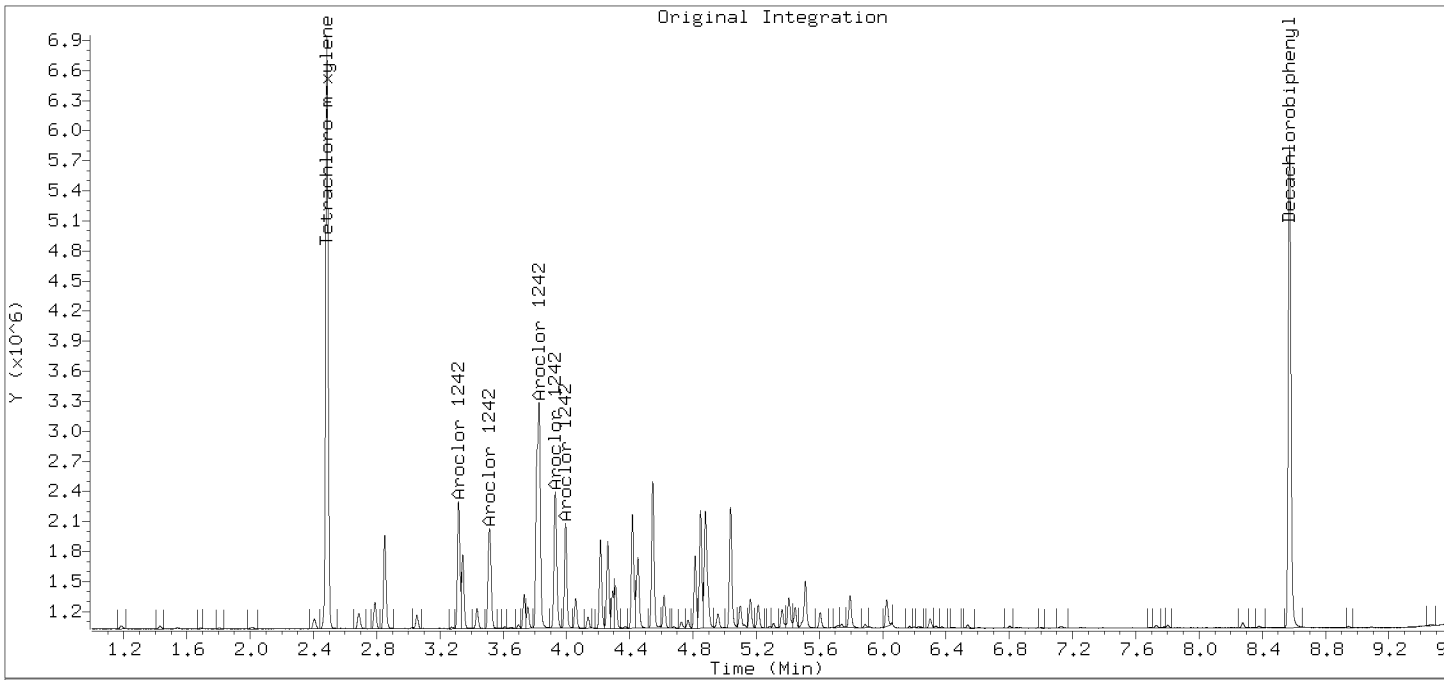
Operator: BLM

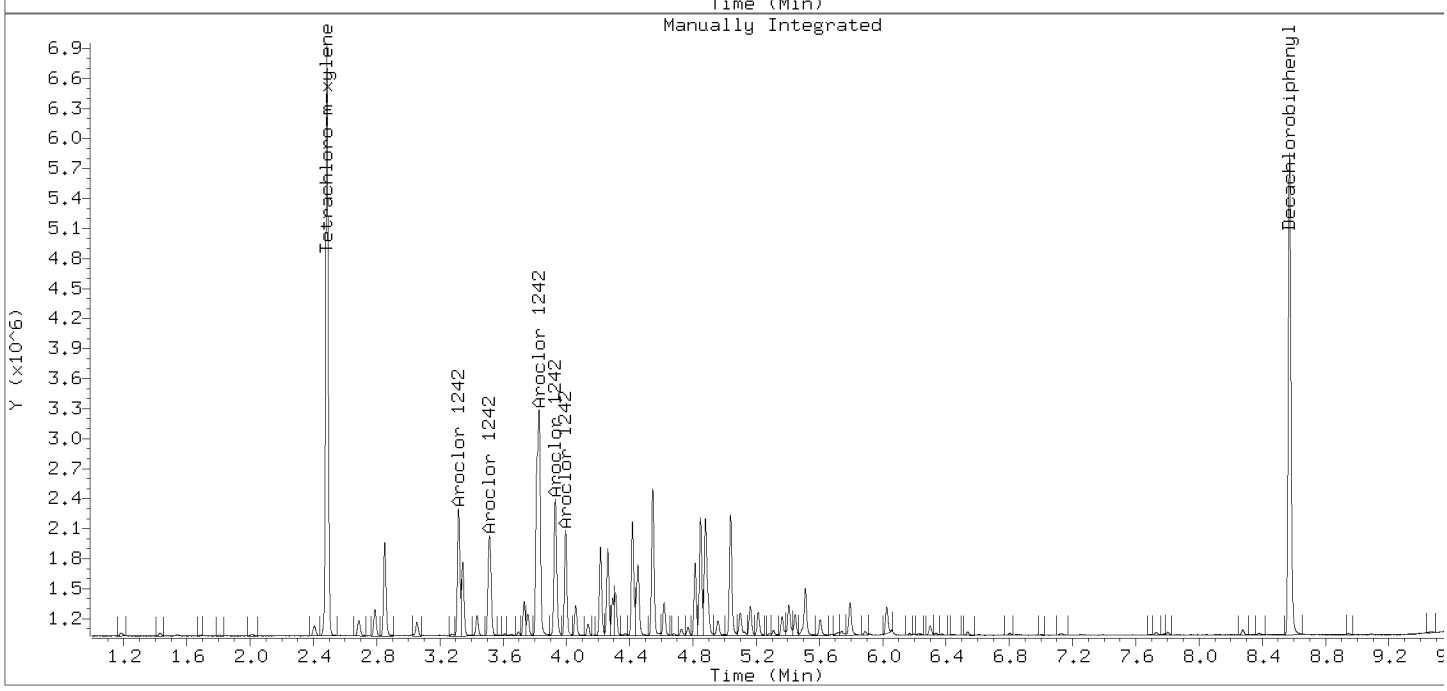
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041218.b/041218004.D (ManInt: AR1242.sub Orig: AR1242.sub)
Injection Date: 12-APR-2018 11:50 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1242-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1242	1392206	1398733	BA
Aroclor 1242	1392206	1398733	BA
Aroclor 1242	1392206	1398733	BA
Aroclor 1242	1392206	1398733	BA
Aroclor 1242	1392206	1398733	BA
Tetrachloro-m-xylene	6505692	6505692	
Decachlorobiphenyl	5804338	5804338	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041218.b\041218016.D
Lab Smp Id: 1248-CCV Client Smp ID: 1248-CCV
Inj Date : 12-APR-2018 15:01
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-ccv, 185549:1
Misc Info : 17498,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041218.b\pcba030618.m
Meth Date : 19-Apr-2018 09:02 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: AR1248.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.189	28080	21877	0.779	0.05		
1.430	39327	31408	0.799	0.08		
1.539	17818	13632	0.765	0.03		
1.688	17324	15909	0.918	0.03		
2.014	22408	14361	0.641	0.04		
2.405	27935	18378	0.658	0.05		
2.485	6450437	5823774	0.903	13.85	$ 2 Tetrachloro-m-xylene	
2.686	36923	26861	0.727	0.07		
2.789	129986	114367	0.880	0.27		
2.850	207765	184432	0.888	0.43		
3.031	9736	11451	1.176	0.02		
3.055	67608	57603	0.852	0.14		
3.318	764493	711182	0.930	1.59		
3.344	322753	296359	0.918	0.67		
3.435	73326	63558	0.867	0.15		
3.514	642142	468467	0.730	1.33		
3.611	18734	18544	0.990	0.03		
3.641	11053	10244	0.927	0.02		
3.695	9896	11120	1.124	0.02		
3.732	143385	140381	0.979	0.29		
3.754	64114	58559	0.913	0.13		
3.814	1232899	1293455	1.049	2.56		
3.826	1358209	1378750	1.015	2.82		
3.931	976472	761486	0.780	2.03		
3.994	651631	608312	0.934	1.35		
4.059	367032	340768	0.928	0.76		
4.136	152375	139832	0.918	0.31		
4.215	1598915	1516716	0.949	3.32		
4.262	1289086	1192364	0.925	2.68	6 Aroclor 1248	BA
4.293	533422	545570	1.023	1.11		
4.311	570657	532554	0.933	1.18		
4.418	1959951	1777912	0.907	4.07		
4.453	986423	845704	0.857	2.05		
4.546	2243380	2018698	0.900	4.66	6 Aroclor 1248	BA
4.590	33985	36621	1.078	0.07		
4.617	523762	478985	0.915	1.09		
4.678	29323	22293	0.760	0.06		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.726	70494	52500	0.745	0.14	
4.769	119686	112954	0.944	0.24	
4.813	1119435	1054750	0.942	2.33	6 Aroclor 1248
4.848	2152247	1980622	0.920	4.47	
4.879	2797841	1837509	0.657	5.82	6 Aroclor 1248
4.958	332797	274393	0.825	0.69	
5.037	1988301	1799373	0.905	4.13	6 Aroclor 1248
5.099	710649	564761	0.795	1.47	
5.163	843349	755585	0.896	1.75	
5.212	611635	542877	0.888	1.27	
5.284	42062	39483	0.939	0.08	
5.309	134515	113146	0.841	0.27	
5.363	525355	463728	0.883	1.09	
5.407	894415	773141	0.864	1.86	
5.447	549179	476191	0.867	1.14	
5.510	1488940	1178825	0.792	3.09	
5.604	423370	367400	0.868	0.88	
5.674	52118	42922	0.824	0.10	
5.716	92273	68719	0.745	0.19	
5.741	109715	90477	0.825	0.22	
5.793	1042836	797703	0.765	2.17	
5.888	141256	85061	0.602	0.29	
5.996	31496	30738	0.976	0.06	
6.025	841517	707276	0.840	1.75	
6.056	192196	145089	0.755	0.40	
6.169	93298	60584	0.649	0.19	
6.227	59610	32953	0.553	0.12	
6.299	260815	219574	0.842	0.54	
6.334	53076	41832	0.788	0.11	
6.374	43131	31408	0.728	0.08	
6.437	26179	13306	0.508	0.05	
6.509	45554	43127	0.947	0.09	
6.536	104551	69363	0.663	0.21	
6.607	15848	10965	0.692	0.03	
6.659	12043	10380	0.862	0.02	
6.718	39556	36060	0.912	0.08	
6.760	18119	17534	0.968	0.03	
6.804	41053	36008	0.877	0.08	
6.838	11095	11805	1.064	0.02	
7.006	77230	67923	0.879	0.16	
7.121	11339	10856	0.957	0.02	
7.251	28068	24192	0.862	0.05	
7.388	34538	28992	0.839	0.07	
7.443	38127	29920	0.785	0.07	
7.694	19982	15348	0.768	0.04	
7.727	37123	30801	0.830	0.07	
7.774	11168	10786	0.966	0.02	
7.800	31426	23939	0.762	0.06	
7.900	32463	25492	0.785	0.06	
8.275	69290	56378	0.814	0.14	
8.376	21443	13310	0.621	0.04	
8.571	5849253	4898827	0.838	12.17	$ 12 Decachlorobiphenyl
9.084	15618	8708	0.558	0.03	
9.465	10196	8068	0.791	0.02	
9.962	12406	11665	0.940	0.02	
	48044044	41857814		100.000	

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041218.b\041218016.D
Lab Smp Id: 1248-CCV Client Smp ID: 1248-CCV
Inj Date : 12-APR-2018 15:01
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-ccv, 185549:1
Misc Info : 17498,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041218.b\pcba030618.m
Meth Date : 19-Apr-2018 09:02 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: 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	6450436	0.05000	0.052			
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	1289086	0.50000	0.55	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	2243379	0.50000	0.54	0.00- 20.00	174.03	BA
4.812	4.812	0.000	1119435	0.50000	0.55	0.00- 20.00	86.84	BA
4.878	4.879	-0.001	2797841	0.50000	0.56	0.00- 20.00	217.04	BA
5.036	5.038	-0.002	1988301	0.50000	0.55	0.00- 20.00	154.24	BA
Average of Peak Amounts =					0.55000			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	5849253	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\041218.b\041218016.D

Date : 12-APR-2018 15:01

Client ID: 1248-CCV

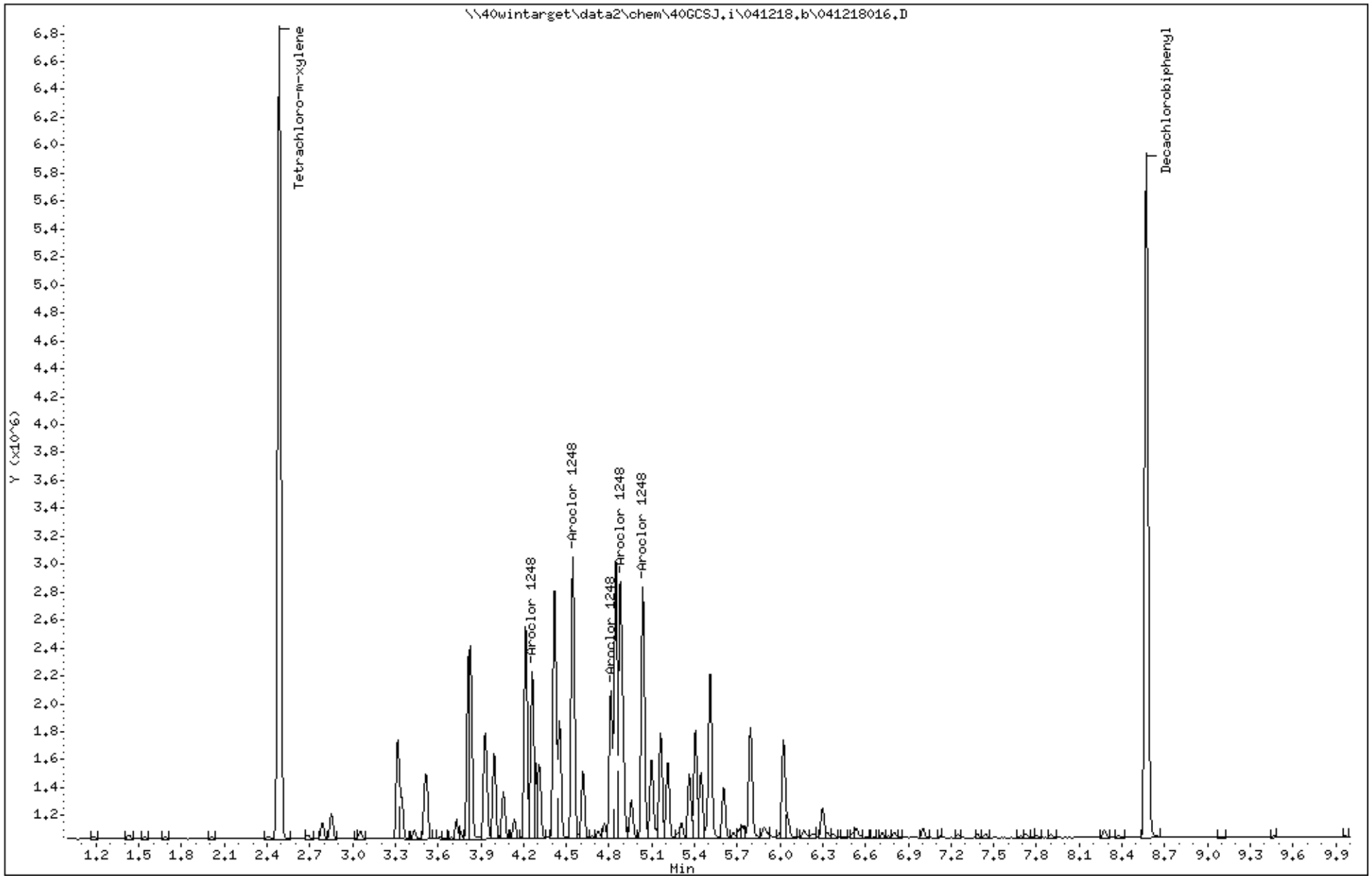
Instrument: 40GCSJ.i

Sample Info: 1248-CCV, 185549:1

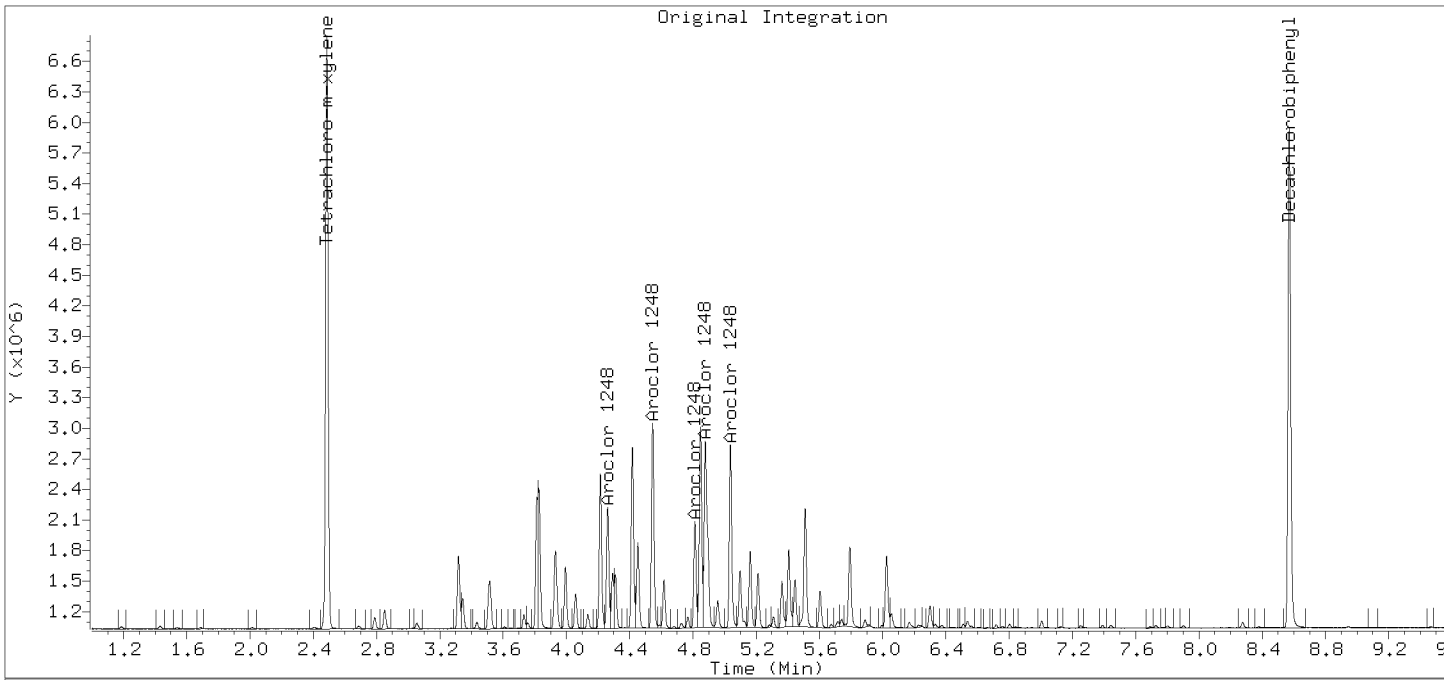
Operator: BLM

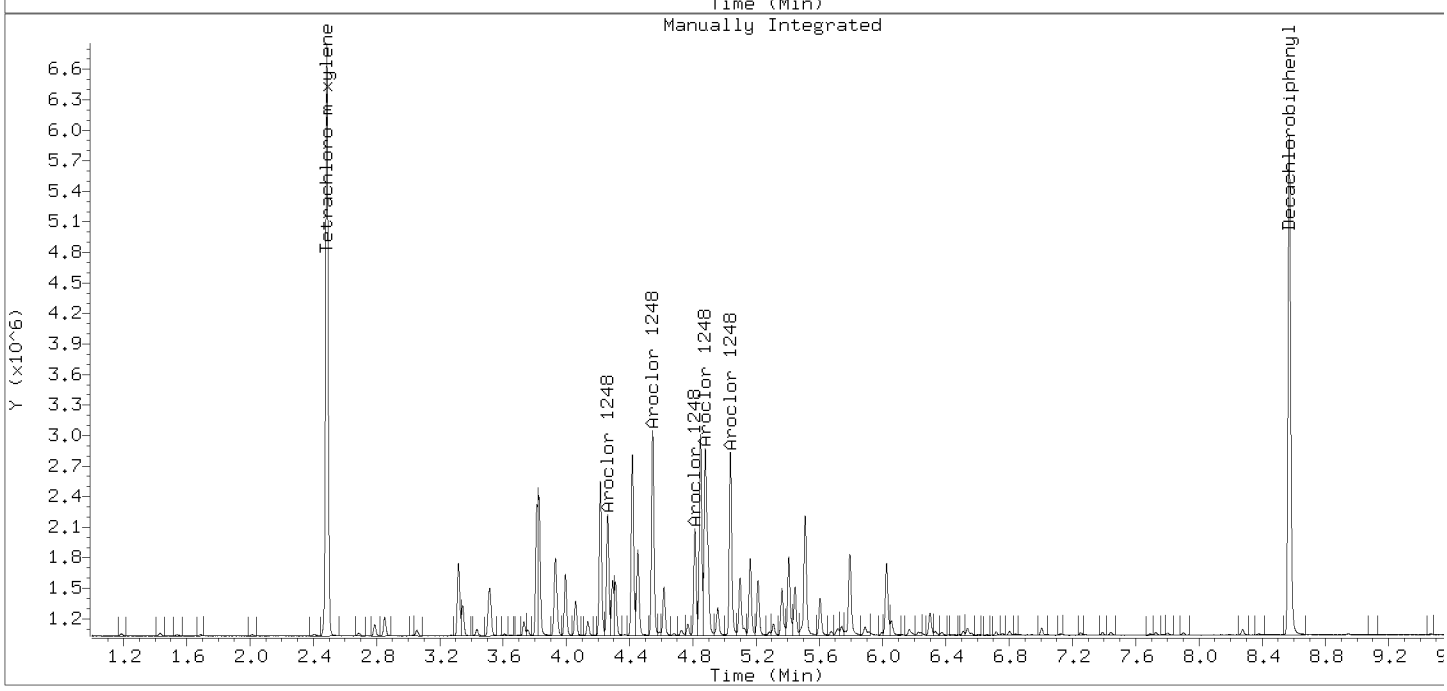
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041218.b/041218016.D (ManInt: AR1248.sub Orig: AR1248.sub)
Injection Date: 12-APR-2018 15:01 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1248-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1248	1279289	1289086	BA
Aroclor 1248	1279289	1289086	BA
Aroclor 1248	1279289	1289086	BA
Aroclor 1248	1279289	1289086	BA
Aroclor 1248	1279289	1289086	BA
Tetrachloro-m-xylene	6450436	6450436	
Decachlorobiphenyl	5849253	5849253	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041218.b\041218028.D
Lab Smp Id: 1254-CCV Client Smp ID: 1254-CCV
Inj Date : 12-APR-2018 18:11
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-ccv, 185554:1
Misc Info : 17498,AR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041218.b\pcba030618.m
Meth Date : 19-Apr-2018 09:02 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: AR1254.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.179	9837	8144	0.828	0.01		
1.431	43053	29878	0.694	0.07		
1.543	26252	14292	0.544	0.04		
2.486	6303784	5612268	0.890	11.58	$ 2 Tetrachloro-m-xylene	
2.787	91301	85430	0.936	0.16		
2.850	22700	18416	0.811	0.04		
3.052	27972	19377	0.693	0.04		
3.320	31264	31232	0.999	0.05		
3.343	20762	16883	0.813	0.03		
3.466	9590	6283	0.655	0.01		
3.513	36043	23888	0.663	0.06		
3.611	18873	19340	1.025	0.03		
3.730	11383	11483	1.009	0.02		
3.814	104852	59636	0.569	0.18		
3.936	65215	45412	0.696	0.11		
3.994	29233	25624	0.877	0.05		
4.057	26383	19912	0.755	0.04		
4.135	12112	8570	0.708	0.02		
4.215	1300235	1219429	0.938	2.30		
4.261	350422	333804	0.953	0.61		
4.292	64631	46428	0.718	0.11		
4.418	806704	762107	0.945	1.42		
4.455	83060	73350	0.883	0.14		
4.545	362954	336559	0.927	0.64		
4.593	15665	15394	0.983	0.02		
4.618	62552	60361	0.965	0.11		
4.681	19708	17220	0.874	0.03		
4.727	9934	8720	0.878	0.01		
4.767	21543	20233	0.939	0.03		
4.813	309576	298886	0.965	0.54		
4.848	1191934	1108536	0.930	2.10		
4.895	2545886	1956177	0.768	4.50		
4.957	413992	373068	0.901	0.73		
5.038	256687	239066	0.931	0.45		
5.099	1498820	1262614	0.842	2.65		
5.163	2762940	2467916	0.893	4.88	7 Aroclor 1254	BA
5.213	1274647	1140606	0.895	2.25		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.282	62902	61897	0.984	0.11	
5.309	231536	211789	0.915	0.40	
5.363	1104411	1003065	0.908	1.95	
5.407	2307567	2031675	0.880	4.08	7 Aroclor 1254
5.446	785592	701573	0.893	1.38	
5.478	281821	267617	0.950	0.49	
5.510	4132742	3620762	0.876	7.31	7 Aroclor 1254
5.575	35224	35884	1.019	0.06	
5.604	581449	515821	0.887	1.02	
5.676	366656	336401	0.917	0.64	
5.713	581876	367489	0.632	1.02	
5.741	351075	297572	0.848	0.62	
5.790	4223194	3179162	0.753	7.47	
5.885	369695	283563	0.767	0.65	
5.927	193926	121104	0.624	0.34	
5.994	339458	321343	0.947	0.60	
6.027	2671221	2176696	0.815	4.72	7 Aroclor 1254
6.056	1884420	1589625	0.844	3.33	
6.170	755008	648546	0.859	1.33	
6.227	580405	318213	0.548	1.02	
6.298	3516941	2963626	0.843	6.22	7 Aroclor 1254
6.333	631475	555390	0.880	1.11	
6.374	358622	297702	0.830	0.63	
6.440	83987	53111	0.632	0.14	
6.509	124250	133280	1.073	0.21	
6.536	1207158	912613	0.756	2.13	
6.605	172332	142865	0.829	0.30	
6.660	29014	26264	0.905	0.05	
6.718	230220	193082	0.839	0.40	
6.759	135332	121058	0.895	0.23	
6.803	675489	589955	0.873	1.19	
6.844	184654	123913	0.671	0.32	
6.943	60634	51762	0.854	0.10	
7.006	474864	388618	0.818	0.84	
7.074	20067	17686	0.881	0.03	
7.123	14439	12234	0.847	0.02	
7.252	384340	343379	0.893	0.67	
7.282	77022	69071	0.897	0.13	
7.389	16575	15610	0.942	0.02	
7.443	24130	20368	0.844	0.04	
7.553	21383	18281	0.855	0.03	
7.688	17881	15397	0.861	0.03	
7.729	30459	25696	0.844	0.05	
7.797	22939	18169	0.792	0.04	
7.902	23819	20518	0.861	0.04	
8.275	58980	48243	0.818	0.10	
8.572	5835516	4987510	0.855	10.32	$ 12 Decachlorobiphenyl
9.088	9614	7814	0.813	0.01	
	56524813	48059554		100.000	

Total unknown % area = 51

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041218.b\041218028.D
Lab Smp Id: 1254-CCV Client Smp ID: 1254-CCV
Inj Date : 12-APR-2018 18:11
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-ccv, 185554:1
Misc Info : 17498,AR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041218.b\pcba030618.m
Meth Date : 19-Apr-2018 09:02 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: 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	6303784	0.05000	0.051			
7 Aroclor 1254					CAS #: 11097-69-1			
5.162	5.162	0.000	2762939	0.50000	0.53	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	2307567	0.50000	0.54	0.00- 20.00	83.52	BA
5.510	5.510	0.000	4132742	0.50000	0.53	0.00- 20.00	149.58	BA
6.026	6.027	-0.001	2671220	0.50000	0.55	0.00- 20.00	96.68	BA
6.298	6.299	-0.001	3516941	0.50000	0.54	0.00- 20.00	127.29	BA
Average of Peak Amounts =					0.53800			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	5835515	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\041218.b\041218028.D

Date : 12-APR-2018 18:11

Client ID: 1254-CCV

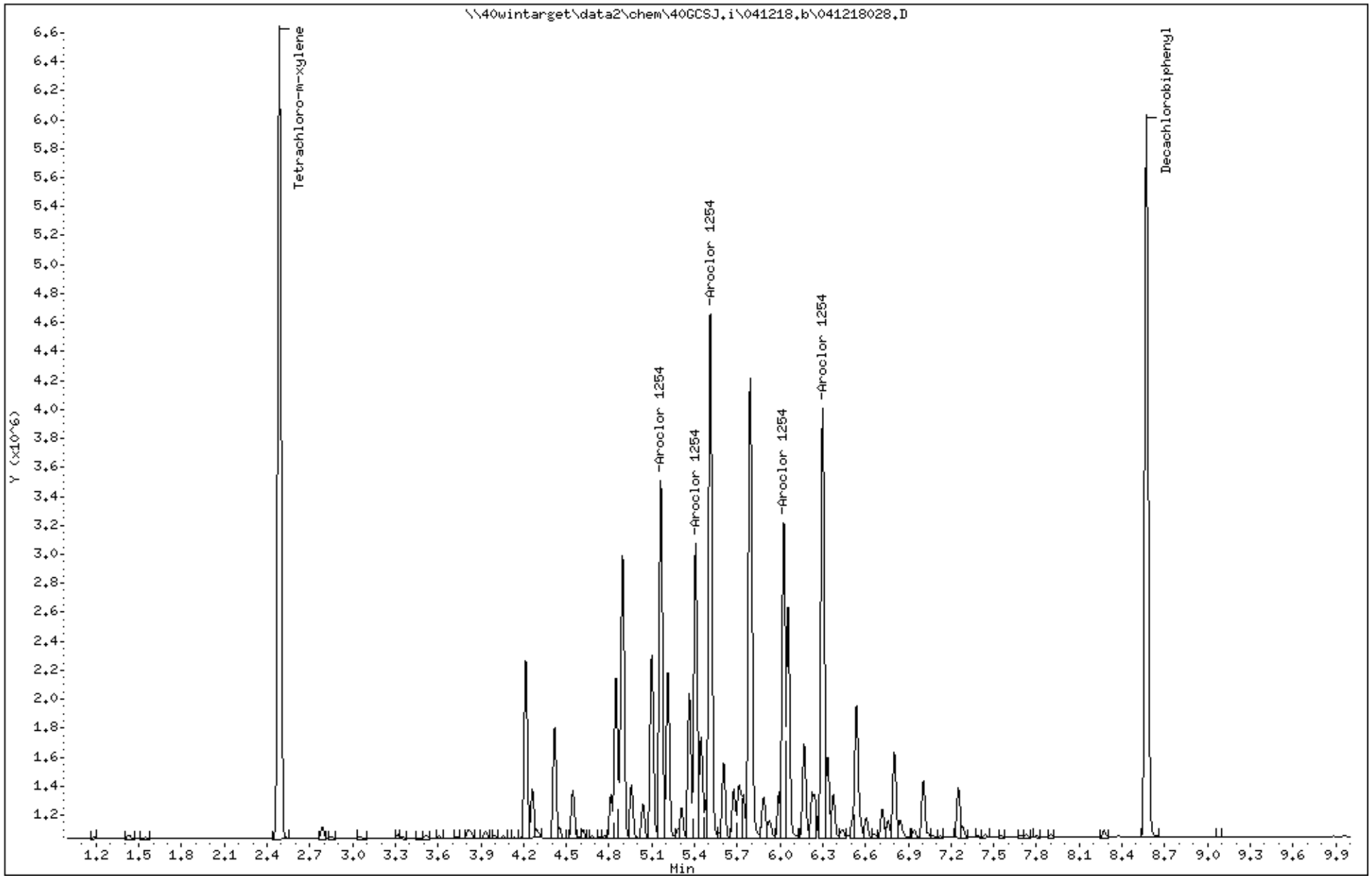
Instrument: 40GCSJ.i

Sample Info: 1254-CCV, 185554:1

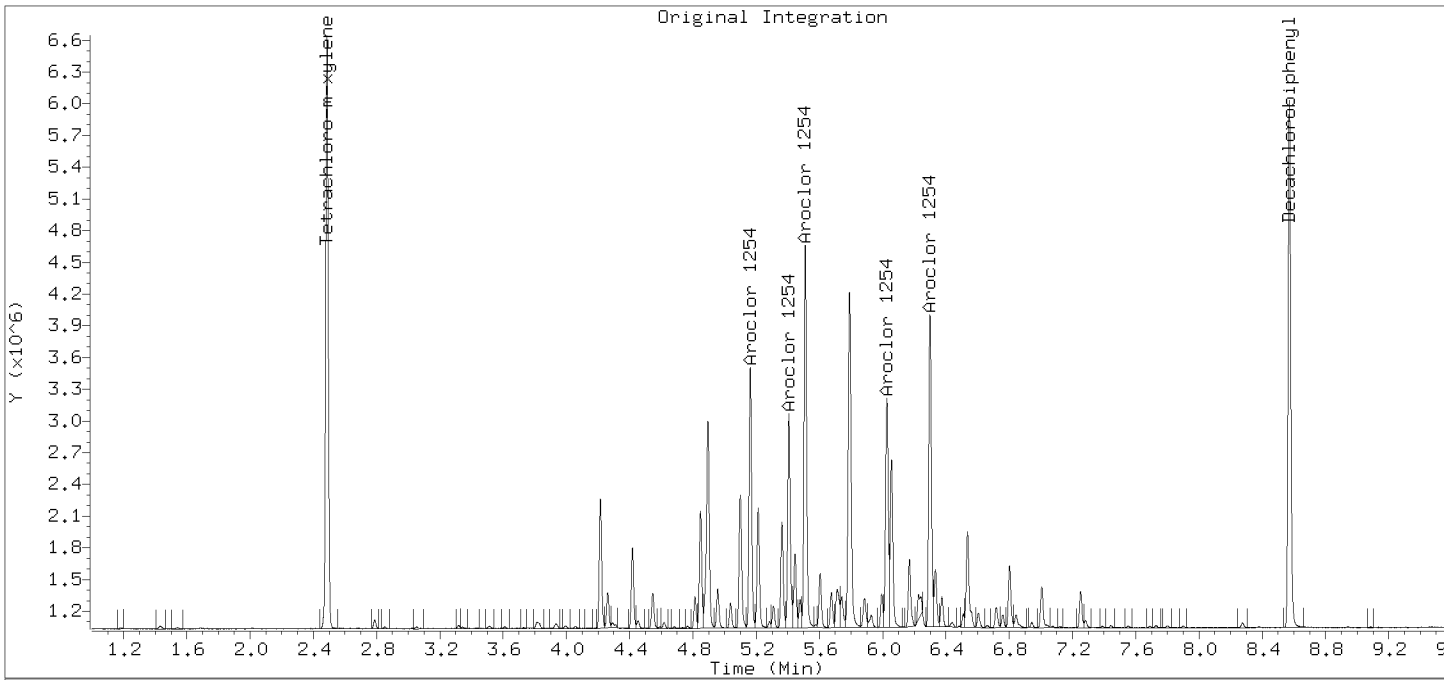
Operator: BLM

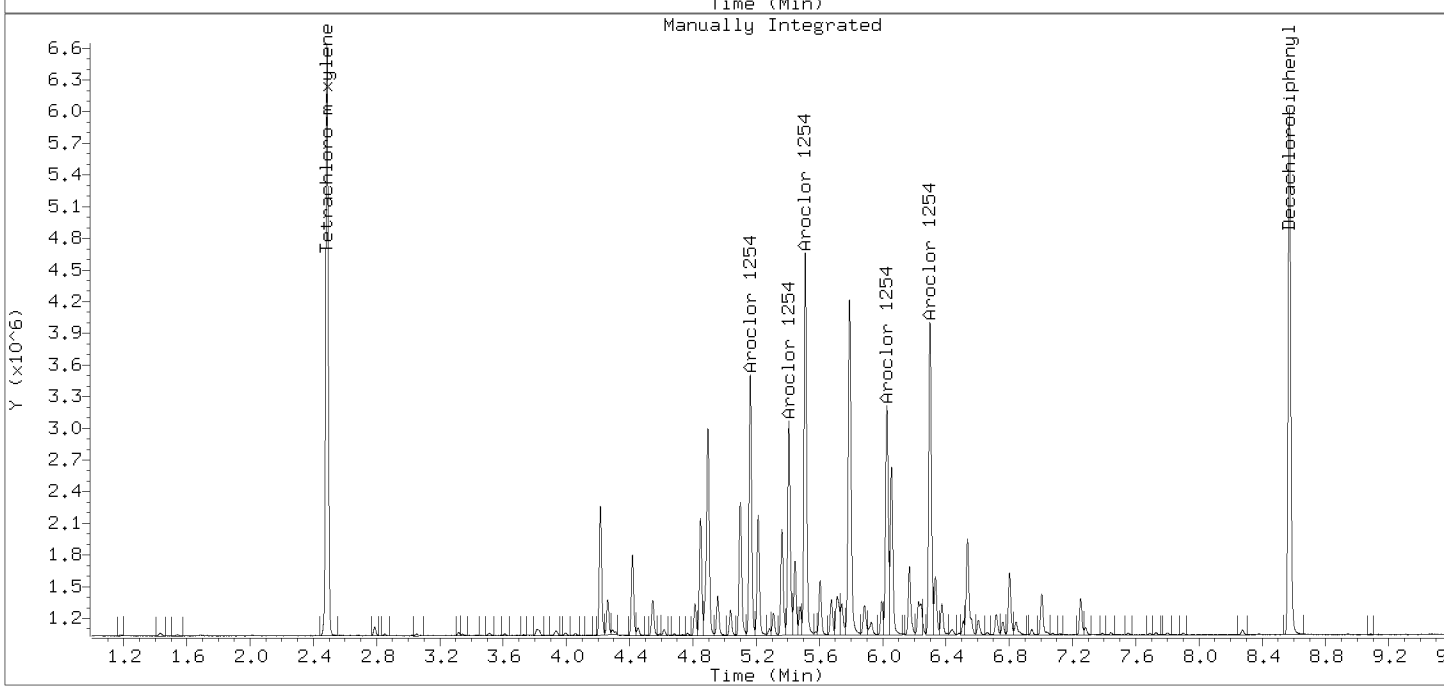
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041218.b/041218028.D (ManInt: AR1254.sub Orig: AR1254.sub)
Injection Date: 12-APR-2018 18:11 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1254-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1254	2751467	2762939	BA
Aroclor 1254	2751467	2762939	BA
Aroclor 1254	2751467	2762939	BA
Aroclor 1254	2751467	2762939	BA
Aroclor 1254	2751467	2762939	BA
Tetrachloro-m-xylene	6303784	6303784	
Decachlorobiphenyl	5835515	5835515	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041318.b\041318004.D
Lab Smp Id: 1660-CCV Client Smp ID: 1660-CCV
Inj Date : 13-APR-2018 14:33
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-ccv, 185559:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041318.b\pcba030618.m
Meth Date : 19-Apr-2018 09:09 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
1.189	21465	14887	0.694	0.02		
1.430	42547	30875	0.726	0.04		
1.541	17974	15307	0.852	0.01		
1.689	21939	17922	0.817	0.02		
1.804	15165	13683	0.902	0.01		
2.406	163409	122386	0.749	0.16		
2.486	7071044	6156850	0.871	7.69	$ 2 Tetrachloro-m-xylene	
2.687	237750	183348	0.771	0.24		
2.790	356812	311092	0.872	0.36		
2.852	1295544	1131134	0.873	1.31		
3.055	197481	170508	0.863	0.20		
3.281	31867	21628	0.679	0.03		
3.318	1777287	1580741	0.889	1.80	5 Aroclor 1016	BA
3.344	1028017	929609	0.904	1.04		
3.435	294933	249717	0.847	0.29		
3.513	1776270	1240703	0.698	1.80	5 Aroclor 1016	BA
3.612	24279	20090	0.827	0.02		
3.649	33890	20932	0.618	0.03		
3.695	48768	46839	0.960	0.04		
3.732	451262	443426	0.983	0.45		
3.756	297224	281932	0.949	0.30		
3.826	5044713	2915111	0.578	5.12	5 Aroclor 1016	BA
3.929	2155981	1729240	0.802	2.18	5 Aroclor 1016	BA
3.994	1445687	1307776	0.905	1.46	5 Aroclor 1016	BA
4.058	425641	378027	0.888	0.43		
4.137	164371	150964	0.918	0.16		
4.215	1285071	1184350	0.922	1.30		
4.262	1157332	1070866	0.925	1.17		
4.292	475516	488267	1.027	0.48		
4.310	609616	558240	0.916	0.61		
4.368	40261	27033	0.671	0.04		
4.417	1595703	1459303	0.915	1.62		
4.452	1155234	895189	0.775	1.17		
4.546	2043760	1793596	0.878	2.07		
4.618	461224	413748	0.897	0.46		
4.678	29560	23530	0.796	0.03		
4.728	75815	60917	0.803	0.07		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.769	66635	60821	0.913	0.06	
4.813	364155	349806	0.961	0.36	
4.848	568299	533341	0.938	0.57	
4.894	1842263	1355954	0.736	1.87	
4.957	118607	94303	0.795	0.12	
5.038	105766	92739	0.877	0.10	
5.100	390649	338322	0.866	0.39	
5.162	1522519	1408129	0.925	1.54	
5.212	71689	57261	0.799	0.07	
5.305	20489	15487	0.756	0.02	
5.363	103256	93340	0.904	0.10	
5.407	437107	376920	0.862	0.44	
5.478	613510	576637	0.940	0.62	
5.510	1048727	946671	0.903	1.06	
5.606	20484	17190	0.839	0.02	
5.675	1556509	1440812	0.926	1.58	
5.709	1120408	632949	0.565	1.13	
5.786	3817180	3243361	0.850	3.87	
5.883	260822	238095	0.913	0.26	
5.928	124621	101126	0.811	0.12	
5.993	646059	607233	0.940	0.65	
6.029	1446339	1379153	0.954	1.46	
6.055	4203355	3546425	0.844	4.26	
6.169	2758951	1680564	0.609	2.80	
6.255	634625	369739	0.583	0.64	
6.299	5063480	4126997	0.815	5.14	8 Aroclor 1260
6.334	756627	648095	0.857	0.76	
6.373	189442	147511	0.779	0.19	
6.431	533781	463281	0.868	0.54	
6.486	107270	141240	1.317	0.10	
6.510	2544287	2199236	0.864	2.58	
6.534	451886	494480	1.094	0.45	
6.560	1586982	1375320	0.867	1.61	
6.605	162823	131678	0.809	0.16	
6.660	498077	467811	0.939	0.50	
6.718	2702437	2455900	0.909	2.74	
6.759	1524415	1327984	0.871	1.54	
6.803	1232216	1087129	0.882	1.25	
6.838	240198	199105	0.829	0.24	
6.868	121736	101627	0.835	0.12	
6.912	175294	161923	0.924	0.17	
6.942	534659	496252	0.928	0.54	
7.004	5758727	4958375	0.861	5.84	8 Aroclor 1260
7.035	403142	387360	0.961	0.40	
7.074	184894	144282	0.780	0.18	
7.119	265228	228158	0.860	0.26	
7.222	13381	12758	0.953	0.01	
7.251	2734027	2396985	0.877	2.77	8 Aroclor 1260
7.281	820489	659833	0.804	0.83	
7.389	1425190	1149698	0.807	1.44	
7.443	1703183	1432583	0.841	1.72	8 Aroclor 1260
7.551	117817	92437	0.785	0.11	
7.689	687512	621568	0.904	0.69	
7.726	117116	97309	0.831	0.11	
7.801	97116	77850	0.802	0.09	
7.899	1514488	1278627	0.844	1.53	8 Aroclor 1260
7.965	113517	82532	0.727	0.11	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
8.275	414964	357085	0.861	0.42	
8.376	12475	10001	0.802	0.01	
8.570	6381995	5470069	0.857	6.48	$ 12 Decachlorobiphenyl
8.938	11394	10346	0.908	0.01	
9.466	24676	14704	0.596	0.02	
	98460375	82524273		100.000	

Total unknown % area = 56

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041318.b\041318004.D
Lab Smp Id: 1660-CCV Client Smp ID: 1660-CCV
Inj Date : 13-APR-2018 14:33
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-ccv, 185559:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041318.b\pcba030618.m
Meth Date : 19-Apr-2018 09:09 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	7071043	0.05000	0.057			
5 Aroclor 1016					CAS #: 12674-11-2			
3.318	3.318	0.000	1777286	0.50000	0.58	0.00- 20.00	100.00(M)	BA
3.513	3.512	0.001	1776269	0.50000	0.57	0.00- 20.00	99.94	BA
3.826	3.826	0.000	5044712	0.50000	0.57	0.00- 20.00	283.84	BA
3.928	3.929	-0.001	2155980	0.50000	0.57	0.00- 20.00	121.31	BA
3.994	3.994	0.000	1445687	0.50000	0.56	0.00- 20.00	81.34	BA
Average of Peak Amounts =					0.57000			
8 Aroclor 1260					CAS #: 11096-82-5			
6.299	6.300	-0.001	5063480	0.50000	0.57	0.00- 20.00	100.00(M)	CO
7.004	7.006	-0.002	5758726	0.50000	0.58	0.00- 20.00	113.73	CO
7.250	7.251	-0.001	2734027	0.50000	0.57	0.00- 20.00	54.00	CO
7.442	7.443	-0.001	1703182	0.50000	0.58	0.00- 20.00	33.64	CO
7.898	7.901	-0.003	1514488	0.50000	0.57	0.00- 20.00	29.91	CO
Average of Peak Amounts =					0.57400			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	6381994	0.05000	0.058			

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\041318.b\041318004.D

Date : 13-APR-2018 14:33

Client ID: 1660-CCV

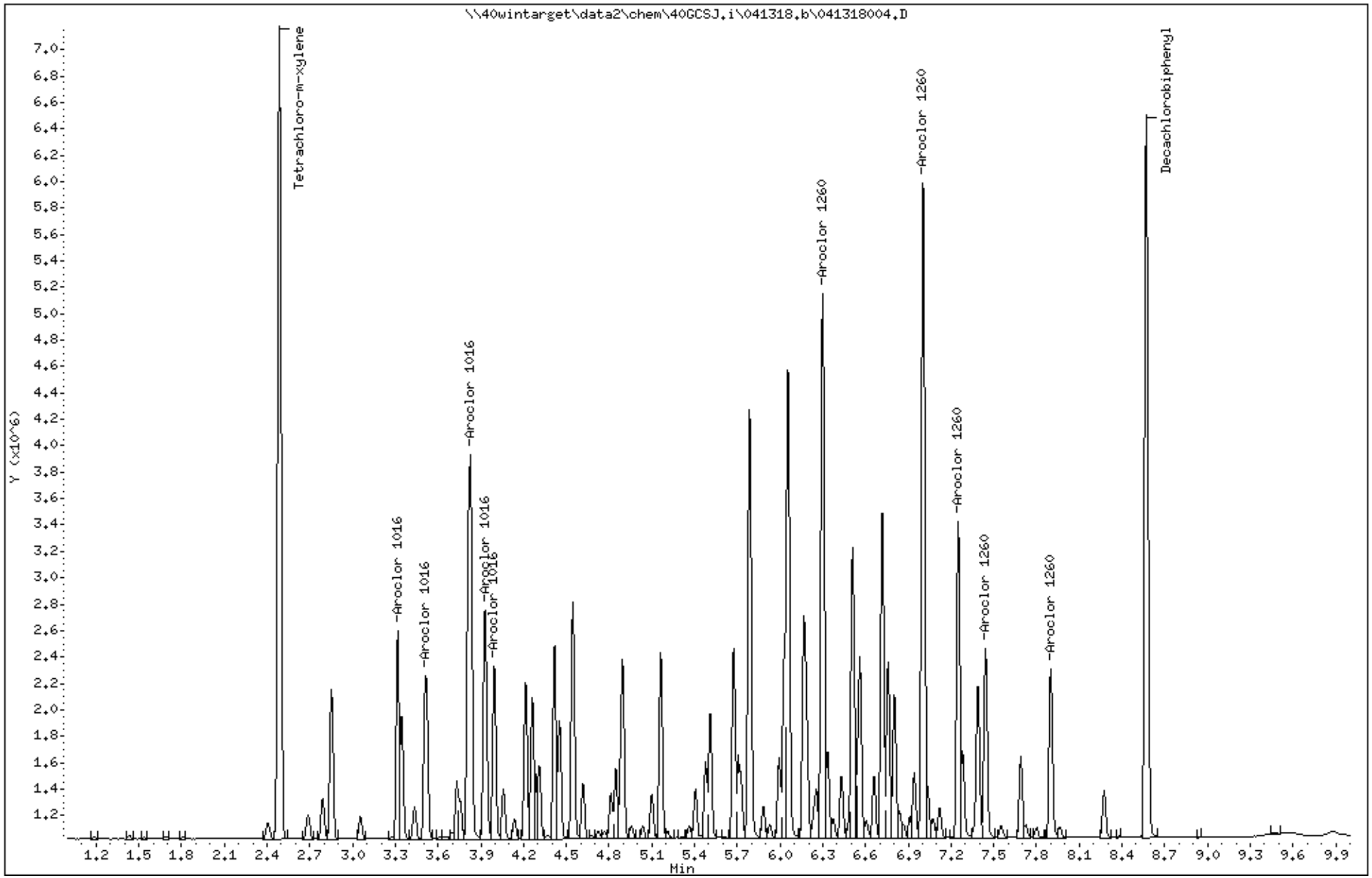
Instrument: 40GCSJ.i

Sample Info: 1660-CCV, 185559:1

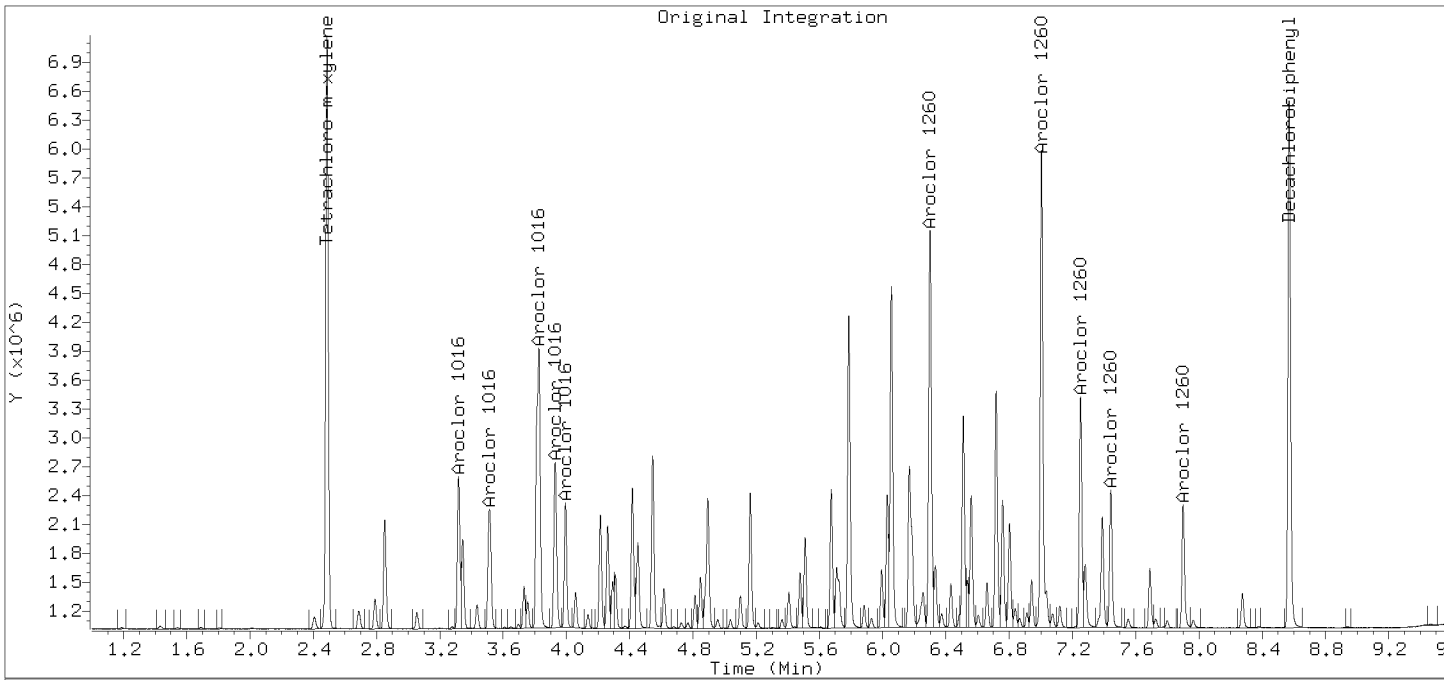
Operator: BLM

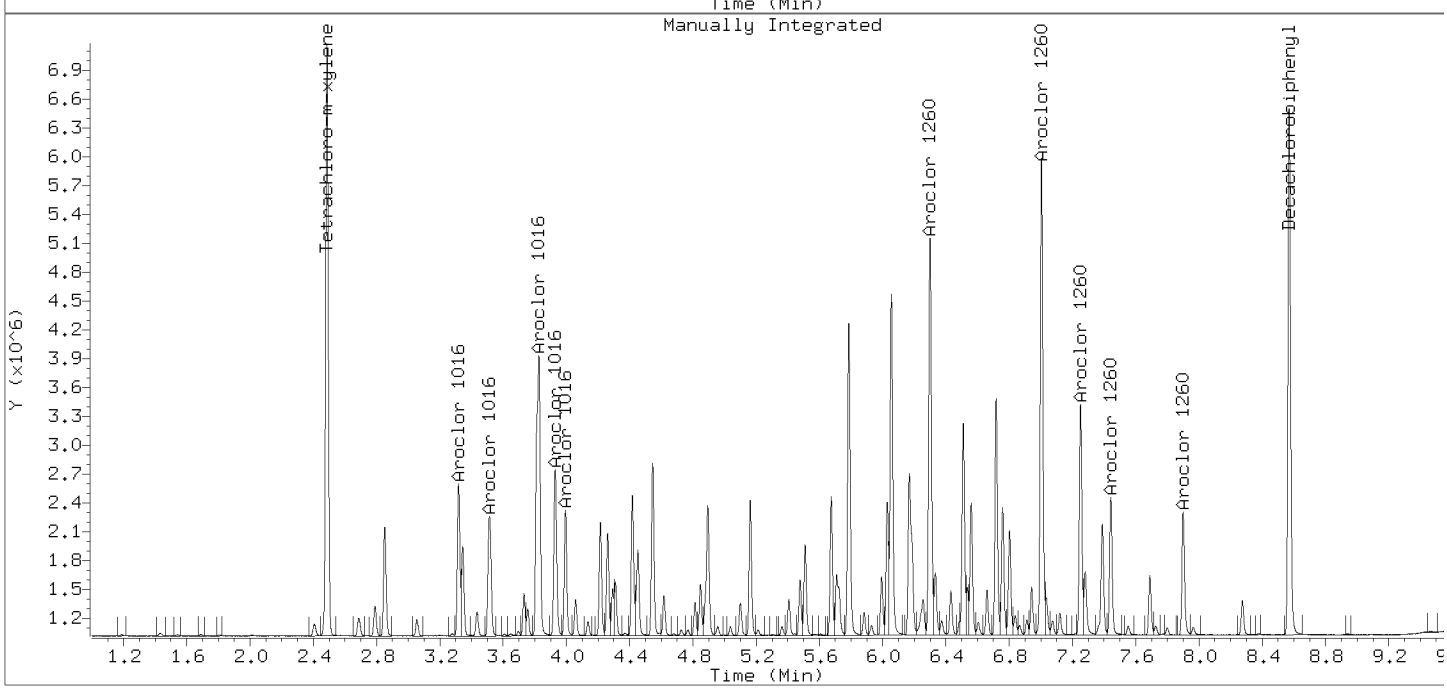
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041318.b/041318004.D (ManInt: AR1660.sub Orig: AR1660.sub)
Injection Date: 13-APR-2018 14:33 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1660-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1767207	1777286	BA
Aroclor 1016	1767207	1777286	BA
Aroclor 1016	1767207	1777286	BA
Aroclor 1016	1767207	1777286	BA
Aroclor 1016	1767207	1777286	BA
Aroclor 1260	5039721	5063480	CO
Aroclor 1260	5039721	5063480	CO
Aroclor 1260	5039721	5063480	CO
Aroclor 1260	5039721	5063480	CO
Aroclor 1260	5039721	5063480	CO
Tetrachloro-m-xylene	7071043	7071043	
Decachlorobiphenyl	6381994	6381994	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041318.b\041318016.D
Lab Smp Id: 1221-CCV Client Smp ID: 1221-CCV
Inj Date : 13-APR-2018 17:43
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-ccv, 185538:1
Misc Info : 17498,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041318.b\pcba030618.m
Meth Date : 19-Apr-2018 09:09 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
1.429	35572	31950	0.898	0.19		
1.536	20305	13291	0.655	0.11		
1.683	11489	12119	1.055	0.06		
1.805	523973	433855	0.828	2.92	1 Aroclor 1221	BA
2.012	15126	12373	0.818	0.08		
2.197	170980	137777	0.806	0.95		
2.406	273988	196115	0.716	1.53	1 Aroclor 1221	BA
2.484	6183603	5679394	0.918	34.76	$ 2 Tetrachloro-m-xylene	BA
2.688	715504	580104	0.811	4.00	1 Aroclor 1221	BA
2.789	559835	505932	0.904	3.13	1 Aroclor 1221	BA
2.851	1718284	1500887	0.873	9.60	1 Aroclor 1221	BA
3.051	34459	28740	0.834	0.19		
3.278	125100	93208	0.745	0.69		
3.324	410492	229191	0.558	2.29		
3.434	36964	32464	0.878	0.20		
3.512	148129	108351	0.731	0.82		
3.608	20428	17820	0.872	0.11		
3.694	12339	10697	0.867	0.06		
3.731	43504	42912	0.986	0.24		
3.756	43720	38872	0.889	0.24		
3.826	340241	206410	0.607	1.90		
3.929	163179	137719	0.844	0.91		
3.994	97147	91329	0.940	0.54		
4.056	24621	17302	0.703	0.13		
4.213	41460	36173	0.872	0.23		
4.262	30742	31254	1.017	0.17		
4.295	15830	10118	0.639	0.08		
4.417	39642	39762	1.003	0.22		
4.445	33993	24275	0.714	0.19		
4.544	55694	48859	0.877	0.31		
4.616	16331	13476	0.825	0.09		
4.812	20567	21022	1.022	0.11		
4.849	35095	33221	0.947	0.19		
4.880	51731	36270	0.701	0.28		
5.037	32328	31494	0.974	0.18		
5.097	9329	8768	0.940	0.05		
5.160	9498	8086	0.851	0.05		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.510	16409	12160	0.741	0.09	
6.021	13204	8003	0.606	0.07	
7.728	27168	23417	0.862	0.15	
7.800	28355	18827	0.664	0.15	
8.272	57850	44742	0.773	0.32	
8.374	12651	10359	0.819	0.07	
8.570	5608809	4686397	0.836	31.35	$ 12 Decachlorobiphenyl
	17885669	15305495		100.000	

Total unknown % area = 13

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041318.b\041318016.D
Lab Smp Id: 1221-CCV Client Smp ID: 1221-CCV
Inj Date : 13-APR-2018 17:43
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-ccv, 185538:1
Misc Info : 17498,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041318.b\pcba030618.m
Meth Date : 19-Apr-2018 09:09 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	6183603	0.05000	0.050			(M)	BA
1 Aroclor 1221					CAS #: 11104-28-2				
1.804	1.804	0.000	523973	0.50000	0.50	0.00- 20.00	100.00	(M)	BA
2.406	2.407	-0.001	273988	0.50000	0.50	0.00- 20.00	52.29		BA
2.687	2.688	-0.001	715504	0.50000	0.52	0.00- 20.00	136.55		BA
2.788	2.789	-0.001	559834	0.50000	0.51	0.00- 20.00	106.84		BA
2.851	2.851	0.000	1718284	0.50000	0.53	0.00- 20.00	327.93		BA
Average of Peak Amounts =					0.51200				
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3				
8.569	8.571	-0.002	5608809	0.05000	0.051				

QC Flag Legend

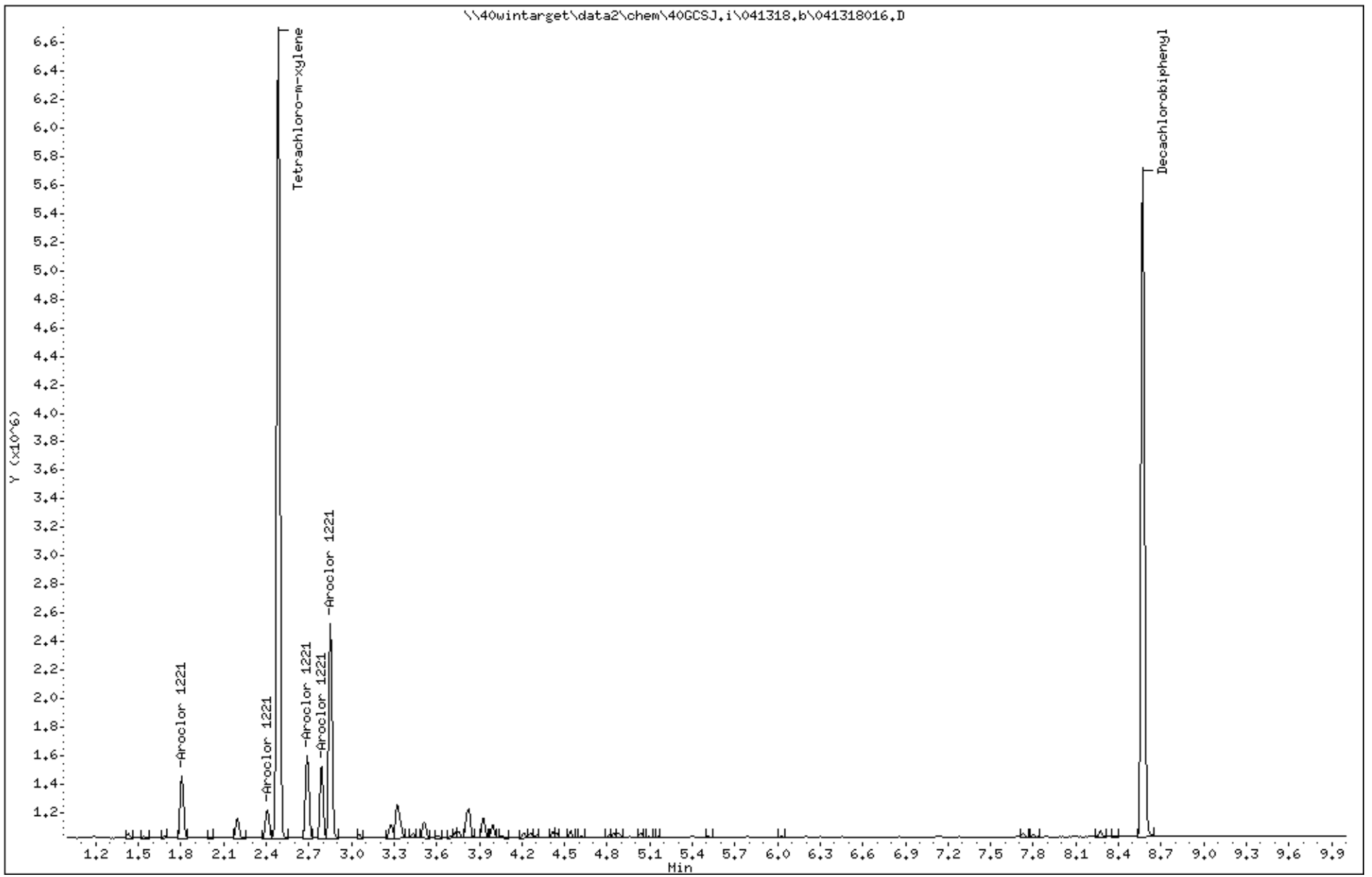
M - Compound response manually integrated.

Review Codes Legend

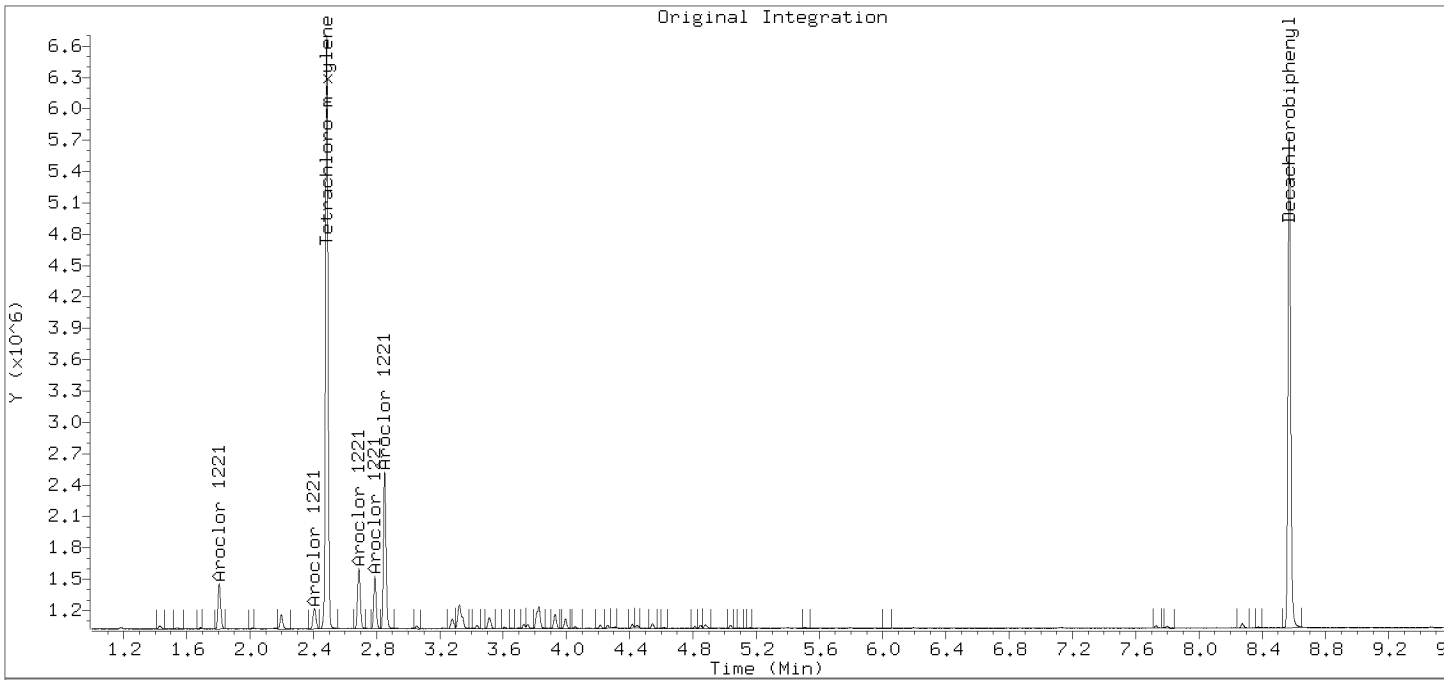
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:

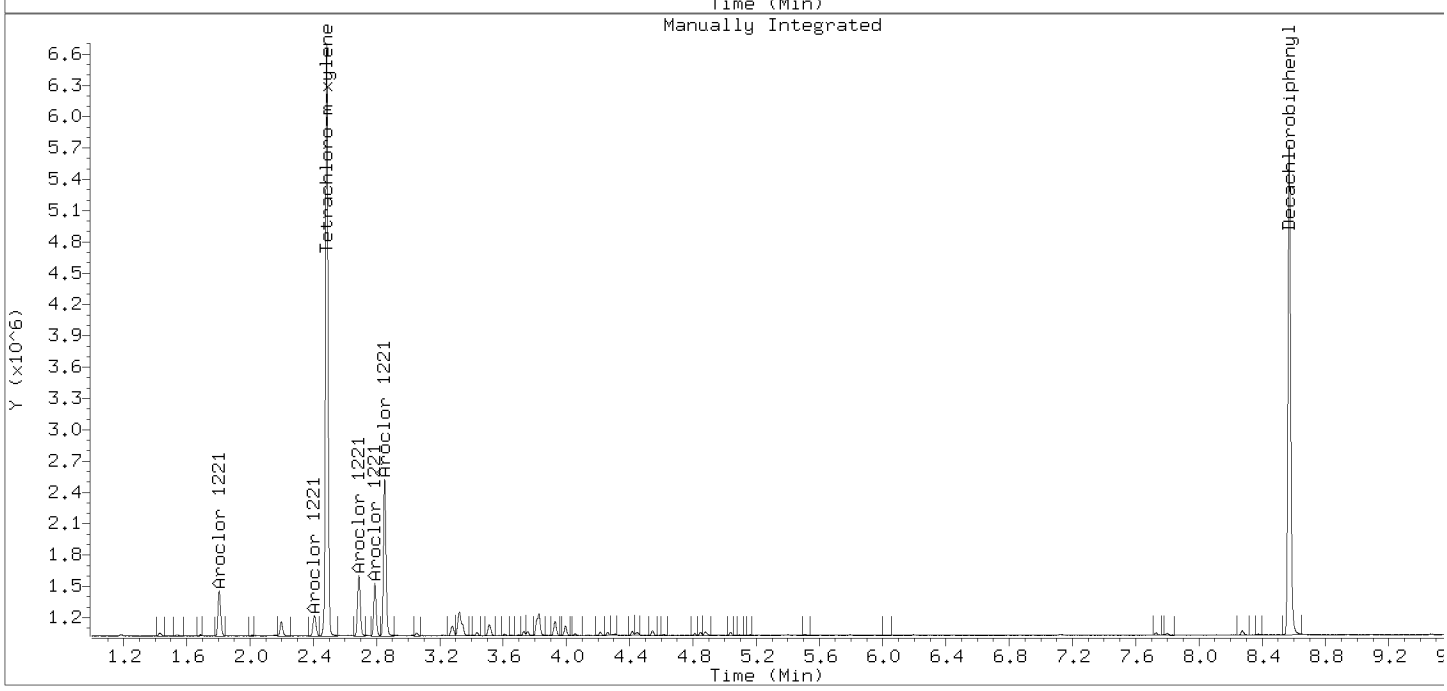
Data File: \\40wintarget\data2\chem\40GCSJ.i\041318.b\041318016.D
Date : 13-APR-2018 17:43
Client ID: 1221-CCV
Sample Info: 1221-CCV, 185538:1

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\041318.b/041318016.D (ManInt: AR1221.sub Orig: AR1221.sub)
Injection Date: 13-APR-2018 17:43 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1221-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1221	515543	523973	BA
Aroclor 1221	515543	523973	BA
Aroclor 1221	515543	523973	BA
Aroclor 1221	515543	523973	BA
Aroclor 1221	515543	523973	BA
Tetrachloro-m-xylene	6156681	6183603	BA
Decachlorobiphenyl	5608809	5608809	

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.: 40157694

Date Extracted: 04/11/2018 06:59

Lab Sample ID: 1671677

Date Analyzed: 04/12/2018 12:22

Lab File ID: 041218.B\041218006.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\041218.b\041218006.D
Lab Smp Id: 1671677 Client Smp ID: MB
Inj Date : 12-APR-2018 12:22
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1671677,
Misc Info : 17661,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041218.b\pcba030618.m
Meth Date : 19-Apr-2018 09:02 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 6 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
1.186	15921	12350	0.776	0.08		
2.011	9981	9572	0.959	0.05		
2.199	15852	15380	0.970	0.08		
2.485	9185601	8826290	0.961	47.17	$ 2 Tetrachloro-m-xylene	
2.789	16267	15711	0.966	0.08		
3.022	14819	7515	0.507	0.07		
4.532	14647	8140	0.556	0.07		
5.949	11300	6570	0.581	0.05		
6.353	10089	8624	0.855	0.05		
6.868	12090	10223	0.846	0.06		
6.946	10825	7180	0.663	0.05		
7.125	28209	21339	0.756	0.14		
7.690	13869	13856	0.999	0.07		
7.729	57644	48069	0.834	0.29		
7.802	53089	44990	0.847	0.27		
8.275	98922	83500	0.844	0.50		
8.374	20326	12992	0.639	0.10		
8.572	9882308	8121326	0.822	50.82	$ 12 Decachlorobiphenyl	
	19471758	17273627		100.000		

Total unknown % area = 2.0

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041218.b\041218006.D
Lab Smp Id: 1671677 Client Smp ID: MB
Inj Date : 12-APR-2018 12:22
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1671677,
Misc Info : 17661,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041218.b\pcba030618.m
Meth Date : 19-Apr-2018 09:02 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 6 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	9185600	0.07450	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).

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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

8.572	8.571	0.001	9882307	0.09020	45			

Data File: \\40wintarget\data2\chem\40GCSJ.i\041218.b\041218006.D

Date : 12-APR-2018 12:22

Client ID: MB

Instrument: 40GCSJ.i

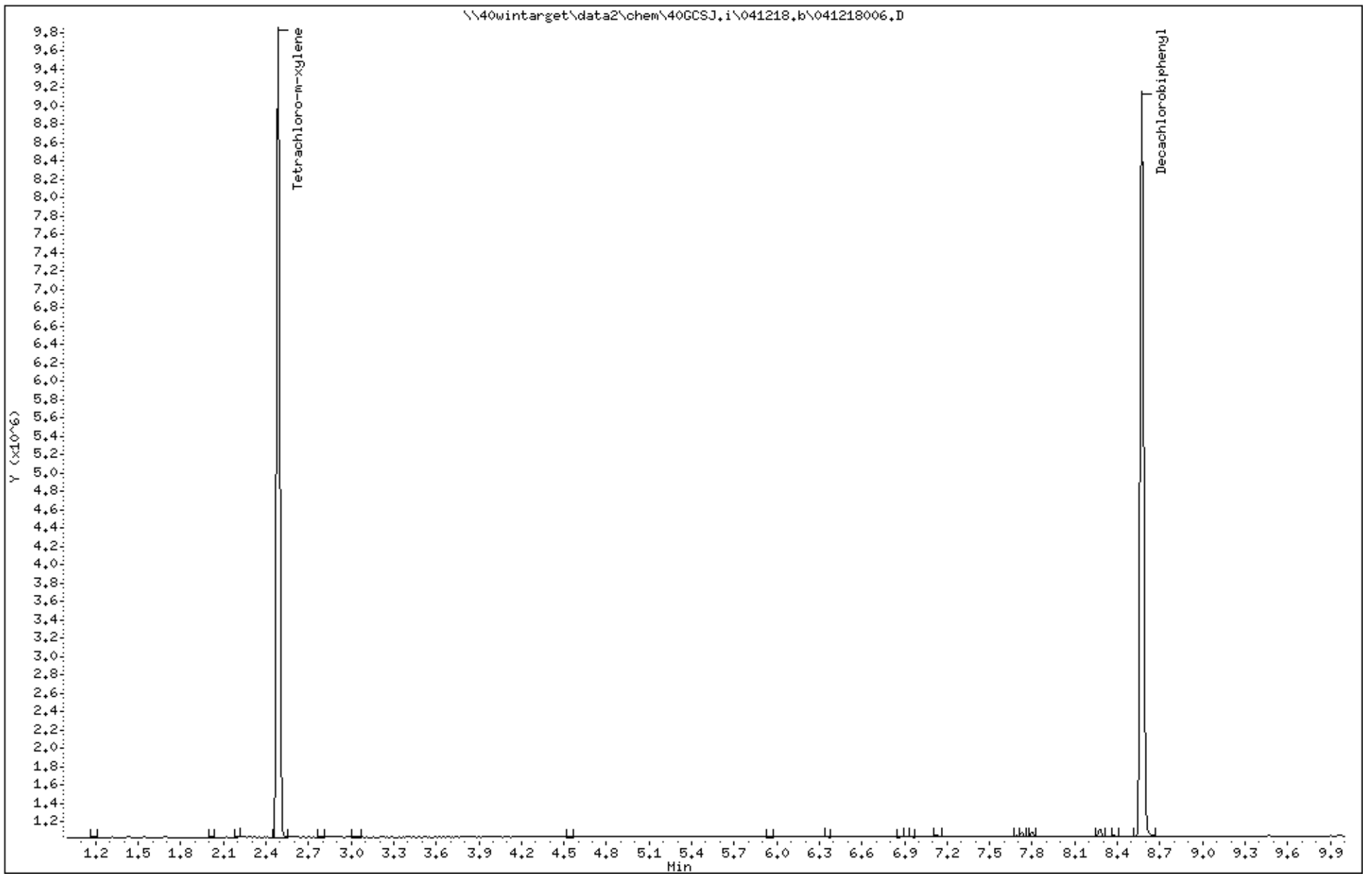
Sample Info: 1671677,

Volume Injected (uL): 1.0

Operator: BLM

Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041218.b/041218006.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 12-APR-2018 12:22 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1671677

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	9185600	9185600	
Decachlorobiphenyl	9882307	9882307	

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.: 40157694

Date Extracted: 04/11/2018 06:59

Lab Sample ID: 1671678

Date Analyzed: 04/12/2018 12:38

Lab File ID: 041218.B\041218007.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)	222	
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\041218.b\041218007.D
Lab Smp Id: 1671678 Client Smp ID: MBLCS
Inj Date : 12-APR-2018 12:38
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1671678,
Misc Info : 17661,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041218.b\pcba030618.m
Meth Date : 19-Apr-2018 09:02 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 7 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	15980	11210	0.701	0.03		
1.689	13161	10178	0.773	0.02		
1.805	13942	13821	0.991	0.03		
2.014	17866	9656	0.540	0.04		
2.202	27148	16216	0.597	0.06		
2.405	105430	78559	0.745	0.24		
2.486	9829767	9143989	0.930	22.39	$ 2 Tetrachloro-m-xylene	
2.686	165854	131400	0.792	0.37		
2.790	191868	174863	0.911	0.43		
2.851	863928	783066	0.906	1.96		
3.055	118492	101317	0.855	0.26		
3.278	23464	17349	0.739	0.05		
3.318	1133807	1033996	0.912	2.58	3 Aroclor 1242	BA
3.345	627562	586853	0.935	1.42		
3.436	179868	157857	0.878	0.40		
3.514	1100798	800112	0.727	2.50	3 Aroclor 1242	BA
3.645	19601	14531	0.741	0.04		
3.697	30293	29561	0.976	0.06		
3.732	287116	286770	0.999	0.65		
3.756	192781	178785	0.927	0.43		
3.826	3205659	1871538	0.584	7.30	3 Aroclor 1242	BA
3.929	1368340	1142558	0.835	3.11	3 Aroclor 1242	BA
3.994	901375	855642	0.949	2.05	3 Aroclor 1242	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.059	245607	223701	0.911	0.55	
4.136	98706	87799	0.889	0.22	
4.215	753006	697494	0.926	1.71	
4.261	711412	671799	0.944	1.62	
4.293	303420	299223	0.986	0.69	
4.310	352038	336051	0.955	0.80	
4.370	24014	19384	0.807	0.05	
4.418	991764	926038	0.934	2.25	
4.452	745185	551217	0.740	1.69	
4.546	1263704	1124463	0.890	2.87	
4.617	288485	258334	0.895	0.65	
4.681	25119	16220	0.646	0.05	
4.728	62471	52956	0.848	0.14	
4.768	70049	62249	0.889	0.15	
4.814	579348	549900	0.949	1.32	
4.848	1023052	980741	0.959	2.33	
4.879	1317394	965381	0.733	3.00	
4.958	143640	109285	0.761	0.32	
5.038	1079622	1005665	0.931	2.45	
5.100	224222	169602	0.756	0.51	
5.162	255209	220706	0.865	0.58	
5.212	192330	168861	0.878	0.43	
5.307	44920	36058	0.803	0.10	
5.363	165183	137799	0.834	0.37	
5.407	267996	231277	0.863	0.61	
5.446	173164	143965	0.831	0.39	
5.511	434610	331896	0.764	0.99	
5.605	129676	111256	0.858	0.29	
5.743	33894	30781	0.908	0.07	
5.794	302392	229878	0.760	0.68	
5.890	44161	28944	0.655	0.10	
5.993	9701	10130	1.044	0.02	
6.026	240609	199833	0.831	0.54	
6.054	45160	38366	0.850	0.10	
6.171	23724	15228	0.642	0.05	
6.243	11217	8708	0.776	0.02	
6.301	55486	48761	0.879	0.12	
6.536	15656	14880	0.950	0.03	
6.719	11415	9744	0.854	0.02	
6.803	12768	11559	0.905	0.02	
7.006	18694	15526	0.831	0.04	
7.122	20123	18858	0.937	0.04	
7.251	10187	8211	0.806	0.02	
7.387	10765	8662	0.805	0.02	
7.693	16133	15191	0.942	0.03	
7.730	60554	50796	0.839	0.13	
7.803	60181	45893	0.763	0.13	
8.276	103906	83677	0.805	0.23	
8.377	10057	9235	0.918	0.02	
8.573	10345179	8757605	0.847	23.97	$ 12 Decachlorobiphenyl
8.944	12070	8358	0.692	0.02	
9.471	14226	9585	0.674	0.03	
	43887707	37617556		100.000	

Total unknown % area = 36

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041218.b\041218007.D
Lab Smp Id: 1671678 Client Smp ID: MBLCS
Inj Date : 12-APR-2018 12:38
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1671678,
Misc Info : 17661,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041218.b\pcba030618.m
Meth Date : 19-Apr-2018 09:02 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 7 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			
2.485	2.484	0.001	9829766	0.07973	40			
3 Aroclor 1242					CAS #: 53469-21-9			
3.317	3.318	-0.001	1133807	0.44758	220	0.00- 20.00	100.00(M)	BA
3.513	3.513	0.000	1100798	0.43682	220	0.00- 20.00	97.09	BA
3.825	3.827	-0.002	3205659	0.45046	220	0.00- 20.00	282.73	BA
3.929	3.929	0.000	1368340	0.44988	220	0.00- 20.00	120.69	BA
3.993	3.995	-0.002	901374	0.44018	220	0.00- 20.00	79.50	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.

---

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

8.572	8.571	0.001	10345178	0.09442	47	

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\041218.b\041218007.D

Date : 12-APR-2018 12:38

Client ID: MBLCS

Instrument: 40GCSJ.i

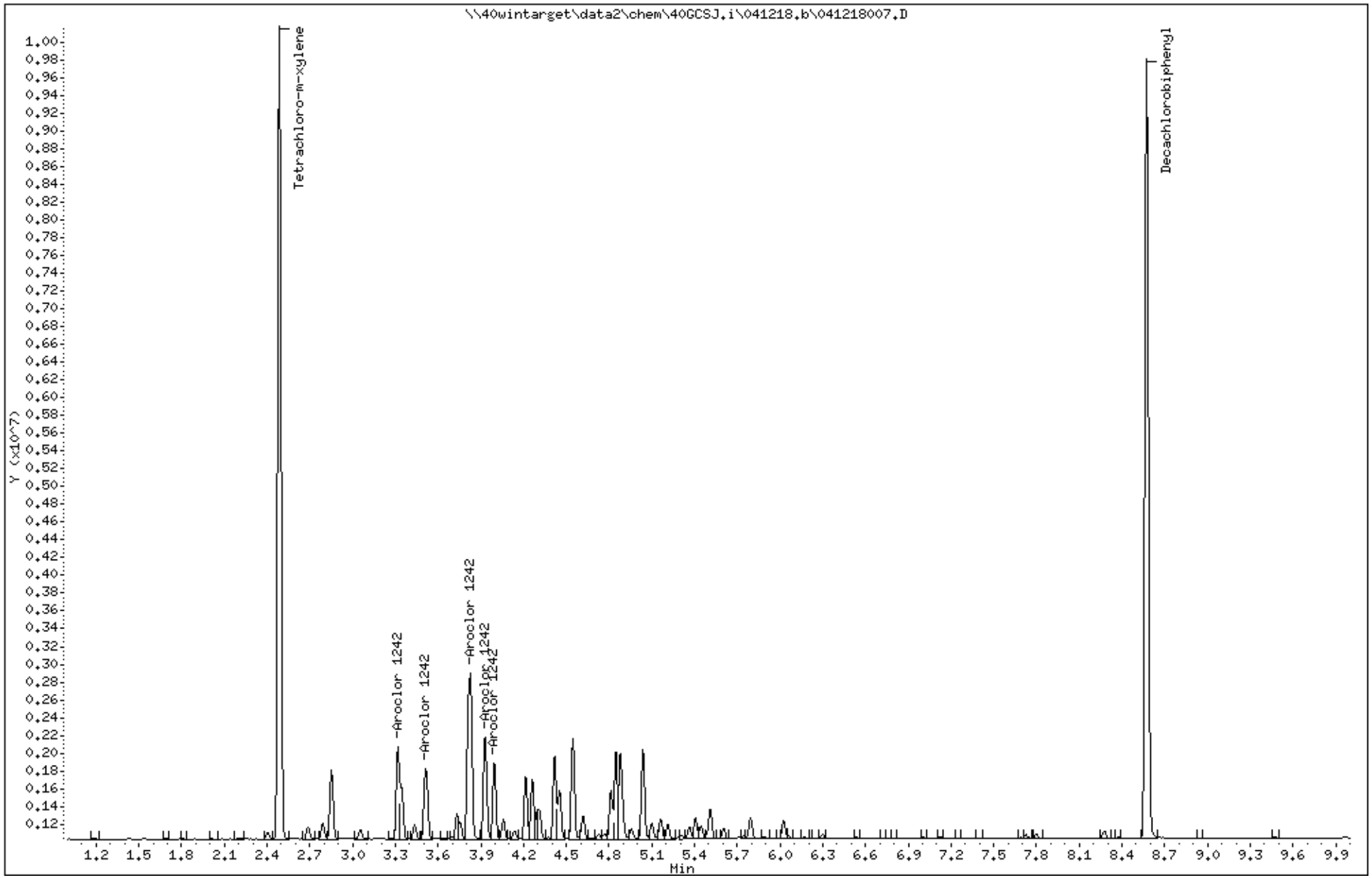
Sample Info: 1671678,

Volume Injected (uL): 1.0

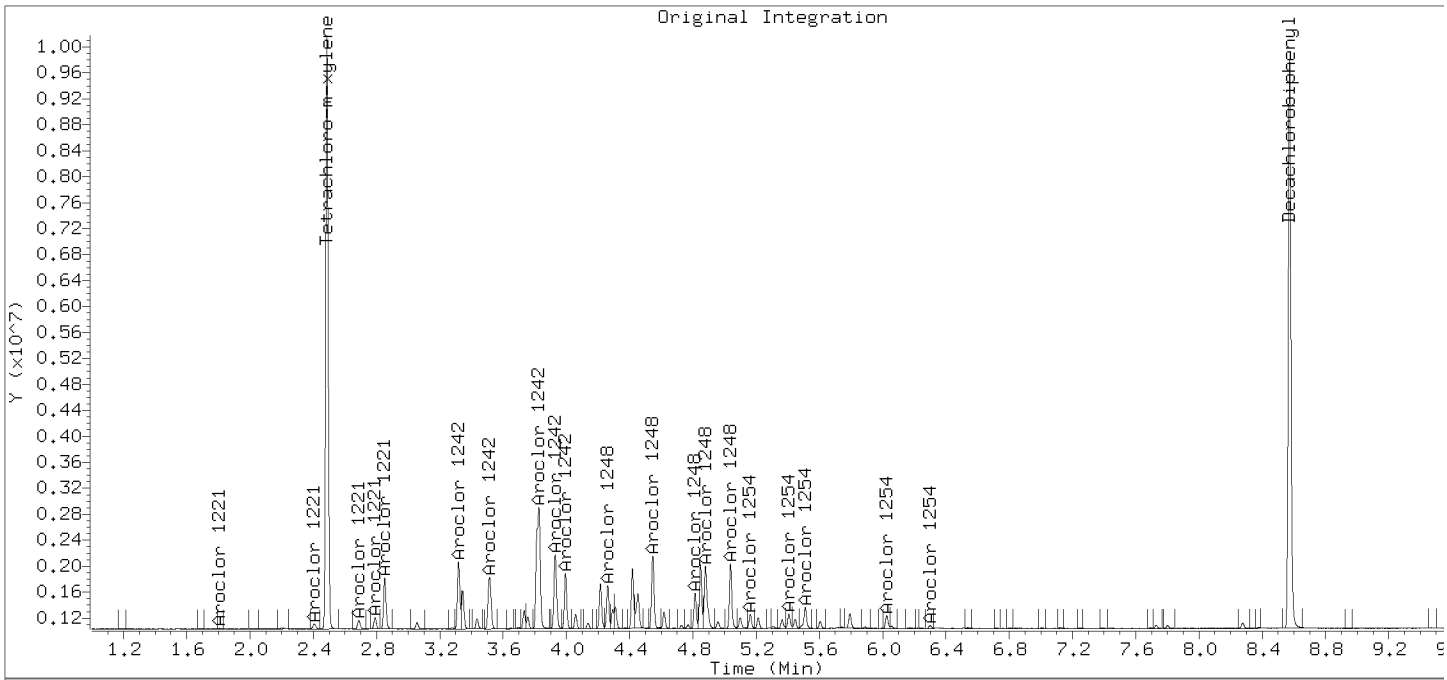
Operator: BLM

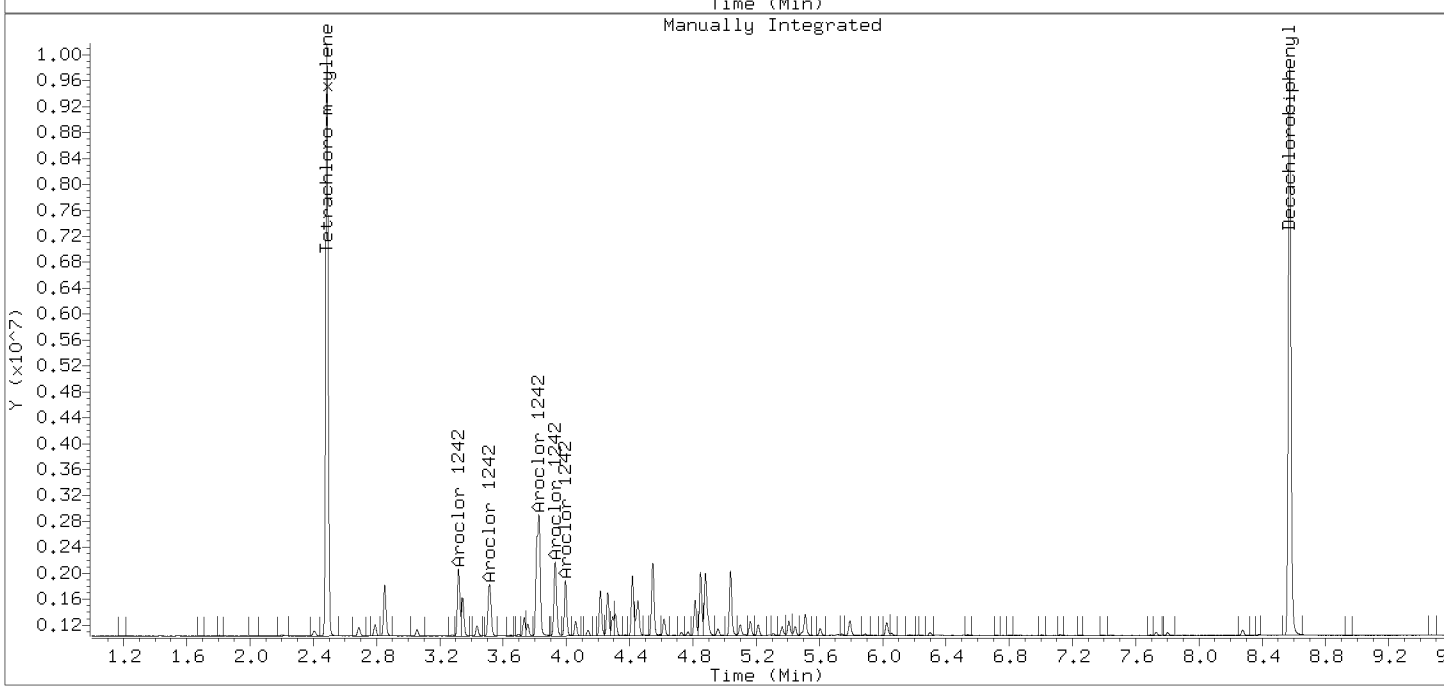
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041218.b/041218007.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 12-APR-2018 12:38 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1671678





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1128904	0	
Aroclor 1016	1128904	0	
Aroclor 1016	1128904	0	
Aroclor 1016	1128904	0	
Aroclor 1016	1128904	0	
Aroclor 1221	13941	0	
Aroclor 1221	13941	0	
Aroclor 1221	13941	0	
Aroclor 1221	13941	0	
Aroclor 1221	13941	0	
Aroclor 1232	863928	0	
Aroclor 1232	863928	0	
Aroclor 1232	863928	0	
Aroclor 1232	863928	0	

Aroclor 1232	863928	0	
Aroclor 1242	1128904	1133807	BA
Aroclor 1242	1128904	1133807	BA
Aroclor 1242	1128904	1133807	BA
Aroclor 1242	1128904	1133807	BA
Aroclor 1242	1128904	1133807	BA
Aroclor 1248	701707	0	
Aroclor 1248	701707	0	
Aroclor 1248	701707	0	
Aroclor 1248	701707	0	
Aroclor 1248	701707	0	
Aroclor 1254	240404	0	
Aroclor 1254	240404	0	
Aroclor 1254	240404	0	
Aroclor 1254	240404	0	
Aroclor 1254	240404	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Tetrachloro-m-xylene	9829766	9829766	
Decachlorobiphenyl	10345178	10345178	

==========

SAMPLE NO.

MS

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: 09/29/2017 10:00

Matrix: Tissue SDG No.: 40157694

Date Extracted: 04/11/2018 06:59

Lab Sample ID: 1671679

Date Analyzed: 04/12/2018 17:08

Lab File ID: 041218.B\041218024.D

Initial wt/vol: 9.9922 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)	209	
11141-16-5	PCB-1232 (Aroclor 1232)	<34.2	U
53469-21-9	PCB-1242 (Aroclor 1242)	453	
12672-29-6	PCB-1248 (Aroclor 1248)	771	
11097-69-1	PCB-1254 (Aroclor 1254)	337	
11096-82-5	PCB-1260 (Aroclor 1260)	78.1	J

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041218.b\041218024.D
Lab Smp Id: 1671679 Client Smp ID: ND3-170615-01-YP-03
Inj Date : 12-APR-2018 17:08
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1671679 x3,
Misc Info : 17661,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041218.b\pcba030618.m
Meth Date : 19-Apr-2018 09:02 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 24 QC Sample: MS
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	9.992	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS	REVIEW CODE
1.806	14950	11787	0.788	0.02		1 Aroclor 1221	BA
2.412	210189	148437	0.706	0.38		1 Aroclor 1221	BA
2.486	4333024	3752871	0.866	8.51	$	2 Tetrachloro-m-xylene	BA
2.689	88679	64353	0.726	0.16		1 Aroclor 1221	BA
2.791	105147	88751	0.844	0.19		1 Aroclor 1221	BA
2.852	453212	386691	0.853	0.83		1 Aroclor 1221	BA
2.969	12681	16622	1.311	0.02			
2.989	28703	21450	0.747	0.05			
3.019	24651	21029	0.853	0.04			
3.056	266316	230974	0.867	0.49			
3.278	14101	10527	0.747	0.02			
3.318	590083	551295	0.934	1.09		3 Aroclor 1242	
3.345	449706	402653	0.895	0.83			
3.433	454610	413122	0.909	0.83			
3.518	797865	593235	0.744	1.47		3 Aroclor 1242	
3.647	72443	59617	0.823	0.13			
3.696	17790	16207	0.911	0.03			
3.733	355611	337929	0.950	0.65			
3.756	176560	174802	0.990	0.32			
3.826	2499657	1366922	0.547	4.61		3 Aroclor 1242	
3.932	908630	634974	0.699	1.67		3 Aroclor 1242	
3.995	660621	606941	0.919	1.22		3 Aroclor 1242	
4.058	253122	230173	0.909	0.46			

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.137	70068	59885	0.855	0.12	
4.216	1870478	1671004	0.893	3.45	
4.262	1841444	1708173	0.928	3.40	6 Aroclor 1248
4.293	2165137	1669485	0.771	4.00	
4.348	54971	33526	0.610	0.10	
4.417	1016562	910094	0.895	1.87	
4.453	848304	720906	0.850	1.56	
4.546	1820669	1655468	0.909	3.36	6 Aroclor 1248
4.591	172399	164477	0.954	0.31	
4.618	264490	230625	0.872	0.48	
4.681	164652	145378	0.883	0.30	
4.736	210505	153513	0.729	0.38	
4.768	361371	335880	0.929	0.66	
4.814	1025165	967002	0.943	1.89	6 Aroclor 1248
4.848	1056418	1020342	0.966	1.95	
4.879	2544383	1395191	0.548	4.70	6 Aroclor 1248
4.958	551261	473511	0.859	1.01	
5.037	1198940	1096629	0.915	2.21	6 Aroclor 1248
5.102	1037122	883540	0.852	1.91	
5.161	1284498	1113815	0.867	2.37	7 Aroclor 1254
5.213	1033374	889666	0.861	1.90	
5.284	147233	145497	0.988	0.27	
5.307	327490	267361	0.816	0.60	
5.363	402698	358952	0.891	0.74	
5.407	956150	871292	0.911	1.76	7 Aroclor 1254
5.447	602603	505810	0.839	1.11	
5.482	180832	154255	0.853	0.33	
5.510	1678531	1442546	0.859	3.10	7 Aroclor 1254
5.578	84501	77581	0.918	0.15	
5.604	279790	240850	0.861	0.51	
5.675	497224	459594	0.924	0.91	
5.710	309407	239398	0.774	0.57	
5.742	353664	260742	0.737	0.65	
5.790	1802312	1394452	0.774	3.33	
5.885	242765	182163	0.750	0.44	
5.932	202402	156260	0.772	0.37	
5.993	365934	334790	0.915	0.67	
6.025	934951	799972	0.856	1.72	7 Aroclor 1254
6.056	1018569	886597	0.870	1.88	
6.170	283749	170225	0.600	0.52	
6.229	90167	106932	1.186	0.16	
6.242	182821	132263	0.723	0.33	
6.302	1594914	1286794	0.807	2.94	7 Aroclor 1254
6.334	165636	147561	0.891	0.30	
6.374	82494	63681	0.772	0.15	
6.432	245092	198853	0.811	0.45	
6.510	491416	429622	0.874	0.90	
6.536	272814	245659	0.900	0.50	
6.560	138438	122978	0.888	0.25	
6.606	55157	40532	0.735	0.10	
6.662	37956	30746	0.810	0.07	
6.718	164359	137377	0.836	0.30	
6.759	216320	183639	0.849	0.39	
6.801	217470	191724	0.882	0.40	
6.840	115043	82725	0.719	0.21	
6.911	22669	24251	1.070	0.04	
6.943	108140	96475	0.892	0.19	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.005	385482	345852	0.897	0.71	8 Aroclor 1260
7.032	45729	39015	0.853	0.08	
7.121	34098	22315	0.654	0.06	
7.251	225114	196414	0.873	0.41	8 Aroclor 1260
7.281	96425	71927	0.746	0.17	
7.331	22388	15167	0.677	0.04	
7.389	179074	149213	0.833	0.33	
7.442	203645	170579	0.838	0.37	8 Aroclor 1260
7.618	15820	12122	0.766	0.02	
7.693	53305	48700	0.914	0.09	
7.727	59043	46119	0.781	0.10	
7.800	44203	26014	0.589	0.08	
7.900	139136	115390	0.829	0.25	8 Aroclor 1260
7.959	23756	14786	0.622	0.04	
8.050	30512	23065	0.756	0.05	
8.275	130782	114180	0.873	0.24	
8.375	10154	7478	0.736	0.01	
8.456	9402	6370	0.678	0.01	
8.571	4136669	3505416	0.847	7.64	$ 12 Decachlorobiphenyl
9.170	23440	17717	0.756	0.04	
	54120448	44857460		100.000	

Total unknown % area = 43

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041218.b\041218024.D
Lab Smp Id: 1671679 Client Smp ID: ND3-170615-01-YP-03
Inj Date : 12-APR-2018 17:08
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1671679 x3,
Misc Info : 17661,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041218.b\pcba030618.m
Meth Date : 19-Apr-2018 09:02 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 24 QC Sample: MS
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	9.992	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			
1.806	1.804	0.002	14950	0.01436	22	0.00- 20.00	100.00(M)	BA
2.411	2.407	0.004	210188	0.38366	580	0.00- 20.00	1405.94	BA
2.689	2.688	0.001	88679	0.06411	96	0.00- 20.00	593.17	BA
2.791	2.789	0.002	105146	0.09509	140	0.00- 20.00	703.32	BA
2.851	2.851	0.000	453212	0.13922	210	0.00- 20.00	3031.52	BA
Average of Peak Concentrations =					210			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	4333024	0.03514	53		(M)	BA
3 Aroclor 1242					CAS #: 53469-21-9			
3.318	3.318	0.000	590083	0.23294	350	0.00- 20.00	100.00(RM)	
3.517	3.513	0.004	794791	0.31539	470	0.00- 20.00	134.69	
3.826	3.827	-0.001	2486999	0.34947	520	0.00- 20.00	421.47	
3.931	3.929	0.002	896915	0.29489	440	0.00- 20.00	152.00	
3.995	3.995	0.000	647730	0.31631	470	0.00- 20.00	109.77	
Average of Peak Concentrations =					450			

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			
4.262	4.261	0.001	1841443	0.78594	1200	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1820669	0.43868	660	0.00- 20.00	98.87	BA
4.813	4.812	0.001	1025164	0.50499	760	0.00- 20.00	55.67	BA
4.879	4.879	0.000	2544383	0.50509	760	0.00- 20.00	138.17	BA
5.037	5.038	-0.001	1198939	0.33410	500	0.00- 20.00	65.11	BA
			Average of Peak Concentrations =		770			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	1284498	0.24536	370	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	956150	0.22231	330	0.00- 20.00	74.44	BA
5.510	5.510	0.000	1678531	0.21614	320	0.00- 20.00	130.68	BA
6.025	6.027	-0.002	934951	0.19199	290	0.00- 20.00	72.79	BA
6.302	6.299	0.003	1594913	0.24510	370	0.00- 20.00	124.17	BA
			Average of Peak Concentrations =		340			
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	385481	0.03849	58	0.00- 20.00	24.17	BA
7.250	7.251	-0.001	225114	0.04710	71	0.00- 20.00	14.11	BA
7.442	7.443	-0.001	203644	0.06986	100	0.00- 20.00	12.77	BA
7.900	7.901	-0.001	139135	0.05273	79	0.00- 20.00	8.72	BA
			Average of Peak Concentrations =		78			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	4136668	0.03776	57			

QC Flag Legend

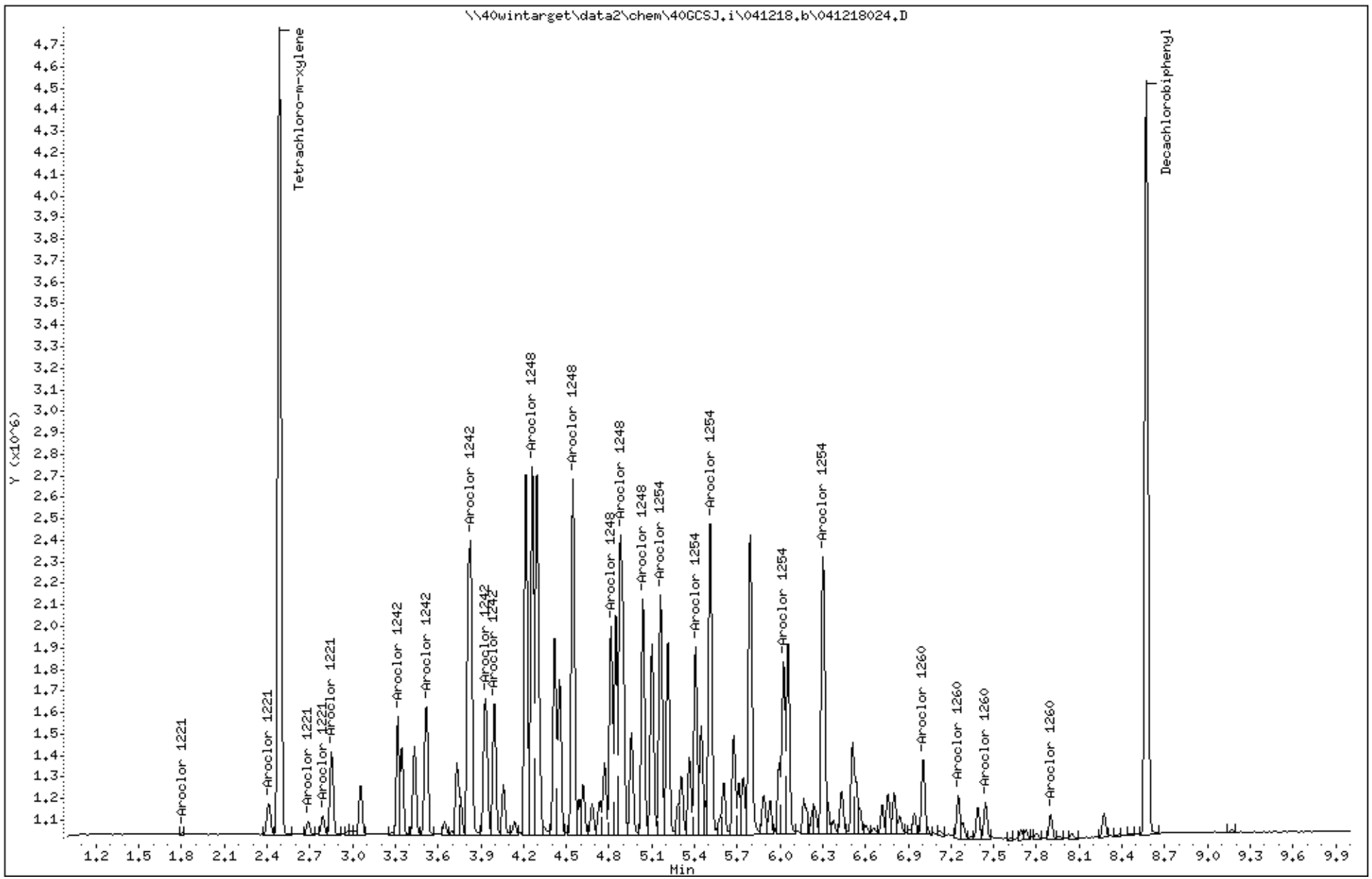
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Review Codes Legend

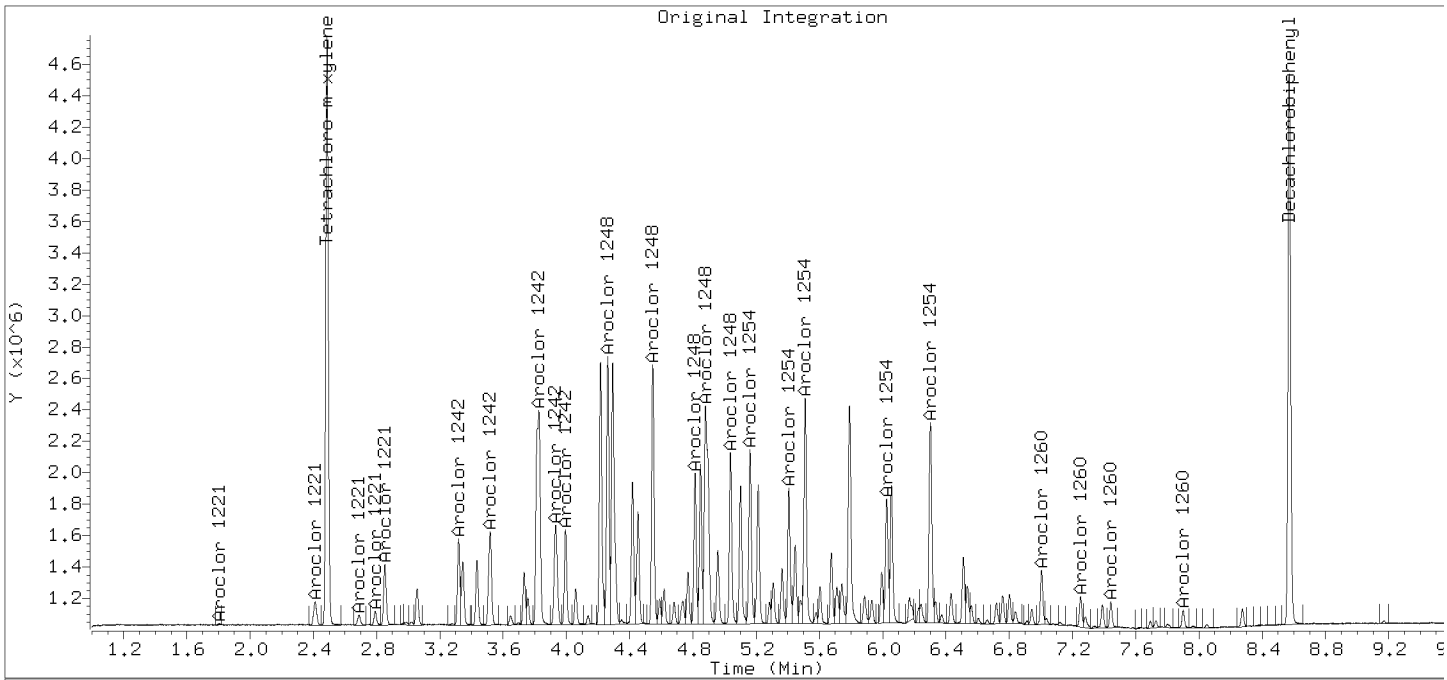
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:

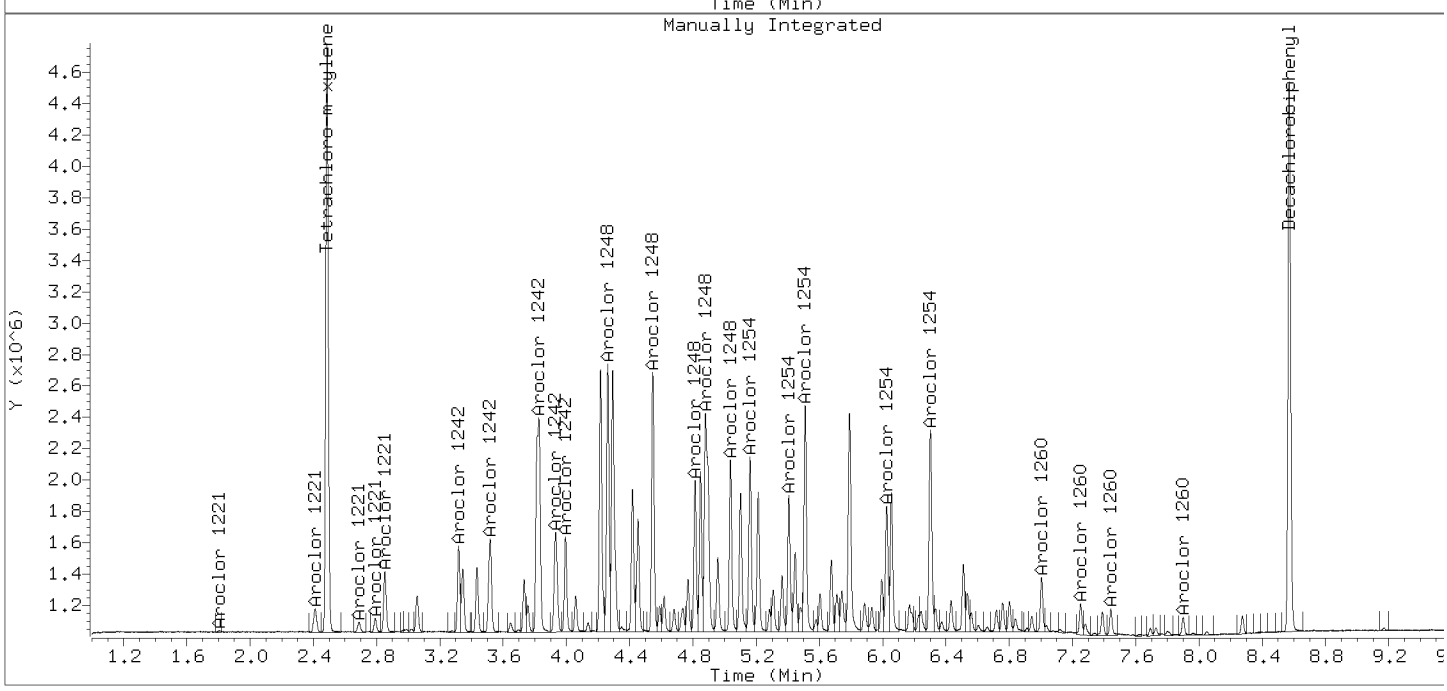
Data File: \\40wintarget\data2\chem\40GCSJ.i\041218.b\041218024.D
Date : 12-APR-2018 17:08
Client ID: ND3-170615-01-YP-03
Sample Info: 1671679 x3,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\041218.b/041218024.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 12-APR-2018 17:08 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1671679





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	587466	0	
Aroclor 1016	587466	0	
Aroclor 1016	587466	0	
Aroclor 1016	587466	0	
Aroclor 1016	587466	0	
Aroclor 1221	10068	14950	BA
Aroclor 1221	10068	14950	BA
Aroclor 1221	10068	14950	BA
Aroclor 1221	10068	14950	BA
Aroclor 1221	10068	14950	BA
Aroclor 1232	444140	0	
Aroclor 1232	444140	0	
Aroclor 1232	444140	0	
Aroclor 1232	444140	0	

Aroclor 1232	444140	0	
Aroclor 1242	587466	590083	
Aroclor 1242	587466	590083	
Aroclor 1242	587466	590083	
Aroclor 1242	587466	590083	
Aroclor 1242	587466	590083	
Aroclor 1248	1832789	1841443	BA
Aroclor 1248	1832789	1841443	BA
Aroclor 1248	1832789	1841443	BA
Aroclor 1248	1832789	1841443	BA
Aroclor 1248	1832789	1841443	BA
Aroclor 1254	1262946	1284498	BA
Aroclor 1254	1262946	1284498	BA
Aroclor 1254	1262946	1284498	BA
Aroclor 1254	1262946	1284498	BA
Aroclor 1254	1262946	1284498	BA
Aroclor 1260	1560517	0	BA
Aroclor 1260	1560517	0	BA
Aroclor 1260	1560517	0	BA
Aroclor 1260	1560517	0	BA
Aroclor 1260	1560517	0	BA
Tetrachloro-m-xylene	4325214	4333024	BA
Decachlorobiphenyl	4136668	4136668	

==========

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: 09/29/2017 10:00

Matrix: Tissue SDG No.: 40157694

Date Extracted: 04/11/2018 06:59

Lab Sample ID: 1671680

Date Analyzed: 04/12/2018 17:24

Lab File ID: 041218.B\041218025.D

Initial wt/vol: 9.9893 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)	122	J
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)	548	
11097-69-1	PCB-1254 (Aroclor 1254)	284	
11096-82-5	PCB-1260 (Aroclor 1260)	74.0	J

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041218.b\041218025.D
Lab Smp Id: 1671680 Client Smp ID: ND3-170615-01-YP-03
Inj Date : 12-APR-2018 17:24
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1671680 x3,
Misc Info : 17661,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041218.b\pcba030618.m
Meth Date : 19-Apr-2018 09:02 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 25 QC Sample: FIELDDUP
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	9.989	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.411	147031	114192	0.777	0.36	1 Aroclor 1221	BA
2.485	3785441	3539957	0.935	9.76	$ 2 Tetrachloro-m-xylene	BA
2.687	13734	11154	0.812	0.03	1 Aroclor 1221	BA
2.786	26680	20206	0.757	0.06	1 Aroclor 1221	BA
2.852	74442	58475	0.786	0.18	1 Aroclor 1221	BA
2.975	29699	18853	0.635	0.07		
3.017	23447	22090	0.942	0.05		
3.054	202507	186267	0.920	0.49		
3.318	108288	101000	0.933	0.26		
3.345	176603	160249	0.907	0.43		
3.434	355367	318737	0.897	0.87		
3.519	309487	279216	0.902	0.76		
3.647	60797	50226	0.826	0.14		
3.731	214349	211056	0.985	0.52		
3.755	96134	90501	0.941	0.23		
3.814	567663	579305	1.021	1.39		
3.825	498452	549764	1.103	1.22		
3.937	309181	243567	0.788	0.76		
3.993	266417	242357	0.910	0.65		
4.058	145542	131094	0.901	0.35		
4.133	27063	22546	0.833	0.06		
4.215	1462623	1294508	0.885	3.59		
4.261	1444453	1362295	0.943	3.55	6 Aroclor 1248	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.292	1743184	1453639	0.834	4.29	
4.349	34413	29965	0.871	0.08	
4.417	549814	513229	0.933	1.35	
4.452	504494	447068	0.886	1.24	
4.545	1223925	1119729	0.915	3.01	6 Aroclor 1248
4.589	153055	140636	0.919	0.37	
4.616	131057	114191	0.871	0.32	
4.680	144034	124369	0.863	0.35	
4.737	170051	126807	0.746	0.41	
4.767	306273	280968	0.917	0.75	
4.812	715748	674899	0.943	1.76	6 Aroclor 1248
4.848	593553	559010	0.942	1.46	
4.879	1862346	924627	0.496	4.58	6 Aroclor 1248
4.956	456955	376623	0.824	1.12	
5.037	687628	638537	0.929	1.69	6 Aroclor 1248
5.101	868167	739403	0.852	2.13	
5.161	1083926	924398	0.853	2.66	7 Aroclor 1254
5.212	872668	781174	0.895	2.14	
5.283	134122	124597	0.929	0.33	
5.307	289730	232937	0.804	0.71	
5.363	315784	277551	0.879	0.77	
5.406	781002	696155	0.891	1.92	7 Aroclor 1254
5.446	480481	410536	0.854	1.18	
5.478	144269	130841	0.907	0.35	
5.510	1392829	1183690	0.850	3.42	7 Aroclor 1254
5.577	81414	70122	0.861	0.20	
5.604	209788	172285	0.821	0.51	
5.675	453733	416764	0.919	1.11	
5.709	273514	217708	0.796	0.67	
5.743	298232	237820	0.797	0.73	
5.789	1561301	1176262	0.753	3.84	
5.886	220192	156600	0.711	0.54	
5.931	174967	141955	0.811	0.43	
5.994	336023	303782	0.904	0.82	
6.026	761831	645495	0.847	1.87	7 Aroclor 1254
6.055	915798	810697	0.885	2.25	
6.168	271001	144148	0.532	0.66	
6.232	91682	96277	1.050	0.22	
6.242	154665	122545	0.792	0.38	
6.302	1429916	1143413	0.800	3.51	7 Aroclor 1254
6.332	148465	135175	0.910	0.36	
6.371	76819	56820	0.740	0.18	
6.432	228544	184567	0.808	0.56	
6.509	434928	390899	0.899	1.07	
6.536	245937	218502	0.888	0.60	
6.561	123878	109307	0.882	0.30	
6.606	51576	37862	0.734	0.12	
6.662	35623	26923	0.756	0.08	
6.720	147131	121744	0.827	0.36	
6.759	197628	167102	0.846	0.48	
6.802	202020	175626	0.869	0.49	
6.840	107726	75000	0.696	0.26	
6.913	24574	22229	0.905	0.06	
6.942	98102	85191	0.868	0.24	
7.005	353266	315146	0.892	0.86	8 Aroclor 1260
7.034	31780	36540	1.150	0.07	
7.123	42269	19969	0.472	0.10	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.251	203937	172911	0.848	0.50	8 Aroclor 1260
7.283	87801	63556	0.724	0.21	
7.342	19450	12833	0.660	0.04	
7.389	148549	133865	0.901	0.36	
7.443	202820	149490	0.737	0.49	8 Aroclor 1260
7.548	12943	9799	0.757	0.03	
7.689	45140	41649	0.923	0.11	
7.725	53294	42373	0.795	0.13	
7.802	43433	22986	0.529	0.10	
7.900	130770	107690	0.824	0.32	8 Aroclor 1260
8.048	30991	21146	0.682	0.07	
8.275	118721	104663	0.882	0.29	
8.571	3735531	3100678	0.830	9.19	$ 12 Decachlorobiphenyl
9.168	20213	15963	0.790	0.04	
9.963	9400	7932	0.844	0.02	
	40632219	34675203		100.000	

Total unknown % area = 50

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041218.b\041218025.D
Lab Smp Id: 1671680 Client Smp ID: ND3-170615-01-YP-03
Inj Date : 12-APR-2018 17:24
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1671680 x3,
Misc Info : 17661,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041218.b\pcba030618.m
Meth Date : 19-Apr-2018 09:02 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 25 QC Sample: FIELDDUP
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	9.989	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			
1.804	1.804	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
2.410	2.407	0.003	147030	0.26838	400	0.00- 20.00	0.00	BA
2.687	2.688	-0.001	13734	0.00993	15	0.00- 20.00	0.00	BA
2.785	2.789	-0.004	26679	0.02413	36	0.00- 20.00	0.00	BA
2.851	2.851	0.000	74442	0.02287	34	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					120			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	3785441	0.03070	46		(M)	BA
3 Aroclor 1242					CAS #: 53469-21-9			

Operator disabled compound identification.

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			
4.260	4.261	-0.001	1444453	0.61650	920	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1223924	0.29490	440	0.00- 20.00	84.73	BA
4.812	4.812	0.000	715747	0.35257	530	0.00- 20.00	49.55	BA
4.879	4.879	0.000	1862345	0.36970	560	0.00- 20.00	128.93	BA
5.037	5.038	-0.001	687627	0.19162	290	0.00- 20.00	47.60	BA
			Average of Peak Concentrations =		550			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	1083926	0.20704	310	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	781001	0.18158	270	0.00- 20.00	72.05	BA
5.510	5.510	0.000	1392828	0.17935	270	0.00- 20.00	128.50	BA
6.025	6.027	-0.002	761831	0.15644	230	0.00- 20.00	70.28	BA
6.302	6.299	0.003	1429916	0.21975	330	0.00- 20.00	131.92	BA
			Average of Peak Concentrations =		280			
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	353266	0.03528	53	0.00- 20.00	26.89	CO
7.251	7.251	0.000	203936	0.04267	64	0.00- 20.00	14.26	CO
7.442	7.443	-0.001	202820	0.06958	100	0.00- 20.00	14.18	CO
7.899	7.901	-0.002	130770	0.04956	74	0.00- 20.00	9.15	CO
			Average of Peak Concentrations =		74			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	3735531	0.03410	51			

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\041218.b\041218025.D

Date : 12-APR-2018 17:24

Client ID: ND3-170615-01-YP-03

Instrument: 40GCSJ.i

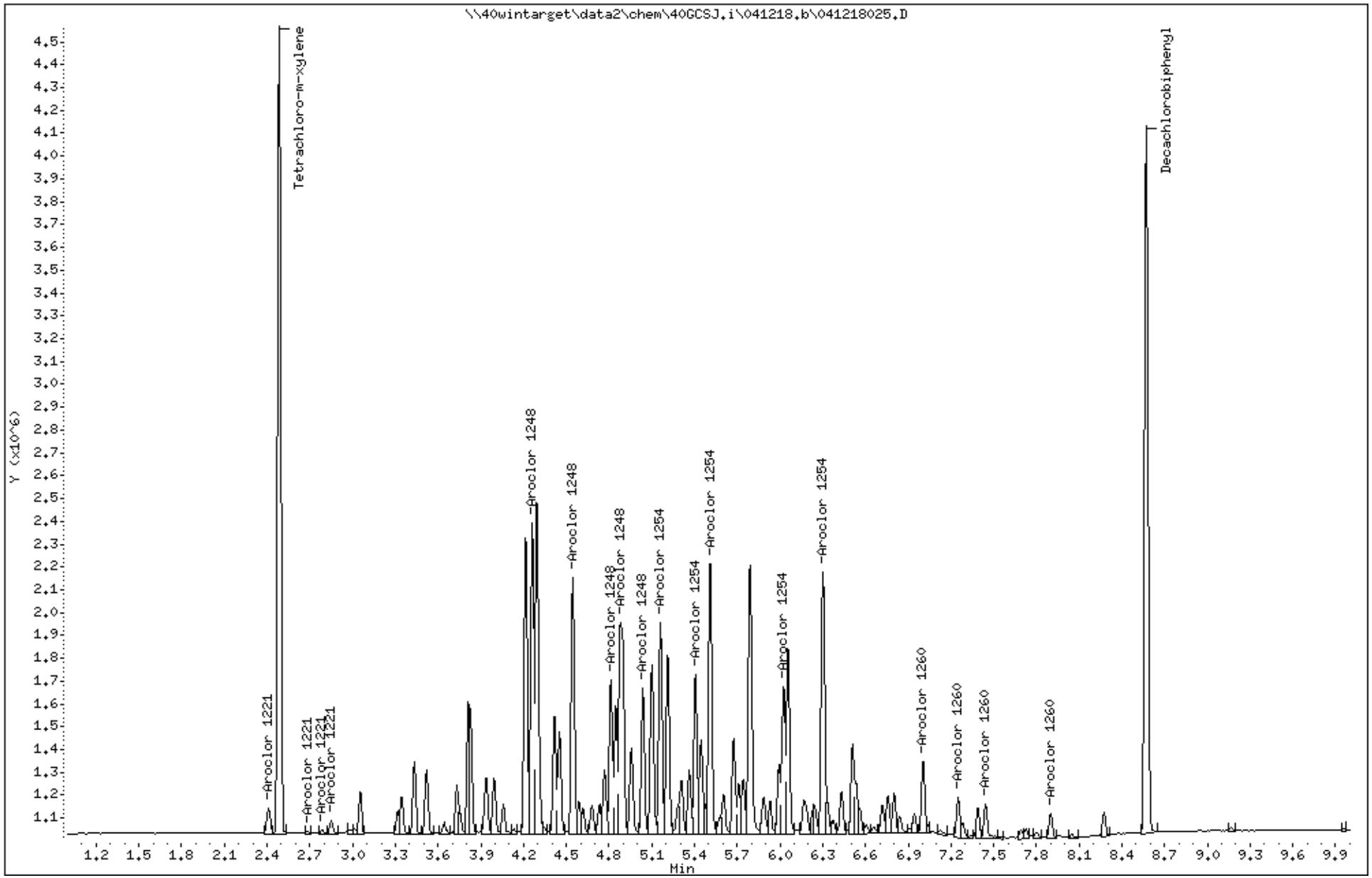
Sample Info: 1671680 x3,

Volume Injected (uL): 1.0

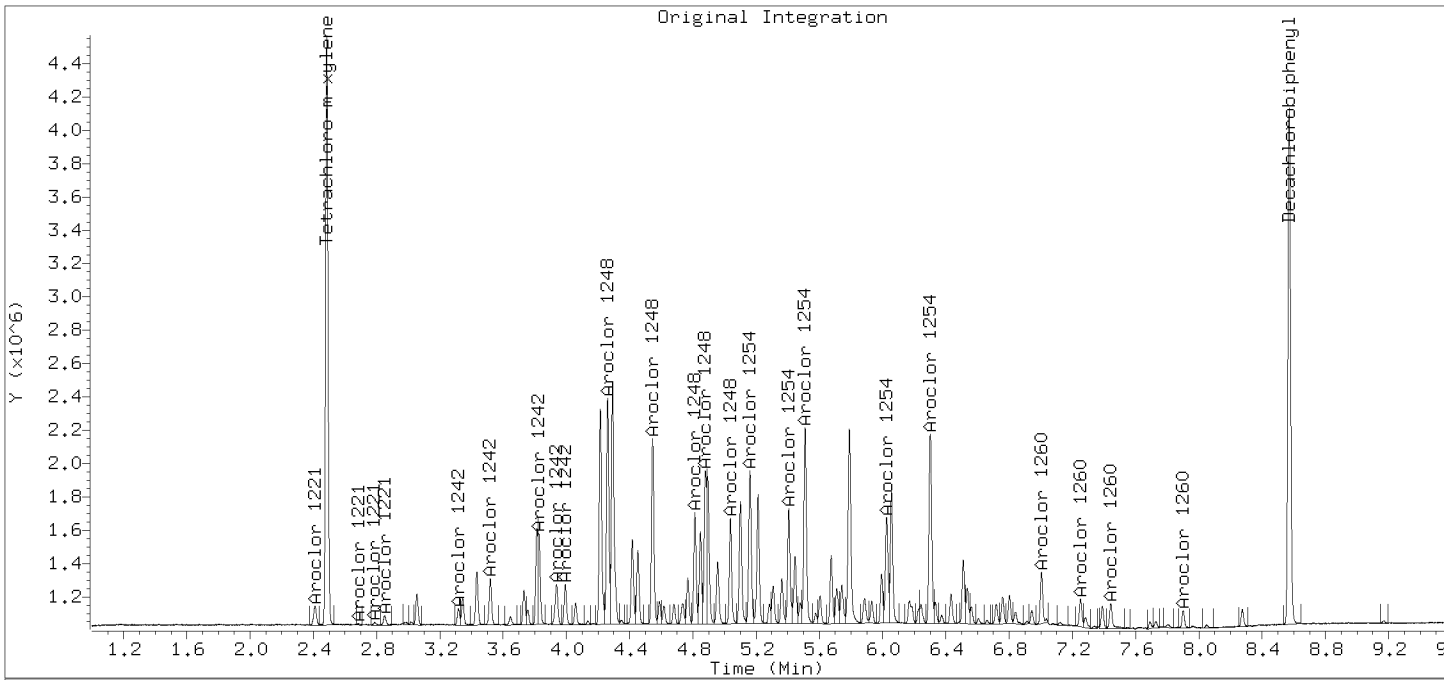
Operator: BLM

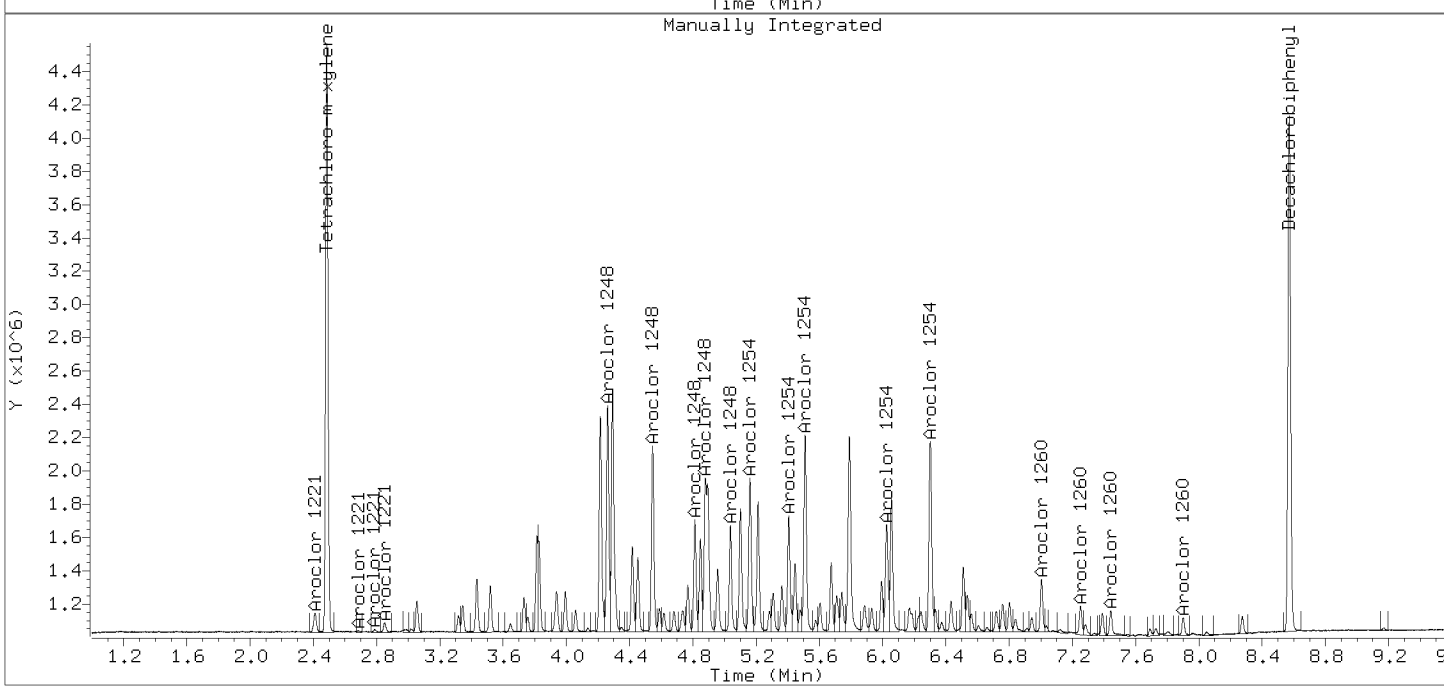
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041218.b/041218025.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 12-APR-2018 17:24 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1671680





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	105328	0	
Aroclor 1016	105328	0	
Aroclor 1016	105328	0	
Aroclor 1016	105328	0	
Aroclor 1016	105328	0	
Aroclor 1221	0	0	BA
Aroclor 1221	0	0	BA
Aroclor 1221	0	0	BA
Aroclor 1221	0	0	BA
Aroclor 1221	0	0	BA
Aroclor 1232	72171	0	
Aroclor 1232	72171	0	
Aroclor 1232	72171	0	
Aroclor 1232	72171	0	

Aroclor 1232	72171	0	
Aroclor 1242	105328	0	
Aroclor 1242	105328	0	
Aroclor 1242	105328	0	
Aroclor 1242	105328	0	
Aroclor 1242	105328	0	
Aroclor 1248	1431953	1444453	BA
Aroclor 1248	1431953	1444453	BA
Aroclor 1248	1431953	1444453	BA
Aroclor 1248	1431953	1444453	BA
Aroclor 1248	1431953	1444453	BA
Aroclor 1254	1062666	1083926	BA
Aroclor 1254	1062666	1083926	BA
Aroclor 1254	1062666	1083926	BA
Aroclor 1254	1062666	1083926	BA
Aroclor 1254	1062666	1083926	BA
Aroclor 1260	1405147	0	CO
Aroclor 1260	1405147	0	CO
Aroclor 1260	1405147	0	CO
Aroclor 1260	1405147	0	CO
Aroclor 1260	1405147	0	CO
Tetrachloro-m-xylene	3771232	3785441	BA
Decachlorobiphenyl	3735531	3735531	

==========

Prep Log Report

Batch Information: OEXT 285695 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	04/11/2018 06:59:34:124
Spiked By	AMC	Spiked By Date/Time	04/11/2018 06:59:36	Witnessed By	ETB	Witnessed By Date/Time	04/11/2018 06:59:36:741
Instrument	40BALL	Conc. Temp #1	40	Conc. Temp #2	40	Methylene Chloride	None Added
Hexane/Acetone 1:1	193584	Hexane	192551	Sodium Sulfate	193625	Florisil	186910
3620B Date/Initials	4/12/18 AMC	H2SO4 - Conc.	179363	Acid 3665A Date/Initials	4/12/18 AMC	Tuna	None Added
Reviewed By	BLM	Reviewed By Date	04/19/2018 09:02	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	**1671677**	10	5	3		193230 (.25)	
8082A TNYP	LCS	**1671678**	10	5	3		193230 (.25)	192096 (.125)
8082A TNYP	PS	**40157492005**	9.9978	5	3		193230 (.25)	
8082A TNYP	PS	**40157694001**	10.0269	5	3		193230 (.25)	
8082A TNYP	PS	**40157694002**	9.9867	5	3		193230 (.25)	
8082A TNYP	PS	**40157694003**	9.9709	5	3		193230 (.25)	
8082A TNYP	PS	**40157694004**	9.9788	5	3		193230 (.25)	
8082A TNYP	PS	**40157694005**	9.9731	5	3		193230 (.25)	
8082A TNYP	PS	**40157694006**	10.0343	5	3		193230 (.25)	
8082A TNYP	PS	**40157694007**	9.9641	5	3		193230 (.25)	
8082A TNYP	PS	**40157694008**	10.0096	5	3		193230 (.25)	
8082A TNYP	PS	**40157694009**	10.027	5	3		193230 (.25)	
8082A TNYP	PS	**40157694010**	9.9701	5	3		193230 (.25)	
8082A TNYP	PS	**40157694011**	10.0162	5	3		193230 (.25)	
8082A TNYP	PS	**40157694012**	9.9808	5	3		193230 (.25)	
8082A TNYP	RQS	**40157694013**	10.0197	5	3		193230 (.25)	

Prep Log Report

40157694

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	MS	**1671679**	9.9922	5	3		193230 (.25)	192096 (.125)
8082A TNYP	DUP	**1671680**	9.9893	5	3		193230 (.25)	
8082A TNYP	PS	**40157694014**	9.9893	5	3		193230 (.25)	
8082A TNYP	PS	**40157694015**	9.9659	5	3		193230 (.25)	

Standard Notes:

192096: Ar1242 Spike @20ug/mL 40GCS9. **193230: Pest/PCB Surrogate Spike 40GCSC.**

PROJECT 40GCSI Screeners 04/12/18

Notebook No. 4418

Continued from Page —

```
   Sequence Name: C:\msdchem\1\sequence\041218.s
         Comment:
        Operator:
       Data Path: C:\MSDCHEM\1\DATA\041218\
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  1671677MB
     Datafile           --------
     Method             SCREEN2014
 4) Sample          4  1671678LCS
     Datafile           --------
     Method             SCREEN2014
 5) RearSamp        5  40157492-005 x2
     Datafile           --------
     Method             SCREEN2014
 6) Sample          6  40157694-001 x2
     Datafile           --------
     Method             SCREEN2014
 7) RearSamp        7  40157694-002 x2
     Datafile           --------
     Method             SCREEN2014
 8) Sample          8  40157694-003 x4
     Datafile           --------
     Method             SCREEN2014
 9) RearSamp        9  40157694-004 —
     Datafile           --------
     Method             SCREEN2014
10) Sample         10  40157694-005 x3
     Datafile           --------
     Method             SCREEN2014
11) RearSamp       11  40157694-006 x3
     Datafile           --------
     Method             SCREEN2014
12) Sample         12  40157694-007 x3
     Datafile           --------
     Method             SCREEN2014
13) RearSamp       13  40157694-008 x2
     Datafile           --------
     Method             SCREEN2014
14) Sample         14  40157694-009 x2
     Datafile           --------
     Method             SCREEN2014
15) RearSamp       15  40157694-010 —
     Datafile           --------
     Method             SCREEN2014
16) Sample         16  40157694-011 —
     Datafile           --------
     Method             SCREEN2014
17) RearSamp       17  40157694-012 x4
     Datafile           --------
     Method             SCREEN2014
18) Sample         18  40157694-013 x3
     Datafile           --------
     Method             SCREEN2014
19) RearSamp       19  1671679MS x3
     Datafile           --------
```

GE BIOTA

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Read and Understood By

Signed 4/13/18 Date

Signed 4-13-18 Date

```
     Method                SCREEN2014
20)  Sample        20      1671680DUP  x3
     Datafile              --------
     Method                SCREEN2014
21)  RearSamp      21      40157694-014  x3
     Datafile              --------
     Method                SCREEN2014
22)  Sample        22      40157694-015  x2
     Datafile              --------
     Method                SCREEN2014
```

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BLM 4/13/18

Continued on Page —

Read and Understood By

Signed: [signature] Date: 4/13/18 Signed: [signature] Date: 4-13-18

PROJECT 40GCSJ/K 03/06/18

Notebook No. 4417

Continued from Page —

```
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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Read and Understood By

Signed 3/7/18 Date Signed 3/7/18 Date

```
      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

Last Modified: Tue Mar 06 10:58:59 2018          Page:  2
```

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Read and Understood By

Bryan Meyer — Signed — 3/7/18 Date

Signed — 3/5/18 Date

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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Read and Understood By

Bryan Meyer — Signed — 3/7/18 Date

Signed — 3/7/18 Date

```
      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

Last Modified: Tue Mar 06 10:58:59 2018          Page:  4
```

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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\041218.s
          Comment:
         Operator: BLM
        Data Path: C:\MSDCHEM\1\DATA\041218\
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          041218001
     Method            GEBIOTA2017
 2) Sample          2  HEXANE
     Datafile          041218002
     Method            GEBIOTA2017
 3) Sample          3  HEXANE
     Datafile          041218003
     Method            GEBIOTA2017
 4) Sample          4  1242-CCV,185544:1,17498,AR124 OK
     Datafile          041218004
     Method            GEBIOTA2017
 5) Sample          5  1242-CCV,185544:1,17498,AR124 OK
     Datafile          041218005
     Method            GEBIOTA2017
 6) Sample          6  1671677,,17661,BIOTA
     Datafile          041218006
     Method            GEBIOTA2017
 7) Sample          7  1671678,,17661,BIOTA
     Datafile          041218007
     Method            GEBIOTA2017
 8) Sample          8  40157492005 x2,,17661,BIOTA RS
     Datafile          041218008
     Method            GEBIOTA2017
 9) Sample          9  40157694001 x2,,17661,BIOTA
     Datafile          041218009
     Method            GEBIOTA2017
10) Sample         10  40157694002 x2,,17661,BIOTA
     Datafile          041218010
     Method            GEBIOTA2017
11) Sample         11  40157694003 x4,,17661,BIOTA
     Datafile          041218011
     Method            GEBIOTA2017
12) Sample         12  40157694004,,17661,BIOTA RS
     Datafile          041218012
     Method            GEBIOTA2017
13) Sample         13  40157694005 x3,,17661,BIOTA
     Datafile          041218013
     Method            GEBIOTA2017
14) Sample         14  40157694006 x3,,17661,BIOTA RS
     Datafile          041218014
     Method            GEBIOTA2017
15) Sample         15  40157694007 x3,,17661,BIOTA
     Datafile          041218015
     Method            GEBIOTA2017
16) Sample         16  1248-CCV,185549:1,17498,AR124 OK
     Datafile          041218016
     Method            GEBIOTA2017
17) Sample         17  1248-CCV,185549:1,17498,AR124 OK
     Datafile          041218017
     Method            GEBIOTA2017
18) Sample         18  40157694008 x2,,17661,BIOTA
     Datafile          041218018
     Method            GEBIOTA2017
19) Sample         19  40157694009 x2,,17661,BIOTA
     Datafile          041218019

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```

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Read and Understood By

Signed: [signature] Date: 4/13/18

Signed: [signature] Date: 4-13-18

```
      Method              GEBIOTA2017
20) Sample        20  40157694010,,17661,BIOTA
      Datafile            041218020
      Method              GEBIOTA2017
21) Sample        21  40157694011,,17661,BIOTA
      Datafile            041218021
      Method              GEBIOTA2017
22) Sample        22  40157694012 x4,,17661,BIOTA
      Datafile            041218022
      Method              GEBIOTA2017
23) Sample        23  40157694013 x3,,17661,BIOTA
      Datafile            041218023
      Method              GEBIOTA2017
24) Sample        24  1671679 x3,,17661,BIOTA
      Datafile            041218024
      Method              GEBIOTA2017
25) Sample        25  1671680 x3,,17661,BIOTA
      Datafile            041218025
      Method              GEBIOTA2017
26) Sample        26  40157694014 x3,,17661,BIOTA
      Datafile            041218026
      Method              GEBIOTA2017
27) Sample        27  40157694015 x2,,17661,BIOTA
      Datafile            041218027
      Method              GEBIOTA2017
28) Sample        28  1254-CCV,185554:1,17498,AR125 ok
      Datafile            041218028
      Method              GEBIOTA2017
29) Sample        29  1254-CCV,185554:1,17498,AR125 ok
      Datafile            041218029
      Method              GEBIOTA2017
```

GCSV Batch 17661 HBN: 285874
Screened: 40GCSI 04/12/18

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BLM 4/13/18

Continued on Page —

Read and Understood By

Signed 4/13/18 Date Signed 4-13-18 Date

```
      Sequence Name: C:\msdchem\1\sequence\041318.s
            Comment:
           Operator: BLM
          Data Path: C:\MSDCHEM\1\DATA\041318\
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          041318001
     Method            GEBIOTA2017
 2) Sample          2  HEXANE
     Datafile          041318002
     Method            GEBIOTA2017
 3) Sample          3  HEXANE
     Datafile          041318003
     Method            GEBIOTA2017
 4) Sample          4  1660-CCV,185559:1,17498,AR166 ok
     Datafile          041318004
     Method            GEBIOTA2017
 5) Sample          5  1660-CCV,185559:1,17498,AR166 ok
     Datafile          041318005
     Method            GEBIOTA2017
 6) Sample          6  40157492005 x3,,17661,BIOTA
     Datafile          041318006
     Method            GEBIOTA2017
 7) Sample          7  40157694004 x2,,17661,BIOTA
     Datafile          041318007
     Method            GEBIOTA2017
 8) Sample          8  40157694006 x4,,17661,BIOTA
     Datafile          041318008
     Method            GEBIOTA2017
 9) Sample          9  1672269,,17670,BIOTA
     Datafile          041318009
     Method            GEBIOTA2017
10) Sample         10  1672270,,17670,BIOTA
     Datafile          041318010
     Method            GEBIOTA2017
11) Sample         11  40157492006,,17670,BIOTA
     Datafile          041318011
     Method            GEBIOTA2017
12) Sample         12  40157492007 x3,,17670,BIOTA
     Datafile          041318012
     Method            GEBIOTA2017
13) Sample         13  40157492008,,17670,BIOTA RS
     Datafile          041318013
     Method            GEBIOTA2017
14) Sample         14  40157492009 x2,,17670,BIOTA
     Datafile          041318014
     Method            GEBIOTA2017
15) Sample         15  40157492010 x5,,17670,BIOTA
     Datafile          041318015
     Method            GEBIOTA2017
16) Sample         16  1221-CCV,185538:1,17498,AR122 ok
     Datafile          041318016
     Method            GEBIOTA2017
17) Sample         17  1221-CCV,185538:1,17498,AR122 ok
     Datafile          041318017
     Method            GEBIOTA2017
18) Sample         18  40157492011 x5,,17670,BIOTA
     Datafile          041318018
     Method            GEBIOTA2017
19) Sample         19  40157492016,,17670,BIOTA
     Datafile          041318019

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```

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Read and Understood By

Bryan Mayl — Signed — 4/18/18 — Date

Jim O'Connor — Signed — 4-18-18 — Date

```
      Method              GEBIOTA2017
20)  Sample        20     1672271,,17670,BIOTA
      Datafile            041318020
      Method              GEBIOTA2017
21)  Sample        21     40157698008 x2,,17670,BIOTA
      Datafile            041318021
      Method              GEBIOTA2017
22)  Sample        22     40157698009 x2,,17670,BIOTA
      Datafile            041318022
      Method              GEBIOTA2017
23)  Sample        23     40157698010 x15,,17670,BIOTA
      Datafile            041318023
      Method              GEBIOTA2017
24)  Sample        24     40157698011,,17670,BIOTA
      Datafile            041318024
      Method              GEBIOTA2017
25)  Sample        25     1672272,,17670,BIOTA
      Datafile            041318025
      Method              GEBIOTA2017
26)  Sample        26     1672273,,17670,BIOTA
      Datafile            041318026
      Method              GEBIOTA2017
27)  Sample        27     40157703001 x2,,17670,BIOTA
      Datafile            041318027
      Method              GEBIOTA2017
28)  Sample        28     1232-CCV,185539:1,17498,AR123 OL
      Datafile            041318028
      Method              GEBIOTA2017
29)  Sample        29     1232-CCV,185539:1,17498,AR123 OL
      Datafile            041318029
      Method              GEBIOTA2017
30)  Sample        30     40157703005,,17670,BIOTA
      Datafile            041318030
      Method              GEBIOTA2017
31)  Sample        31     40157830013 x2,,17670,BIOTA RS
      Datafile            041318031
      Method              GEBIOTA2017
32)  Sample        32     1242-CCV,185544:1,17498,AR124 OL
      Datafile            041318032
      Method              GEBIOTA2017
33)  Sample        33     1242-CCV,185544:1,17498,AR124 OL
      Datafile            041318033
      Method              GEBIOTA2017
```

GCSV Batch 17670 Screened 40GCSI 4/13/18

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BLM 4/18/18

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Read and Understood By

Signed 4/18/18 Date

Signed Jim O'Conn 4-18-18 Date

Standard Log Report

Standards Log Information for Standard #193625

STOCK STANDARD

Created By:	MRN	**Volume of Standard:**	5 kg	**Lot ID:**	405550
Create Date:	04/11/2018	**Manufacturer:**	JT Baker	**Part ID:**	3375-09
Expire Date:	10/11/2018	**Manufacturer Lot ID:**	0000177456	**Standard ID:**	RGNT301

Notes:

Sodium Sulfate SVOA baked 4/11/18
from drum 192182

Compound Name and Concentration for Standard #193625

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 #193584

WORKING STANDARD

Created By:	ASD	**Volume of Standard:**	4 L	**Lot ID:**	NA
Create Date:	04/10/2018	**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 ETB

Compound Name and Concentration for Standard #193584

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL	Hexanes	ug/mL

Composed of Information for Standard #193584

Composed of Standard Seq	Volume	Units
192551	2000	mL
190944	2000	mL

Standard Log Report

Standards Log Information for Standard #193230

WORKING STANDARD

Created By:	ASD	**Volume of Standard:**	1000 mL	**Lot ID:**	GCSV
Create Date:	04/05/2018	**Manufacturer:**	N/A	**Part ID:**	N/A
Expire Date:	10/05/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	8081-SS

Notes:

Pest/PCB Surrogate Spike 40GCSC.i\040618SurrCHK.b\A406068 TCMX-91.42% DCB-91.66%

Compound Name and Concentration for Standard #193230

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 #193230

Composed of Standard Seq	Volume	Units
190942	999	mL
172034	1	mL

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 #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 #190944

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 #190944

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 #190942

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 #190942

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 #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 #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			

The standards listed are from Pace's Green Bay Laboratory.

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

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

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 #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		

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 #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 #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		

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		

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

The standards listed are from Pace's Green Bay Laboratory.

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 #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		

The standards listed are from Pace's Green Bay Laboratory.

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		

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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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.

405341
REC. 06/23/17 BY MRN
Exp. --/--/-- By --

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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.

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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. : 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)

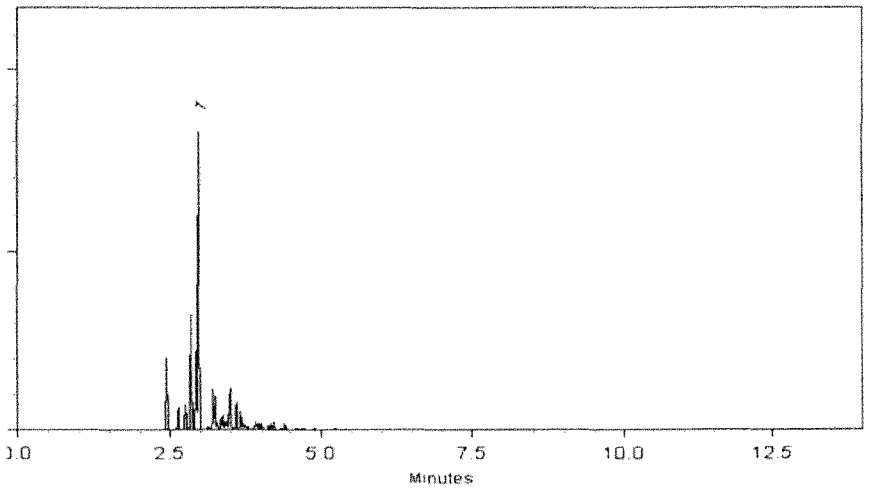
Carrier Gas:
helium-constant pressure 20 psi.

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

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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)

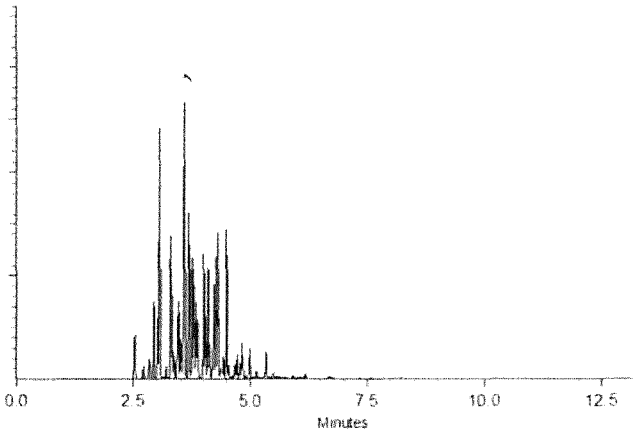
Carrier Gas:
helium-constant pressure 20 psi.

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

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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)

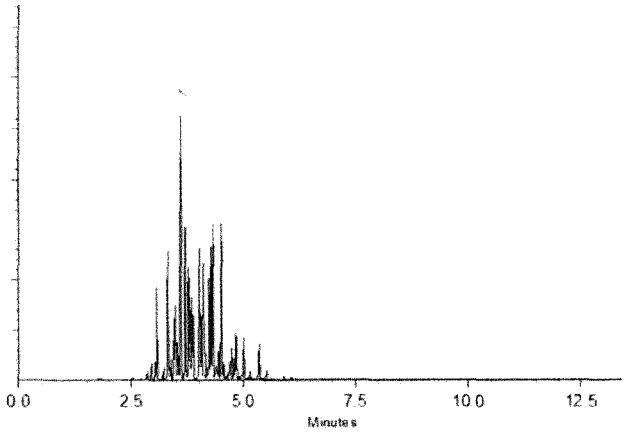
Carrier Gas:
helium-constant pressure 20 psi.

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

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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)

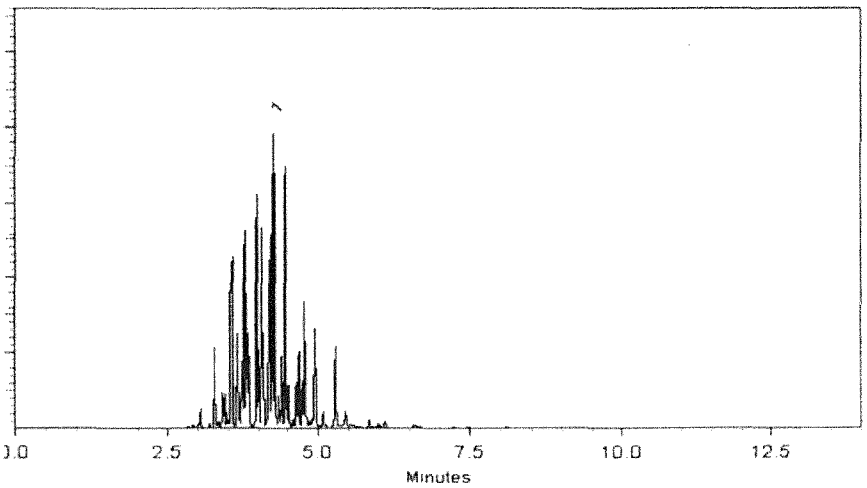
Carrier Gas:
helium-constant pressure 20 psi.

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

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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 __
Open __/__/__ By __

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

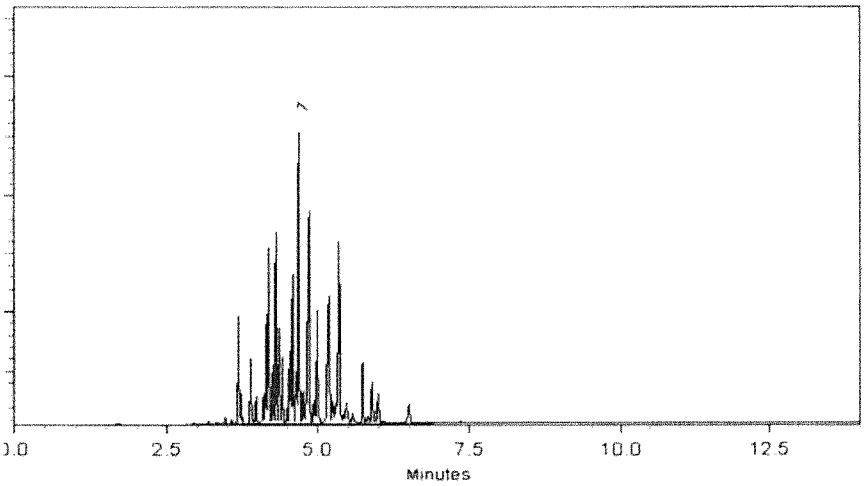
Carrier Gas:
helium-constant pressure 20 psi.

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.

Dawn Brownson - Mix Technician **Date Mixed:** 24-Feb-2017 **Balance:** 1128360905

Jennifer Pollino - Operations Tech-ARM QC **Date Passed:** 13-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. : 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)

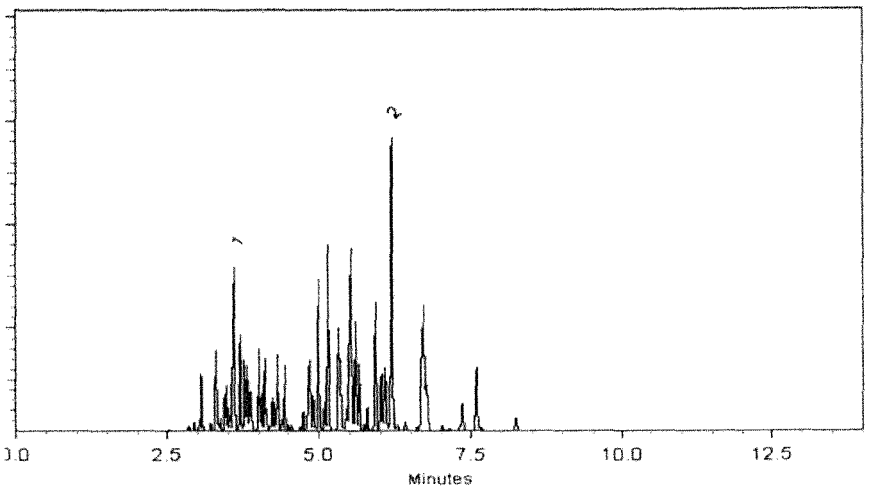
Carrier Gas:
helium-constant pressure 20 psi.

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

Cathleen Soltis - Mix Technician

Date Mixed: 30-Jan-2017 **Balance:** B442140311

Jennifer L Pollino

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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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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Date Received: _____

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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Rev 0 **Page 1 of 1**

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.

110 Benner Circle
Bellefonte, PA 16823-8812
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CERTIFIED REFERENCE MATERIAL

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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)

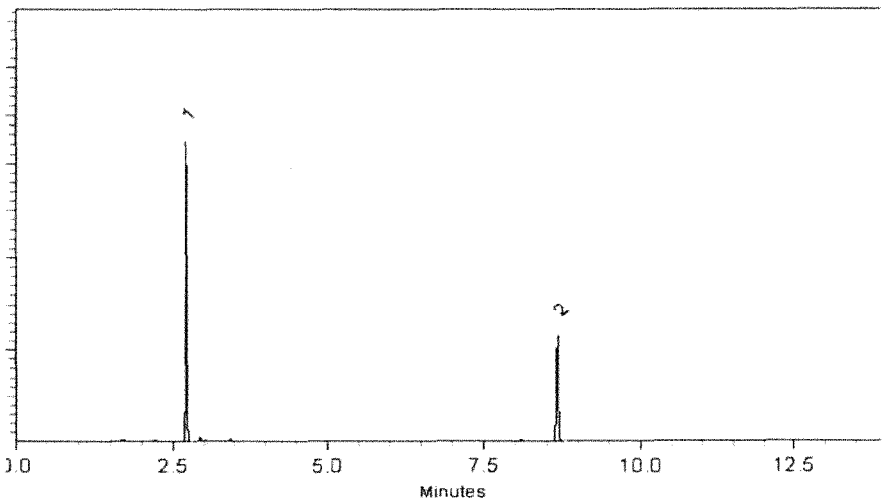
Carrier Gas:
helium-constant pressure 20 psi.

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

CERTIFICATE OF ANALYSIS

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Muskegon, MI 49442
Phone: (800) 368-0050
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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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:
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 --
Open --/--/-- 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
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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.:** 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)

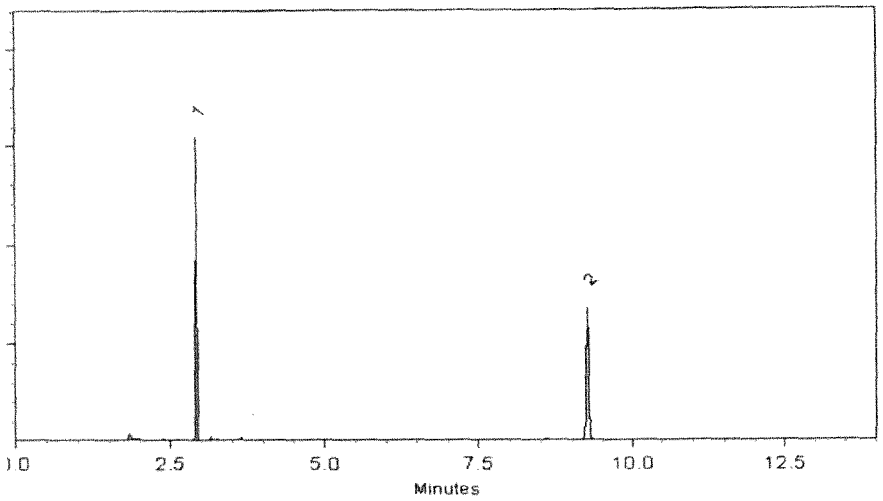
Carrier Gas:
helium-constant pressure 20 psi.

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

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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

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.573.2600
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3477 Corporate Parkway, Center Valley, PA 18034. U.S.A. Phone: 610.573.2600 . Fax: 610.573.2610

SAMPLE NO.

ND5-170615-01-YP-10

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157694 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157694001 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.82		%	1	04/12/2018 06:34

SAMPLE NO.

ND5-170615-01-YP-09

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157694 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157694002 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	2.7		%	1	04/12/2018 06:34

SAMPLE NO.

ND5-170615-01-YP-08

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157694 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157694003 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	2.5		%	1	04/12/2018 06:34

SAMPLE NO.

ND5-170615-01-YP-07

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157694 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157694004 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.1		%	1	04/12/2018 06:34

SAMPLE NO.

ND5-170615-01-YP-06

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157694 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157694005 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.8		%	1	04/12/2018 06:34

SAMPLE NO.

ND5-170615-01-YP-05

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157694 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157694006 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	2.0		%	1	04/12/2018 06:34

SAMPLE NO.

ND5-170615-01-YP-04

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157694 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157694007 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.3		%	1	04/12/2018 06:34

SAMPLE NO.

ND5-170615-01-YP-03

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157694 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157694008 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.98		%	1	04/12/2018 06:34

SAMPLE NO.

ND5-170615-01-YP-02

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157694 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157694009 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.2		%	1	04/12/2018 06:34

SAMPLE NO.

ND5-170615-01-YP-01

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157694 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157694010 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.54		%	1	04/12/2018 06:34

SAMPLE NO.

ND3-170615-01-YP-05

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157694 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157694011 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.27		%	1	04/12/2018 06:34

SAMPLE NO.

ND3-170615-01-YP-04

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157694 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157694012 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.8		%	1	04/12/2018 06:34

SAMPLE NO.

ND3-170615-01-YP-03

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157694 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157694013 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.3		%	1	04/12/2018 06:34

SAMPLE NO.

ND3-170615-01-YP-02

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157694 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157694014 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.1		%	1	04/12/2018 06:34

SAMPLE NO.

ND3-170615-01-YP-01

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157694 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157694015 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.65		%	1	04/12/2018 06:34

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Green Bay SDG No. : 40157694 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	1672277	C
Lipid									<0.030	U

SAMPLE NO.

1672280DUP

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40157694 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Lipid	40	1.3	1.1	13

Prep Log Report

Batch Information: OEXT 285846 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 14:03				

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	**1672277**	Y	0.01500	04/12/2018 06:34:35		10	5	1	0.9251	0.9254	M	1671677
LIPID	BLANK	**1672278**	Y	-0.01000	04/12/2018 06:34:35		10	5	1	0.9269	0.9267	M	1671678
LIPID	PS	**40157492005**	Y	1.700	04/12/2018 06:34:35		9.9978	5	1	0.9234	0.9574	M	
LIPID	PS	**40157694001**	Y	0.8228	04/12/2018 06:34:35		10.0269	5	1	0.9256	0.9421	M	
LIPID	PS	**40157694002**	Y	2.709	04/12/2018 06:34:35		9.9867	5	1	0.9242	0.9783	M	
LIPID	PS	**40157694003**	Y	2.462	04/12/2018 06:34:35		9.9709	5	1	0.9244	0.9735	M	
LIPID	PS	**40157694004**	Y	1.057	04/12/2018 06:34:35		9.9788	5	1	0.9242	0.9453	M	
LIPID	PS	**40157694005**	Y	1.770	04/12/2018 06:34:35		9.9731	5	1	0.9259	0.9612	M	
LIPID	PS	**40157694006**	Y	2.018	04/12/2018 06:34:35		10.0343	5	1	0.9289	0.9694	M	
LIPID	PS	**40157694007**	Y	1.340	04/12/2018 06:34:35		9.9641	5	1	0.9264	0.9531	M	
LIPID	PS	**40157694008**	Y	0.9791	04/12/2018 06:34:35		10.0096	5	1	0.9267	0.9463	M	
LIPID	PS	**40157694009**	Y	1.192	04/12/2018 06:34:35		10.027	5	1	0.9266	0.9505	M	
LIPID	PS	**40157694010**	Y	0.5416	04/12/2018 06:34:35		9.9701	5	1	0.9283	0.9391	M	
LIPID	PS	**40157694011**	Y	0.2696	04/12/2018 06:34:35		10.0162	5	1	0.9298	0.9352	M	
LIPID	PS	**40157694012**	Y	1.813	04/12/2018 06:34:35		9.9808	5	1	0.9252	0.9614	M	
LIPID	RQS	**40157694013**	Y	1.302	04/12/2018 06:34:35		10.0197	5	1	0.9295	0.9556	M	
LIPID	DUP	**1672280**	Y	1.146	04/12/2018 06:34:35		9.9893	5	1	0.9292	0.9521	M	1671680
LIPID	PS	**40157694014**	Y	1.116	04/12/2018 06:34:35		9.9893	5	1	0.9263	0.9486	M	
LIPID	PS	**40157694015**	Y	0.6522	04/12/2018 06:34:35		9.9659	5	1	0.9237	0.9367	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	MS	**1682843**	Y	1.151	04/12/2018 06:34:35		9.9922	5	1	.9253	0.9483	M	1671679

40157694

Client Name: GE
Project #: 40157694
Sample Type: Fish
Date/Time Removed to Thaw: 04-02-18
Date/Time Prepped: 04-03-18
Prepped by: CWN / JL / RM
Location Thawed: 40FRG2TY 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	A	F	Y	144.2	Y	U	53.5	Left / Both	Y	9AG	1	Y	52.4	C	
2	A	F	Y	125.9	Y	U	52.1	Left / Both	Y	9AG	1	Y	51.9	C	
3	A	F	Y	86.2	Y	U	35.7	Left / Both	Y	9AG	1	Y	35.5	C	
4	A	F	Y	236.7	Y	M	57.6	Left / Both	Y	9AG	1	Y	56.3	C	
5	A	F	Y	75.3	Y	U	38.5	Left / Both	Y	9AG	1	Y	37.4	C	
6	A	F	Y	91.8	Y	U	36.9	Left / Both	Y	9AG	1	Y	36.6	C	
7	A	F	Y	274.3	Y	M	68.8	Left / Both	Y	9AG	1	Y	65.3	C	
8	A	F	Y	482.8	Y	M	104.9	Left / Both	Y	9AG	1	Y	104.2	C	
9	A	F	Y	156.8	Y	M	68.6	Left / Both	Y	9AG	1	Y	67.7	C	
10	A	F	Y	100.1	Y	U	45.6	Left / Both	Y	9AG	1	Y	45.5	C	
11	A	F	Y	124.3	Y	M	40.3	Left / Both	Y	9AG	1	Y	39.9	C	
12	A	F	Y	70.8	Y	U	33.1	Left / Both	Y	9AG	1	Y	32.9	C	
13	A	F	Y	239.0	Y	M	56.1	Left / Both	Y	9AG	1	Y	53.5	C	
14	A	F	Y	65.9	Y	U	30.2	Left / Both	Y	9AG	1	Y	28.8	C	
15	A	F	Y	53.5	Y	U	24.1	Left / Both	Y	9AG	1	Y	22.5	C	
								Left / Both							
								Left / Both							
						CWN	04-03-18	Left / Both							
								Left / Both							
								Left / Both							

545 01 545

(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-7-235-05AB
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