Analytical Data Package

Prepared by:

Pace Analytical Services

Pace Project No.: 40157937

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

May 07, 2018

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

RE: Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157937

Dear Jim Ryan:
Enclosed are the analytical results for sample(s) received by the laboratory on October 04, 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.: 40157937

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.: 40157937

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40157937001	**TD5-170828-01-PKSD-10**	Tissue	08/28/17 14:29	10/04/17 14:05
40157937002	**TD5-170828-01-PKSD-09**	Tissue	08/28/17 14:28	10/04/17 14:05
40157937003	**TD5-170828-01-PKSD-08**	Tissue	08/28/17 14:25	10/04/17 14:05
40157937004	**TD5-170828-01-PKSD-07**	Tissue	08/28/17 14:24	10/04/17 14:05
40157937005	**TD5-170828-01-PKSD-06**	Tissue	08/28/17 14:21	10/04/17 14:05
40157937006	**TD5-170828-01-PKSD-05**	Tissue	08/28/17 14:19	10/04/17 14:05
40157937007	**TD5-170828-01-PKSD-04**	Tissue	08/28/17 14:16	10/04/17 14:05
40157937008	**TD5-170828-01-PKSD-03**	Tissue	08/28/17 14:14	10/04/17 14:05
40157937009	**TD5-170828-01-PKSD-01**	Tissue	08/28/17 14:05	10/04/17 14:05
40157937010	**TD4-170828-01-PKSD-05**	Tissue	08/28/17 14:48	10/04/17 14:05
40157937011	**TD4-170828-01-PKSD-04**	Tissue	08/28/17 14:47	10/04/17 14:05
40157937012	**TD4-170828-01-PKSD-03**	Tissue	08/28/17 14:44	10/04/17 14:05
40157937013	**TD4-170828-01-PKSD-02**	Tissue	08/28/17 14:42	10/04/17 14:05
40157937014	**TD4-170828-01-PKSD-01**	Tissue	08/28/17 14:40	10/04/17 14:05
40157937015	**TD3-170828-01-PKSD-01**	Tissue	08/28/17 15:02	10/04/17 14:05
40157937016	**TD2-170828-01-PKSD-05**	Tissue	08/28/17 12:25	10/04/17 14:05
40157937017	**TD2-170828-01-PKSD-04**	Tissue	08/28/17 12:23	10/04/17 14:05
40157937018	**TD2-170828-01-PKSD-03**	Tissue	08/28/17 12:21	10/04/17 14:05
40157937019	**TD1-170828-01-PKSD-01**	Tissue	08/28/17 11:44	10/04/17 14:05
40157937020	**TD1-170828-01-GOSH-01**	Tissue	08/28/17 12:03	10/04/17 14:05

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SAMPLE ANALYTE COUNT

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157937

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40157937001	TD5-170828-01-PKSD-10	EPA 8082A Mod	BLM	10
		Pace Lipid	AMC	1
40157937002	TD5-170828-01-PKSD-09	EPA 8082A Mod	BLM	10
		Pace Lipid	AMC	1
40157937003	TD5-170828-01-PKSD-08	EPA 8082A Mod	BLM	10
		Pace Lipid	AMC	1
40157937004	TD5-170828-01-PKSD-07	EPA 8082A Mod	BLM	10
		Pace Lipid	AMC	1
40157937005	TD5-170828-01-PKSD-06	EPA 8082A Mod	BLM	10
		Pace Lipid	AMC	1
40157937006	TD5-170828-01-PKSD-05	EPA 8082A Mod	BLM	10
		Pace Lipid	AMC	1
40157937007	TD5-170828-01-PKSD-04	EPA 8082A Mod	BLM	10
		Pace Lipid	AMC	1
40157937008	TD5-170828-01-PKSD-03	EPA 8082A Mod	BLM	10
		Pace Lipid	AMC	1
40157937009	TD5-170828-01-PKSD-01	EPA 8082A Mod	BLM	10
		Pace Lipid	AMC	1
40157937010	TD4-170828-01-PKSD-05	EPA 8082A Mod	BLM	10
		Pace Lipid	AMC	1
40157937011	TD4-170828-01-PKSD-04	EPA 8082A Mod	BLM	10
		Pace Lipid	AMC	1
40157937012	TD4-170828-01-PKSD-03	EPA 8082A Mod	BLM	10
		Pace Lipid	AMC	1
40157937013	TD4-170828-01-PKSD-02	EPA 8082A Mod	BLM	10
		Pace Lipid	AMC	1
40157937014	TD4-170828-01-PKSD-01	EPA 8082A Mod	BLM	10
		Pace Lipid	AMC	1
40157937015	TD3-170828-01-PKSD-01	EPA 8082A Mod	BLM	10
		Pace Lipid	AMC	1
40157937016	TD2-170828-01-PKSD-05	EPA 8082A Mod	BLM	10
		Pace Lipid	AMC	1
40157937017	TD2-170828-01-PKSD-04	EPA 8082A Mod	BLM	10
		Pace Lipid	AMC	1
40157937018	TD2-170828-01-PKSD-03	EPA 8082A Mod	BLM	10
		Pace Lipid	AMC	1
40157937019	TD1-170828-01-PKSD-01	EPA 8082A Mod	BLM	10

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SAMPLE ANALYTE COUNT

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157937

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		Pace Lipid	AMC	1
40157937020	**TD1-170828-01-GOSH-01**	EPA 8082A Mod	BLM	10
		Pace Lipid	AMC	1

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PROJECT NARRATIVE

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157937

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

General Information:
20 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.

QC Batch: 286580

S0: Surrogate recovery outside laboratory control limits.
- BLANK (Lab ID: 1676397)
  - Tetrachloro-m-xylene (S)

S4: Surrogate recovery not evaluated against control limits due to sample dilution.
- TD1-170828-01-PKSD-01 (Lab ID: 40157937019)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)

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: 286580

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40157937020

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
- MS (Lab ID: 1676399)
  - PCB-1242 (Aroclor 1242)

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PROJECT NARRATIVE

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157937

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

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

Additional Comments:

Analyte Comments:

QC Batch: 286580

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

- MS (Lab ID: 1676399)
  - PCB-1016 (Aroclor 1016)
- TD4-170828-01-PKSD-02 (Lab ID: 40157937013)
  - PCB-1016 (Aroclor 1016)
- TD5-170828-01-PKSD-01 (Lab ID: 40157937009)
  - PCB-1016 (Aroclor 1016)
- TD5-170828-01-PKSD-08 (Lab ID: 40157937003)
  - PCB-1016 (Aroclor 1016)

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PROJECT NARRATIVE

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157937

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

General Information:
20 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.: 40157937

Sample: TD5-170828-01-PKSD-10 **Lab ID: 40157937001** Collected: 08/28/17 14:29 Received: 10/04/17 14:05 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)	**<45.3**	ug/kg	199	45.3	3	04/20/18 07:02	04/23/18 14:47	12674-11-2	
PCB-1221 (Aroclor 1221)	**143J**	ug/kg	199	45.3	3	04/20/18 07:02	04/23/18 14:47	11104-28-2	
PCB-1232 (Aroclor 1232)	**<45.3**	ug/kg	199	45.3	3	04/20/18 07:02	04/23/18 14:47	11141-16-5	
PCB-1242 (Aroclor 1242)	**<45.3**	ug/kg	199	45.3	3	04/20/18 07:02	04/23/18 14:47	53469-21-9	
PCB-1248 (Aroclor 1248)	**1530**	ug/kg	199	45.3	3	04/20/18 07:02	04/23/18 14:47	12672-29-6	
PCB-1254 (Aroclor 1254)	**858**	ug/kg	199	45.3	3	04/20/18 07:02	04/23/18 14:47	11097-69-1	
PCB-1260 (Aroclor 1260)	**117J**	ug/kg	199	45.3	3	04/20/18 07:02	04/23/18 14:47	11096-82-5	
PCB, Total	**2650**	ug/kg	199	45.3	3	04/20/18 07:02	04/23/18 14:47	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	98	%	60-140		3	04/20/18 07:02	04/23/18 14:47	877-09-8	
Decachlorobiphenyl (S)	102	%	60-140		3	04/20/18 07:02	04/23/18 14:47	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**3.6**	%	0.030	0.030	1		04/23/18 06:26		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157937

Sample: TD5-170828-01-PKSD-09 **Lab ID: 40157937002** Collected: 08/28/17 14:28 Received: 10/04/17 14:05 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)	**<49.7**	ug/kg	218	49.7	3	04/20/18 07:02	04/23/18 15:03	12674-11-2	
PCB-1221 (Aroclor 1221)	**137J**	ug/kg	218	49.7	3	04/20/18 07:02	04/23/18 15:03	11104-28-2	
PCB-1232 (Aroclor 1232)	**<49.7**	ug/kg	218	49.7	3	04/20/18 07:02	04/23/18 15:03	11141-16-5	
PCB-1242 (Aroclor 1242)	**<49.7**	ug/kg	218	49.7	3	04/20/18 07:02	04/23/18 15:03	53469-21-9	
PCB-1248 (Aroclor 1248)	**966**	ug/kg	218	49.7	3	04/20/18 07:02	04/23/18 15:03	12672-29-6	
PCB-1254 (Aroclor 1254)	**488**	ug/kg	218	49.7	3	04/20/18 07:02	04/23/18 15:03	11097-69-1	
PCB-1260 (Aroclor 1260)	**89.6J**	ug/kg	218	49.7	3	04/20/18 07:02	04/23/18 15:03	11096-82-5	
PCB, Total	**1680**	ug/kg	218	49.7	3	04/20/18 07:02	04/23/18 15:03	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	96	%	60-140		3	04/20/18 07:02	04/23/18 15:03	877-09-8	
Decachlorobiphenyl (S)	101	%	60-140		3	04/20/18 07:02	04/23/18 15:03	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**3.2**	%	0.030	0.030	1		04/23/18 06:26		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157937

Sample: TD5-170828-01-PKSD-08 **Lab ID: 40157937003** Collected: 08/28/17 14:25 Received: 10/04/17 14:05 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)	**<54.9**	ug/kg	241	54.9	4	04/20/18 07:02	04/24/18 13:42	12674-11-2	1q
PCB-1221 (Aroclor 1221)	**162J**	ug/kg	241	54.9	4	04/20/18 07:02	04/24/18 13:42	11104-28-2	
PCB-1232 (Aroclor 1232)	**<54.9**	ug/kg	241	54.9	4	04/20/18 07:02	04/24/18 13:42	11141-16-5	
PCB-1242 (Aroclor 1242)	**<54.9**	ug/kg	241	54.9	4	04/20/18 07:02	04/24/18 13:42	53469-21-9	
PCB-1248 (Aroclor 1248)	**1480**	ug/kg	241	54.9	4	04/20/18 07:02	04/24/18 13:42	12672-29-6	
PCB-1254 (Aroclor 1254)	**701**	ug/kg	241	54.9	4	04/20/18 07:02	04/24/18 13:42	11097-69-1	
PCB-1260 (Aroclor 1260)	**117J**	ug/kg	241	54.9	4	04/20/18 07:02	04/24/18 13:42	11096-82-5	
PCB, Total	**2460**	ug/kg	241	54.9	4	04/20/18 07:02	04/24/18 13:42	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	88	%	60-140		4	04/20/18 07:02	04/24/18 13:42	877-09-8	
Decachlorobiphenyl (S)	105	%	60-140		4	04/20/18 07:02	04/24/18 13:42	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**3.1**	%	0.030	0.030	1		04/23/18 06:26		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157937

Sample: TD5-170828-01-PKSD-07 **Lab ID: 40157937004** Collected: 08/28/17 14:24 Received: 10/04/17 14:05 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)	**<45.6**	ug/kg	200	45.6	4	04/20/18 07:02	04/23/18 15:34	12674-11-2	
PCB-1221 (Aroclor 1221)	**<45.6**	ug/kg	200	45.6	4	04/20/18 07:02	04/23/18 15:34	11104-28-2	
PCB-1232 (Aroclor 1232)	**<45.6**	ug/kg	200	45.6	4	04/20/18 07:02	04/23/18 15:34	11141-16-5	
PCB-1242 (Aroclor 1242)	**<45.6**	ug/kg	200	45.6	4	04/20/18 07:02	04/23/18 15:34	53469-21-9	
PCB-1248 (Aroclor 1248)	**850**	ug/kg	200	45.6	4	04/20/18 07:02	04/23/18 15:34	12672-29-6	
PCB-1254 (Aroclor 1254)	**447**	ug/kg	200	45.6	4	04/20/18 07:02	04/23/18 15:34	11097-69-1	
PCB-1260 (Aroclor 1260)	**77.4J**	ug/kg	200	45.6	4	04/20/18 07:02	04/23/18 15:34	11096-82-5	
PCB, Total	**1370**	ug/kg	200	45.6	4	04/20/18 07:02	04/23/18 15:34	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	73	%	60-140		4	04/20/18 07:02	04/23/18 15:34	877-09-8	
Decachlorobiphenyl (S)	81	%	60-140		4	04/20/18 07:02	04/23/18 15:34	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.2**	%	0.030	0.030	1		04/23/18 06:26		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157937

Sample: TD5-170828-01-PKSD-06 **Lab ID: 40157937005** Collected: 08/28/17 14:21 Received: 10/04/17 14:05 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)	**<45.5**	ug/kg	200	45.5	4	04/20/18 07:02	04/23/18 15:50	12674-11-2	
PCB-1221 (Aroclor 1221)	**<45.5**	ug/kg	200	45.5	4	04/20/18 07:02	04/23/18 15:50	11104-28-2	
PCB-1232 (Aroclor 1232)	**<45.5**	ug/kg	200	45.5	4	04/20/18 07:02	04/23/18 15:50	11141-16-5	
PCB-1242 (Aroclor 1242)	**<45.5**	ug/kg	200	45.5	4	04/20/18 07:02	04/23/18 15:50	53469-21-9	
PCB-1248 (Aroclor 1248)	**1200**	ug/kg	200	45.5	4	04/20/18 07:02	04/23/18 15:50	12672-29-6	
PCB-1254 (Aroclor 1254)	**624**	ug/kg	200	45.5	4	04/20/18 07:02	04/23/18 15:50	11097-69-1	
PCB-1260 (Aroclor 1260)	**94.7J**	ug/kg	200	45.5	4	04/20/18 07:02	04/23/18 15:50	11096-82-5	
PCB, Total	**1920**	ug/kg	200	45.5	4	04/20/18 07:02	04/23/18 15:50	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	93	%	60-140		4	04/20/18 07:02	04/23/18 15:50	877-09-8	
Decachlorobiphenyl (S)	100	%	60-140		4	04/20/18 07:02	04/23/18 15:50	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.2**	%	0.030	0.030	1		04/23/18 06:26		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157937

Sample: TD5-170828-01-PKSD-05 **Lab ID: 40157937006** Collected: 08/28/17 14:19 Received: 10/04/17 14:05 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)	**<45.6**	ug/kg	200	45.6	4	04/20/18 07:02	04/23/18 16:06	12674-11-2	
PCB-1221 (Aroclor 1221)	**<45.6**	ug/kg	200	45.6	4	04/20/18 07:02	04/23/18 16:06	11104-28-2	
PCB-1232 (Aroclor 1232)	**<45.6**	ug/kg	200	45.6	4	04/20/18 07:02	04/23/18 16:06	11141-16-5	
PCB-1242 (Aroclor 1242)	**<45.6**	ug/kg	200	45.6	4	04/20/18 07:02	04/23/18 16:06	53469-21-9	
PCB-1248 (Aroclor 1248)	**1070**	ug/kg	200	45.6	4	04/20/18 07:02	04/23/18 16:06	12672-29-6	
PCB-1254 (Aroclor 1254)	**604**	ug/kg	200	45.6	4	04/20/18 07:02	04/23/18 16:06	11097-69-1	
PCB-1260 (Aroclor 1260)	**87.7J**	ug/kg	200	45.6	4	04/20/18 07:02	04/23/18 16:06	11096-82-5	
PCB, Total	**1760**	ug/kg	200	45.6	4	04/20/18 07:02	04/23/18 16:06	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	93	%	60-140		4	04/20/18 07:02	04/23/18 16:06	877-09-8	
Decachlorobiphenyl (S)	103	%	60-140		4	04/20/18 07:02	04/23/18 16:06	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.8**	%	0.030	0.030	1		04/23/18 06:26		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157937

Sample: TD5-170828-01-PKSD-04 **Lab ID: 40157937007** Collected: 08/28/17 14:16 Received: 10/04/17 14:05 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	04/20/18 07:02	04/23/18 16:22	12674-11-2	
PCB-1221 (Aroclor 1221)	**92.7J**	ug/kg	150	34.2	3	04/20/18 07:02	04/23/18 16:22	11104-28-2	
PCB-1232 (Aroclor 1232)	**<34.2**	ug/kg	150	34.2	3	04/20/18 07:02	04/23/18 16:22	11141-16-5	
PCB-1242 (Aroclor 1242)	**<34.2**	ug/kg	150	34.2	3	04/20/18 07:02	04/23/18 16:22	53469-21-9	
PCB-1248 (Aroclor 1248)	**988**	ug/kg	150	34.2	3	04/20/18 07:02	04/23/18 16:22	12672-29-6	
PCB-1254 (Aroclor 1254)	**564**	ug/kg	150	34.2	3	04/20/18 07:02	04/23/18 16:22	11097-69-1	
PCB-1260 (Aroclor 1260)	**88.9J**	ug/kg	150	34.2	3	04/20/18 07:02	04/23/18 16:22	11096-82-5	
PCB, Total	**1730**	ug/kg	150	34.2	3	04/20/18 07:02	04/23/18 16:22	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	95	%	60-140		3	04/20/18 07:02	04/23/18 16:22	877-09-8	
Decachlorobiphenyl (S)	99	%	60-140		3	04/20/18 07:02	04/23/18 16:22	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.5**	%	0.030	0.030	1		04/23/18 06:26		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157937

Sample: TD5-170828-01-PKSD-03 **Lab ID: 40157937008** Collected: 08/28/17 14:14 Received: 10/04/17 14:05 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod			Preparation Method: EPA 3541					
PCB-1016 (Aroclor 1016)	**<56.8**	ug/kg	249	56.8	5	04/20/18 07:02	04/23/18 16:38	12674-11-2	
PCB-1221 (Aroclor 1221)	**170J**	ug/kg	249	56.8	5	04/20/18 07:02	04/23/18 16:38	11104-28-2	
PCB-1232 (Aroclor 1232)	**<56.8**	ug/kg	249	56.8	5	04/20/18 07:02	04/23/18 16:38	11141-16-5	
PCB-1242 (Aroclor 1242)	**<56.8**	ug/kg	249	56.8	5	04/20/18 07:02	04/23/18 16:38	53469-21-9	
PCB-1248 (Aroclor 1248)	**1170**	ug/kg	249	56.8	5	04/20/18 07:02	04/23/18 16:38	12672-29-6	
PCB-1254 (Aroclor 1254)	**685**	ug/kg	249	56.8	5	04/20/18 07:02	04/23/18 16:38	11097-69-1	
PCB-1260 (Aroclor 1260)	**121J**	ug/kg	249	56.8	5	04/20/18 07:02	04/23/18 16:38	11096-82-5	
PCB, Total	**2140**	ug/kg	249	56.8	5	04/20/18 07:02	04/23/18 16:38	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	93	%	60-140		5	04/20/18 07:02	04/23/18 16:38	877-09-8	
Decachlorobiphenyl (S)	103	%	60-140		5	04/20/18 07:02	04/23/18 16:38	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.8**	%	0.030	0.030	1		04/23/18 06:26		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157937

Sample: TD5-170828-01-PKSD-01 **Lab ID: 40157937009** Collected: 08/28/17 14:05 Received: 10/04/17 14:05 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	04/20/18 07:02	04/24/18 13:58	12674-11-2	1q
PCB-1221 (Aroclor 1221)	**<45.7**	ug/kg	200	45.7	4	04/20/18 07:02	04/24/18 13:58	11104-28-2	
PCB-1232 (Aroclor 1232)	**<45.7**	ug/kg	200	45.7	4	04/20/18 07:02	04/24/18 13:58	11141-16-5	
PCB-1242 (Aroclor 1242)	**<45.7**	ug/kg	200	45.7	4	04/20/18 07:02	04/24/18 13:58	53469-21-9	
PCB-1248 (Aroclor 1248)	**1270**	ug/kg	200	45.7	4	04/20/18 07:02	04/24/18 13:58	12672-29-6	
PCB-1254 (Aroclor 1254)	**692**	ug/kg	200	45.7	4	04/20/18 07:02	04/24/18 13:58	11097-69-1	
PCB-1260 (Aroclor 1260)	**91.2J**	ug/kg	200	45.7	4	04/20/18 07:02	04/24/18 13:58	11096-82-5	
PCB, Total	**2060**	ug/kg	200	45.7	4	04/20/18 07:02	04/24/18 13:58	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	90	%	60-140		4	04/20/18 07:02	04/24/18 13:58	877-09-8	
Decachlorobiphenyl (S)	105	%	60-140		4	04/20/18 07:02	04/24/18 13:58	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.5**	%	0.030	0.030	1		04/23/18 06:26		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157937

Sample: TD4-170828-01-PKSD-05 **Lab ID: 40157937010** Collected: 08/28/17 14:48 Received: 10/04/17 14:05 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod		Preparation Method: EPA 3541						
PCB-1016 (Aroclor 1016)	**<56.9**	ug/kg	249	56.9	5	04/20/18 07:02	04/23/18 17:41	12674-11-2	
PCB-1221 (Aroclor 1221)	**<56.9**	ug/kg	249	56.9	5	04/20/18 07:02	04/23/18 17:41	11104-28-2	
PCB-1232 (Aroclor 1232)	**<56.9**	ug/kg	249	56.9	5	04/20/18 07:02	04/23/18 17:41	11141-16-5	
PCB-1242 (Aroclor 1242)	**<56.9**	ug/kg	249	56.9	5	04/20/18 07:02	04/23/18 17:41	53469-21-9	
PCB-1248 (Aroclor 1248)	**1080**	ug/kg	249	56.9	5	04/20/18 07:02	04/23/18 17:41	12672-29-6	
PCB-1254 (Aroclor 1254)	**703**	ug/kg	249	56.9	5	04/20/18 07:02	04/23/18 17:41	11097-69-1	
PCB-1260 (Aroclor 1260)	**90.3J**	ug/kg	249	56.9	5	04/20/18 07:02	04/23/18 17:41	11096-82-5	
PCB, Total	**1870**	ug/kg	249	56.9	5	04/20/18 07:02	04/23/18 17:41	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	89	%	60-140		5	04/20/18 07:02	04/23/18 17:41	877-09-8	
Decachlorobiphenyl (S)	104	%	60-140		5	04/20/18 07:02	04/23/18 17:41	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.6**	%	0.030	0.030	1		04/23/18 06:26		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157937

Sample: TD4-170828-01-PKSD-04 **Lab ID: 40157937011** Collected: 08/28/17 14:47 Received: 10/04/17 14:05 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	04/20/18 07:02	04/23/18 17:57	12674-11-2	
PCB-1221 (Aroclor 1221)	**<22.8**	ug/kg	100	22.8	2	04/20/18 07:02	04/23/18 17:57	11104-28-2	
PCB-1232 (Aroclor 1232)	**<22.8**	ug/kg	100	22.8	2	04/20/18 07:02	04/23/18 17:57	11141-16-5	
PCB-1242 (Aroclor 1242)	**<22.8**	ug/kg	100	22.8	2	04/20/18 07:02	04/23/18 17:57	53469-21-9	
PCB-1248 (Aroclor 1248)	**656**	ug/kg	100	22.8	2	04/20/18 07:02	04/23/18 17:57	12672-29-6	
PCB-1254 (Aroclor 1254)	**397**	ug/kg	100	22.8	2	04/20/18 07:02	04/23/18 17:57	11097-69-1	
PCB-1260 (Aroclor 1260)	**46.9J**	ug/kg	100	22.8	2	04/20/18 07:02	04/23/18 17:57	11096-82-5	
PCB, Total	**1100**	ug/kg	100	22.8	2	04/20/18 07:02	04/23/18 17:57	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	86	%	60-140		2	04/20/18 07:02	04/23/18 17:57	877-09-8	
Decachlorobiphenyl (S)	92	%	60-140		2	04/20/18 07:02	04/23/18 17:57	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.8**	%	0.030	0.030	1		04/23/18 06:26		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157937

Sample: TD4-170828-01-PKSD-03 **Lab ID: 40157937012** Collected: 08/28/17 14:44 Received: 10/04/17 14:05 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	04/20/18 07:02	04/23/18 18:13	12674-11-2	
PCB-1221 (Aroclor 1221)	**<22.8**	ug/kg	99.9	22.8	2	04/20/18 07:02	04/23/18 18:13	11104-28-2	
PCB-1232 (Aroclor 1232)	**<22.8**	ug/kg	99.9	22.8	2	04/20/18 07:02	04/23/18 18:13	11141-16-5	
PCB-1242 (Aroclor 1242)	**<22.8**	ug/kg	99.9	22.8	2	04/20/18 07:02	04/23/18 18:13	53469-21-9	
PCB-1248 (Aroclor 1248)	**334**	ug/kg	99.9	22.8	2	04/20/18 07:02	04/23/18 18:13	12672-29-6	
PCB-1254 (Aroclor 1254)	**154**	ug/kg	99.9	22.8	2	04/20/18 07:02	04/23/18 18:13	11097-69-1	
PCB-1260 (Aroclor 1260)	**29.6J**	ug/kg	99.9	22.8	2	04/20/18 07:02	04/23/18 18:13	11096-82-5	
PCB, Total	**517**	ug/kg	99.9	22.8	2	04/20/18 07:02	04/23/18 18:13	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	98	%	60-140		2	04/20/18 07:02	04/23/18 18:13	877-09-8	
Decachlorobiphenyl (S)	99	%	60-140		2	04/20/18 07:02	04/23/18 18:13	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**3.0**	%	0.030	0.030	1		04/23/18 06:26		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157937

Sample: TD4-170828-01-PKSD-02 **Lab ID: 40157937013** Collected: 08/28/17 14:42 Received: 10/04/17 14:05 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)	**<28.8**	ug/kg	126	28.8	2	04/20/18 07:02	04/24/18 14:13	12674-11-2	1q
PCB-1221 (Aroclor 1221)	**123J**	ug/kg	126	28.8	2	04/20/18 07:02	04/24/18 14:13	11104-28-2	
PCB-1232 (Aroclor 1232)	**<28.8**	ug/kg	126	28.8	2	04/20/18 07:02	04/24/18 14:13	11141-16-5	
PCB-1242 (Aroclor 1242)	**<28.8**	ug/kg	126	28.8	2	04/20/18 07:02	04/24/18 14:13	53469-21-9	
PCB-1248 (Aroclor 1248)	**612**	ug/kg	126	28.8	2	04/20/18 07:02	04/24/18 14:13	12672-29-6	
PCB-1254 (Aroclor 1254)	**244**	ug/kg	126	28.8	2	04/20/18 07:02	04/24/18 14:13	11097-69-1	
PCB-1260 (Aroclor 1260)	**37.7J**	ug/kg	126	28.8	2	04/20/18 07:02	04/24/18 14:13	11096-82-5	
PCB, Total	**1020**	ug/kg	126	28.8	2	04/20/18 07:02	04/24/18 14:13	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	99	%	60-140		2	04/20/18 07:02	04/24/18 14:13	877-09-8	
Decachlorobiphenyl (S)	102	%	60-140		2	04/20/18 07:02	04/24/18 14:13	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.7**	%	0.030	0.030	1		04/23/18 06:26		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157937

Sample: TD4-170828-01-PKSD-01 **Lab ID: 40157937014** Collected: 08/28/17 14:40 Received: 10/04/17 14:05 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	04/20/18 07:02	04/23/18 18:44	12674-11-2	
PCB-1221 (Aroclor 1221)	**176**	ug/kg	150	34.3	3	04/20/18 07:02	04/23/18 18:44	11104-28-2	
PCB-1232 (Aroclor 1232)	**<34.3**	ug/kg	150	34.3	3	04/20/18 07:02	04/23/18 18:44	11141-16-5	
PCB-1242 (Aroclor 1242)	**<34.3**	ug/kg	150	34.3	3	04/20/18 07:02	04/23/18 18:44	53469-21-9	
PCB-1248 (Aroclor 1248)	**801**	ug/kg	150	34.3	3	04/20/18 07:02	04/23/18 18:44	12672-29-6	
PCB-1254 (Aroclor 1254)	**403**	ug/kg	150	34.3	3	04/20/18 07:02	04/23/18 18:44	11097-69-1	
PCB-1260 (Aroclor 1260)	**55.5J**	ug/kg	150	34.3	3	04/20/18 07:02	04/23/18 18:44	11096-82-5	
PCB, Total	**1440**	ug/kg	150	34.3	3	04/20/18 07:02	04/23/18 18:44	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	102	%	60-140		3	04/20/18 07:02	04/23/18 18:44	877-09-8	
Decachlorobiphenyl (S)	109	%	60-140		3	04/20/18 07:02	04/23/18 18:44	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**3.2**	%	0.030	0.030	1		04/23/18 06:26		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157937

Sample: TD3-170828-01-PKSD-01 **Lab ID: 40157937015** Collected: 08/28/17 15:02 Received: 10/04/17 14:05 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)	**<241**	ug/kg	1060	241	10	04/20/18 07:02	04/23/18 19:00	12674-11-2	
PCB-1221 (Aroclor 1221)	**<241**	ug/kg	1060	241	10	04/20/18 07:02	04/23/18 19:00	11104-28-2	
PCB-1232 (Aroclor 1232)	**<241**	ug/kg	1060	241	10	04/20/18 07:02	04/23/18 19:00	11141-16-5	
PCB-1242 (Aroclor 1242)	**<241**	ug/kg	1060	241	10	04/20/18 07:02	04/23/18 19:00	53469-21-9	
PCB-1248 (Aroclor 1248)	**6020**	ug/kg	1060	241	10	04/20/18 07:02	04/23/18 19:00	12672-29-6	
PCB-1254 (Aroclor 1254)	**3590**	ug/kg	1060	241	10	04/20/18 07:02	04/23/18 19:00	11097-69-1	
PCB-1260 (Aroclor 1260)	**405J**	ug/kg	1060	241	10	04/20/18 07:02	04/23/18 19:00	11096-82-5	
PCB, Total	**10000**	ug/kg	1060	241	10	04/20/18 07:02	04/23/18 19:00	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	86	%	60-140		10	04/20/18 07:02	04/23/18 19:00	877-09-8	
Decachlorobiphenyl (S)	104	%	60-140		10	04/20/18 07:02	04/23/18 19:00	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.9**	%	0.030	0.030	1		04/23/18 06:26		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157937

Sample: TD2-170828-01-PKSD-05 **Lab ID: 40157937016** Collected: 08/28/17 12:25 Received: 10/04/17 14:05 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)	**<60.6**	ug/kg	266	60.6	5	04/20/18 07:02	04/23/18 19:16	12674-11-2	
PCB-1221 (Aroclor 1221)	**<60.6**	ug/kg	266	60.6	5	04/20/18 07:02	04/23/18 19:16	11104-28-2	
PCB-1232 (Aroclor 1232)	**<60.6**	ug/kg	266	60.6	5	04/20/18 07:02	04/23/18 19:16	11141-16-5	
PCB-1242 (Aroclor 1242)	**<60.6**	ug/kg	266	60.6	5	04/20/18 07:02	04/23/18 19:16	53469-21-9	
PCB-1248 (Aroclor 1248)	**1300**	ug/kg	266	60.6	5	04/20/18 07:02	04/23/18 19:16	12672-29-6	
PCB-1254 (Aroclor 1254)	**741**	ug/kg	266	60.6	5	04/20/18 07:02	04/23/18 19:16	11097-69-1	
PCB-1260 (Aroclor 1260)	**117J**	ug/kg	266	60.6	5	04/20/18 07:02	04/23/18 19:16	11096-82-5	
PCB, Total	**2160**	ug/kg	266	60.6	5	04/20/18 07:02	04/23/18 19:16	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	91	%	60-140		5	04/20/18 07:02	04/23/18 19:16	877-09-8	
Decachlorobiphenyl (S)	103	%	60-140		5	04/20/18 07:02	04/23/18 19:16	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**3.6**	%	0.030	0.030	1		04/23/18 06:26		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157937

Sample: TD2-170828-01-PKSD-04 **Lab ID: 40157937017** Collected: 08/28/17 12:23 Received: 10/04/17 14:05 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)	**<14.7**	ug/kg	64.5	14.7	1	04/20/18 07:02	04/23/18 19:32	12674-11-2	
PCB-1221 (Aroclor 1221)	**65.0**	ug/kg	64.5	14.7	1	04/20/18 07:02	04/23/18 19:32	11104-28-2	
PCB-1232 (Aroclor 1232)	**<14.7**	ug/kg	64.5	14.7	1	04/20/18 07:02	04/23/18 19:32	11141-16-5	
PCB-1242 (Aroclor 1242)	**<14.7**	ug/kg	64.5	14.7	1	04/20/18 07:02	04/23/18 19:32	53469-21-9	
PCB-1248 (Aroclor 1248)	**470**	ug/kg	64.5	14.7	1	04/20/18 07:02	04/23/18 19:32	12672-29-6	
PCB-1254 (Aroclor 1254)	**292**	ug/kg	64.5	14.7	1	04/20/18 07:02	04/23/18 19:32	11097-69-1	
PCB-1260 (Aroclor 1260)	**43.2J**	ug/kg	64.5	14.7	1	04/20/18 07:02	04/23/18 19:32	11096-82-5	
PCB, Total	**870**	ug/kg	64.5	14.7	1	04/20/18 07:02	04/23/18 19:32	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	87	%	60-140		1	04/20/18 07:02	04/23/18 19:32	877-09-8	
Decachlorobiphenyl (S)	86	%	60-140		1	04/20/18 07:02	04/23/18 19:32	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.9**	%	0.030	0.030	1		04/23/18 06:26		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157937

Sample: TD2-170828-01-PKSD-03 **Lab ID: 40157937018** Collected: 08/28/17 12:21 Received: 10/04/17 14:05 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)	**<57.2**	ug/kg	251	57.2	5	04/20/18 07:02	04/23/18 19:48	12674-11-2	
PCB-1221 (Aroclor 1221)	**<57.2**	ug/kg	251	57.2	5	04/20/18 07:02	04/23/18 19:48	11104-28-2	
PCB-1232 (Aroclor 1232)	**<57.2**	ug/kg	251	57.2	5	04/20/18 07:02	04/23/18 19:48	11141-16-5	
PCB-1242 (Aroclor 1242)	**<57.2**	ug/kg	251	57.2	5	04/20/18 07:02	04/23/18 19:48	53469-21-9	
PCB-1248 (Aroclor 1248)	**1340**	ug/kg	251	57.2	5	04/20/18 07:02	04/23/18 19:48	12672-29-6	
PCB-1254 (Aroclor 1254)	**886**	ug/kg	251	57.2	5	04/20/18 07:02	04/23/18 19:48	11097-69-1	
PCB-1260 (Aroclor 1260)	**110J**	ug/kg	251	57.2	5	04/20/18 07:02	04/23/18 19:48	11096-82-5	
PCB, Total	**2340**	ug/kg	251	57.2	5	04/20/18 07:02	04/23/18 19:48	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	96	%	60-140		5	04/20/18 07:02	04/23/18 19:48	877-09-8	
Decachlorobiphenyl (S)	106	%	60-140		5	04/20/18 07:02	04/23/18 19:48	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**3.2**	%	0.030	0.030	1		04/23/18 06:26		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157937

Sample: TD1-170828-01-PKSD-01 **Lab ID: 40157937019** Collected: 08/28/17 11:44 Received: 10/04/17 14:05 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)	**<171**	ug/kg	752	171	15	04/20/18 07:02	04/23/18 20:36	12674-11-2	
PCB-1221 (Aroclor 1221)	**<171**	ug/kg	752	171	15	04/20/18 07:02	04/23/18 20:36	11104-28-2	
PCB-1232 (Aroclor 1232)	**<171**	ug/kg	752	171	15	04/20/18 07:02	04/23/18 20:36	11141-16-5	
PCB-1242 (Aroclor 1242)	**<171**	ug/kg	752	171	15	04/20/18 07:02	04/23/18 20:36	53469-21-9	
PCB-1248 (Aroclor 1248)	**3750**	ug/kg	752	171	15	04/20/18 07:02	04/23/18 20:36	12672-29-6	
PCB-1254 (Aroclor 1254)	**2460**	ug/kg	752	171	15	04/20/18 07:02	04/23/18 20:36	11097-69-1	
PCB-1260 (Aroclor 1260)	**276J**	ug/kg	752	171	15	04/20/18 07:02	04/23/18 20:36	11096-82-5	
PCB, Total	**6480**	ug/kg	752	171	15	04/20/18 07:02	04/23/18 20:36	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	0	%	60-140		15	04/20/18 07:02	04/23/18 20:36	877-09-8	S4
Decachlorobiphenyl (S)	0	%	60-140		15	04/20/18 07:02	04/23/18 20:36	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**3.2**	%	0.030	0.030	1		04/23/18 06:26		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157937

Sample: TD1-170828-01-GOSH-01 **Lab ID: 40157937020** Collected: 08/28/17 12:03 Received: 10/04/17 14:05 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	04/20/18 07:02	04/23/18 20:51	12674-11-2	
PCB-1221 (Aroclor 1221)	**120**	ug/kg	100	22.8	2	04/20/18 07:02	04/23/18 20:51	11104-28-2	
PCB-1232 (Aroclor 1232)	**<22.8**	ug/kg	100	22.8	2	04/20/18 07:02	04/23/18 20:51	11141-16-5	
PCB-1242 (Aroclor 1242)	**<22.8**	ug/kg	100	22.8	2	04/20/18 07:02	04/23/18 20:51	53469-21-9	M1
PCB-1248 (Aroclor 1248)	**605**	ug/kg	100	22.8	2	04/20/18 07:02	04/23/18 20:51	12672-29-6	
PCB-1254 (Aroclor 1254)	**351**	ug/kg	100	22.8	2	04/20/18 07:02	04/23/18 20:51	11097-69-1	
PCB-1260 (Aroclor 1260)	**75.4J**	ug/kg	100	22.8	2	04/20/18 07:02	04/23/18 20:51	11096-82-5	
PCB, Total	**1150**	ug/kg	100	22.8	2	04/20/18 07:02	04/23/18 20:51	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	95	%	60-140		2	04/20/18 07:02	04/23/18 20:51	877-09-8	
Decachlorobiphenyl (S)	98	%	60-140		2	04/20/18 07:02	04/23/18 20:51	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**4.0**	%	0.030	0.030	1		04/23/18 06:26		

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157937

QC Batch: 286580 | Analysis Method: EPA 8082A Mod
QC Batch Method: EPA 3541 | Analysis Description: 8082 GCS PCB

Associated Lab Samples: 40157937001, 40157937002, 40157937003, 40157937004, 40157937005, 40157937006, 40157937007, 40157937008, 40157937009, 40157937010, 40157937011, 40157937012, 40157937013, 40157937014, 40157937015, 40157937016, 40157937017, 40157937018, 40157937019, 40157937020

METHOD BLANK: 1676397 | Matrix: Tissue

Associated Lab Samples: 40157937001, 40157937002, 40157937003, 40157937004, 40157937005, 40157937006, 40157937007, 40157937008, 40157937009, 40157937010, 40157937011, 40157937012, 40157937013, 40157937014, 40157937015, 40157937016, 40157937017, 40157937018, 40157937019, 40157937020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<11.4	50.0	11.4	04/23/18 14:15	
PCB-1221 (Aroclor 1221)	ug/kg	<11.4	50.0	11.4	04/23/18 14:15	
PCB-1232 (Aroclor 1232)	ug/kg	<11.4	50.0	11.4	04/23/18 14:15	
PCB-1242 (Aroclor 1242)	ug/kg	<11.4	50.0	11.4	04/23/18 14:15	
PCB-1248 (Aroclor 1248)	ug/kg	<11.4	50.0	11.4	04/23/18 14:15	
PCB-1254 (Aroclor 1254)	ug/kg	<11.4	50.0	11.4	04/23/18 14:15	
PCB-1260 (Aroclor 1260)	ug/kg	<11.4	50.0	11.4	04/23/18 14:15	
Decachlorobiphenyl (S)	%	83	60-140		04/23/18 14:15	
Tetrachloro-m-xylene (S)	%	59	60-140		04/23/18 14:15	S0

LABORATORY CONTROL SAMPLE: 1676398

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	289	115	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)	%			89	60-140	
Tetrachloro-m-xylene (S)	%			77	60-140	

MATRIX SPIKE SAMPLE: 1676399

Parameter	Units	40157937020 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<22.8		<34.1			1q
PCB-1221 (Aroclor 1221)	ug/kg	120		233			
PCB-1232 (Aroclor 1232)	ug/kg	<22.8		<34.1			
PCB-1242 (Aroclor 1242)	ug/kg	<22.8	249	526	211	70-130	M1
PCB-1248 (Aroclor 1248)	ug/kg	605		850			
PCB-1254 (Aroclor 1254)	ug/kg	351		394			
PCB-1260 (Aroclor 1260)	ug/kg	75.4J		82.4J			
Decachlorobiphenyl (S)	%				107	60-140	
Tetrachloro-m-xylene (S)	%				101	60-140	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157937

SAMPLE DUPLICATE: 1676400

Parameter	Units	40157937020 Result	Dup Result	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<22.8	<22.8		40	
PCB-1221 (Aroclor 1221)	ug/kg	120	116	4	40	
PCB-1232 (Aroclor 1232)	ug/kg	<22.8	<22.8		40	
PCB-1242 (Aroclor 1242)	ug/kg	<22.8	<22.8		40	
PCB-1248 (Aroclor 1248)	ug/kg	605	607	0	40	
PCB-1254 (Aroclor 1254)	ug/kg	351	351	0	40	
PCB-1260 (Aroclor 1260)	ug/kg	75.4J	76.0J		40	
Decachlorobiphenyl (S)	%	98	102	4		
Tetrachloro-m-xylene (S)	%	95	96	1		

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157937

QC Batch: 286671 | Analysis Method: Pace Lipid
QC Batch Method: Pace Lipid | Analysis Description: LIPID
Associated Lab Samples: 40157937001, 40157937002, 40157937003, 40157937004, 40157937005, 40157937006, 40157937007, 40157937008, 40157937009, 40157937010, 40157937011, 40157937012, 40157937013, 40157937014, 40157937015, 40157937016, 40157937017, 40157937018, 40157937019, 40157937020

METHOD BLANK: 1677354 | Matrix: Tissue
Associated Lab Samples: 40157937001, 40157937002, 40157937003, 40157937004, 40157937005, 40157937006, 40157937007, 40157937008, 40157937009, 40157937010, 40157937011, 40157937012, 40157937013, 40157937014, 40157937015, 40157937016, 40157937017, 40157937018, 40157937019, 40157937020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lipid	%	<0.030	0.030	0.030	04/23/18 06:26	

MATRIX SPIKE SAMPLE: 1683155

Parameter	Units	40157937020 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lipid	%	4.0		4.1			

SAMPLE DUPLICATE: 1677357

Parameter	Units	40157937020 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	4.0	4.1	3	40	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157937

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.
S0	Surrogate recovery outside laboratory control limits.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157937

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40157937001	**TD5-170828-01-PKSD-10**	EPA 3541	286580	EPA 8082A Mod	286730
40157937002	**TD5-170828-01-PKSD-09**	EPA 3541	286580	EPA 8082A Mod	286730
40157937003	**TD5-170828-01-PKSD-08**	EPA 3541	286580	EPA 8082A Mod	286730
40157937004	**TD5-170828-01-PKSD-07**	EPA 3541	286580	EPA 8082A Mod	286730
40157937005	**TD5-170828-01-PKSD-06**	EPA 3541	286580	EPA 8082A Mod	286730
40157937006	**TD5-170828-01-PKSD-05**	EPA 3541	286580	EPA 8082A Mod	286730
40157937007	**TD5-170828-01-PKSD-04**	EPA 3541	286580	EPA 8082A Mod	286730
40157937008	**TD5-170828-01-PKSD-03**	EPA 3541	286580	EPA 8082A Mod	286730
40157937009	**TD5-170828-01-PKSD-01**	EPA 3541	286580	EPA 8082A Mod	286730
40157937010	**TD4-170828-01-PKSD-05**	EPA 3541	286580	EPA 8082A Mod	286730
40157937011	**TD4-170828-01-PKSD-04**	EPA 3541	286580	EPA 8082A Mod	286730
40157937012	**TD4-170828-01-PKSD-03**	EPA 3541	286580	EPA 8082A Mod	286730
40157937013	**TD4-170828-01-PKSD-02**	EPA 3541	286580	EPA 8082A Mod	286730
40157937014	**TD4-170828-01-PKSD-01**	EPA 3541	286580	EPA 8082A Mod	286730
40157937015	**TD3-170828-01-PKSD-01**	EPA 3541	286580	EPA 8082A Mod	286730
40157937016	**TD2-170828-01-PKSD-05**	EPA 3541	286580	EPA 8082A Mod	286730
40157937017	**TD2-170828-01-PKSD-04**	EPA 3541	286580	EPA 8082A Mod	286730
40157937018	**TD2-170828-01-PKSD-03**	EPA 3541	286580	EPA 8082A Mod	286730
40157937019	**TD1-170828-01-PKSD-01**	EPA 3541	286580	EPA 8082A Mod	286730
40157937020	**TD1-170828-01-GOSH-01**	EPA 3541	286580	EPA 8082A Mod	286730
40157937001	**TD5-170828-01-PKSD-10**	Pace Lipid	286671		
40157937002	**TD5-170828-01-PKSD-09**	Pace Lipid	286671		
40157937003	**TD5-170828-01-PKSD-08**	Pace Lipid	286671		
40157937004	**TD5-170828-01-PKSD-07**	Pace Lipid	286671		
40157937005	**TD5-170828-01-PKSD-06**	Pace Lipid	286671		
40157937006	**TD5-170828-01-PKSD-05**	Pace Lipid	286671		
40157937007	**TD5-170828-01-PKSD-04**	Pace Lipid	286671		
40157937008	**TD5-170828-01-PKSD-03**	Pace Lipid	286671		
40157937009	**TD5-170828-01-PKSD-01**	Pace Lipid	286671		
40157937010	**TD4-170828-01-PKSD-05**	Pace Lipid	286671		
40157937011	**TD4-170828-01-PKSD-04**	Pace Lipid	286671		
40157937012	**TD4-170828-01-PKSD-03**	Pace Lipid	286671		
40157937013	**TD4-170828-01-PKSD-02**	Pace Lipid	286671		
40157937014	**TD4-170828-01-PKSD-01**	Pace Lipid	286671		
40157937015	**TD3-170828-01-PKSD-01**	Pace Lipid	286671		
40157937016	**TD2-170828-01-PKSD-05**	Pace Lipid	286671		
40157937017	**TD2-170828-01-PKSD-04**	Pace Lipid	286671		
40157937018	**TD2-170828-01-PKSD-03**	Pace Lipid	286671		
40157937019	**TD1-170828-01-PKSD-01**	Pace Lipid	286671		
40157937020	**TD1-170828-01-GOSH-01**	Pace Lipid	286671		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

40157937

SSA

ANCHOR QEA

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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: COC170828-T11-01
Sample Custodian: SA
Lab: Pace - Green Bay

Client: General Electric Company

Project: Hudson River Remedial Action Monitoring Program

OK 10-4-17 10:54 KW

COC Sample Number	Sampling Event ID	Field Sample ID	Sample Date	Sample Time	MS/LD	# CONTAINERS	Media*	Prep**	Composite	EPA Split	Total PCBs NE013_09	Total PCBs SW846 8082A	Percent Lipid (S-GB-O-068)	Fillet Weight (S-GB-L-009)	
001	TD5-170828-01	TD5-170828-01-PKSD-10	8/28/2017	14:29	☐	1	F	WH	☐	☐	☐	☑	☑	☐	1-ziploc A
002	TD5-170828-01	TD5-170828-01-PKSD-09	8/28/2017	14:28	☐	1	F	WH	☐	☐	☐	☑	☑	☐	
003	TD5-170828-01	TD5-170828-01-PKSD-08	8/28/2017	14:25	☐	1	F	WH	☐	☐	☐	☑	☑	☐	
004	TD5-170828-01	TD5-170828-01-PKSD-07	8/28/2017	14:24	☐	1	F	WH	☐	☐	☐	☑	☑	☐	
005	TD5-170828-01	TD5-170828-01-PKSD-06	8/28/2017	14:21	☐	1	F	WH	☐	☐	☐	☑	☑	☐	
006	TD5-170828-01	TD5-170828-01-PKSD-05	8/28/2017	14:19	☐	1	F	WH	☐	☐	☐	☑	☑	☐	
007	TD5-170828-01	TD5-170828-01-PKSD-04	8/28/2017	14:16	☐	1	F	WH	☐	☐	☐	☑	☑	☐	
008	TD5-170828-01	TD5-170828-01-PKSD-03	8/28/2017	14:14	☐	1	F	WH	☐	☐	☐	☑	☑	☐	
009	TD5-170828-01	TD5-170828-01-PKSD-01	8/28/2017	14:05	☐	1	F	WH	☐	☐	☐	☑	☑	☐	
010	TD4-170828-01	TD4-170828-01-PKSD-05	8/28/2017	14:48	☐	1	F	WH	☐	☐	☐	☑	☑	☐	

Comments:

Relinquished by:	Received by:	Relinquished by:	Received by:	Relinquished by:	Received by:
Signature [signature]	Signature [signature]	Signature [signature]	Signature [signature]	Signature [signature] VIA FED EX	Signature Fed Ex
Print Name Jim Ryan	Print Name D. Bubnek	Print Name D. Bubnek	Print Name D. Bubnek	Print Name D. Bubnek	Print Name
Company Anchor QEA	Company PACE	Company PACE	Company PACE T: -1.6°C	Company PACE	Company
Date/Time 8/29/17	Date/Time 8/29/17 1030	Date/Time 8/29/17 1115	Date/Time 8/29/17 11:15	Date/Time 10/3/17 16:00	Date/Time 10/4/17 1405

Susan Hylie
Susan Hylie
Pace
10/4/17 1405

Date Printed: 8/28/2017 * F= FISH **F=Fillet, WH=Whole Body, O=Offal **COC TYPE:** TPCB-LIPD-PEST-MERCURY

40157937

ANCHOR QEA

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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: COC170828-T11-01
Sample Custodian: SA
Lab: Pace - Green Bay

Client: General Electric Company

Project: Hudson River Remedial Action Monitoring Program

EK 10/4/17 SKW

COC Sample Number	Sampling Event ID	Field Sample ID	Sample Date	Sample Time	MS/LD	# CONTAINERS	Media*	Prep**	Composite	EPA Split	Total PCBs NE013_09	Total PCBs SW846 8082A	Percent Lipid (S-GB-O-068)	Fillet Weight (S-GB-L-009)	
011	TD4-170828-01	TD4-170828-01-PKSD-04	8/28/2017	14:47	☐	1	F	WH	☐	☐	☐	☑	☑	☐	1-ziplock A
012	TD4-170828-01	TD4-170828-01-PKSD-03	8/28/2017	14:44	☐	1	F	WH	☐	☐	☐	☑	☑	☐	
013	TD4-170828-01	TD4-170828-01-PKSD-02	8/28/2017	14:42	☐	1	F	WH	☐	☐	☐	☑	☑	☐	
014	TD4-170828-01	TD4-170828-01-PKSD-01	8/28/2017	14:40	☐	1	F	WH	☐	☐	☐	☑	☑	☐	
015	TD3-170828-01	TD3-170828-01-PKSD-01	8/28/2017	15:02	☐	1	F	WH	☐	☐	☐	☑	☑	☐	
016	TD2-170828-01	TD2-170828-01-PKSD-05	8/28/2017	12:25	☐	1	F	WH	☐	☐	☐	☑	☑	☐	
017	TD2-170828-01	TD2-170828-01-PKSD-04	8/28/2017	12:23	☐	1	F	WH	☐	☐	☐	☑	☑	☐	
018	TD2-170828-01	TD2-170828-01-PKSD-03	8/28/2017	12:21	☐	1	F	WH	☐	☐	☐	☑	☑	☐	
019	TD1-170828-01	TD1-170828-01-PKSD-01	8/28/2017	11:44	☐	1	F	WH	☐	☐	☐	☑	☑	☐	
020	TD1-170828-01	TD1-170828-01-GOSH-01	8/28/2017	12:03	☑	1	F	WH	☑	☐	☐	☑	☑	☐	

Comments:

Relinquished by:	Received by:	Relinquished by:	Received by:	Relinquished by:	Received by:
Signature [signature]	Signature [signature]	Signature [signature]	Signature [signature]	Signature [signature] VIA FED EX	Signature Fed Ex
Print Name Jim Ryan	Print Name D. Bubniak	Print Name D. Bubniak	Print Name A. Bittner	Print Name A. Bittner	Print Name Susan Hylle
Company Anchor QEA	Company PACE	Company PACE	Company PACE T: 1.6°C	Company PACE	Company Pace
Date/Time 8/29/17	Date/Time 8/29/17 1030	Date/Time 8/29/17 1115	Date/Time 8/29/17 11:15	Date/Time 10/3/17 16:00	Date/Time 10/4/17 1405

Susan Hylle 10/4/17 1405

Date Printed: 8/28/2017 * F= FISH **F=Fillet, WH=Whole Body, O=Offal **COC TYPE:** TPCB-LIPD-PEST-MERCURY **Page 2 of 2**

40157937

Pace Analytical

Sample Condition Upon Receipt

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

Project #: WO#: 40157937

40157937

Client Name: GE

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

Tracking #: 4099947047 5; 4099947047 6

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

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

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

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

Cooler Temperature Uncorr: 0.1 /Corr: 0.1 **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: 10-4-17
Initials:

		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: AL for TN **Date:** 10-5-17

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

CASE NARRATIVE - PCB ANALYSIS

Lab Report Number (SDG): 40157937
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 blank.

C. Surrogates: All QAPP specified acceptance criteria were met with the following exception. The TCMX recovery for method blank 1676397 was below control criteria. Pace Analytical Services, LLC, SOP allows one surrogate recovery to be outside control criteria, so no corrective action was taken. The out of control surrogate was given the “S0” data qualifier on the final report. Surrogate levels are below the lowest calibration level when dilution factors are greater than 10. In the cases where the surrogates are not applicable due to sample dilution, the “S4” data qualifier is applied to the final report.

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 TD1-170828-01-GOSH-01 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 TD1-170828-01-GOSH-01 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 TD2-170828-01-PKSD-04 were analyzed at a dilution to bring the level of Aroclors within the calibration range of the instrument.

H. Reanalysis: Samples TD5-170828-01-PKSD-08, TD5-170828-01-PKSD-01, TD4-170828-01-PKSD-02, and MS 1676399 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: 05/17/18

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.: 40157937 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ

LAB SAMPLE ID	SAMPLE NAME	DCBP	TCMX
1676397	1676397BLANK	83	59*
1676398	1676398LCS	89	77
1676399	1676399MS	107	101
1676400	1676400DUP	102	96
40157937001	TD5-170828-01-PKSD-10	102	98
40157937002	TD5-170828-01-PKSD-09	101	96
40157937003	TD5-170828-01-PKSD-08	105	88
40157937004	TD5-170828-01-PKSD-07	81	73
40157937005	TD5-170828-01-PKSD-06	100	93
40157937006	TD5-170828-01-PKSD-05	103	93
40157937007	TD5-170828-01-PKSD-04	99	95
40157937008	TD5-170828-01-PKSD-03	103	93
40157937009	TD5-170828-01-PKSD-01	105	90
40157937010	TD4-170828-01-PKSD-05	104	89
40157937011	TD4-170828-01-PKSD-04	92	86
40157937012	TD4-170828-01-PKSD-03	99	98
40157937013	TD4-170828-01-PKSD-02	102	99
40157937014	TD4-170828-01-PKSD-01	109	102
40157937015	TD3-170828-01-PKSD-01	104	86
40157937016	TD2-170828-01-PKSD-05	103	91
40157937017	TD2-170828-01-PKSD-04	86	87
40157937018	TD2-170828-01-PKSD-03	106	96
40157937019	TD1-170828-01-PKSD-01	0*	0*
40157937020	TD1-170828-01-GOSH-01	98	95

	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: 04/20/2018

Instrument: 40GCSJ

Lab File ID: 042318.B\042318007.D

Lab Sample ID: 1676398LCS

Date Analyzed (1): 04/23/2018

LCS Lot No: 192096

SDG No.: 40157937

COMPOUND	AMOUNT ADDED (ug/kg)	LCS CONCENTRATION (ug/kg)	LCS %REC	QC LIMITS REC.
PCB-1242 (Aroclor 1242)	250	289	115	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: 04/20/2018

Instrument: 40GCSJ

Parent Sample ID: TD1-170828-01-GOSH-01

Matrix Spike - Sample No: 1676399MS

Date Analyzed (1): 04/24/2018

Lab File ID: 042418.B\042418009.D

SDG No.: 40157937

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS %REC	QC LIMITS REC.
PCB-1242 (Aroclor 1242)	249	<22.8	526	211	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: 04/20/2018

Instrument 40GCSJ

Lab Sample ID: TD1-170828-01-GOSH-01

Duplicate Sample No: 40157937020DUP

Date Analyzed: 04/23/2018

Lab File ID: 042318.B\042318033.D

SDG No.: 40157937

COMPOUND	SAMPLE CONCENTRATION (ug/kg)	DUPLICATE CONCENTRATION (ug/kg)	RPD	RPD LIMITS
PCB-1016 (Aroclor 1016)	<22.8	<22.8		0-40
PCB-1221 (Aroclor 1221)	120	116	4	0-40
PCB-1232 (Aroclor 1232)	<22.8	<22.8		0-40
PCB-1242 (Aroclor 1242)	<22.8	<22.8		0-40
PCB-1248 (Aroclor 1248)	605	607	0	0-40
PCB-1254 (Aroclor 1254)	351	351	0	0-40
PCB-1260 (Aroclor 1260)	75.4J	76.0J		0-40

RPD: 0 out of 3 outside limits.

SAMPLE NO.

1676397BLANK

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

Lab Name: Pace Analytical - Green Bay SDG No.: 40157937 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ Matrix: Tissue Lab Sample ID: 1676397

Lab File ID: 042318.B\042318006.D Date Analyzed: 04/23/2018 Time:14:15

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	ANALYZED
1676398LCS	1676398	042318.B\042318007.D	04/23/2018 14:31
TD5-170828-01-PKSD-10	40157937001	042318.B\042318008.D	04/23/2018 14:47
TD5-170828-01-PKSD-09	40157937002	042318.B\042318009.D	04/23/2018 15:03
TD5-170828-01-PKSD-07	40157937004	042318.B\042318011.D	04/23/2018 15:34
TD5-170828-01-PKSD-06	40157937005	042318.B\042318012.D	04/23/2018 15:50
TD5-170828-01-PKSD-05	40157937006	042318.B\042318013.D	04/23/2018 16:06
TD5-170828-01-PKSD-04	40157937007	042318.B\042318014.D	04/23/2018 16:22
TD5-170828-01-PKSD-03	40157937008	042318.B\042318015.D	04/23/2018 16:38
TD4-170828-01-PKSD-05	40157937010	042318.B\042318019.D	04/23/2018 17:41
TD4-170828-01-PKSD-04	40157937011	042318.B\042318020.D	04/23/2018 17:57
TD4-170828-01-PKSD-03	40157937012	042318.B\042318021.D	04/23/2018 18:13
TD4-170828-01-PKSD-01	40157937014	042318.B\042318023.D	04/23/2018 18:44
TD3-170828-01-PKSD-01	40157937015	042318.B\042318024.D	04/23/2018 19:00
TD2-170828-01-PKSD-05	40157937016	042318.B\042318025.D	04/23/2018 19:16
TD2-170828-01-PKSD-04	40157937017	042318.B\042318026.D	04/23/2018 19:32
TD2-170828-01-PKSD-03	40157937018	042318.B\042318027.D	04/23/2018 19:48
TD1-170828-01-PKSD-01	40157937019	042318.B\042318030.D	04/23/2018 20:36
TD1-170828-01-GOSH-01	40157937020	042318.B\042318031.D	04/23/2018 20:51
1676400DUP	1676400	042318.B\042318033.D	04/23/2018 21:23
TD5-170828-01-PKSD-08	40157937003	042418.B\042418006.D	04/24/2018 13:42
TD5-170828-01-PKSD-01	40157937009	042418.B\042418007.D	04/24/2018 13:58
TD4-170828-01-PKSD-02	40157937013	042418.B\042418008.D	04/24/2018 14:13
1676399MS	1676399	042418.B\042418009.D	04/24/2018 14:29

SAMPLE NO.

TD5-170828-01-PKSD-10

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/04/2017 14:05
Matrix: Tissue SDG No.: 40157937
Date Extracted: 04/20/2018 07:02
Lab Sample ID: 40157937001
Date Analyzed: 04/23/2018 14:47
Lab File ID: 042318.B\042318008.D
Initial wt/vol: 7.5546 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)	<45.3	U
11104-28-2	PCB-1221 (Aroclor 1221)	143	J
11141-16-5	PCB-1232 (Aroclor 1232)	<45.3	U
53469-21-9	PCB-1242 (Aroclor 1242)	<45.3	U
12672-29-6	PCB-1248 (Aroclor 1248)	1530	
11097-69-1	PCB-1254 (Aroclor 1254)	858	
11096-82-5	PCB-1260 (Aroclor 1260)	117	J
1336-36-3	PCB, Total	2650	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042318.b\042318008.D
Lab Smp Id: 40157937001 Client Smp ID: TD5-170828-01-PKSD-
Inj Date : 23-APR-2018 14:47
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157937001 x3,
Misc Info : 17718,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042318.b\pcba030618.m
Meth Date : 24-Apr-2018 13:17 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 8
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	7.555	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.686	13073	12226	0.935	0.01		
1.799	12297	10346	0.841	0.01	1 Aroclor 1221	BA
2.167	11537	9432	0.818	0.01		
2.315	11228	12449	1.109	0.01		
2.410	148256	107668	0.726	0.20	1 Aroclor 1221	BA
2.485	4015955	3742875	0.932	5.66	$ 2 Tetrachloro-m-xylene	BA
2.692	17688	13294	0.752	0.02	1 Aroclor 1221	BA
2.788	33505	27415	0.818	0.04	1 Aroclor 1221	BA
2.851	110324	90972	0.825	0.15	1 Aroclor 1221	BA
3.019	26673	26604	0.997	0.03		
3.055	176153	160239	0.910	0.24		
3.318	172921	171485	0.992	0.24		
3.344	318997	286725	0.899	0.45		
3.433	259157	237170	0.915	0.36		
3.519	400197	364131	0.910	0.56		
3.644	51260	41829	0.816	0.07		
3.732	355213	357256	1.006	0.50		
3.755	262114	244209	0.932	0.36		
3.825	2044353	1171851	0.573	2.88		
3.938	342805	261006	0.761	0.48		
3.993	407930	370478	0.908	0.57		
4.058	158014	145087	0.918	0.22		
4.133	23133	19617	0.848	0.03		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.215	2267989	2061839	0.909	3.20	
4.261	2262263	2122815	0.938	3.19	6 Aroclor 1248
4.292	2352524	1877973	0.798	3.31	
4.347	40358	25302	0.627	0.05	
4.417	965590	901199	0.933	1.36	
4.452	974054	843947	0.866	1.37	
4.545	2154971	1983181	0.920	3.04	6 Aroclor 1248
4.589	143969	131897	0.916	0.20	
4.617	160063	127050	0.794	0.22	
4.679	152844	130614	0.855	0.21	
4.728	233111	158666	0.681	0.32	
4.767	410197	374351	0.913	0.57	
4.813	1852507	1675102	0.904	2.61	6 Aroclor 1248
4.848	1976094	1839514	0.931	2.78	
4.878	4472990	2964271	0.663	6.87	6 Aroclor 1248
4.956	663461	531991	0.802	0.93	
5.037	2057620	1810244	0.880	2.90	6 Aroclor 1248
5.101	1146697	932595	0.813	1.61	
5.161	2482154	2157306	0.869	3.50	7 Aroclor 1254
5.212	2030408	1749267	0.862	2.86	
5.283	213322	195887	0.918	0.30	
5.307	280095	218520	0.780	0.39	
5.362	941456	834488	0.886	1.32	
5.406	1800229	1524580	0.847	2.54	7 Aroclor 1254
5.446	1486743	1257098	0.846	2.09	
5.478	139489	159713	1.145	0.19	
5.509	3233961	2688695	0.831	4.56	7 Aroclor 1254
5.577	98551	80940	0.821	0.13	
5.603	522125	430395	0.824	0.73	
5.675	529295	476694	0.901	0.74	
5.713	367922	270361	0.735	0.51	
5.742	570446	413611	0.725	0.80	
5.791	3861441	2963840	0.768	5.44	
5.887	450901	277063	0.614	0.63	
5.931	229724	148947	0.648	0.32	
5.993	454190	419263	0.923	0.64	
6.024	2070459	1802422	0.871	2.92	7 Aroclor 1254
6.055	1879423	1545802	0.822	2.65	
6.121	65749	42014	0.639	0.09	
6.169	525197	343408	0.654	0.74	
6.228	197487	206264	1.044	0.27	
6.241	293479	230095	0.784	0.41	
6.299	2779571	2259507	0.813	3.92	7 Aroclor 1254
6.332	353833	307276	0.868	0.49	
6.372	193660	136498	0.705	0.27	
6.432	257574	179130	0.695	0.36	
6.482	22507	28593	1.270	0.03	
6.508	590129	546142	0.925	0.83	
6.535	587968	509740	0.867	0.82	
6.560	199597	170392	0.854	0.28	
6.602	145417	94657	0.651	0.20	
6.660	80569	55525	0.689	0.11	
6.717	289124	233225	0.807	0.40	
6.758	273873	215696	0.788	0.38	
6.801	387655	336058	0.867	0.54	
6.838	198180	124891	0.630	0.27	
6.910	36297	28313	0.780	0.05	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.942	158857	129712	0.817	0.22	
7.004	551266	496220	0.900	0.77	8 Aroclor 1260
7.034	75593	63791	0.844	0.10	
7.071	14352	16112	1.123	0.02	
7.104	7163	9896	1.382	0.01	
7.120	38251	28269	0.739	0.05	
7.195	19507	14122	0.724	0.02	
7.250	296673	271105	0.914	0.41	8 Aroclor 1260
7.279	133376	96820	0.726	0.18	
7.339	34880	21965	0.630	0.04	
7.390	171456	163003	0.951	0.24	
7.441	198655	163321	0.822	0.28	8 Aroclor 1260
7.550	25701	20297	0.790	0.03	
7.580	13452	12246	0.910	0.01	
7.618	33688	16881	0.501	0.04	
7.663	18953	21327	1.125	0.02	
7.693	44743	42057	0.940	0.06	
7.725	59125	45657	0.772	0.08	
7.802	45085	28295	0.628	0.06	
7.899	131318	105636	0.804	0.18	8 Aroclor 1260
7.960	23435	14968	0.639	0.03	
8.048	74506	60804	0.816	0.10	
8.272	113144	96536	0.853	0.15	
8.374	11730	10676	0.910	0.01	
8.570	3736553	3175302	0.850	5.27	$ 12 Decachlorobiphenyl
9.167	35275	28329	0.803	0.04	
9.463	18856	9044	0.480	0.02	
	70865878	59201622		100.000	

Total unknown % area = 51

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042318.b\042318008.D
Lab Smp Id: 40157937001 Client Smp ID: TD5-170828-01-PKSD-
Inj Date : 23-APR-2018 14:47
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157937001 x3,
Misc Info : 17718,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042318.b\pcba030618.m
Meth Date : 24-Apr-2018 13:17 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 8
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	7.555	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	12297	0.01181	23	0.00- 20.00	100.00(M)	BA
2.409	2.407	0.002	148255	0.27062	540	0.00- 20.00	1205.62	BA
2.692	2.688	0.004	17688	0.01279	25	0.00- 20.00	143.84	BA
2.787	2.789	-0.002	33504	0.03030	60	0.00- 20.00	272.46	BA
2.850	2.851	-0.001	110324	0.03389	67	0.00- 20.00	897.16	BA
Average of Peak Concentrations =					140			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	4015954	0.03257	65		(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	2262263	0.96555	1900	0.00- 20.00	100.00(M)	BA
4.544	4.546	-0.002	2154971	0.51923	1000	0.00- 20.00	95.26	BA
4.812	4.812	0.000	1852506	0.91253	1800	0.00- 20.00	81.89	BA
4.877	4.879	-0.002	4472989	0.88795	1800	0.00- 20.00	197.72	BA
5.037	5.038	-0.001	2057620	0.57339	1100	0.00- 20.00	90.95	BA
Average of Peak Concentrations =					1500			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	2482153	0.47412	940	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	1800229	0.41856	830	0.00- 20.00	72.53	BA
5.508	5.510	-0.002	3233961	0.41642	830	0.00- 20.00	130.29	BA
6.024	6.027	-0.003	2070458	0.42517	840	0.00- 20.00	83.41	BA
6.298	6.299	-0.001	2779571	0.42716	850	0.00- 20.00	111.98	BA
Average of Peak Concentrations =					860			
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	551265	0.05505	110	0.00- 20.00	19.83	BA
7.250	7.251	-0.001	296672	0.06207	120	0.00- 20.00	10.67	BA
7.441	7.443	-0.002	198655	0.06815	140	0.00- 20.00	7.15	BA
7.898	7.901	-0.003	131318	0.04977	99	0.00- 20.00	4.72	BA
Average of Peak Concentrations =					120			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	3736553	0.03411	68			

QC Flag Legend

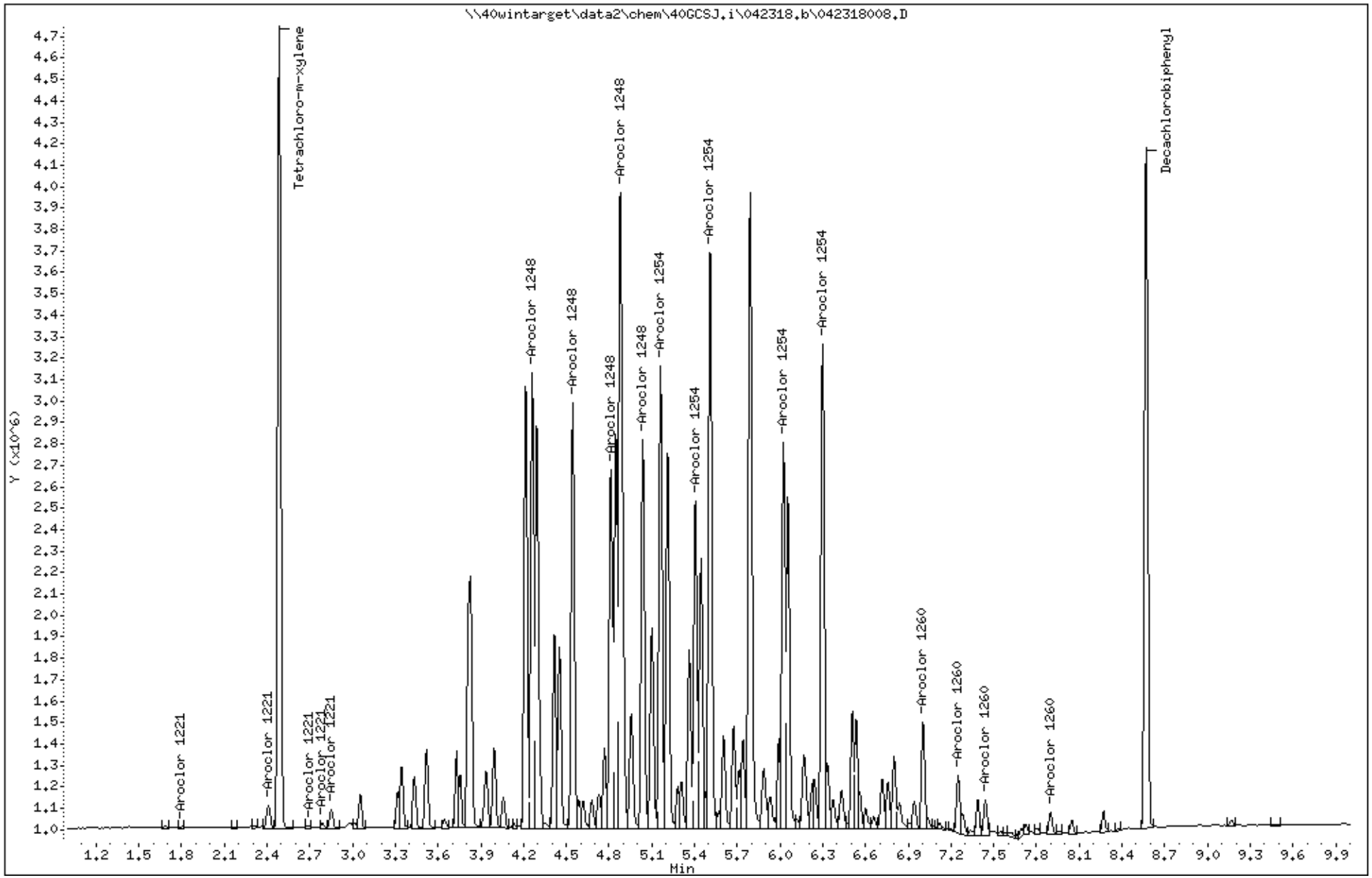
M - Compound response manually integrated.

Review Codes Legend

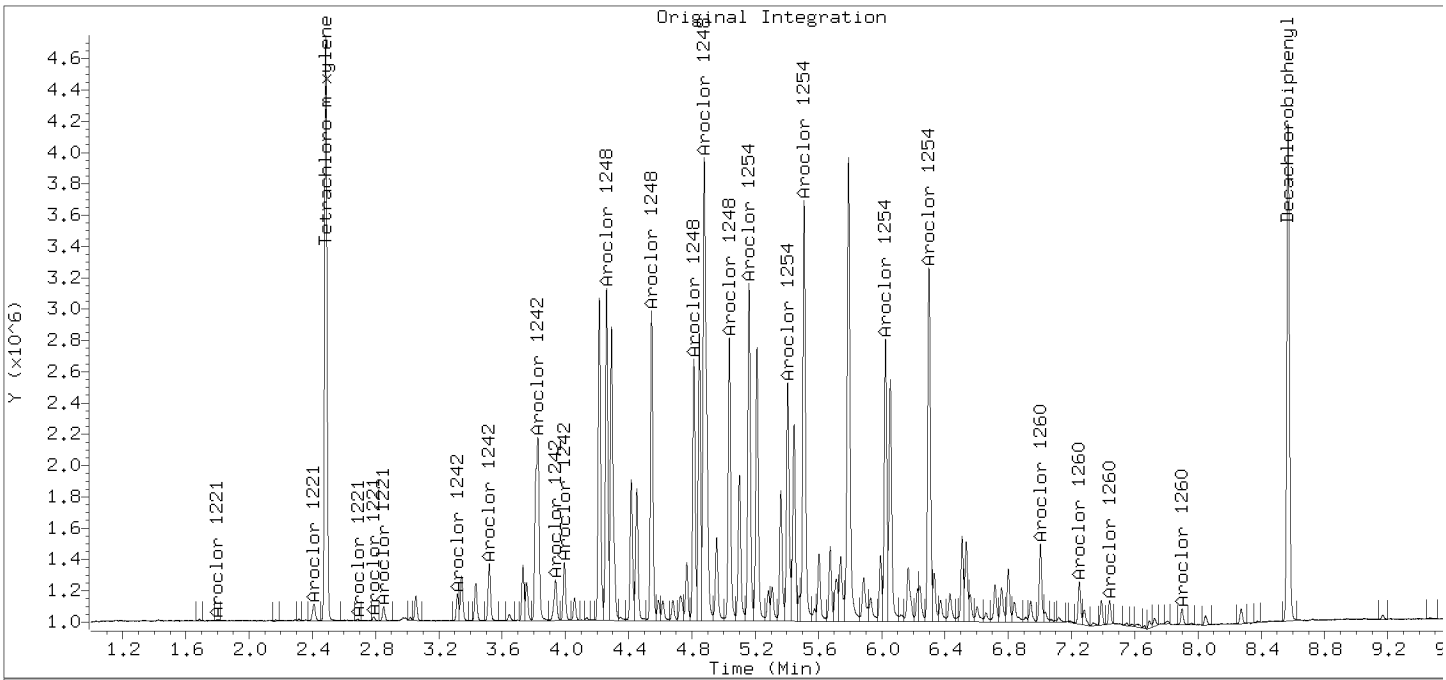
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:

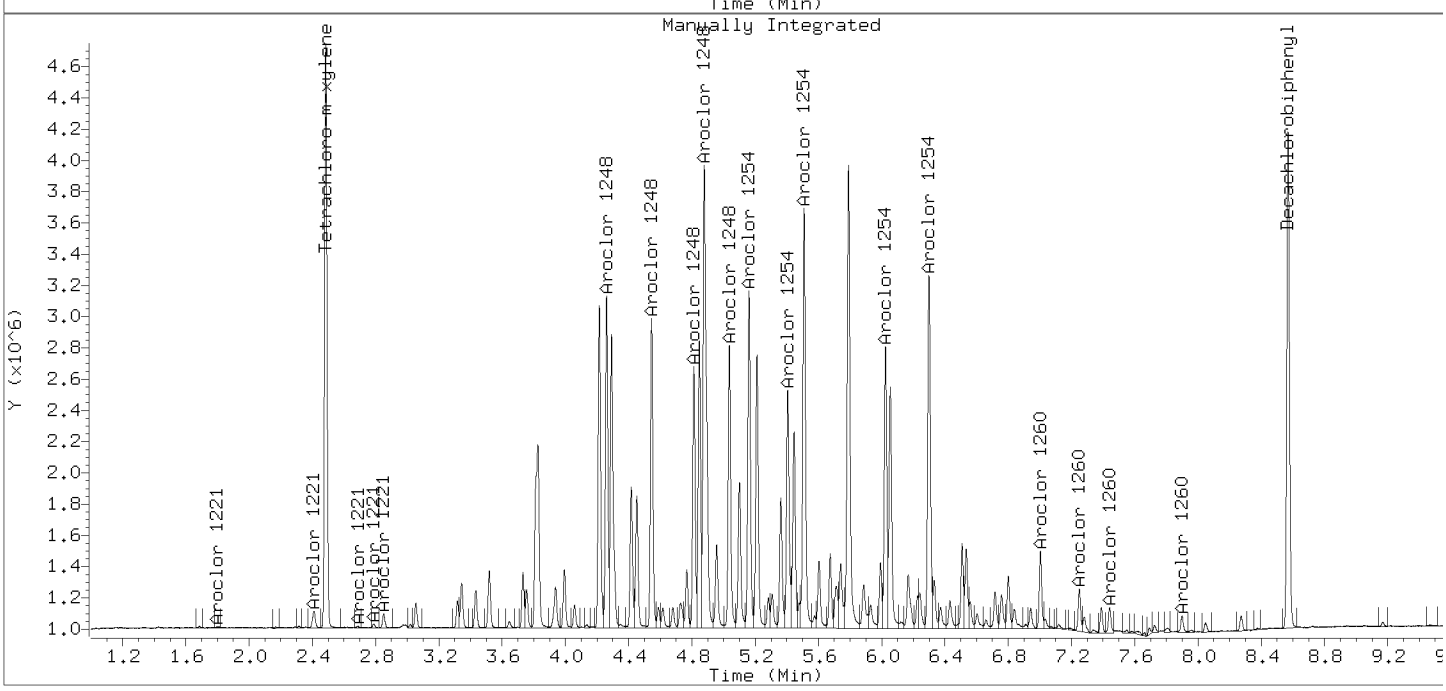
Data File: \\40wintarget\data2\chem\40GCSJ.i\042318.b\042318008.D
Date : 23-APR-2018 14:47
Client ID: TD5-170828-01-PKSD-
Sample Info: 40157937001 x3,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\042318.b/042318008.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 23-APR-2018 14:47 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157937001





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	172921	0	
Aroclor 1016	172921	0	
Aroclor 1016	172921	0	
Aroclor 1016	172921	0	
Aroclor 1016	172921	0	
Aroclor 1221	11373	12297	BA
Aroclor 1221	11373	12297	BA
Aroclor 1221	11373	12297	BA
Aroclor 1221	11373	12297	BA
Aroclor 1221	11373	12297	BA
Aroclor 1232	108368	0	
Aroclor 1232	108368	0	
Aroclor 1232	108368	0	
Aroclor 1232	108368	0	

Aroclor 1232	108368	0	
Aroclor 1242	172921	0	
Aroclor 1242	172921	0	
Aroclor 1242	172921	0	
Aroclor 1242	172921	0	
Aroclor 1242	172921	0	
Aroclor 1248	2253750	2262263	BA
Aroclor 1248	2253750	2262263	BA
Aroclor 1248	2253750	2262263	BA
Aroclor 1248	2253750	2262263	BA
Aroclor 1248	2253750	2262263	BA
Aroclor 1254	2480577	2482153	BA
Aroclor 1254	2480577	2482153	BA
Aroclor 1254	2480577	2482153	BA
Aroclor 1254	2480577	2482153	BA
Aroclor 1254	2480577	2482153	BA
Aroclor 1260	2783159	0	BA
Aroclor 1260	2783159	0	BA
Aroclor 1260	2783159	0	BA
Aroclor 1260	2783159	0	BA
Aroclor 1260	2783159	0	BA
Tetrachloro-m-xylene	4012488	4015954	BA
Decachlorobiphenyl	3736553	3736553	

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SAMPLE NO.

TD5-170828-01-PKSD-09

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/04/2017 14:05
Matrix: Tissue SDG No.: 40157937
Date Extracted: 04/20/2018 07:02
Lab Sample ID: 40157937002
Date Analyzed: 04/23/2018 15:03
Lab File ID: 042318.B\042318009.D
Initial wt/vol: 6.8751 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)	<49.7	U
11104-28-2	PCB-1221 (Aroclor 1221)	137	J
11141-16-5	PCB-1232 (Aroclor 1232)	<49.7	U
53469-21-9	PCB-1242 (Aroclor 1242)	<49.7	U
12672-29-6	PCB-1248 (Aroclor 1248)	966	
11097-69-1	PCB-1254 (Aroclor 1254)	488	
11096-82-5	PCB-1260 (Aroclor 1260)	89.6	J
1336-36-3	PCB, Total	1680	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042318.b\042318009.D
Lab Smp Id: 40157937002 Client Smp ID: TD5-170828-01-PKSD-
Inj Date : 23-APR-2018 15:03
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157937002 x3,
Misc Info : 17718,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042318.b\pcba030618.m
Meth Date : 24-Apr-2018 13:17 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 9
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	6.875	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.425	10314	7876	0.764	0.02		
1.686	17201	11798	0.686	0.03		
2.169	9347	8607	0.921	0.02		
2.290	9625	8800	0.914	0.02		
2.315	11682	12861	1.101	0.02		
2.410	106901	79516	0.744	0.24	1 Aroclor 1221	BA
2.485	3957567	3604318	0.911	9.51	$ 2 Tetrachloro-m-xylene	BA
2.685	13443	9502	0.707	0.03	1 Aroclor 1221	BA
2.788	25420	19472	0.766	0.05	1 Aroclor 1221	BA
2.850	74211	57832	0.779	0.16	1 Aroclor 1221	BA
2.975	40540	18071	0.446	0.09		
3.020	24462	21874	0.894	0.05		
3.054	109946	97933	0.891	0.25		
3.318	120917	116435	0.963	0.27		
3.345	233694	208482	0.892	0.53		
3.433	182992	167595	0.916	0.41		
3.520	309369	269397	0.871	0.70		
3.647	39086	30336	0.776	0.08		
3.732	249236	252113	1.012	0.56		
3.755	182043	167045	0.918	0.41		
3.826	1313084	735653	0.560	2.99		
3.938	228615	173375	0.758	0.52		
3.994	280538	251069	0.895	0.63		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.059	112474	103565	0.921	0.25	
4.135	16973	15736	0.927	0.03	
4.215	1487298	1338284	0.900	3.38	
4.261	1488757	1386356	0.931	3.39	6 Aroclor 1248
4.292	1596458	1273144	0.797	3.63	
4.417	632306	593585	0.939	1.44	
4.452	617395	547616	0.887	1.40	
4.502	23920	18927	0.791	0.05	
4.545	1381135	1255057	0.909	3.14	6 Aroclor 1248
4.588	100617	89617	0.891	0.22	
4.617	116864	92913	0.795	0.26	
4.680	105879	84510	0.798	0.24	
4.730	147345	95951	0.651	0.33	
4.768	265872	241827	0.910	0.60	
4.813	980134	914537	0.933	2.23	6 Aroclor 1248
4.848	998384	936630	0.938	2.27	
4.878	2320973	1449787	0.625	5.28	6 Aroclor 1248
4.956	397529	314602	0.791	0.90	
5.037	1086088	954269	0.879	2.47	6 Aroclor 1248
5.100	672383	563403	0.838	1.53	
5.161	1288736	1118325	0.868	2.93	7 Aroclor 1254
5.212	1039586	903015	0.869	2.36	
5.282	121162	108259	0.894	0.27	
5.307	186677	144828	0.776	0.42	
5.362	472644	411351	0.870	1.07	
5.406	948141	829497	0.875	2.16	7 Aroclor 1254
5.446	782824	654388	0.836	1.78	
5.478	102291	97019	0.948	0.23	
5.509	1676522	1450623	0.865	3.82	7 Aroclor 1254
5.577	68605	52280	0.762	0.15	
5.605	304646	244982	0.804	0.69	
5.675	311061	276403	0.889	0.70	
5.712	203019	151207	0.745	0.46	
5.740	296939	212998	0.717	0.67	
5.790	1988718	1468854	0.739	4.53	
5.885	219594	151851	0.692	0.50	
5.930	172369	94895	0.551	0.39	
5.993	259095	235612	0.909	0.59	
6.023	1021319	875713	0.857	2.32	7 Aroclor 1254
6.055	1012885	818280	0.808	2.30	
6.169	287279	181318	0.631	0.65	
6.226	119159	115110	0.966	0.27	
6.240	162476	126631	0.779	0.37	
6.298	1466746	1178793	0.804	3.34	7 Aroclor 1254
6.333	184000	161334	0.877	0.41	
6.373	118845	78415	0.660	0.27	
6.431	161164	110897	0.688	0.36	
6.510	295909	265922	0.899	0.67	
6.535	418489	283643	0.678	0.95	
6.608	88688	51550	0.581	0.20	
6.659	51413	34160	0.664	0.11	
6.717	168554	126099	0.748	0.38	
6.759	158910	120945	0.761	0.36	
6.801	219600	179536	0.818	0.50	
6.840	99179	69895	0.705	0.22	
6.911	23333	19174	0.822	0.05	
6.941	110724	85610	0.773	0.25	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.004	340277	299413	0.880	0.77	8 Aroclor 1260
7.035	30465	34683	1.138	0.06	
7.122	30370	19182	0.632	0.06	
7.250	182220	162645	0.893	0.41	8 Aroclor 1260
7.282	92385	58048	0.628	0.21	
7.340	40685	23505	0.578	0.09	
7.389	108678	94946	0.874	0.24	
7.443	166345	109183	0.656	0.37	8 Aroclor 1260
7.577	19903	16028	0.805	0.04	
7.661	16975	19089	1.125	0.03	
7.692	27899	27395	0.982	0.06	
7.725	55818	38986	0.698	0.12	
7.802	55445	24855	0.448	0.12	
7.899	92828	72560	0.782	0.21	8 Aroclor 1260
8.048	53132	41269	0.777	0.12	
8.272	93977	75803	0.807	0.21	
8.379	25596	12268	0.479	0.05	
8.570	3682358	3178855	0.863	8.39	$ 12 Decachlorobiphenyl
8.936	14352	8810	0.614	0.03	
9.167	29994	24118	0.804	0.06	
9.956	13097	8783	0.671	0.02	
	43883113	36440112		100.000	

Total unknown % area = 49

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042318.b\042318009.D
Lab Smp Id: 40157937002 Client Smp ID: TD5-170828-01-PKSD-
Inj Date : 23-APR-2018 15:03
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157937002 x3,
Misc Info : 17718,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042318.b\pcba030618.m
Meth Date : 24-Apr-2018 13:17 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 9
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	6.875	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	106900	0.19513	420	0.00- 20.00	0.00	BA
2.685	2.688	-0.003	13442	0.00972	21	0.00- 20.00	0.00	BA
2.788	2.789	-0.001	25419	0.02299	50	0.00- 20.00	0.00	BA
2.849	2.851	-0.002	74210	0.02280	50	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					140			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	3957567	0.03210	70		(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	1488756	0.63541	1400	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1381134	0.33278	730	0.00- 20.00	92.77	BA
4.813	4.812	0.001	980134	0.48281	1000	0.00- 20.00	65.84	BA
4.878	4.879	-0.001	2320973	0.46074	1000	0.00- 20.00	155.90	BA
5.036	5.038	-0.002	1086087	0.30265	660	0.00- 20.00	72.95	BA
Average of Peak Concentrations =					970			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	1288735	0.24617	540	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	948140	0.22044	480	0.00- 20.00	73.57	BA
5.508	5.510	-0.002	1676522	0.21588	470	0.00- 20.00	130.09	BA
6.023	6.027	-0.004	1021318	0.20973	460	0.00- 20.00	79.25	BA
6.298	6.299	-0.001	1466746	0.22541	490	0.00- 20.00	113.81	BA
Average of Peak Concentrations =					490			
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	340276	0.03398	74	0.00- 20.00	25.24	CO
7.250	7.251	-0.001	182220	0.03812	83	0.00- 20.00	12.42	CO
7.442	7.443	-0.001	166344	0.05706	120	0.00- 20.00	11.34	CO
7.899	7.901	-0.002	92827	0.03518	77	0.00- 20.00	6.33	CO
Average of Peak Concentrations =					90			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	3682357	0.03361	73			

QC Flag Legend

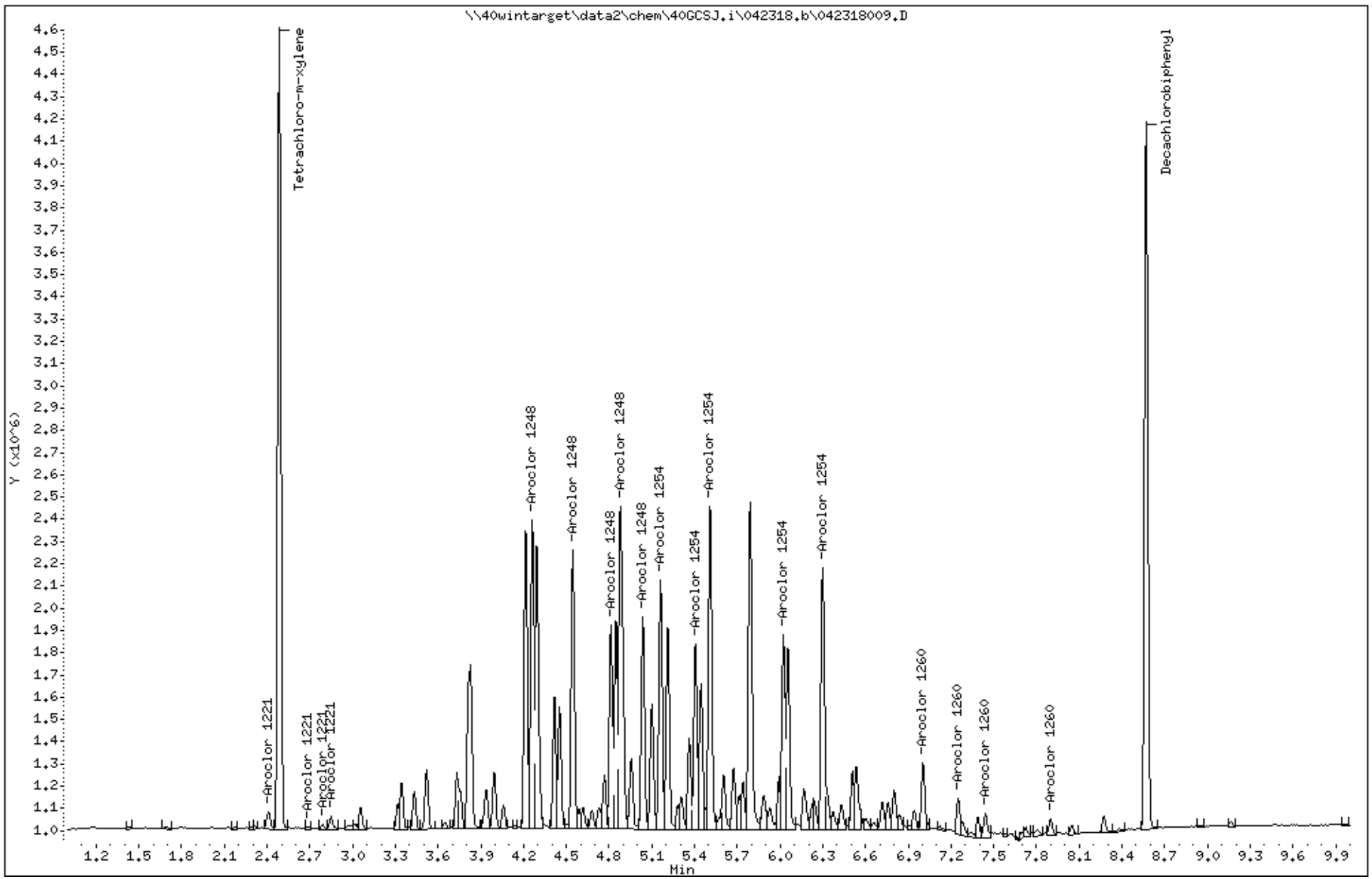
M - Compound response manually integrated.

Review Codes Legend

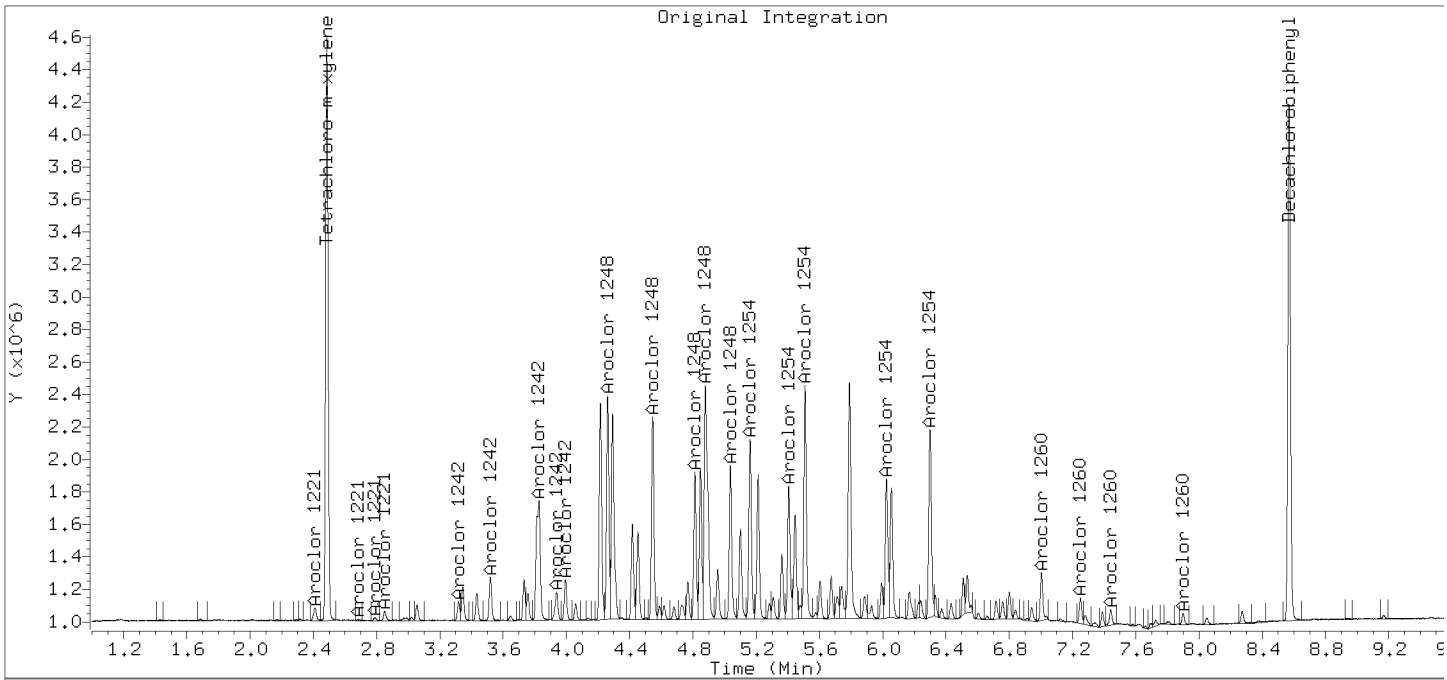
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

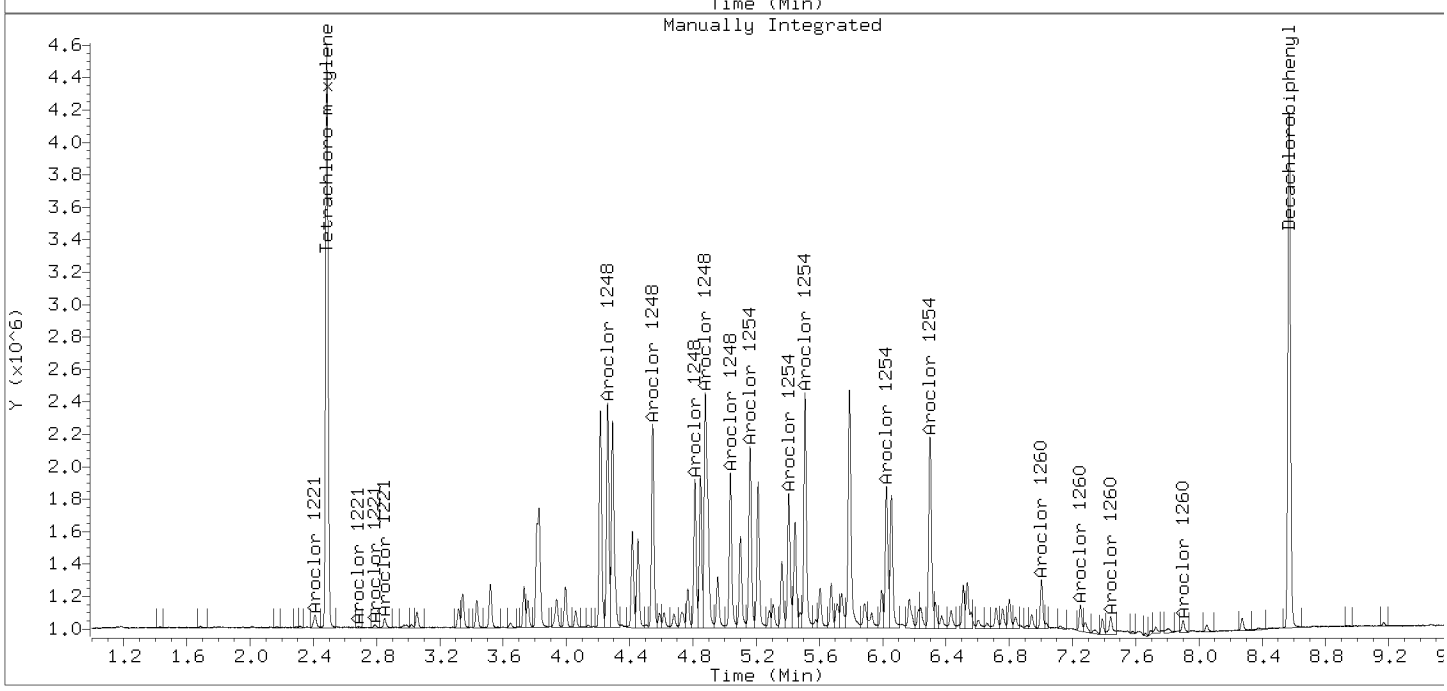
Data File: \\40wintarget\data2\chem\40GCSJ.i\042318.b\042318009.D
Date : 23-APR-2018 15:03
Client ID: TD5-170828-01-PKSD-
Sample Info: 40157937002 x3,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\042318.b/042318009.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 23-APR-2018 15:03 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157937002





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	120188	0	
Aroclor 1016	120188	0	
Aroclor 1016	120188	0	
Aroclor 1016	120188	0	
Aroclor 1016	120188	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	70974	0	
Aroclor 1232	70974	0	
Aroclor 1232	70974	0	
Aroclor 1232	70974	0	

Aroclor 1232	70974	0	
Aroclor 1242	120188	0	
Aroclor 1242	120188	0	
Aroclor 1242	120188	0	
Aroclor 1242	120188	0	
Aroclor 1242	120188	0	
Aroclor 1248	1468815	1488756	BA
Aroclor 1248	1468815	1488756	BA
Aroclor 1248	1468815	1488756	BA
Aroclor 1248	1468815	1488756	BA
Aroclor 1248	1468815	1488756	BA
Aroclor 1254	1251739	1288735	BA
Aroclor 1254	1251739	1288735	BA
Aroclor 1254	1251739	1288735	BA
Aroclor 1254	1251739	1288735	BA
Aroclor 1254	1251739	1288735	BA
Aroclor 1260	1394031	0	CO
Aroclor 1260	1394031	0	CO
Aroclor 1260	1394031	0	CO
Aroclor 1260	1394031	0	CO
Aroclor 1260	1394031	0	CO
Tetrachloro-m-xylene	3943208	3957567	BA
Decachlorobiphenyl	3682357	3682357	

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SAMPLE NO.

TD5-170828-01-PKSD-08

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/04/2017 14:05
Matrix: Tissue SDG No.: 40157937
Date Extracted: 04/20/2018 07:02
Lab Sample ID: 40157937003
Date Analyzed: 04/24/2018 13:42
Lab File ID: 042418.B\042418006.D
Initial wt/vol: 8.302 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)	<54.9	U
11104-28-2	PCB-1221 (Aroclor 1221)	162	J
11141-16-5	PCB-1232 (Aroclor 1232)	<54.9	U
53469-21-9	PCB-1242 (Aroclor 1242)	<54.9	U
12672-29-6	PCB-1248 (Aroclor 1248)	1480	
11097-69-1	PCB-1254 (Aroclor 1254)	701	
11096-82-5	PCB-1260 (Aroclor 1260)	117	J
1336-36-3	PCB, Total	2460	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418006.D
Lab Smp Id: 40157937003 Client Smp ID: TD5-170828-01-PKSD-
Inj Date : 24-APR-2018 13:42
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157937003 x4,
Misc Info : 17718,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042418.b\pcba030618.m
Meth Date : 25-Apr-2018 09:54 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 6
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	8.302	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.157	9249	8462	0.915	0.01		
1.771	13163	11534	0.876	0.02		
2.314	10834	8827	0.815	0.02		
2.410	110180	80475	0.730	0.20	1 Aroclor 1221	BA
2.485	2701461	2455166	0.909	5.10	$ 2 Tetrachloro-m-xylene	BA
2.686	15726	11227	0.714	0.02	1 Aroclor 1221	BA
2.790	30027	22504	0.749	0.05	1 Aroclor 1221	BA
2.850	96982	80910	0.834	0.18	1 Aroclor 1221	BA
2.977	30628	18244	0.596	0.05		
3.021	18189	19120	1.051	0.03		
3.054	125714	111199	0.885	0.23		
3.319	198541	190808	0.961	0.37		
3.345	405127	352991	0.871	0.76		
3.433	225017	204398	0.908	0.42		
3.519	444228	399263	0.899	0.83		
3.644	45656	35086	0.768	0.08		
3.732	369698	357567	0.967	0.69		
3.756	259692	246524	0.949	0.49		
3.814	689898	899205	1.303	1.30		
3.827	1193258	1049526	0.880	2.25		
3.939	317905	235265	0.740	0.60		
3.994	404830	372262	0.920	0.76		
4.059	151922	138200	0.910	0.28		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.136	24131	19127	0.793	0.04	
4.215	1933909	1756379	0.908	3.65	
4.261	1989518	1848084	0.929	3.75	6 Aroclor 1248
4.292	2039400	1617114	0.793	3.85	
4.417	885897	826679	0.933	1.67	
4.452	890735	792099	0.889	1.68	
4.546	1892807	1725239	0.911	3.57	6 Aroclor 1248
4.588	116981	101325	0.866	0.22	
4.617	144191	125809	0.873	0.27	
4.680	119514	100447	0.840	0.22	
4.728	193217	131004	0.678	0.36	
4.767	310206	287437	0.927	0.58	
4.812	1400632	1319845	0.942	2.64	6 Aroclor 1248
4.848	1486558	1373745	0.924	2.80	
4.880	3162795	2017881	0.638	6.44	6 Aroclor 1248
4.956	481160	381112	0.792	0.90	
5.037	1595432	1420222	0.890	3.01	6 Aroclor 1248
5.101	797005	666638	0.836	1.50	
5.161	1662291	1440953	0.867	3.13	7 Aroclor 1254
5.211	1354724	1188183	0.877	2.55	
5.282	143362	132880	0.927	0.27	
5.308	207665	160144	0.771	0.39	
5.362	667771	582228	0.872	1.26	
5.406	1276316	1102475	0.864	2.41	7 Aroclor 1254
5.445	1054355	885852	0.840	1.99	
5.486	103043	107118	1.040	0.19	
5.509	2160908	1839339	0.851	4.08	7 Aroclor 1254
5.576	69751	57599	0.826	0.13	
5.604	409763	344097	0.840	0.77	
5.675	337892	300826	0.890	0.63	
5.713	238129	181866	0.764	0.44	
5.741	387222	266574	0.688	0.73	
5.790	2547715	1975115	0.775	4.81	
5.886	310535	187395	0.603	0.58	
5.930	146560	101849	0.695	0.27	
5.993	312602	277896	0.889	0.59	
6.023	1382348	1231918	0.891	2.61	7 Aroclor 1254
6.055	1259635	1047894	0.832	2.37	
6.124	47680	28107	0.589	0.09	
6.168	337383	224770	0.666	0.63	
6.226	134736	144459	1.072	0.25	
6.241	190431	154622	0.812	0.35	
6.299	1818667	1479975	0.814	3.43	7 Aroclor 1254
6.333	229181	197777	0.863	0.43	
6.372	147227	99266	0.674	0.27	
6.432	170911	116140	0.680	0.32	
6.509	338626	296877	0.877	0.63	
6.535	539555	383374	0.711	1.01	
6.605	109655	71237	0.650	0.20	
6.662	60389	36908	0.611	0.11	
6.718	176030	139922	0.795	0.33	
6.758	171101	136676	0.799	0.32	
6.801	278018	227354	0.818	0.52	
6.839	123254	83370	0.676	0.23	
6.910	27415	22338	0.815	0.05	
6.942	129217	103018	0.797	0.24	
7.004	443549	385686	0.870	0.83	8 Aroclor 1260

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.034	40212	43868	1.091	0.07	
7.123	32680	18114	0.554	0.06	
7.249	243483	212023	0.871	0.45	8 Aroclor 1260
7.281	102816	75398	0.733	0.19	
7.391	123279	112947	0.916	0.23	
7.441	154739	120097	0.776	0.29	8 Aroclor 1260
7.549	25304	17208	0.680	0.04	
7.581	15154	11958	0.789	0.02	
7.621	31134	14904	0.479	0.05	
7.658	14100	14537	1.031	0.02	
7.692	33346	34283	1.028	0.06	
7.727	50702	36292	0.716	0.09	
7.763	11348	13238	1.167	0.02	
7.810	58794	24297	0.413	0.11	
7.900	119609	100392	0.839	0.22	8 Aroclor 1260
8.049	59622	48658	0.816	0.11	
8.274	88915	80036	0.900	0.16	
8.373	10009	11193	1.118	0.01	
8.571	2868013	2511840	0.876	5.41	$ 12 Decachlorobiphenyl
9.168	35396	30387	0.858	0.06	
	52956276	45094696		100.000	

Total unknown % area = 52

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418006.D
Lab Smp Id: 40157937003 Client Smp ID: TD5-170828-01-PKSD-
Inj Date : 24-APR-2018 13:42
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157937003 x4,
Misc Info : 17718,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042418.b\pcba030618.m
Meth Date : 25-Apr-2018 09:54 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 6
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	8.302	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	110179	0.20111	480	0.00- 20.00	0.00	BA
2.685	2.688	-0.003	15725	0.01137	27	0.00- 20.00	0.00	BA
2.790	2.789	0.001	30026	0.02715	65	0.00- 20.00	0.00	BA
2.850	2.851	-0.001	96981	0.02979	72	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					160			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	2701461	0.02191	53		(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	1989517	0.84914	2000	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1892806	0.45606	1100	0.00- 20.00	95.14	BA
4.812	4.812	0.000	1400632	0.68994	1700	0.00- 20.00	70.40	BA
4.879	4.879	0.000	3162795	0.62786	1500	0.00- 20.00	158.97	BA
5.037	5.038	-0.001	1595431	0.44459	1100	0.00- 20.00	80.19	BA
Average of Peak Concentrations =					1500			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	1662290	0.31752	760	0.00- 20.00	100.00(M)	CO
5.406	5.408	-0.002	1276315	0.29674	710	0.00- 20.00	76.78	CO
5.509	5.510	-0.001	2160907	0.27825	670	0.00- 20.00	130.00	CO
6.023	6.027	-0.004	1382347	0.28387	680	0.00- 20.00	83.16	CO
6.299	6.299	0.000	1818667	0.27949	670	0.00- 20.00	109.41	CO
Average of Peak Concentrations =					700			
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	443548	0.04429	110	0.00- 20.00	26.56	CO
7.249	7.251	-0.002	243483	0.05094	120	0.00- 20.00	13.39	CO
7.441	7.443	-0.002	154738	0.05308	130	0.00- 20.00	8.51	CO
7.900	7.901	-0.001	119609	0.04533	110	0.00- 20.00	6.58	CO
Average of Peak Concentrations =					120			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	2868013	0.02618	63			

QC Flag Legend

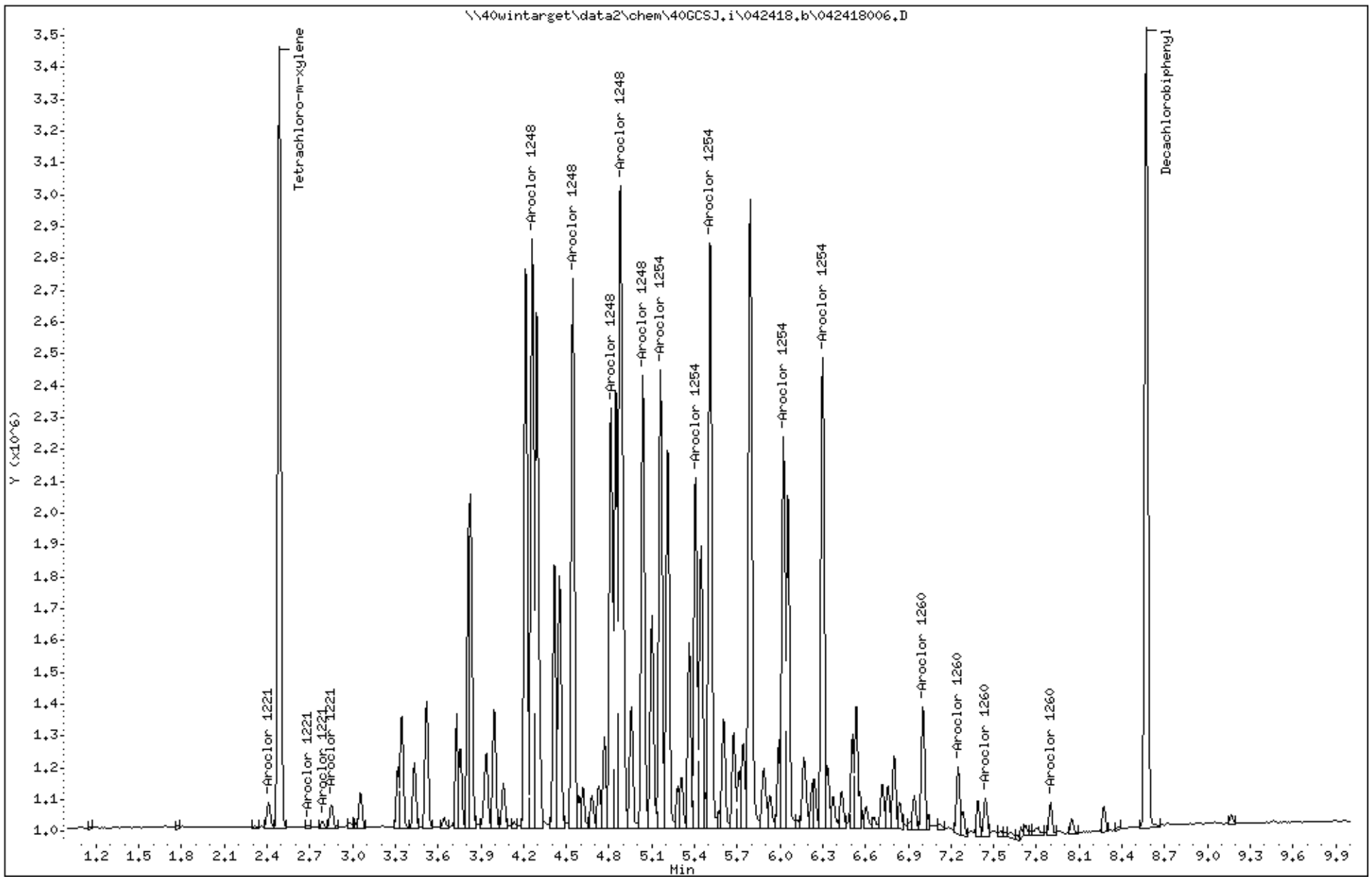
M - Compound response manually integrated.

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\042418.b\042418006.D
Date : 24-APR-2018 13:42
Client ID: TD5-170828-01-PKSD-
Sample Info: 40157937003 x4,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



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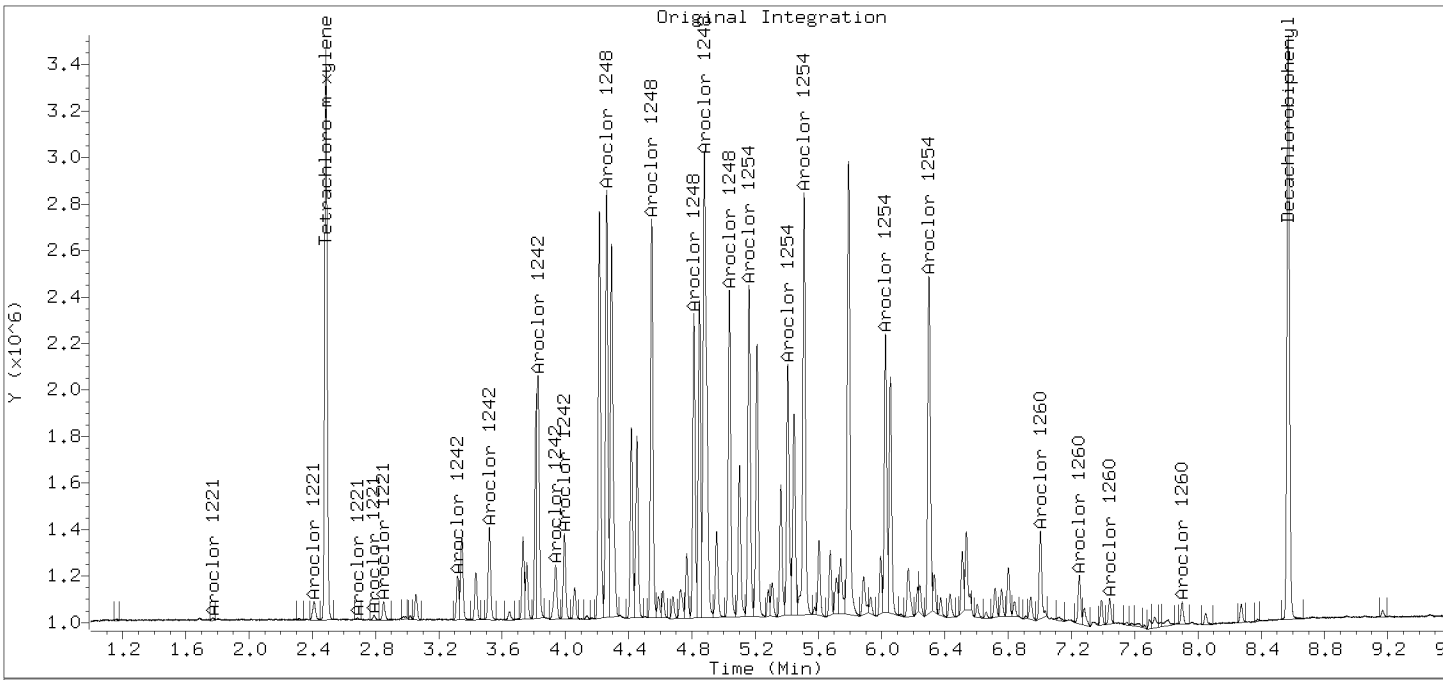
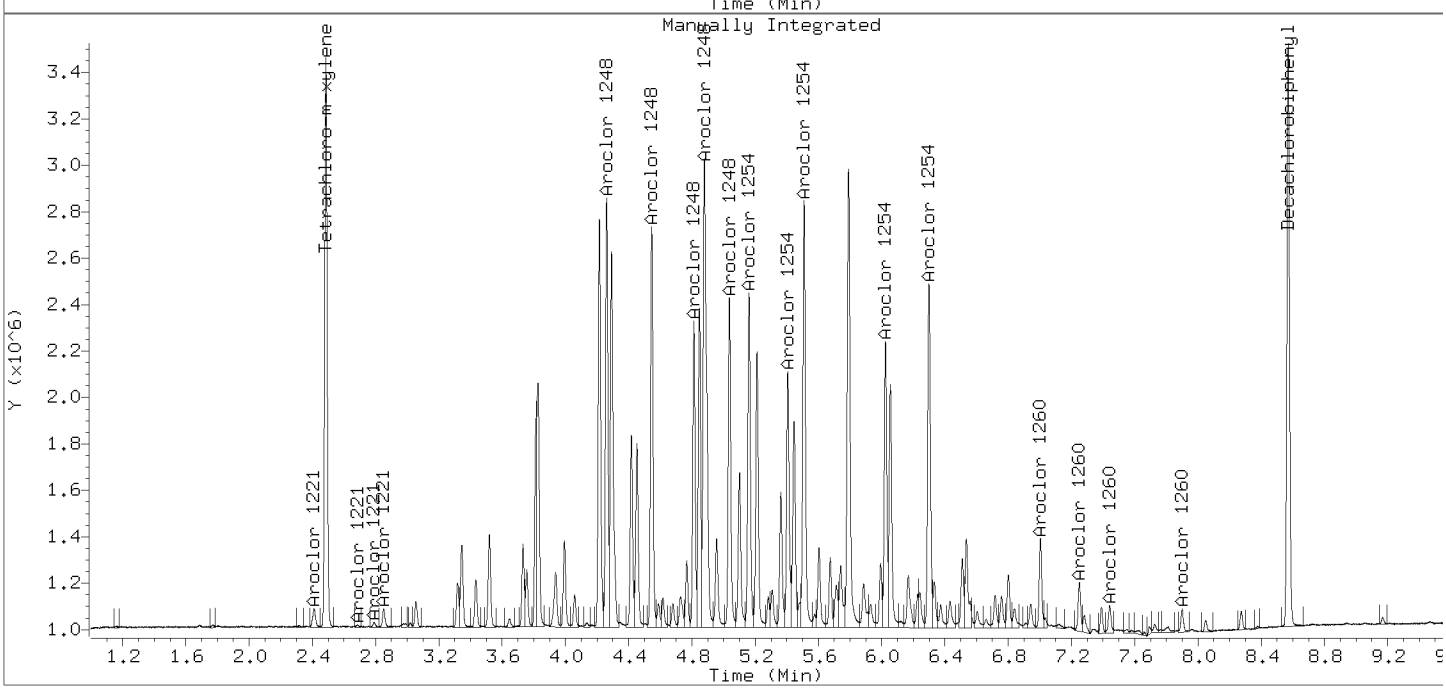
Injection Date: 24-APR-2018 13:42 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157937003





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	194288	0	
Aroclor 1016	194288	0	
Aroclor 1016	194288	0	
Aroclor 1016	194288	0	
Aroclor 1016	194288	0	
Aroclor 1221	13162	0	BA
Aroclor 1221	13162	0	BA
Aroclor 1221	13162	0	BA
Aroclor 1221	13162	0	BA
Aroclor 1221	13162	0	BA
Aroclor 1232	94221	0	
Aroclor 1232	94221	0	
Aroclor 1232	94221	0	
Aroclor 1232	94221	0	

Aroclor 1232	94221	0	
Aroclor 1242	194288	0	
Aroclor 1242	194288	0	
Aroclor 1242	194288	0	
Aroclor 1242	194288	0	
Aroclor 1242	194288	0	
Aroclor 1248	1962067	1989517	BA
Aroclor 1248	1962067	1989517	BA
Aroclor 1248	1962067	1989517	BA
Aroclor 1248	1962067	1989517	BA
Aroclor 1248	1962067	1989517	BA
Aroclor 1254	1608707	1662290	CO
Aroclor 1254	1608707	1662290	CO
Aroclor 1254	1608707	1662290	CO
Aroclor 1254	1608707	1662290	CO
Aroclor 1254	1608707	1662290	CO
Aroclor 1260	1725277	0	CO
Aroclor 1260	1725277	0	CO
Aroclor 1260	1725277	0	CO
Aroclor 1260	1725277	0	CO
Aroclor 1260	1725277	0	CO
Tetrachloro-m-xylene	2689876	2701461	BA
Decachlorobiphenyl	2868013	2868013	

==========

SAMPLE NO.

TD5-170828-01-PKSD-07

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/04/2017 14:05
Matrix: Tissue SDG No.: 40157937
Date Extracted: 04/20/2018 07:02
Lab Sample ID: 40157937004
Date Analyzed: 04/23/2018 15:34
Lab File ID: 042318.B\042318011.D
Initial wt/vol: 10.0007 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)	<45.6	U
11104-28-2	PCB-1221 (Aroclor 1221)	<45.6	U
11141-16-5	PCB-1232 (Aroclor 1232)	<45.6	U
53469-21-9	PCB-1242 (Aroclor 1242)	<45.6	U
12672-29-6	PCB-1248 (Aroclor 1248)	850	
11097-69-1	PCB-1254 (Aroclor 1254)	447	
11096-82-5	PCB-1260 (Aroclor 1260)	77.4	J
1336-36-3	PCB, Total	1370	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042318.b\042318011.D
Lab Smp Id: 40157937004 Client Smp ID: TD5-170828-01-PKSD-
Inj Date : 23-APR-2018 15:34
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157937004 x4,
Misc Info : 17718,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042318.b\pcba030618.m
Meth Date : 24-Apr-2018 13:17 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	10.001	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.012	11605	8071	0.695	0.02		
2.411	93249	66493	0.713	0.23		
2.485	2263185	2058880	0.910	5.79	$ 2 Tetrachloro-m-xylene	
2.791	21987	15423	0.701	0.05		
2.849	54578	45699	0.837	0.13		
2.975	27479	14757	0.537	0.07		
3.020	16135	15645	0.970	0.04		
3.054	101494	93662	0.923	0.25		
3.317	105445	99002	0.939	0.26		
3.344	179445	165601	0.923	0.45		
3.434	156195	143219	0.917	0.39		
3.519	238354	214521	0.900	0.61		
3.644	32364	27413	0.847	0.08		
3.731	207602	201185	0.969	0.53		
3.756	127937	123197	0.963	0.32		
3.826	1094850	616145	0.563	2.80		
3.938	230183	175416	0.762	0.58		
3.993	262575	236921	0.902	0.67		
4.058	107426	100839	0.939	0.27		
4.136	16343	13347	0.817	0.04		
4.215	1400949	1267777	0.905	3.58		
4.261	1402112	1320441	0.942	3.58	6 Aroclor 1248	BA
4.292	1511960	1194110	0.790	3.87		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.416	572505	543762	0.950	1.46	
4.452	605474	523133	0.864	1.55	
4.545	1299323	1191820	0.917	3.32	6 Aroclor 1248
4.588	91542	81086	0.886	0.23	
4.616	97437	78912	0.810	0.24	
4.680	97056	83053	0.856	0.24	
4.731	143416	96298	0.671	0.36	
4.768	237099	221109	0.933	0.60	
4.812	944571	884874	0.937	2.41	6 Aroclor 1248
4.847	1006488	956852	0.951	2.57	
4.878	2276971	1446777	0.635	6.35	6 Aroclor 1248
4.956	387090	313046	0.809	0.99	
5.037	1067661	944278	0.884	2.73	6 Aroclor 1248
5.100	638492	528514	0.828	1.63	
5.161	1299817	1108970	0.853	3.32	7 Aroclor 1254
5.212	1042389	928134	0.890	2.66	
5.284	110951	106685	0.962	0.28	
5.306	165859	124279	0.749	0.42	
5.362	495135	427353	0.863	1.26	
5.407	967911	848655	0.877	2.47	7 Aroclor 1254
5.445	787202	666845	0.847	2.01	
5.478	92960	86788	0.934	0.23	
5.509	1655637	1425001	0.861	4.23	7 Aroclor 1254
5.576	60474	50905	0.842	0.15	
5.603	302933	250490	0.827	0.77	
5.674	289899	253806	0.875	0.74	
5.713	195232	138652	0.710	0.49	
5.740	287207	206045	0.717	0.73	
5.790	1945336	1442168	0.741	4.98	
5.886	238106	141899	0.596	0.60	
5.931	131903	84128	0.638	0.33	
5.993	240717	226890	0.943	0.61	
6.023	1013174	883886	0.872	2.59	7 Aroclor 1254
6.056	1000248	843061	0.843	2.56	
6.122	37195	24260	0.652	0.09	
6.167	265994	182202	0.685	0.68	
6.226	108913	108992	1.001	0.27	
6.241	151339	119666	0.791	0.38	
6.299	1451184	1187255	0.818	3.71	7 Aroclor 1254
6.332	191003	158654	0.831	0.48	
6.374	114020	75953	0.666	0.29	
6.431	140914	99508	0.706	0.36	
6.508	270338	253617	0.938	0.69	
6.534	338110	287695	0.851	0.86	
6.558	113622	94924	0.835	0.29	
6.604	78447	51619	0.658	0.20	
6.659	47417	30565	0.645	0.12	
6.716	136767	109321	0.799	0.35	
6.757	139417	109114	0.783	0.35	
6.801	210079	174830	0.832	0.53	
6.838	105448	64507	0.612	0.26	
6.911	18852	16497	0.875	0.04	
6.941	99832	79414	0.795	0.25	
7.003	330593	287487	0.870	0.84	8 Aroclor 1260
7.032	31432	31426	1.000	0.08	
7.249	190126	166209	0.874	0.48	8 Aroclor 1260
7.280	89072	62875	0.706	0.22	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.335	27459	20414	0.743	0.07	
7.388	91081	88756	0.974	0.23	
7.442	143221	98069	0.685	0.36	8 Aroclor 1260
7.509	27410	14005	0.511	0.07	
7.548	17428	13734	0.788	0.04	
7.614	18658	10460	0.561	0.04	
7.661	13680	16558	1.210	0.03	
7.693	27867	27170	0.975	0.07	
7.728	37693	27462	0.729	0.09	
7.767	14557	12147	0.834	0.03	
7.812	41628	20856	0.501	0.10	
7.899	87001	71925	0.827	0.22	8 Aroclor 1260
7.960	18221	11941	0.655	0.04	
8.049	52312	39481	0.755	0.13	
8.272	71798	62196	0.866	0.18	
8.570	2208442	1892518	0.857	5.65	$ 12 Decachlorobiphenyl
9.050	9994	6223	0.623	0.02	
9.166	30308	23509	0.776	0.07	
9.457	10304	7027	0.682	0.02	
	39060844	32596959		100.000	

Total unknown % area = 52

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042318.b\042318011.D
Lab Smp Id: 40157937004 Client Smp ID: TD5-170828-01-PKSD-
Inj Date : 23-APR-2018 15:34
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157937004 x4,
Misc Info : 17718,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042318.b\pcba030618.m
Meth Date : 24-Apr-2018 13:17 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	10.001	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	2263185	0.01836	37			

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	1402112	0.59843	1200	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1299323	0.31307	630	0.00- 20.00	92.67	BA
4.812	4.812	0.000	944571	0.46529	930	0.00- 20.00	67.37	BA
4.878	4.879	-0.001	2276971	0.45201	900	0.00- 20.00	162.40	BA
5.037	5.038	-0.001	1067660	0.29752	590	0.00- 20.00	76.15	BA
Average of Peak Concentrations =					850			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	1299816	0.24828	500	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	967910	0.22504	450	0.00- 20.00	74.47	BA
5.508	5.510	-0.002	1655637	0.21319	430	0.00- 20.00	127.37	BA
6.023	6.027	-0.004	1013173	0.20806	420	0.00- 20.00	77.95	BA
6.298	6.299	-0.001	1451183	0.22302	440	0.00- 20.00	111.65	BA
Average of Peak Concentrations =					450			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	CO
7.003	7.006	-0.003	330593	0.03301	66	0.00- 20.00	24.91	CO
7.249	7.251	-0.002	190125	0.03978	80	0.00- 20.00	13.10	CO
7.442	7.443	-0.001	143221	0.04913	98	0.00- 20.00	9.87	CO
7.898	7.901	-0.003	87001	0.03297	66	0.00- 20.00	6.00	CO
Average of Peak Concentrations =					77			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	2208441	0.02016	40			

QC Flag Legend

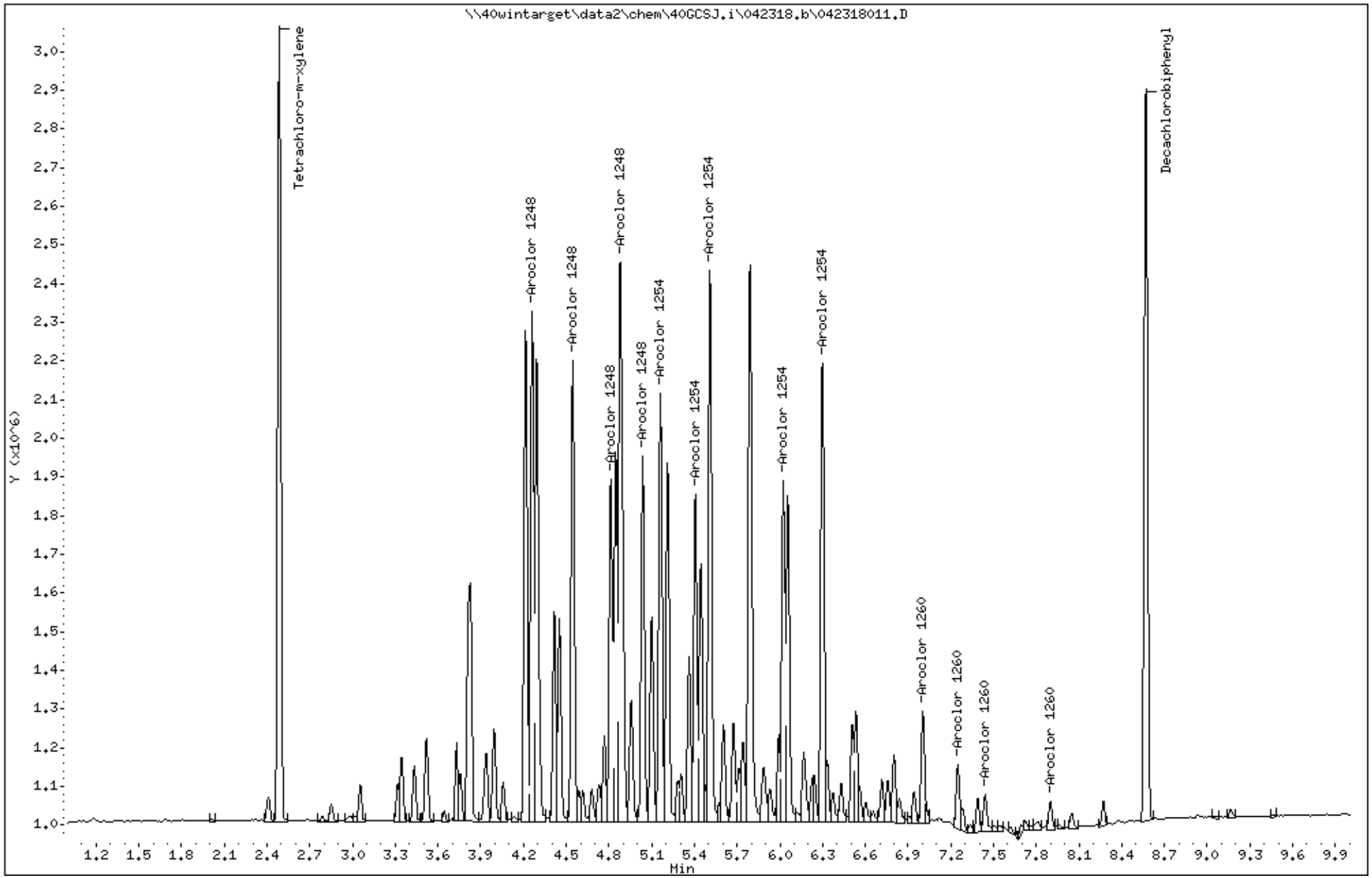
M - Compound response manually integrated.

Review Codes Legend

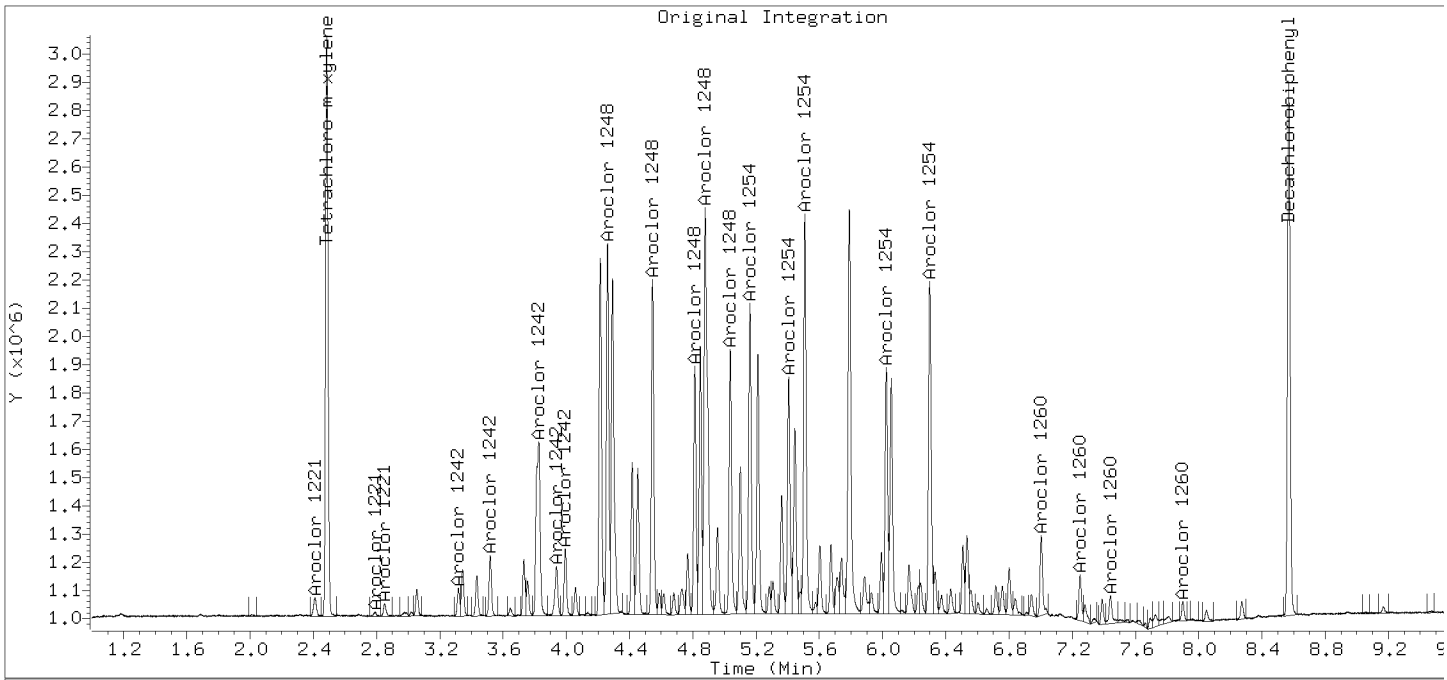
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

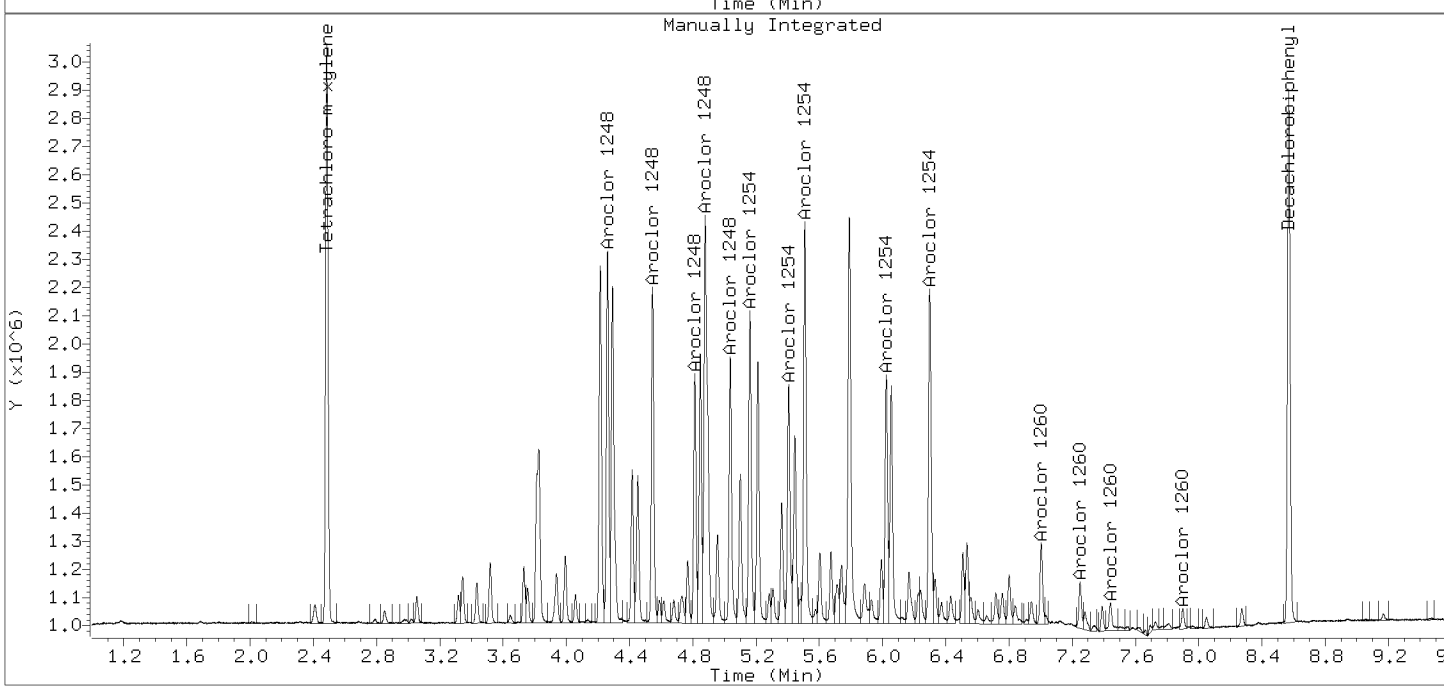
Data File: \\40wintarget\data2\chem\40GCSJ.i\042318.b\042318011.D
Date : 23-APR-2018 15:34
Client ID: TD5-170828-01-PKSD-
Sample Info: 40157937004 x4,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\042318.b/042318011.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 23-APR-2018 15:34 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157937004





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	105445	0	
Aroclor 1016	105445	0	
Aroclor 1016	105445	0	
Aroclor 1016	105445	0	
Aroclor 1016	105445	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	54578	0	
Aroclor 1232	54578	0	
Aroclor 1232	54578	0	
Aroclor 1232	54578	0	

Aroclor 1232	54578	0	
Aroclor 1242	105445	0	
Aroclor 1242	105445	0	
Aroclor 1242	105445	0	
Aroclor 1242	105445	0	
Aroclor 1242	105445	0	
Aroclor 1248	1386925	1402112	BA
Aroclor 1248	1386925	1402112	BA
Aroclor 1248	1386925	1402112	BA
Aroclor 1248	1386925	1402112	BA
Aroclor 1248	1386925	1402112	BA
Aroclor 1254	1275308	1299816	BA
Aroclor 1254	1275308	1299816	BA
Aroclor 1254	1275308	1299816	BA
Aroclor 1254	1275308	1299816	BA
Aroclor 1254	1275308	1299816	BA
Aroclor 1260	1416805	0	CO
Aroclor 1260	1416805	0	CO
Aroclor 1260	1416805	0	CO
Aroclor 1260	1416805	0	CO
Aroclor 1260	1416805	0	CO
Tetrachloro-m-xylene	2263185	2263185	
Decachlorobiphenyl	2208441	2208441	

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SAMPLE NO.

TD5-170828-01-PKSD-06

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/04/2017 14:05
Matrix: Tissue SDG No.: 40157937
Date Extracted: 04/20/2018 07:02
Lab Sample ID: 40157937005
Date Analyzed: 04/23/2018 15:50
Lab File ID: 042318.B\042318012.D
Initial wt/vol: 10.0175 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)	<45.5	U
11104-28-2	PCB-1221 (Aroclor 1221)	<45.5	U
11141-16-5	PCB-1232 (Aroclor 1232)	<45.5	U
53469-21-9	PCB-1242 (Aroclor 1242)	<45.5	U
12672-29-6	PCB-1248 (Aroclor 1248)	1200	
11097-69-1	PCB-1254 (Aroclor 1254)	624	
11096-82-5	PCB-1260 (Aroclor 1260)	94.7	J
1336-36-3	PCB, Total	1920	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042318.b\042318012.D
Lab Smp Id: 40157937005 Client Smp ID: TD5-170828-01-PKSD-
Inj Date : 23-APR-2018 15:50
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157937005 x4,
Misc Info : 17718,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042318.b\pcba030618.m
Meth Date : 24-Apr-2018 13:17 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 12
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	10.018	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.186	13298	7411	0.557	0.02		
1.680	9536	9675	1.015	0.01		
1.800	11105	7323	0.659	0.02		
2.409	93686	71185	0.760	0.17		
2.484	2865636	2709142	0.945	5.47	$ 2 Tetrachloro-m-xylene	
2.789	23874	18758	0.786	0.04		
2.852	64308	54492	0.847	0.12		
2.977	28835	16027	0.556	0.05		
3.020	15467	16318	1.055	0.02		
3.054	121474	109822	0.904	0.23		
3.317	126487	125319	0.991	0.24		
3.345	216196	194959	0.902	0.41		
3.433	190512	183440	0.963	0.36		
3.519	302542	272489	0.901	0.57		
3.643	38918	30863	0.793	0.07		
3.731	202454	201032	0.993	0.38		
3.755	138786	125067	0.901	0.26		
3.825	1285511	756818	0.589	2.45		
3.938	288865	225758	0.782	0.55		
3.993	312427	282116	0.903	0.59		
4.058	139290	128300	0.921	0.26		
4.136	17056	15828	0.928	0.03		
4.215	1835776	1711037	0.932	3.50		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.260	1815956	1684226	0.927	3.46	6 Aroclor 1248
4.292	1888963	1447845	0.766	3.60	
4.417	702488	646099	0.920	1.34	
4.452	775357	687543	0.887	1.48	
4.545	1781941	1601441	0.899	3.40	6 Aroclor 1248
4.588	111721	100486	0.899	0.21	
4.617	106233	86281	0.812	0.20	
4.680	118116	102928	0.871	0.22	
4.730	183137	126005	0.688	0.34	
4.768	305615	285274	0.933	0.58	
4.812	1363097	1254111	0.920	2.60	6 Aroclor 1248
4.847	1279619	1199874	0.938	2.44	
4.879	3330719	2217733	0.666	6.86	6 Aroclor 1248
4.957	486287	388878	0.800	0.92	
5.037	1710294	1506679	0.881	3.26	6 Aroclor 1248
5.100	818162	683102	0.835	1.56	
5.161	1810735	1563717	0.864	3.45	7 Aroclor 1254
5.212	1422601	1232042	0.866	2.71	
5.282	145944	135954	0.932	0.27	
5.308	201259	148981	0.740	0.38	
5.362	647992	580123	0.895	1.23	
5.406	1299786	1126848	0.867	2.48	7 Aroclor 1254
5.446	1052244	869316	0.826	2.01	
5.481	101935	110279	1.082	0.19	
5.509	2389398	1996074	0.835	4.56	7 Aroclor 1254
5.576	73833	61523	0.833	0.14	
5.603	359206	291701	0.812	0.68	
5.674	455716	415037	0.911	0.87	
5.714	256844	176162	0.686	0.49	
5.740	387480	285861	0.738	0.74	
5.789	2697251	1986506	0.736	5.15	
5.886	286659	177620	0.620	0.54	
5.930	164140	104249	0.635	0.31	
5.993	363459	331552	0.912	0.69	
6.025	1341805	1191172	0.888	2.56	7 Aroclor 1254
6.055	1376765	1126343	0.818	2.62	
6.121	49739	28047	0.564	0.09	
6.168	370401	263092	0.710	0.70	
6.224	127926	137594	1.076	0.24	
6.239	196585	148507	0.755	0.37	
6.299	2155562	1749250	0.812	4.11	7 Aroclor 1254
6.332	264010	224742	0.851	0.50	
6.372	133363	95594	0.717	0.25	
6.431	177549	124080	0.699	0.33	
6.508	728255	682361	0.937	1.39	
6.535	410261	357628	0.872	0.78	
6.560	163173	139647	0.856	0.31	
6.603	78246	61731	0.789	0.14	
6.659	53149	40521	0.762	0.10	
6.716	175256	142544	0.813	0.33	
6.758	174362	148212	0.850	0.33	
6.801	280237	235033	0.839	0.53	
6.840	133994	86685	0.647	0.25	
6.909	25476	20677	0.812	0.04	
6.941	135286	121193	0.896	0.25	
7.003	388959	348207	0.895	0.74	8 Aroclor 1260
7.032	75647	59987	0.793	0.14	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.250	239979	207649	0.865	0.45	8 Aroclor 1260
7.280	118543	81063	0.684	0.22	
7.336	38303	19684	0.514	0.07	
7.388	171047	154416	0.903	0.32	
7.441	187347	145883	0.779	0.35	8 Aroclor 1260
7.501	32755	16702	0.510	0.06	
7.546	17323	15058	0.869	0.03	
7.576	12311	10467	0.850	0.02	
7.619	33232	15635	0.470	0.06	
7.663	15153	16475	1.087	0.02	
7.693	41004	35888	0.875	0.07	
7.727	47122	36111	0.766	0.09	
7.810	53404	33410	0.626	0.10	
7.898	96120	77884	0.810	0.18	8 Aroclor 1260
7.961	23053	11379	0.494	0.04	
8.049	89970	73093	0.812	0.17	
8.274	90482	76542	0.846	0.17	
8.374	9682	8013	0.828	0.01	
8.570	2740246	2426043	0.885	5.23	$ 12 Decachlorobiphenyl
8.723	14866	9990	0.672	0.02	
9.168	25163	18934	0.752	0.04	
	52349336	43908395		100.000	

Total unknown % area = 51

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042318.b\042318012.D
Lab Smp Id: 40157937005 Client Smp ID: TD5-170828-01-PKSD-
Inj Date : 23-APR-2018 15:50
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157937005 x4,
Misc Info : 17718,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042318.b\pcba030618.m
Meth Date : 24-Apr-2018 13:17 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 12
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	10.018	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	2865635	0.02324	46			
3 Aroclor 1242					CAS #: 53469-21-9			
Operator disabled compound identification.								
4 Aroclor 1232					CAS #: 1114-16-5			
Operator disabled compound identification.								

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	1815955	0.77506	1500	0.00- 20.00	100.00(M)	BA
4.544	4.546	-0.002	1781940	0.42935	860	0.00- 20.00	98.13	BA
4.812	4.812	0.000	1363097	0.67145	1300	0.00- 20.00	75.06	BA
4.878	4.879	-0.001	3330718	0.66119	1300	0.00- 20.00	183.41	BA
5.036	5.038	-0.002	1710293	0.47660	950	0.00- 20.00	94.18	BA
Average of Peak Concentrations =					1200			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	1810734	0.34587	690	0.00- 20.00	100.00(M)	CO
5.406	5.408	-0.002	1299786	0.30220	600	0.00- 20.00	71.78	CO
5.508	5.510	-0.002	2389397	0.30767	610	0.00- 20.00	131.96	CO
6.024	6.027	-0.003	1341804	0.27554	550	0.00- 20.00	74.10	CO
6.298	6.299	-0.001	2155561	0.33126	660	0.00- 20.00	119.04	CO
Average of Peak Concentrations =					620			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
7.002	7.006	-0.004	388959	0.03884	78	0.00- 20.00	18.04	BA
7.249	7.251	-0.002	239979	0.05021	100	0.00- 20.00	11.13	BA
7.440	7.443	-0.003	187346	0.06427	130	0.00- 20.00	8.69	BA
7.897	7.901	-0.004	96119	0.03643	73	0.00- 20.00	4.46	BA
Average of Peak Concentrations =					95			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	2740246	0.02501	50			

QC Flag Legend

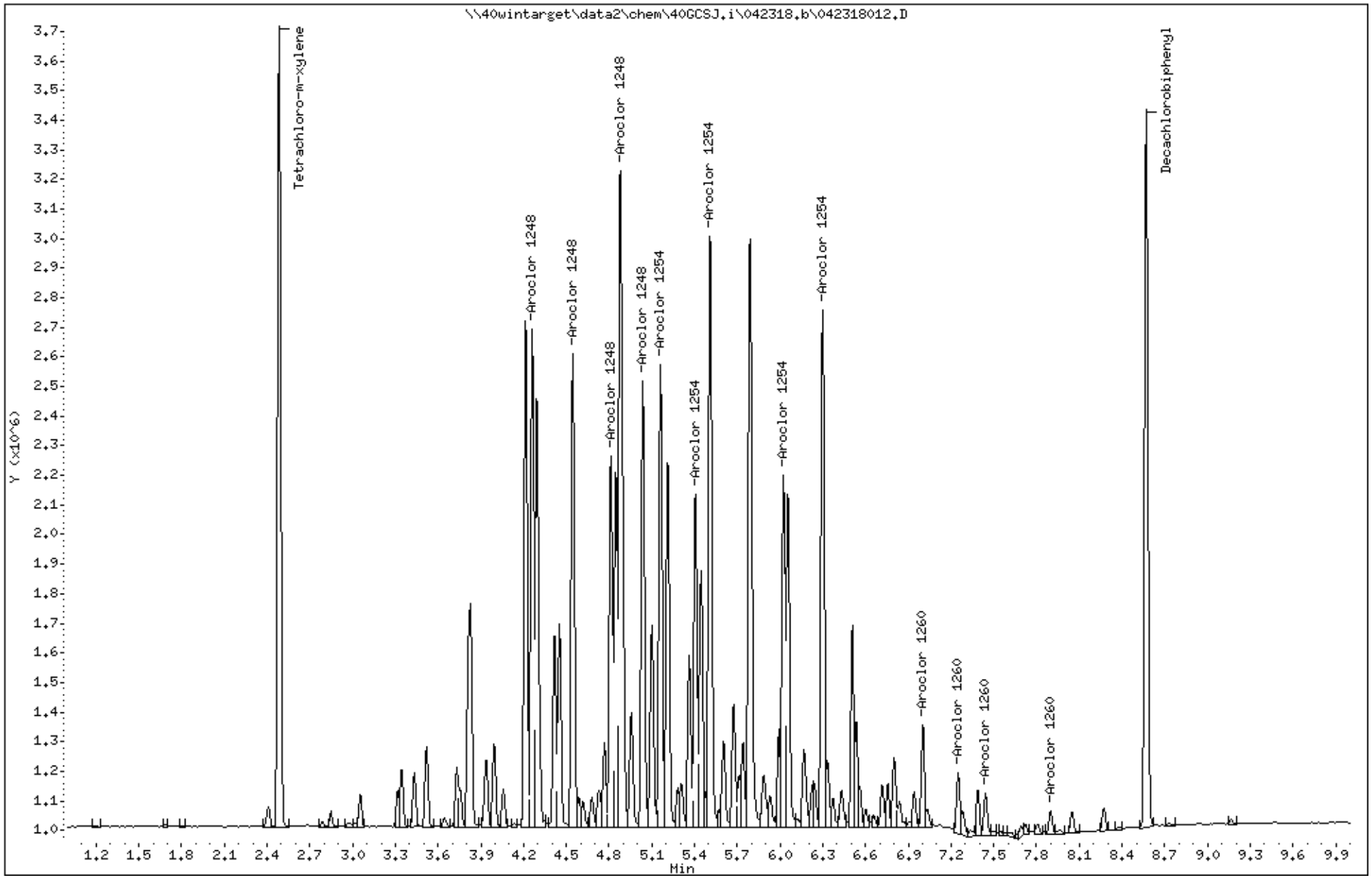
M - Compound response manually integrated.

Review Codes Legend

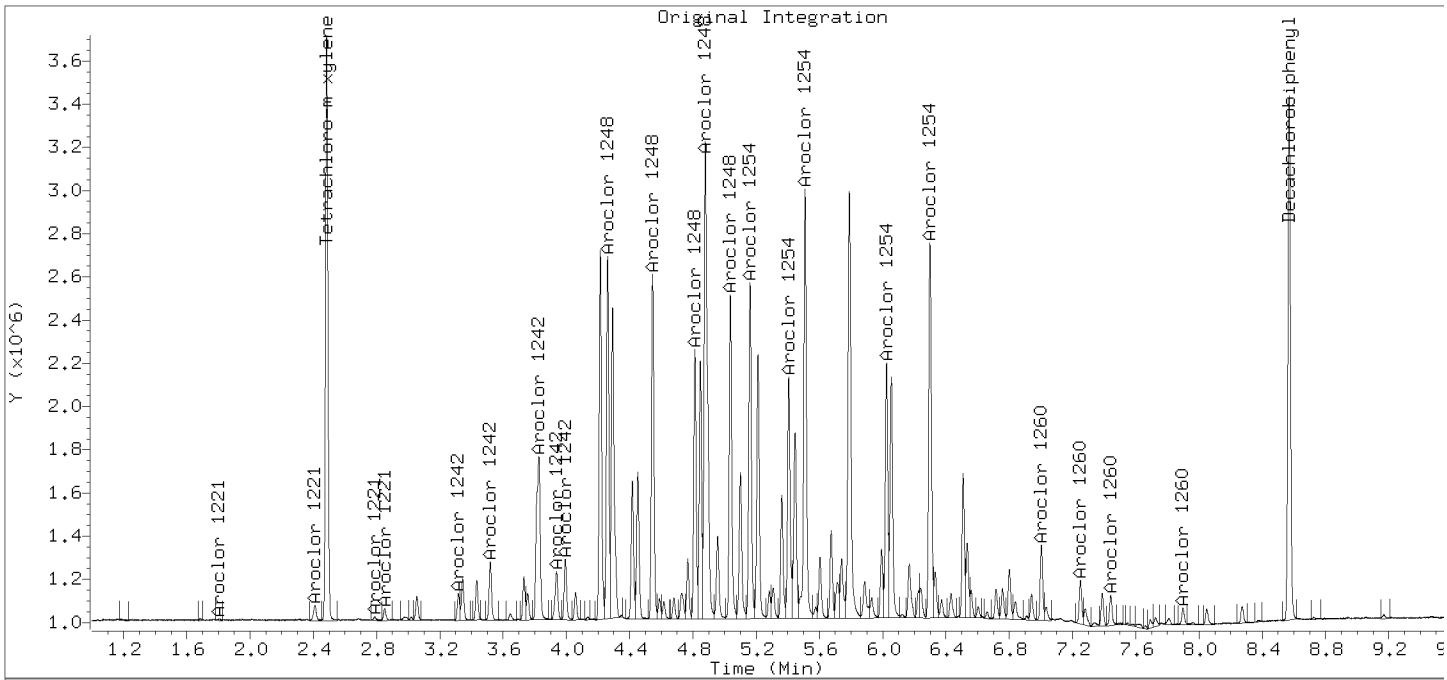
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

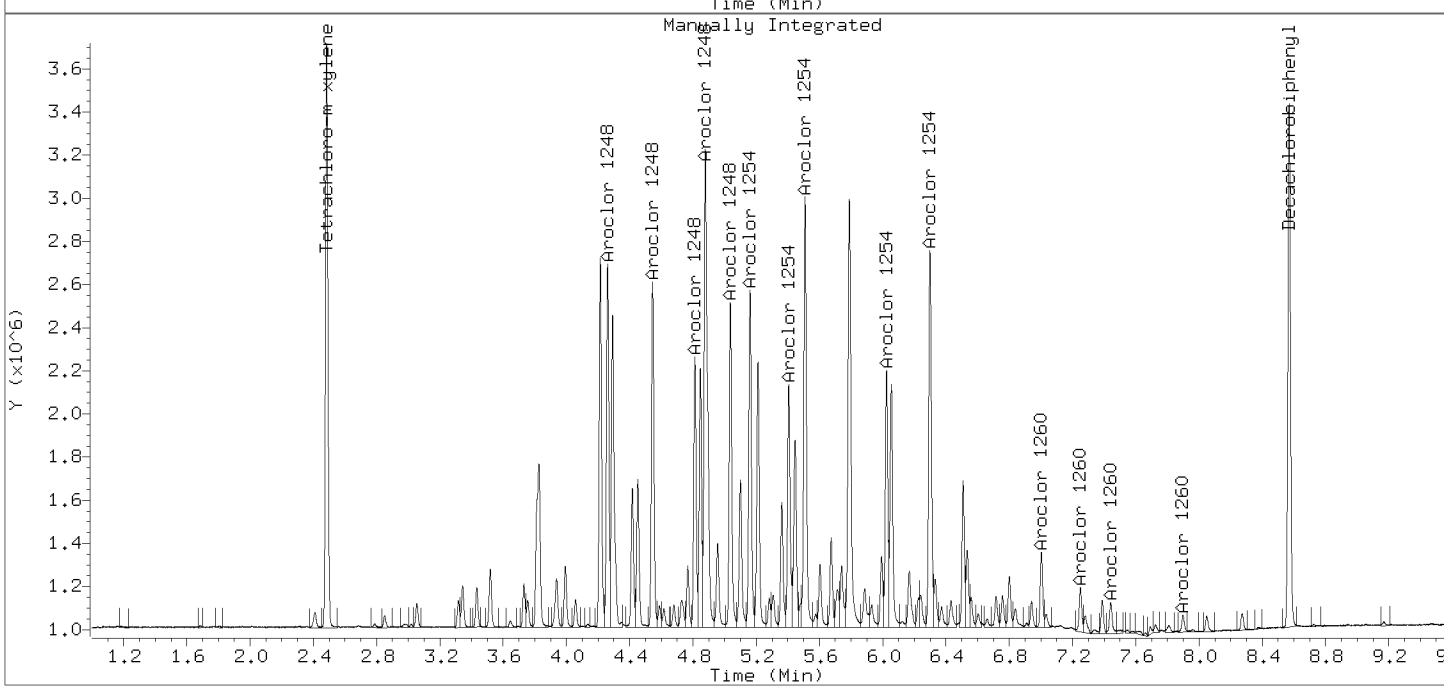
Data File: \\40wintarget\data2\chem\40GCSJ.i\042318.b\042318012.D
Date : 23-APR-2018 15:50
Client ID: TD5-170828-01-PKSD-
Sample Info: 40157937005 x4,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\042318.b/042318012.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 23-APR-2018 15:50 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157937005





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	126486	0	
Aroclor 1016	126486	0	
Aroclor 1016	126486	0	
Aroclor 1016	126486	0	
Aroclor 1016	126486	0	
Aroclor 1221	11104	0	
Aroclor 1221	11104	0	
Aroclor 1221	11104	0	
Aroclor 1221	11104	0	
Aroclor 1221	11104	0	
Aroclor 1232	64308	0	
Aroclor 1232	64308	0	
Aroclor 1232	64308	0	
Aroclor 1232	64308	0	

Aroclor 1232	64308	0	
Aroclor 1242	126486	0	
Aroclor 1242	126486	0	
Aroclor 1242	126486	0	
Aroclor 1242	126486	0	
Aroclor 1242	126486	0	
Aroclor 1248	1796324	1815955	BA
Aroclor 1248	1796324	1815955	BA
Aroclor 1248	1796324	1815955	BA
Aroclor 1248	1796324	1815955	BA
Aroclor 1248	1796324	1815955	BA
Aroclor 1254	1785849	1810734	CO
Aroclor 1254	1785849	1810734	CO
Aroclor 1254	1785849	1810734	CO
Aroclor 1254	1785849	1810734	CO
Aroclor 1254	1785849	1810734	CO
Aroclor 1260	2119276	0	BA
Aroclor 1260	2119276	0	BA
Aroclor 1260	2119276	0	BA
Aroclor 1260	2119276	0	BA
Aroclor 1260	2119276	0	BA
Tetrachloro-m-xylene	2865635	2865635	
Decachlorobiphenyl	2740246	2740246	

==========

SAMPLE NO.

TD5-170828-01-PKSD-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: 10/04/2017 14:05
Matrix: Tissue SDG No.: 40157937
Date Extracted: 04/20/2018 07:02
Lab Sample ID: 40157937006
Date Analyzed: 04/23/2018 16:06
Lab File ID: 042318.B\042318013.D
Initial wt/vol: 10.0036 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)	<45.6	U
11104-28-2	PCB-1221 (Aroclor 1221)	<45.6	U
11141-16-5	PCB-1232 (Aroclor 1232)	<45.6	U
53469-21-9	PCB-1242 (Aroclor 1242)	<45.6	U
12672-29-6	PCB-1248 (Aroclor 1248)	1070	
11097-69-1	PCB-1254 (Aroclor 1254)	604	
11096-82-5	PCB-1260 (Aroclor 1260)	87.7	J
1336-36-3	PCB, Total	1760	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042318.b\042318013.D
Lab Smp Id: 40157937006 Client Smp ID: TD5-170828-01-PKSD-
Inj Date : 23-APR-2018 16:06
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157937006 x4,
Misc Info : 17718,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042318.b\pcba030618.m
Meth Date : 24-Apr-2018 13:17 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 13
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	10.004	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.315	10430	9909	0.950	0.02		
2.411	116468	90220	0.775	0.23		
2.485	2865346	2675053	0.934	5.76	$ 2 Tetrachloro-m-xylene	
2.790	18783	20021	1.066	0.03		
2.851	68610	60568	0.883	0.13		
2.978	36953	19538	0.529	0.07		
3.020	19399	17348	0.894	0.03		
3.054	158462	145890	0.921	0.31		
3.317	143837	136626	0.950	0.28		
3.344	227059	210439	0.927	0.45		
3.433	232273	213537	0.919	0.46		
3.519	326332	296090	0.907	0.65		
3.647	43005	34100	0.793	0.08		
3.732	193923	190217	0.981	0.39		
3.755	128558	115210	0.896	0.25		
3.826	1181437	686508	0.581	2.37		
3.937	296493	226440	0.764	0.59		
3.994	283221	256599	0.906	0.56		
4.058	136174	124752	0.916	0.27		
4.138	20972	17023	0.812	0.04		
4.214	1696306	1534507	0.905	3.41		
4.261	1700977	1566955	0.921	3.42	6 Aroclor 1248	BA
4.292	1765112	1388695	0.787	3.55		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.347	38013	26949	0.709	0.07	
4.417	652102	604805	0.927	1.31	
4.453	686052	594487	0.867	1.38	
4.545	1604690	1474264	0.919	3.22	6 Aroclor 1248
4.589	109127	100310	0.919	0.21	
4.617	114997	87068	0.757	0.23	
4.681	125989	105172	0.835	0.25	
4.731	179737	122299	0.680	0.36	
4.768	307034	280431	0.913	0.61	
4.813	1211631	1126030	0.929	2.43	6 Aroclor 1248
4.847	1243352	1159454	0.933	2.50	
4.879	2980966	1909898	0.641	6.48	6 Aroclor 1248
4.956	474498	374166	0.789	0.95	
5.037	1356678	1228583	0.906	2.72	6 Aroclor 1248
5.100	809410	690879	0.854	1.62	
5.162	1815824	1571573	0.865	3.65	7 Aroclor 1254
5.211	1452803	1229306	0.846	2.92	
5.283	160984	145309	0.903	0.32	
5.307	207613	161503	0.778	0.41	
5.362	628094	551212	0.878	1.26	
5.406	1285236	1119338	0.871	2.58	7 Aroclor 1254
5.446	1049357	880418	0.839	2.11	
5.479	97940	107120	1.094	0.19	
5.509	2224218	1892025	0.851	4.47	7 Aroclor 1254
5.575	80798	68629	0.849	0.16	
5.603	338525	278556	0.823	0.68	
5.675	403028	347265	0.862	0.81	
5.712	257876	180406	0.700	0.51	
5.740	391713	281181	0.718	0.78	
5.790	2598269	1938402	0.746	5.22	
5.887	299979	179305	0.598	0.60	
5.931	168739	109190	0.647	0.33	
5.994	338623	303774	0.897	0.68	
6.024	1344064	1147048	0.853	2.70	7 Aroclor 1254
6.054	1354058	1110739	0.820	2.72	
6.126	49254	30614	0.622	0.09	
6.168	353747	244498	0.691	0.71	
6.226	277826	149687	0.539	0.55	
6.299	1967546	1556744	0.791	3.95	7 Aroclor 1254
6.332	239699	211511	0.882	0.48	
6.371	139230	91629	0.658	0.28	
6.431	184050	127232	0.691	0.37	
6.509	386968	333485	0.862	0.77	
6.535	403523	351762	0.872	0.81	
6.560	141648	123604	0.873	0.28	
6.604	107773	65425	0.607	0.21	
6.660	62277	41824	0.672	0.12	
6.717	157216	120111	0.764	0.31	
6.758	163770	132328	0.808	0.32	
6.800	278935	230852	0.828	0.56	
6.838	127264	82137	0.645	0.25	
6.911	27448	20798	0.758	0.05	
6.942	134412	112553	0.837	0.27	
7.004	380769	328767	0.863	0.76	8 Aroclor 1260
7.037	39507	40845	1.034	0.07	
7.121	31108	17487	0.562	0.06	
7.250	223731	187158	0.837	0.45	8 Aroclor 1260

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.281	111703	75499	0.676	0.22	
7.341	38564	22278	0.578	0.07	
7.387	100549	92736	0.922	0.20	
7.442	167600	122868	0.733	0.33	8 Aroclor 1260
7.491	37146	18150	0.489	0.07	
7.551	22390	17451	0.779	0.04	
7.615	37687	19112	0.507	0.07	
7.661	20442	20431	0.999	0.04	
7.696	39155	31228	0.798	0.07	
7.726	41184	31877	0.774	0.08	
7.811	56462	26782	0.474	0.11	
7.900	87305	70558	0.808	0.17	8 Aroclor 1260
8.048	74395	55105	0.741	0.14	
8.274	78886	69768	0.884	0.15	
8.377	13351	10428	0.781	0.02	
8.569	2817019	2452446	0.871	5.66	$ 12 Decachlorobiphenyl
9.167	29093	23306	0.801	0.05	
	49712782	41284413		100.000	

Total unknown % area = 51

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042318.b\042318013.D
Lab Smp Id: 40157937006 Client Smp ID: TD5-170828-01-PKSD-
Inj Date : 23-APR-2018 16:06
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157937006 x4,
Misc Info : 17718,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042318.b\pcba030618.m
Meth Date : 24-Apr-2018 13:17 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 13
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	10.004	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	2865345	0.02324	46			

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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	1700976	0.72599	1400	0.00- 20.00	100.00(M)	BA
4.544	4.546	-0.002	1604690	0.38664	770	0.00- 20.00	94.34	BA
4.812	4.812	0.000	1211630	0.59684	1200	0.00- 20.00	71.23	BA
4.879	4.879	0.000	2980966	0.59176	1200	0.00- 20.00	175.25	BA
5.037	5.038	-0.001	1356677	0.37806	760	0.00- 20.00	79.76	BA
Average of Peak Concentrations =					1100			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	1815824	0.34685	690	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	1285236	0.29882	600	0.00- 20.00	70.78	BA
5.509	5.510	-0.001	2224218	0.28640	570	0.00- 20.00	122.49	BA
6.023	6.027	-0.004	1344064	0.27601	550	0.00- 20.00	74.02	BA
6.299	6.299	0.000	1967546	0.30237	600	0.00- 20.00	108.36	BA
Average of Peak Concentrations =					600			
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	380769	0.03802	76	0.00- 20.00	21.33	CO
7.250	7.251	-0.001	223730	0.04681	94	0.00- 20.00	11.37	CO
7.442	7.443	-0.001	167600	0.05749	110	0.00- 20.00	8.52	CO
7.900	7.901	-0.001	87304	0.03309	66	0.00- 20.00	4.44	CO
Average of Peak Concentrations =					88			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	2817019	0.02571	51			

QC Flag Legend

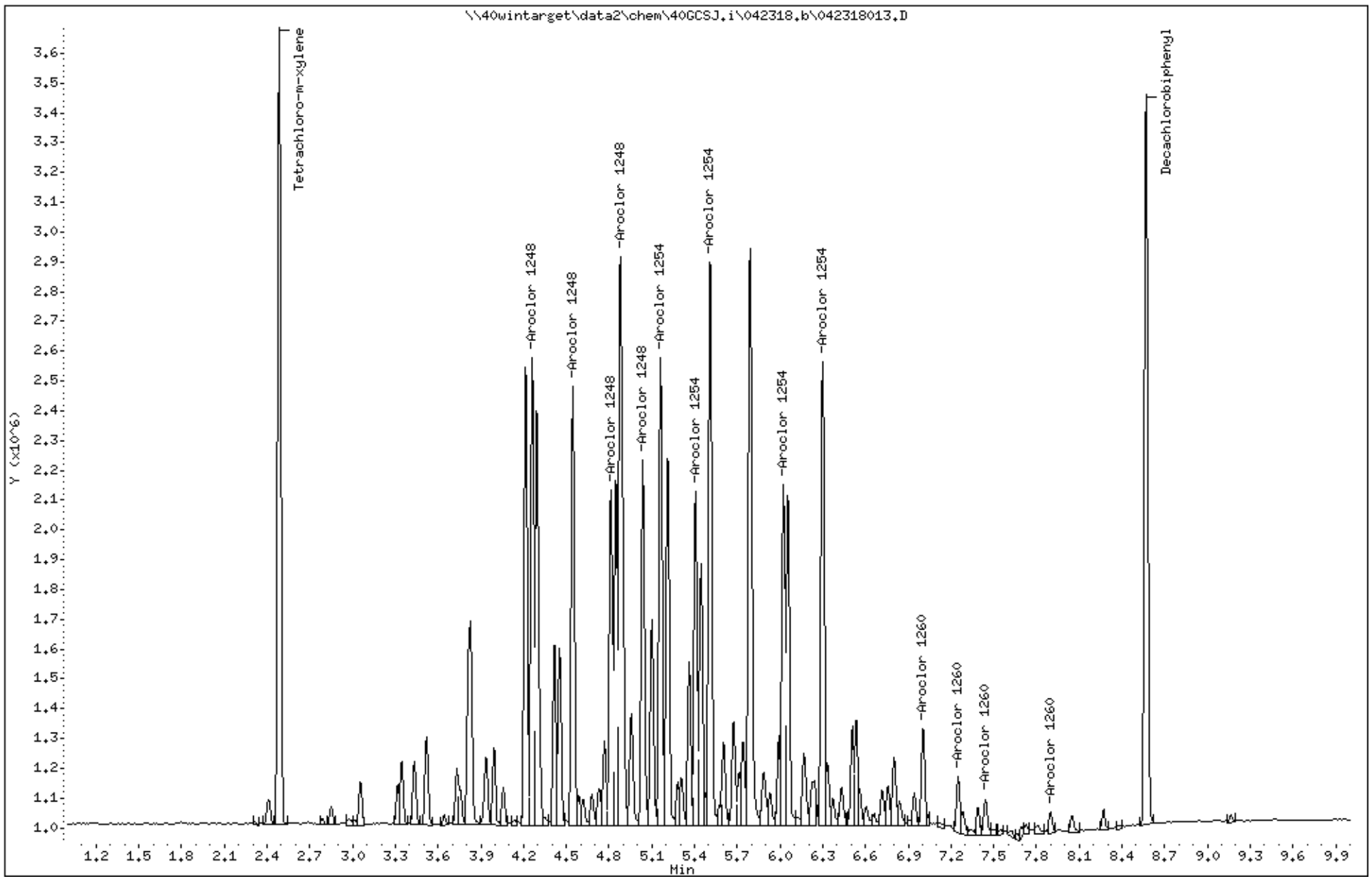
M - Compound response manually integrated.

Review Codes Legend

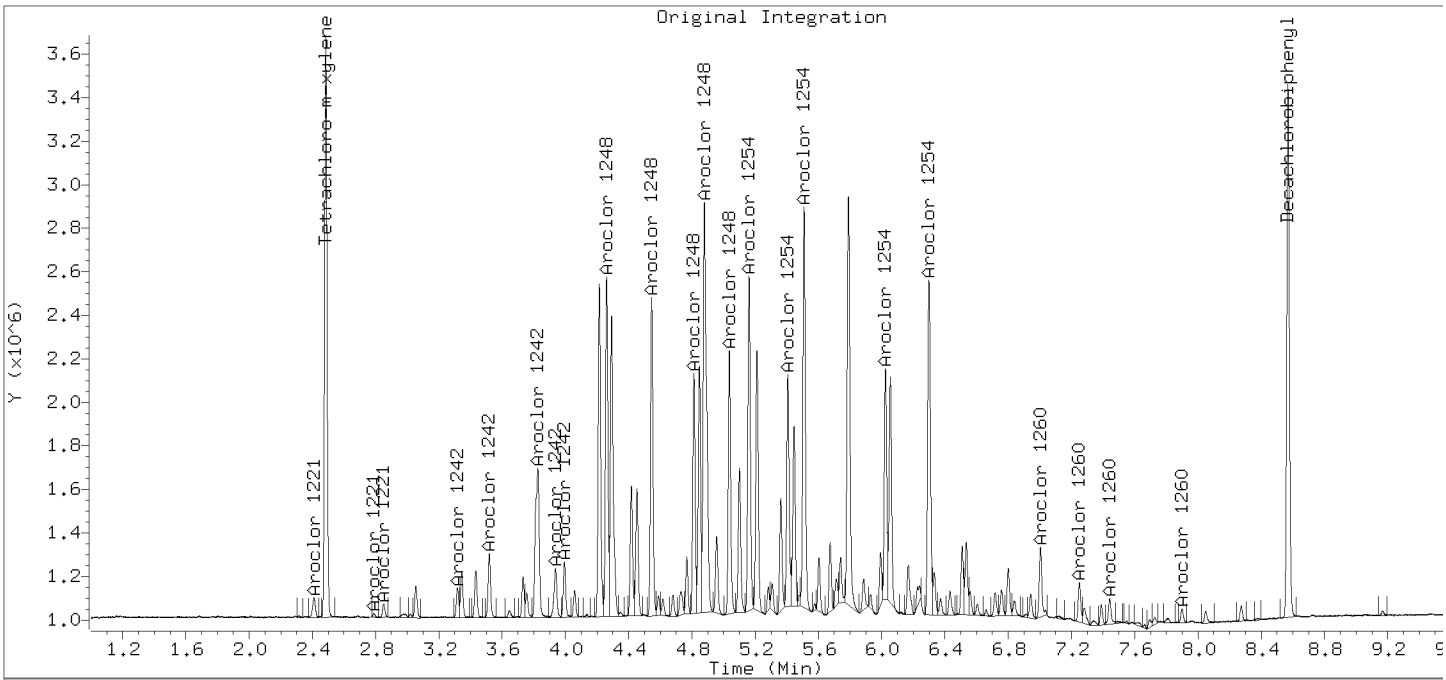
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

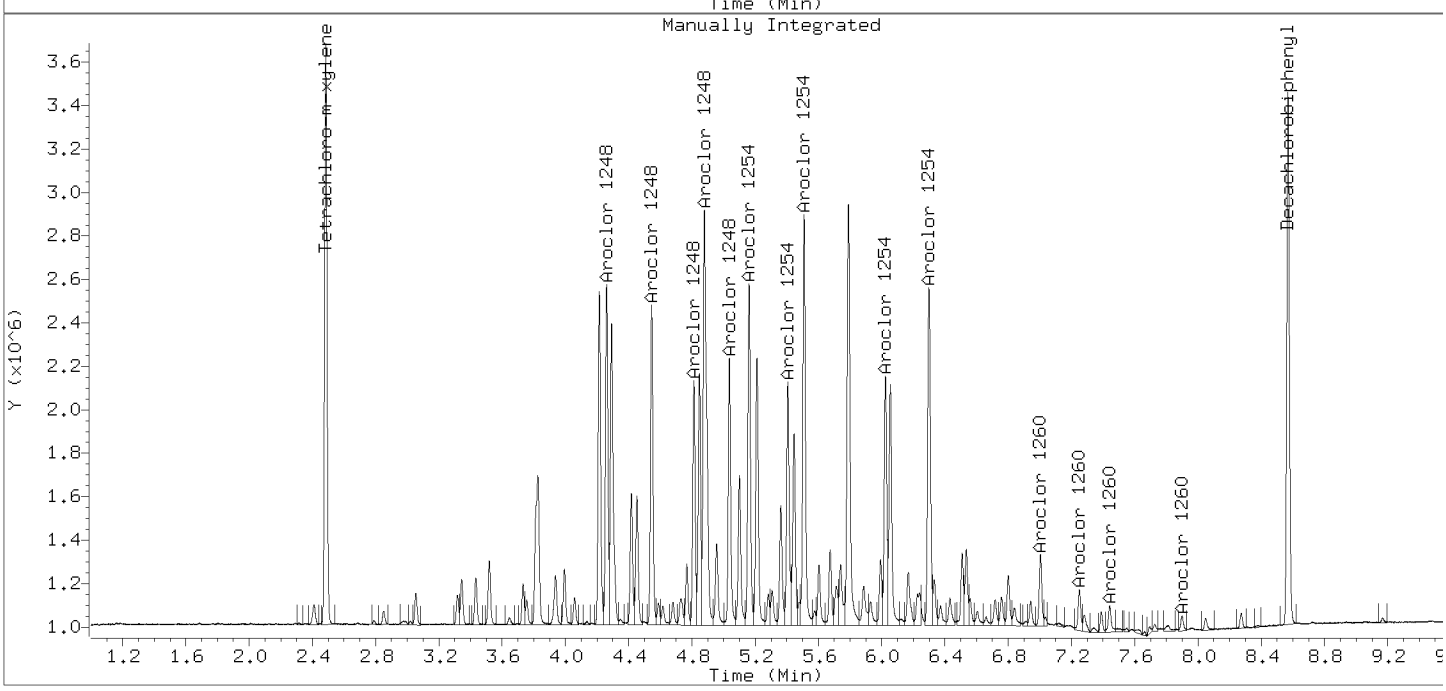
Data File: \\40wintarget\data2\chem\40GCSJ.i\042318.b\042318013.D
Date : 23-APR-2018 16:06
Client ID: TD5-170828-01-PKSD-
Sample Info: 40157937006 x4,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\042318.b/042318013.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 23-APR-2018 16:06 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157937006





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	143837	0	
Aroclor 1016	143837	0	
Aroclor 1016	143837	0	
Aroclor 1016	143837	0	
Aroclor 1016	143837	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	68609	0	
Aroclor 1232	68609	0	
Aroclor 1232	68609	0	
Aroclor 1232	68609	0	

Aroclor 1232	68609	0	
Aroclor 1242	143837	0	
Aroclor 1242	143837	0	
Aroclor 1242	143837	0	
Aroclor 1242	143837	0	
Aroclor 1242	143837	0	
Aroclor 1248	1684487	1700976	BA
Aroclor 1248	1684487	1700976	BA
Aroclor 1248	1684487	1700976	BA
Aroclor 1248	1684487	1700976	BA
Aroclor 1248	1684487	1700976	BA
Aroclor 1254	1704681	1815824	BA
Aroclor 1254	1704681	1815824	BA
Aroclor 1254	1704681	1815824	BA
Aroclor 1254	1704681	1815824	BA
Aroclor 1254	1704681	1815824	BA
Aroclor 1260	1914396	0	CO
Aroclor 1260	1914396	0	CO
Aroclor 1260	1914396	0	CO
Aroclor 1260	1914396	0	CO
Aroclor 1260	1914396	0	CO
Tetrachloro-m-xylene	2865345	2865345	
Decachlorobiphenyl	2817019	2817019	

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SAMPLE NO.

TD5-170828-01-PKSD-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: 10/04/2017 14:05
Matrix: Tissue SDG No.: 40157937
Date Extracted: 04/20/2018 07:02
Lab Sample ID: 40157937007
Date Analyzed: 04/23/2018 16:22
Lab File ID: 042318.B\042318014.D
Initial wt/vol: 9.9924 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)	92.7	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)	988	
11097-69-1	PCB-1254 (Aroclor 1254)	564	
11096-82-5	PCB-1260 (Aroclor 1260)	88.9	J
1336-36-3	PCB, Total	1730	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042318.b\042318014.D
Lab Smp Id: 40157937007 Client Smp ID: TD5-170828-01-PKSD-
Inj Date : 23-APR-2018 16:22
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157937007 x3,
Misc Info : 17718,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042318.b\pcba030618.m
Meth Date : 24-Apr-2018 13:17 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 14
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
1.683	13467	9884	0.734	0.02		
1.799	13245	9901	0.748	0.02	1 Aroclor 1221	BA
2.314	14953	12866	0.860	0.02		
2.410	127525	96825	0.759	0.20	1 Aroclor 1221	BA
2.485	3915114	3609566	0.922	6.72	$ 2 Tetrachloro-m-xylene	BA
2.678	14621	10548	0.721	0.02	1 Aroclor 1221	BA
2.790	30582	22706	0.742	0.04	1 Aroclor 1221	BA
2.851	82031	68562	0.836	0.13	1 Aroclor 1221	BA
3.021	24446	21658	0.886	0.03		
3.054	140146	127561	0.910	0.22		
3.317	164138	157110	0.957	0.26		
3.344	299900	270429	0.902	0.47		
3.434	221105	202729	0.917	0.35		
3.518	401114	359257	0.896	0.63		
3.646	42653	35661	0.836	0.06		
3.732	272648	270758	0.993	0.43		
3.756	213521	197869	0.927	0.33		
3.826	1559273	893342	0.573	2.48		
3.937	321369	245412	0.764	0.51		
3.992	363100	321321	0.885	0.57		
4.058	170501	149740	0.878	0.27		
4.134	23222	18285	0.787	0.03		
4.214	2135305	1936505	0.907	3.39		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.260	2205179	2040706	0.925	3.50	6 Aroclor 1248
4.292	2377755	1847487	0.777	3.78	
4.417	844859	799025	0.946	1.34	
4.451	868387	789015	0.909	1.38	
4.545	2025549	1832748	0.905	3.22	6 Aroclor 1248
4.587	150691	135177	0.897	0.23	
4.616	140234	115071	0.821	0.22	
4.680	166196	135197	0.813	0.26	
4.731	231942	150546	0.649	0.36	
4.768	395446	356160	0.901	0.62	
4.812	1456093	1374147	0.944	2.31	6 Aroclor 1248
4.847	1457944	1357898	0.931	2.31	
4.878	3509086	2190887	0.624	5.58	6 Aroclor 1248
4.956	620406	514604	0.829	0.98	
5.036	1605100	1424218	0.887	2.55	6 Aroclor 1248
5.100	1064441	897206	0.843	1.69	
5.161	2213945	1896491	0.857	3.52	7 Aroclor 1254
5.211	1771156	1524576	0.861	2.81	
5.285	211392	183641	0.869	0.33	
5.307	263329	199355	0.757	0.41	
5.362	789264	695648	0.881	1.25	
5.406	1593667	1405408	0.882	2.53	7 Aroclor 1254
5.445	1280394	1064692	0.832	2.03	
5.480	136852	143228	1.047	0.21	
5.510	2819066	2380275	0.844	4.48	7 Aroclor 1254
5.576	106689	88919	0.833	0.16	
5.603	442730	344009	0.777	0.70	
5.674	518719	460282	0.887	0.82	
5.712	327627	230634	0.704	0.52	
5.740	502607	360380	0.717	0.79	
5.790	3237393	2436816	0.753	5.15	
5.886	385515	233422	0.605	0.61	
5.930	204177	146511	0.718	0.32	
5.993	440284	403720	0.917	0.70	
6.023	1670899	1400802	0.838	2.65	7 Aroclor 1254
6.055	1698615	1364255	0.803	2.70	
6.124	56595	33229	0.587	0.09	
6.167	459413	311277	0.678	0.73	
6.226	198015	184666	0.933	0.31	
6.240	236613	197381	0.834	0.37	
6.299	2474935	1979282	0.800	3.93	7 Aroclor 1254
6.332	314293	268308	0.854	0.50	
6.372	183403	120010	0.654	0.29	
6.431	256150	177915	0.695	0.40	
6.509	538914	456705	0.847	0.85	
6.535	508131	441004	0.868	0.80	
6.558	197409	170514	0.864	0.31	
6.602	128448	84084	0.655	0.20	
6.661	88091	53730	0.610	0.14	
6.717	215918	164455	0.762	0.34	
6.756	227783	184701	0.811	0.36	
6.800	359203	298526	0.831	0.57	
6.839	182573	110384	0.605	0.29	
6.909	37345	30401	0.814	0.05	
6.941	177053	147648	0.834	0.28	
7.003	494333	440757	0.892	0.78	8 Aroclor 1260
7.034	49407	53074	1.074	0.07	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.249	273217	238742	0.874	0.43	8 Aroclor 1260
7.280	139057	97591	0.702	0.22	
7.339	49299	28718	0.583	0.07	
7.389	138602	127545	0.920	0.22	
7.441	249348	164374	0.659	0.39	8 Aroclor 1260
7.550	40610	22972	0.566	0.06	
7.576	22894	17058	0.745	0.03	
7.660	24680	25253	1.023	0.03	
7.692	36177	38010	1.051	0.05	
7.726	59057	43003	0.728	0.09	
7.765	26471	16059	0.607	0.04	
7.808	69308	37809	0.546	0.11	
7.897	118611	90941	0.767	0.18	8 Aroclor 1260
7.959	21688	16146	0.744	0.03	
8.047	94040	78796	0.838	0.14	
8.273	100299	87958	0.877	0.15	
8.377	15375	9547	0.621	0.02	
8.568	3604474	3113918	0.864	5.73	$ 12 Decachlorobiphenyl
8.723	15701	14639	0.932	0.02	
8.944	12966	8248	0.636	0.02	
9.052	14625	8656	0.592	0.02	
9.165	49410	38842	0.786	0.07	
	62857539	52204527		100.000	

Total unknown % area = 51

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042318.b\042318014.D
Lab Smp Id: 40157937007 Client Smp ID: TD5-170828-01-PKSD-
Inj Date : 23-APR-2018 16:22
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157937007 x3,
Misc Info : 17718,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042318.b\pcba030618.m
Meth Date : 24-Apr-2018 13:17 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 14
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			
1.803	1.804	-0.001	13245	0.01272	19	0.00- 20.00	100.00(M)	BA
2.410	2.407	0.003	127525	0.23278	350	0.00- 20.00	962.82	BA
2.689	2.688	0.001	14621	0.01057	16	0.00- 20.00	110.39	BA
2.790	2.789	0.001	30582	0.02766	42	0.00- 20.00	230.89	BA
2.851	2.851	0.000	82031	0.02520	38	0.00- 20.00	619.34	BA
Average of Peak Concentrations =					93			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	3915114	0.03175	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	2205178	0.94119	1400	0.00- 20.00	100.00(M)	BA
4.544	4.546	-0.002	2025549	0.48805	730	0.00- 20.00	91.85	BA
4.812	4.812	0.000	1456092	0.71726	1100	0.00- 20.00	66.03	BA
4.878	4.879	-0.001	3509085	0.69660	1000	0.00- 20.00	159.13	BA
5.036	5.038	-0.002	1605099	0.44728	670	0.00- 20.00	72.79	BA
Average of Peak Concentrations =					990			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	2213944	0.42289	630	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	1593666	0.37053	560	0.00- 20.00	71.98	BA
5.509	5.510	-0.001	2819065	0.36300	540	0.00- 20.00	127.33	BA
6.023	6.027	-0.004	1670899	0.34312	520	0.00- 20.00	75.47	BA
6.298	6.299	-0.001	2474935	0.38034	570	0.00- 20.00	111.79	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)	CO
7.002	7.006	-0.004	494333	0.04936	74	0.00- 20.00	21.94	CO
7.249	7.251	-0.002	273216	0.05716	86	0.00- 20.00	11.04	CO
7.441	7.443	-0.002	249347	0.08554	130	0.00- 20.00	10.07	CO
7.897	7.901	-0.004	118611	0.04495	67	0.00- 20.00	4.79	CO
Average of Peak Concentrations =					89			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.568	8.571	-0.003	3604473	0.03290	49			

QC Flag Legend

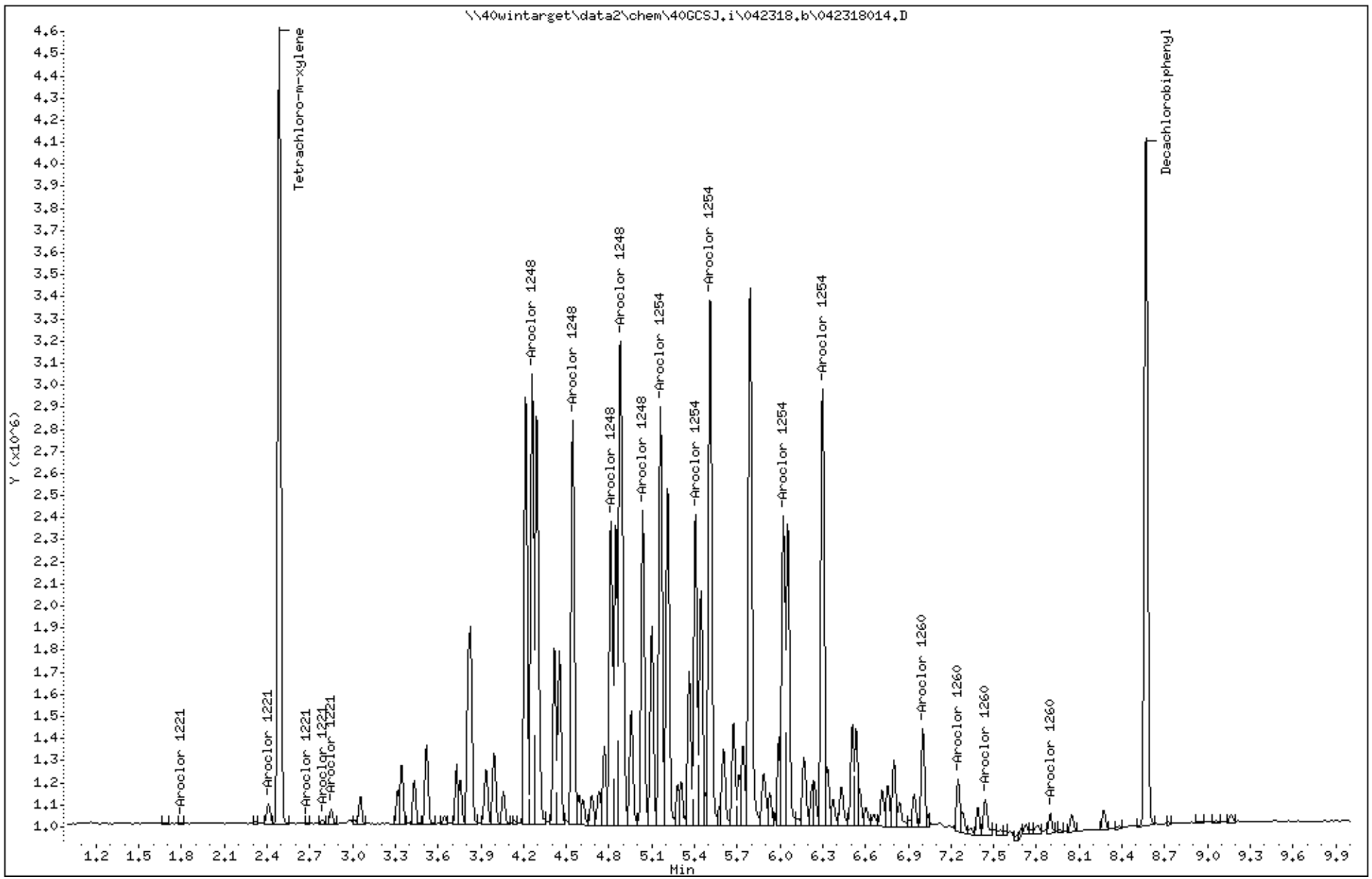
M - Compound response manually integrated.

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\042318.b\042318014.D
Date : 23-APR-2018 16:22
Client ID: TD5-170828-01-PKSD-
Sample Info: 40157937007 x3,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



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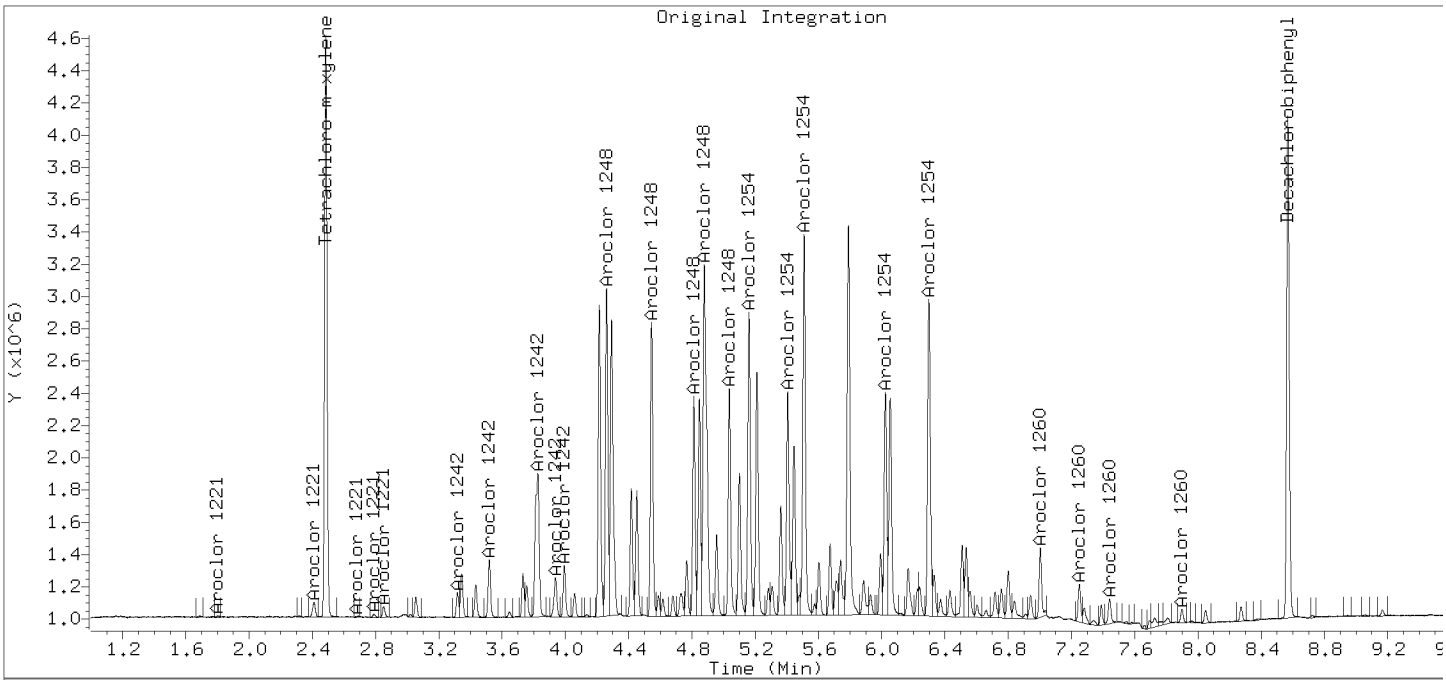
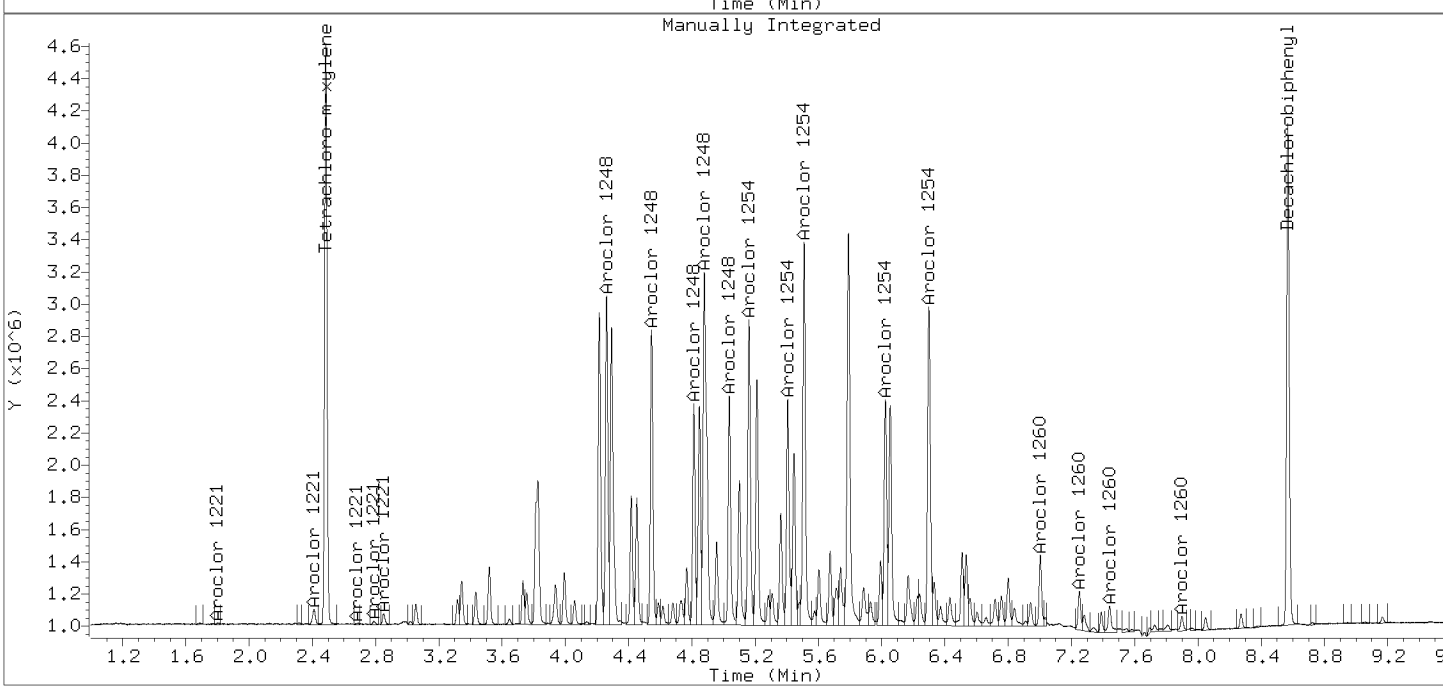
Injection Date: 23-APR-2018 16:22 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157937007





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	160636	0	
Aroclor 1016	160636	0	
Aroclor 1016	160636	0	
Aroclor 1016	160636	0	
Aroclor 1016	160636	0	
Aroclor 1221	12451	13245	BA
Aroclor 1221	12451	13245	BA
Aroclor 1221	12451	13245	BA
Aroclor 1221	12451	13245	BA
Aroclor 1221	12451	13245	BA
Aroclor 1232	75508	0	
Aroclor 1232	75508	0	
Aroclor 1232	75508	0	
Aroclor 1232	75508	0	

Aroclor 1232	75508	0	
Aroclor 1242	160636	0	
Aroclor 1242	160636	0	
Aroclor 1242	160636	0	
Aroclor 1242	160636	0	
Aroclor 1242	160636	0	
Aroclor 1248	2181116	2205178	BA
Aroclor 1248	2181116	2205178	BA
Aroclor 1248	2181116	2205178	BA
Aroclor 1248	2181116	2205178	BA
Aroclor 1248	2181116	2205178	BA
Aroclor 1254	2163576	2213944	BA
Aroclor 1254	2163576	2213944	BA
Aroclor 1254	2163576	2213944	BA
Aroclor 1254	2163576	2213944	BA
Aroclor 1254	2163576	2213944	BA
Aroclor 1260	2425897	0	CO
Aroclor 1260	2425897	0	CO
Aroclor 1260	2425897	0	CO
Aroclor 1260	2425897	0	CO
Aroclor 1260	2425897	0	CO
Tetrachloro-m-xylene	3895755	3915114	BA
Decachlorobiphenyl	3604473	3604473	

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SAMPLE NO.

TD5-170828-01-PKSD-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: 10/04/2017 14:05
Matrix: Tissue SDG No.: 40157937
Date Extracted: 04/20/2018 07:02
Lab Sample ID: 40157937008
Date Analyzed: 04/23/2018 16:38
Lab File ID: 042318.B\042318015.D
Initial wt/vol: 10.0338 Final wt/vol: 5 mL Dilution: 5
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<56.8	U
11104-28-2	PCB-1221 (Aroclor 1221)	170	J
11141-16-5	PCB-1232 (Aroclor 1232)	<56.8	U
53469-21-9	PCB-1242 (Aroclor 1242)	<56.8	U
12672-29-6	PCB-1248 (Aroclor 1248)	1170	
11097-69-1	PCB-1254 (Aroclor 1254)	685	
11096-82-5	PCB-1260 (Aroclor 1260)	121	J
1336-36-3	PCB, Total	2140	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042318.b\042318015.D
Lab Smp Id: 40157937008 Client Smp ID: TD5-170828-01-PKSD-
Inj Date : 23-APR-2018 16:38
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157937008 x5,
Misc Info : 17718,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042318.b\pcba030618.m
Meth Date : 24-Apr-2018 13:17 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 15
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	5.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.034	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS	REVIEW CODE
1.182	9325	5746	0.616	0.02			
2.410	108130	80548	0.745	0.23		1 Aroclor 1221	BA
2.485	2303780	2105436	0.914	5.11	$	2 Tetrachloro-m-xylene	BA
2.688	21813	11534	0.529	0.04		1 Aroclor 1221	BA
2.788	35587	25848	0.726	0.07		1 Aroclor 1221	BA
2.851	92299	79317	0.859	0.20		1 Aroclor 1221	BA
2.971	27617	16018	0.580	0.06			
3.017	18623	14649	0.787	0.04			
3.055	139870	126023	0.901	0.31			
3.318	147483	135868	0.921	0.32			
3.344	237261	208667	0.879	0.52			
3.433	219992	202555	0.921	0.48			
3.519	325027	290030	0.892	0.72			
3.646	39120	31420	0.803	0.08			
3.731	187358	186993	0.998	0.41			
3.756	116460	107293	0.921	0.25			
3.826	1084517	627390	0.578	2.40			
3.937	258407	196561	0.761	0.57			
3.993	270597	237674	0.878	0.60			
4.057	134162	117512	0.876	0.29			
4.135	26319	15436	0.586	0.05			
4.214	1542315	1416529	0.918	3.42			
4.260	1547880	1433286	0.926	3.43		6 Aroclor 1248	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.292	1549553	1212404	0.782	3.43	
4.346	30090	21294	0.708	0.06	
4.417	570209	542063	0.951	1.26	
4.452	637470	543807	0.853	1.41	
4.545	1376074	1251850	0.910	3.05	6 Aroclor 1248
4.589	92765	83838	0.904	0.20	
4.616	97181	78954	0.812	0.21	
4.680	102559	88296	0.861	0.22	
4.729	149183	100223	0.672	0.33	
4.768	247918	225585	0.910	0.55	
4.812	1011645	944805	0.934	2.24	6 Aroclor 1248
4.847	1048764	978197	0.933	2.32	
4.878	2596076	1681315	0.648	6.27	6 Aroclor 1248
4.956	403484	327623	0.812	0.89	
5.036	1195480	1046189	0.875	2.65	6 Aroclor 1248
5.100	717130	601226	0.838	1.59	
5.161	1641249	1435718	0.875	3.64	7 Aroclor 1254
5.211	1288771	1111645	0.863	2.85	
5.283	132548	116383	0.878	0.29	
5.308	162137	127882	0.789	0.35	
5.362	553531	484803	0.876	1.22	
5.406	1092133	956343	0.876	2.42	7 Aroclor 1254
5.446	852381	721226	0.846	1.89	
5.477	95484	90520	0.948	0.21	
5.510	2039789	1720935	0.844	4.52	7 Aroclor 1254
5.577	67055	56262	0.839	0.14	
5.603	272200	219218	0.805	0.60	
5.674	432445	393971	0.911	0.95	
5.713	220534	153861	0.698	0.48	
5.742	338271	254770	0.753	0.75	
5.789	2406680	1749320	0.727	5.33	
5.886	230983	144725	0.627	0.51	
5.930	145656	94185	0.647	0.32	
5.993	364893	334342	0.916	0.80	
6.023	1089887	928436	0.852	2.41	7 Aroclor 1254
6.055	1391987	1126275	0.809	3.08	
6.168	338180	242711	0.718	0.75	
6.226	119296	128146	1.074	0.26	
6.240	178779	137112	0.767	0.39	
6.299	2089900	1687155	0.807	4.63	7 Aroclor 1254
6.332	232117	201379	0.868	0.51	
6.373	126981	89077	0.701	0.28	
6.432	166653	117329	0.704	0.36	
6.508	753170	691700	0.918	1.67	
6.534	383779	343392	0.895	0.85	
6.558	147902	128811	0.871	0.32	
6.604	89956	61376	0.682	0.19	
6.658	52164	37145	0.712	0.11	
6.716	165374	131924	0.798	0.36	
6.758	165273	135240	0.818	0.36	
6.801	254514	218268	0.858	0.56	
6.839	126141	78285	0.621	0.27	
6.913	23597	19663	0.833	0.05	
6.942	118543	99388	0.838	0.26	
7.003	397276	361881	0.911	0.88	8 Aroclor 1260
7.033	73415	62503	0.851	0.16	
7.119	27779	14099	0.508	0.06	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.251	242003	205036	0.847	0.53	8 Aroclor 1260
7.279	107477	76701	0.714	0.23	
7.335	30568	18698	0.612	0.06	
7.388	164755	153809	0.934	0.36	
7.442	178247	135208	0.759	0.39	8 Aroclor 1260
7.541	20577	17261	0.839	0.04	
7.582	13351	11290	0.846	0.02	
7.615	29900	15843	0.530	0.06	
7.663	14219	18250	1.284	0.03	
7.692	40471	39784	0.983	0.08	
7.725	45477	33774	0.743	0.10	
7.808	52462	28046	0.535	0.11	
7.898	111808	89846	0.804	0.24	8 Aroclor 1260
7.955	17760	14228	0.801	0.03	
8.048	58591	46957	0.801	0.12	
8.273	91248	84675	0.928	0.20	
8.569	2256172	1940140	0.860	5.00	$ 12 Decachlorobiphenyl
9.166	27765	21993	0.792	0.06	
	45071779	37558945		100.000	

Total unknown % area = 52

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042318.b\042318015.D
Lab Smp Id: 40157937008 Client Smp ID: TD5-170828-01-PKSD-
Inj Date : 23-APR-2018 16:38
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157937008 x5,
Misc Info : 17718,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042318.b\pcba030618.m
Meth Date : 24-Apr-2018 13:17 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 15
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	5.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.034	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			
1.804	1.804	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
2.410	2.407	0.003	108129	0.19737	490	0.00- 20.00	0.00	BA
2.688	2.688	0.000	21812	0.01577	39	0.00- 20.00	0.00	BA
2.787	2.789	-0.002	35587	0.03218	80	0.00- 20.00	0.00	BA
2.851	2.851	0.000	92298	0.02835	71	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					170			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	2303779	0.01869	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	1547880	0.66065	1600	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1376074	0.33156	830	0.00- 20.00	88.90	BA
4.812	4.812	0.000	1011645	0.49833	1200	0.00- 20.00	65.36	BA
4.878	4.879	-0.001	2596076	0.51536	1300	0.00- 20.00	167.72	BA
5.036	5.038	-0.002	1195479	0.33314	830	0.00- 20.00	77.23	BA
Average of Peak Concentrations =					1200			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	1641249	0.31350	780	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	1092133	0.25392	630	0.00- 20.00	66.54	BA
5.509	5.510	-0.001	2039788	0.26265	650	0.00- 20.00	124.28	BA
6.023	6.027	-0.004	1089886	0.22381	560	0.00- 20.00	66.41	BA
6.299	6.299	0.000	2089899	0.32117	800	0.00- 20.00	127.34	BA
Average of Peak Concentrations =					680			
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	397276	0.03967	99	0.00- 20.00	19.01	BA
7.251	7.251	0.000	242003	0.05063	130	0.00- 20.00	11.58	BA
7.441	7.443	-0.002	178246	0.06115	150	0.00- 20.00	8.53	BA
7.898	7.901	-0.003	111808	0.04237	100	0.00- 20.00	5.35	BA
Average of Peak Concentrations =					120			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.568	8.571	-0.003	2256172	0.02059	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\042318.b\042318015.D

Date : 23-APR-2018 16:38

Client ID: TD5-170828-01-PKSD-

Instrument: 40GCSJ.i

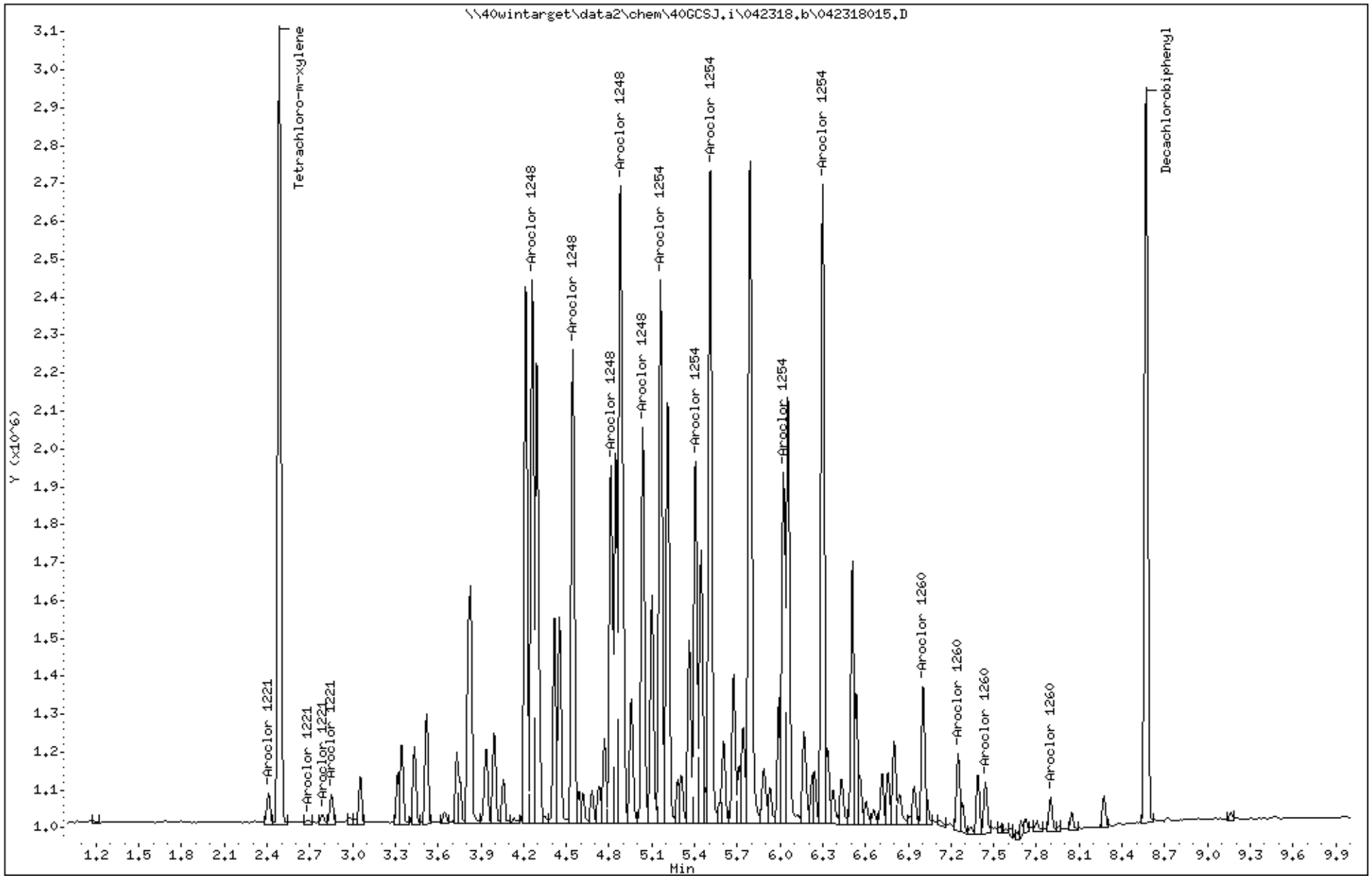
Sample Info: 40157937008 x5,

Volume Injected (uL): 1.0

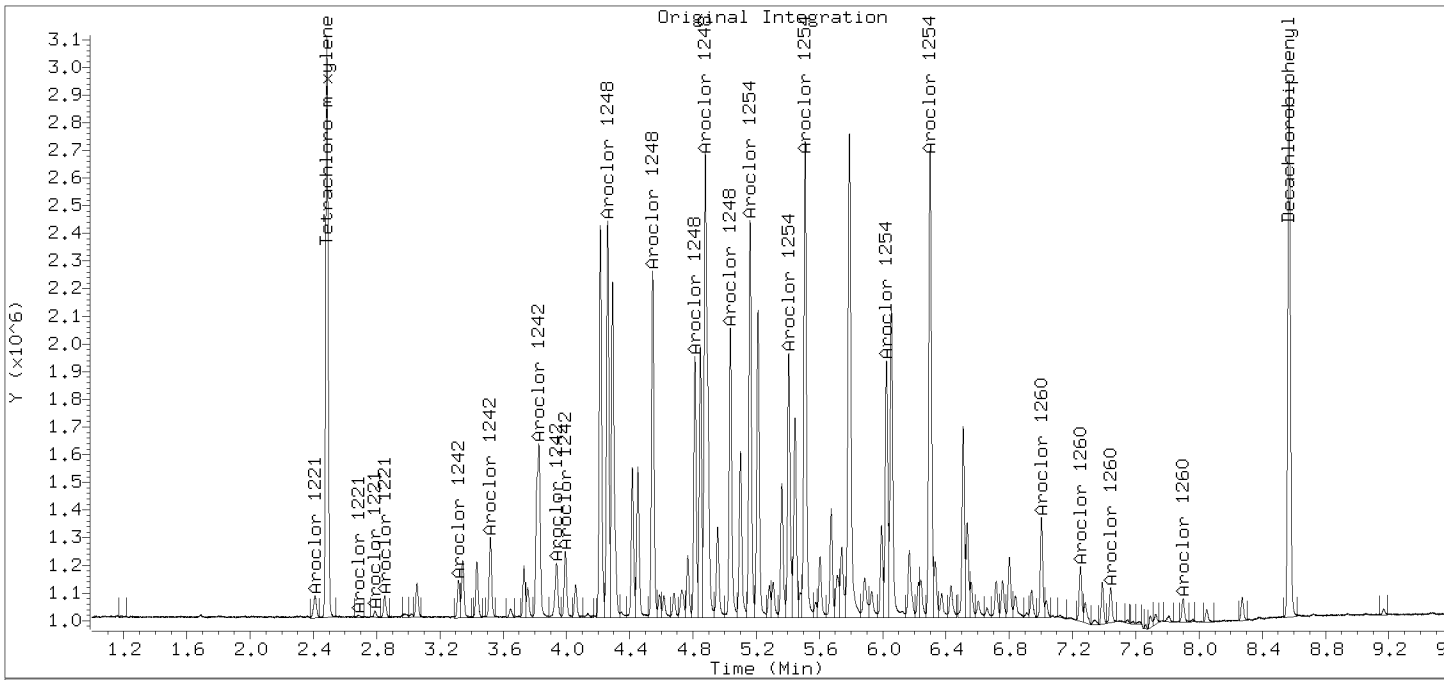
Operator: BLM

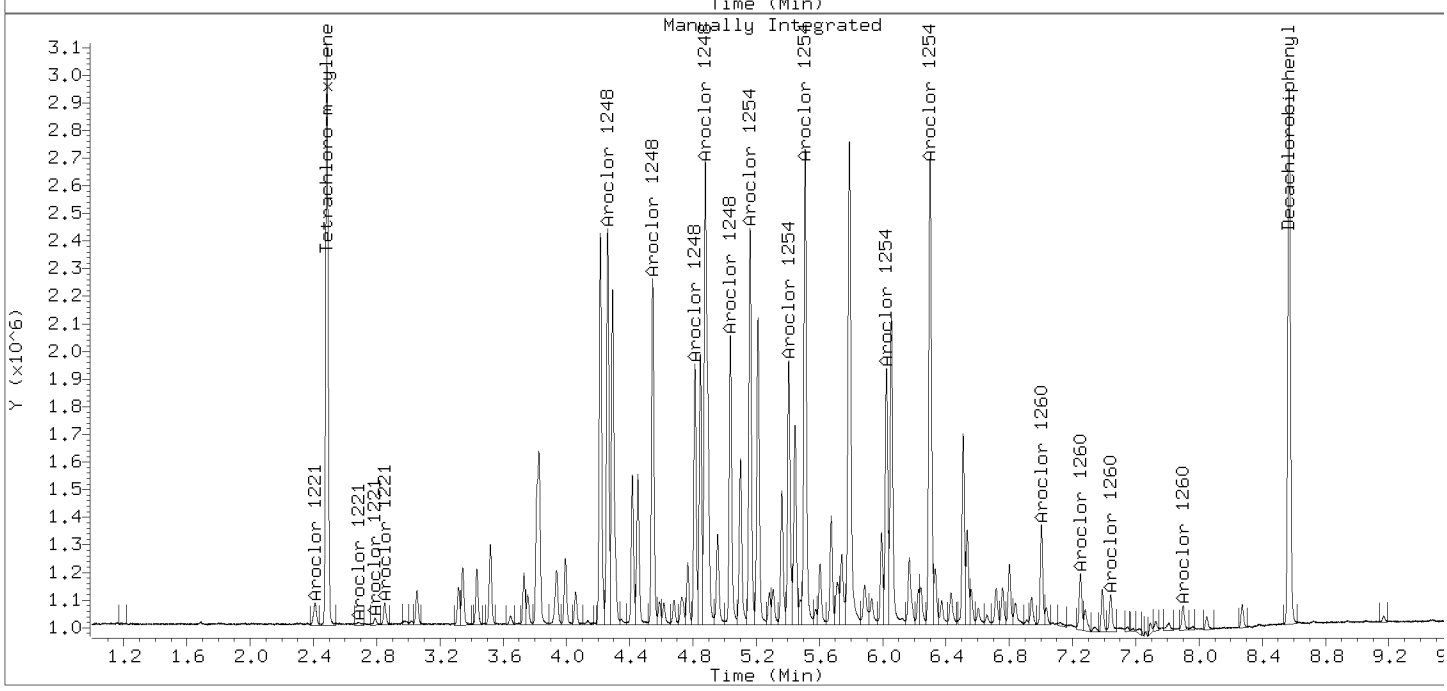
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\042318.b/042318015.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 23-APR-2018 16:38 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157937008





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	145969	0	
Aroclor 1016	145969	0	
Aroclor 1016	145969	0	
Aroclor 1016	145969	0	
Aroclor 1016	145969	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	86758	0	
Aroclor 1232	86758	0	
Aroclor 1232	86758	0	
Aroclor 1232	86758	0	

Aroclor 1232	86758	0	
Aroclor 1242	145969	0	
Aroclor 1242	145969	0	
Aroclor 1242	145969	0	
Aroclor 1242	145969	0	
Aroclor 1242	145969	0	
Aroclor 1248	1543865	1547880	BA
Aroclor 1248	1543865	1547880	BA
Aroclor 1248	1543865	1547880	BA
Aroclor 1248	1543865	1547880	BA
Aroclor 1248	1543865	1547880	BA
Aroclor 1254	1639702	1641249	BA
Aroclor 1254	1639702	1641249	BA
Aroclor 1254	1639702	1641249	BA
Aroclor 1254	1639702	1641249	BA
Aroclor 1254	1639702	1641249	BA
Aroclor 1260	2087936	0	BA
Aroclor 1260	2087936	0	BA
Aroclor 1260	2087936	0	BA
Aroclor 1260	2087936	0	BA
Aroclor 1260	2087936	0	BA
Tetrachloro-m-xylene	2289996	2303779	BA
Decachlorobiphenyl	2256172	2256172	

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SAMPLE NO.

TD5-170828-01-PKSD-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: 10/04/2017 14:05
Matrix: Tissue SDG No.: 40157937
Date Extracted: 04/20/2018 07:02
Lab Sample ID: 40157937009
Date Analyzed: 04/24/2018 13:58
Lab File ID: 042418.B\042418007.D
Initial wt/vol: 9.9831 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)	<45.7	U
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)	1270	
11097-69-1	PCB-1254 (Aroclor 1254)	692	
11096-82-5	PCB-1260 (Aroclor 1260)	91.2	J
1336-36-3	PCB, Total	2060	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418007.D
Lab Smp Id: 40157937009 Client Smp ID: TD5-170828-01-PKSD-
Inj Date : 24-APR-2018 13:58
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157937009 x4,
Misc Info : 17718,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042418.b\pcba030618.m
Meth Date : 25-Apr-2018 09:54 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 7
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	9.983	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.691	18997	13690	0.721	0.03		
1.774	11303	11110	0.983	0.02		
2.412	97377	73514	0.755	0.17		
2.486	2767996	2531919	0.915	5.00	$ 2 Tetrachloro-m-xylene	
2.790	15423	15095	0.979	0.02		
2.853	51601	46653	0.904	0.09		
3.018	11579	11876	1.026	0.02		
3.054	107501	97475	0.907	0.19		
3.319	119403	110772	0.928	0.21		
3.345	177812	163426	0.919	0.32		
3.435	180235	167602	0.930	0.32		
3.519	268845	235648	0.877	0.48		
3.646	36482	30037	0.823	0.06		
3.732	201346	194916	0.968	0.36		
3.756	126943	119127	0.938	0.22		
3.827	1312369	800401	0.610	2.37		
3.937	267655	199052	0.744	0.48		
3.993	291423	268154	0.920	0.52		
4.058	132611	120463	0.908	0.23		
4.135	18938	15726	0.830	0.03		
4.215	1978318	1780880	0.900	3.57		
4.261	1982625	1836310	0.926	3.58	6 Aroclor 1248	BA
4.293	2007471	1544464	0.769	3.62		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.417	793081	751062	0.947	1.43	
4.452	791731	727443	0.919	1.43	
4.545	1841537	1683551	0.914	3.32	6 Aroclor 1248
4.588	124447	108386	0.871	0.22	
4.617	112292	94041	0.837	0.20	
4.679	137442	111245	0.809	0.24	
4.729	197965	132182	0.668	0.35	
4.768	325954	310038	0.951	0.58	
4.813	1451062	1374971	0.948	2.62	6 Aroclor 1248
4.848	1555320	1450488	0.933	2.81	
4.879	3679501	2505137	0.681	7.16	6 Aroclor 1248
4.957	543493	463697	0.853	0.98	
5.037	1591002	1437746	0.904	2.87	6 Aroclor 1248
5.101	920704	802119	0.871	1.66	
5.161	2073946	1821592	0.878	3.74	7 Aroclor 1254
5.212	1699964	1495329	0.880	3.07	
5.284	170295	159773	0.938	0.30	
5.308	235934	182705	0.774	0.42	
5.363	752788	673854	0.895	1.36	
5.406	1487841	1312162	0.882	2.68	7 Aroclor 1254
5.447	1215219	1029667	0.847	2.19	
5.478	123956	121788	0.983	0.22	
5.510	2618721	2236246	0.854	4.73	7 Aroclor 1254
5.577	79010	65517	0.829	0.14	
5.604	415977	323075	0.777	0.75	
5.674	454920	409085	0.899	0.82	
5.713	273794	203069	0.742	0.49	
5.742	423632	298420	0.704	0.76	
5.791	2966188	2240189	0.755	5.36	
5.888	332221	202764	0.610	0.60	
5.932	167284	108400	0.648	0.30	
5.993	358311	324066	0.904	0.64	
6.025	1545815	1313437	0.850	2.79	7 Aroclor 1254
6.056	1409729	1192022	0.846	2.54	
6.126	53376	33232	0.623	0.09	
6.169	381157	259795	0.682	0.68	
6.227	150869	152578	1.011	0.27	
6.242	204985	163855	0.799	0.37	
6.300	2146060	1745855	0.814	3.87	7 Aroclor 1254
6.333	242184	202201	0.835	0.43	
6.372	144247	100569	0.697	0.26	
6.431	199104	125642	0.631	0.35	
6.509	475389	420906	0.885	0.85	
6.535	427974	371007	0.867	0.77	
6.560	127081	111860	0.880	0.22	
6.604	98406	65848	0.669	0.17	
6.663	57828	41384	0.716	0.10	
6.717	197003	156372	0.794	0.35	
6.759	195069	152343	0.781	0.35	
6.801	268642	231994	0.864	0.48	
6.839	137631	86584	0.629	0.24	
6.910	23760	19699	0.829	0.04	
6.943	134521	106254	0.790	0.24	
7.004	373454	335712	0.899	0.67	8 Aroclor 1260
7.033	54337	43800	0.806	0.09	
7.124	39118	22114	0.565	0.07	
7.250	228320	197416	0.865	0.41	8 Aroclor 1260

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.283	111415	76061	0.683	0.20	
7.341	41102	22455	0.546	0.07	
7.389	121290	111217	0.917	0.21	
7.442	170866	121907	0.713	0.30	8 Aroclor 1260
7.548	24383	19369	0.794	0.04	
7.583	16125	12267	0.761	0.02	
7.613	33034	15633	0.473	0.05	
7.663	17058	17910	1.050	0.03	
7.693	37319	34927	0.936	0.06	
7.726	48651	37095	0.762	0.08	
7.812	54375	27400	0.504	0.09	
7.899	101268	75586	0.746	0.18	8 Aroclor 1260
7.962	20401	11720	0.574	0.03	
8.049	68828	55421	0.805	0.12	
8.274	84201	71911	0.854	0.15	
8.378	11091	8836	0.797	0.02	
8.570	2887332	2529522	0.876	5.21	$ 12 Decachlorobiphenyl
9.169	34356	25634	0.746	0.06	
9.212	10314	5725	0.555	0.01	
9.956	11084	7103	0.641	0.02	
	55320336	46488295		100.000	

Total unknown % area = 51

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418007.D
Lab Smp Id: 40157937009 Client Smp ID: TD5-170828-01-PKSD-
Inj Date : 24-APR-2018 13:58
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157937009 x4,
Misc Info : 17718,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042418.b\pcba030618.m
Meth Date : 25-Apr-2018 09:54 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 7
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	9.983	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	2767996	0.02245	45			
3 Aroclor 1242					CAS #: 53469-21-9			
Operator disabled compound identification.								
4 Aroclor 1232					CAS #: 1114-16-5			
Operator disabled compound identification.								

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	1982624	0.84620	1700	0.00- 20.00	100.00(M)	BA
4.544	4.546	-0.002	1841537	0.44371	890	0.00- 20.00	92.88	BA
4.812	4.812	0.000	1451061	0.71478	1400	0.00- 20.00	73.19	BA
4.878	4.879	-0.001	3679500	0.73043	1500	0.00- 20.00	185.59	BA
5.036	5.038	-0.002	1591001	0.44336	890	0.00- 20.00	80.25	BA
Average of Peak Concentrations =					1300			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	2073946	0.39615	790	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	1487840	0.34592	690	0.00- 20.00	71.74	BA
5.509	5.510	-0.001	2618720	0.33720	680	0.00- 20.00	126.27	BA
6.025	6.027	-0.002	1545815	0.31744	640	0.00- 20.00	74.53	BA
6.300	6.299	0.001	2146059	0.32980	660	0.00- 20.00	103.48	BA
Average of Peak Concentrations =					690			
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	373454	0.03729	75	0.00- 20.00	17.40	BA
7.250	7.251	-0.001	228320	0.04777	96	0.00- 20.00	10.64	BA
7.441	7.443	-0.002	170866	0.05861	120	0.00- 20.00	7.96	BA
7.898	7.901	-0.003	101268	0.03838	77	0.00- 20.00	4.72	BA
Average of Peak Concentrations =					91			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	2887332	0.02635	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\042418.b\042418007.D

Date : 24-APR-2018 13:58

Client ID: TD5-170828-01-PKSD-

Instrument: 40GCSJ.i

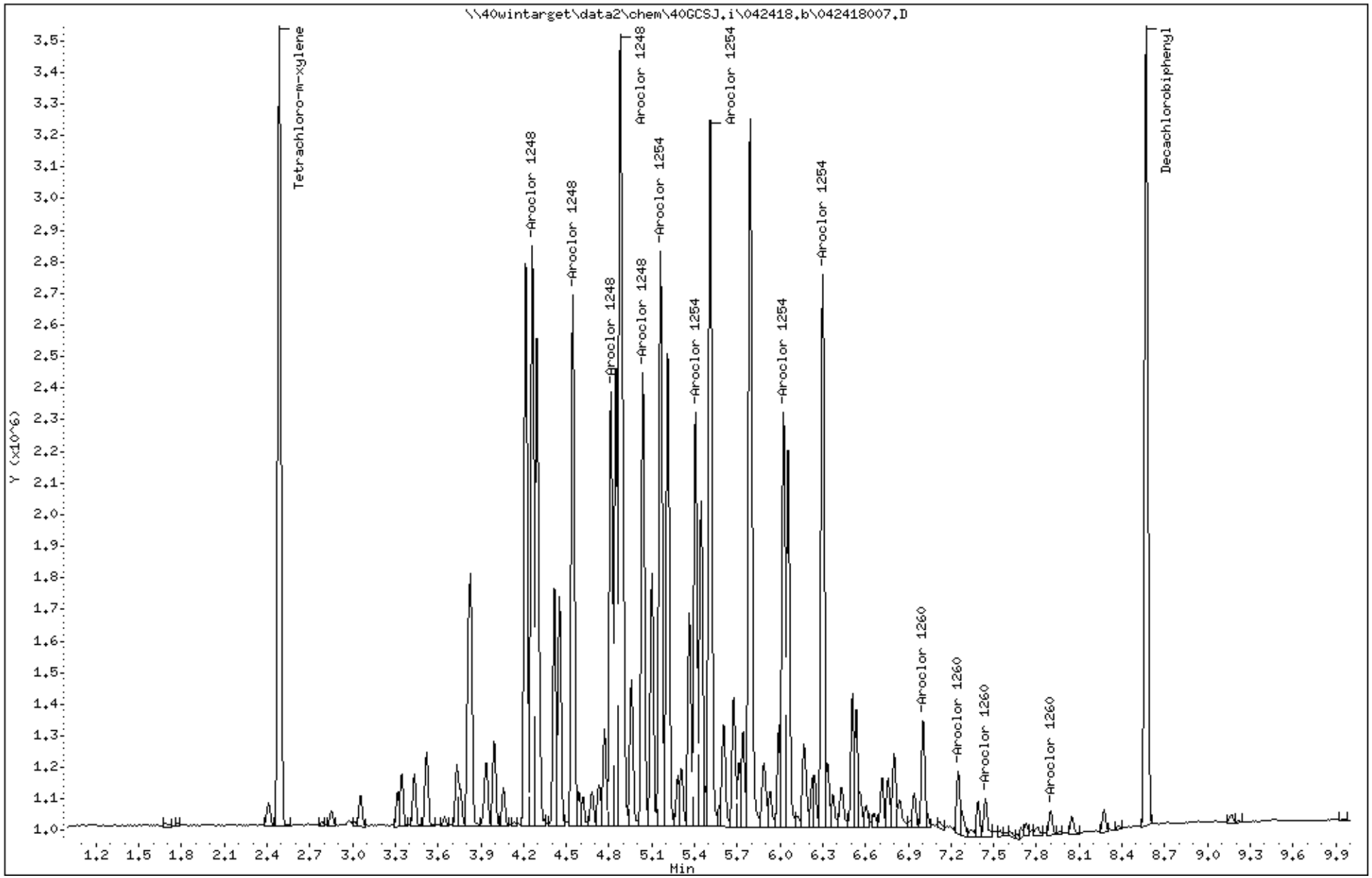
Sample Info: 40157937009 x4,

Volume Injected (uL): 1.0

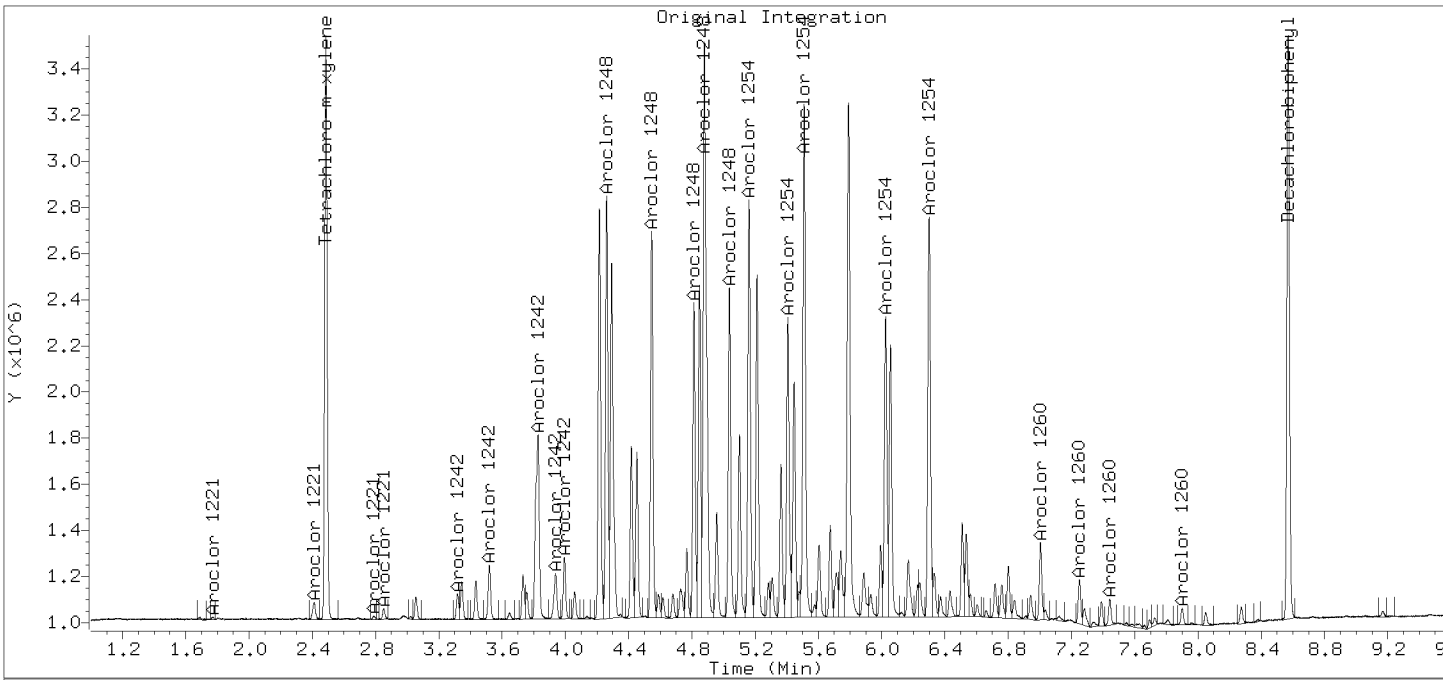
Operator: BLM

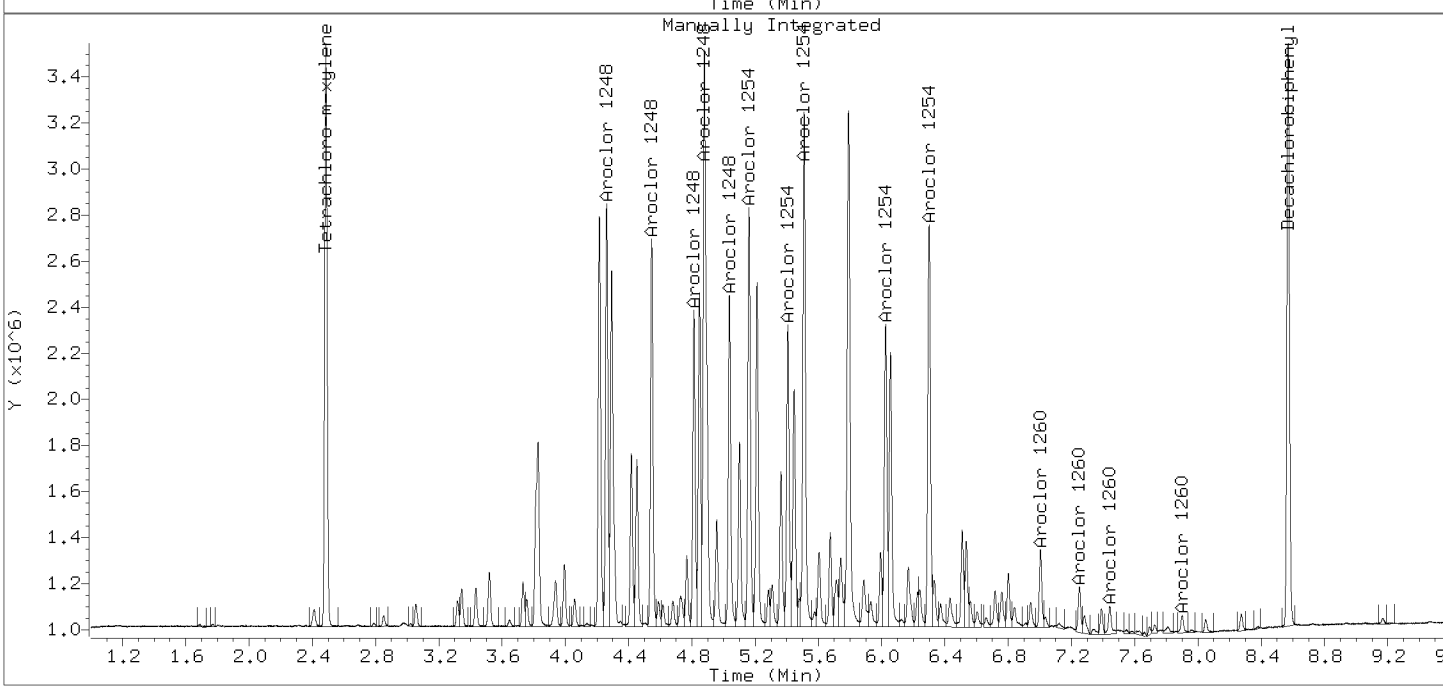
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\042418.b/042418007.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 24-APR-2018 13:58 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157937009





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	119402	0	
Aroclor 1016	119402	0	
Aroclor 1016	119402	0	
Aroclor 1016	119402	0	
Aroclor 1016	119402	0	
Aroclor 1221	11303	0	
Aroclor 1221	11303	0	
Aroclor 1221	11303	0	
Aroclor 1221	11303	0	
Aroclor 1221	11303	0	
Aroclor 1232	51600	0	
Aroclor 1232	51600	0	
Aroclor 1232	51600	0	
Aroclor 1232	51600	0	

Aroclor 1232	51600	0	
Aroclor 1242	119402	0	
Aroclor 1242	119402	0	
Aroclor 1242	119402	0	
Aroclor 1242	119402	0	
Aroclor 1242	119402	0	
Aroclor 1248	1968201	1982624	BA
Aroclor 1248	1968201	1982624	BA
Aroclor 1248	1968201	1982624	BA
Aroclor 1248	1968201	1982624	BA
Aroclor 1248	1968201	1982624	BA
Aroclor 1254	2044426	2073946	BA
Aroclor 1254	2044426	2073946	BA
Aroclor 1254	2044426	2073946	BA
Aroclor 1254	2044426	2073946	BA
Aroclor 1254	2044426	2073946	BA
Aroclor 1260	2104453	0	BA
Aroclor 1260	2104453	0	BA
Aroclor 1260	2104453	0	BA
Aroclor 1260	2104453	0	BA
Aroclor 1260	2104453	0	BA
Tetrachloro-m-xylene	2767996	2767996	
Decachlorobiphenyl	2887332	2887332	

==========

SAMPLE NO.

TD4-170828-01-PKSD-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: 10/04/2017 14:05
Matrix: Tissue SDG No.: 40157937
Date Extracted: 04/20/2018 07:02
Lab Sample ID: 40157937010
Date Analyzed: 04/23/2018 17:41
Lab File ID: 042318.B\042318019.D
Initial wt/vol: 10.0232 Final wt/vol: 5 mL Dilution: 5
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<56.9	U
11104-28-2	PCB-1221 (Aroclor 1221)	<56.9	U
11141-16-5	PCB-1232 (Aroclor 1232)	<56.9	U
53469-21-9	PCB-1242 (Aroclor 1242)	<56.9	U
12672-29-6	PCB-1248 (Aroclor 1248)	1080	
11097-69-1	PCB-1254 (Aroclor 1254)	703	
11096-82-5	PCB-1260 (Aroclor 1260)	90.3	J
1336-36-3	PCB, Total	1870	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042318.b\042318019.D
Lab Smp Id: 40157937010 Client Smp ID: TD4-170828-01-PKSD-
Inj Date : 23-APR-2018 17:41
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157937010 x5,
Misc Info : 17718,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042318.b\pcba030618.m
Meth Date : 24-Apr-2018 13:17 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 19
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	5.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.023	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.409	41575	30830	0.742	0.10		
2.485	2187383	1993955	0.912	5.42	$ 2 Tetrachloro-m-xylene	
2.786	10861	10855	0.999	0.02		
2.850	22022	20139	0.915	0.05		
3.018	10805	12018	1.112	0.02		
3.054	33668	31365	0.932	0.08		
3.317	49895	47315	0.948	0.12		
3.343	63090	51649	0.819	0.15		
3.433	45617	42886	0.940	0.11		
3.518	107153	95192	0.888	0.26		
3.730	69579	65722	0.945	0.17		
3.755	40757	37071	0.910	0.10		
3.826	445665	254617	0.571	1.10		
3.939	74621	50450	0.676	0.18		
3.993	128420	108790	0.847	0.31		
4.058	59337	46088	0.777	0.14		
4.214	1329278	1217304	0.916	3.29		
4.260	1531729	1459069	0.953	3.79	6 Aroclor 1248	BA
4.291	2141492	1800768	0.841	5.31		
4.417	258348	230476	0.892	0.64		
4.452	397828	356912	0.897	0.98		
4.545	1029728	954426	0.927	2.55	6 Aroclor 1248	BA
4.587	134229	118910	0.886	0.33		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.618	46227	33633	0.728	0.11	
4.680	138620	116391	0.840	0.34	
4.733	207013	141165	0.682	0.51	
4.767	304188	280368	0.922	0.75	
4.812	1065669	989653	0.929	2.64	6 Aroclor 1248
4.847	832815	771257	0.926	2.06	
4.879	2327335	1582236	0.680	5.77	6 Aroclor 1248
4.956	445475	357828	0.803	1.10	
5.037	968842	863020	0.891	2.40	6 Aroclor 1248
5.101	741079	651539	0.879	1.83	
5.161	1714804	1475896	0.861	4.25	7 Aroclor 1254
5.212	1437866	1259902	0.876	3.56	
5.282	182830	163781	0.896	0.45	
5.308	115479	86952	0.753	0.28	
5.362	577965	506157	0.876	1.43	
5.407	1242930	1072977	0.863	3.08	7 Aroclor 1254
5.445	954728	816885	0.856	2.36	
5.481	71059	78361	1.103	0.17	
5.509	2105023	1783388	0.847	5.22	7 Aroclor 1254
5.575	84951	73635	0.867	0.21	
5.603	255966	210982	0.824	0.63	
5.674	362796	327469	0.903	0.89	
5.714	204834	146161	0.714	0.50	
5.741	427545	301204	0.704	1.06	
5.789	2472253	1852473	0.749	6.54	
5.887	282756	189475	0.670	0.70	
5.929	132539	89223	0.673	0.32	
5.993	266178	241806	0.908	0.66	
6.024	1299010	1149297	0.885	3.22	7 Aroclor 1254
6.054	1035335	851284	0.822	2.56	
6.168	295374	197951	0.670	0.73	
6.225	241978	127621	0.527	0.60	
6.299	1654511	1326093	0.802	4.10	7 Aroclor 1254
6.332	219663	192880	0.878	0.54	
6.372	108056	74132	0.686	0.26	
6.432	147181	97307	0.661	0.36	
6.509	388957	335682	0.863	0.96	
6.534	435531	298981	0.686	1.08	
6.603	77940	49228	0.632	0.19	
6.661	43931	30482	0.694	0.10	
6.717	128425	102840	0.801	0.31	
6.758	130066	105692	0.813	0.32	
6.800	240907	204608	0.849	0.59	
6.840	108440	68612	0.633	0.26	
6.911	22872	19083	0.834	0.05	
6.942	81422	67438	0.828	0.20	
7.004	291654	255765	0.877	0.72	8 Aroclor 1260
7.034	34025	32280	0.949	0.08	
7.122	28658	14561	0.508	0.07	
7.249	185642	153202	0.825	0.46	8 Aroclor 1260
7.282	94132	65324	0.694	0.23	
7.341	31860	19328	0.607	0.07	
7.388	87256	81069	0.929	0.21	
7.440	144568	107932	0.747	0.35	8 Aroclor 1260
7.582	15680	12682	0.809	0.03	
7.623	26433	19147	0.724	0.06	
7.660	18085	18992	1.050	0.04	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.694	29293	27337	0.933	0.07	
7.726	38139	28205	0.740	0.09	
7.900	71763	52474	0.731	0.17	8 Aroclor 1260
8.050	30550	26030	0.852	0.07	
8.275	58590	50857	0.868	0.14	
8.570	2278873	1978407	0.868	5.65	$ 12 Decachlorobiphenyl
9.167	10742	9967	0.928	0.02	
	40318384	33753394		100.000	

Total unknown % area = 50

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042318.b\042318019.D
Lab Smp Id: 40157937010 Client Smp ID: TD4-170828-01-PKSD-
Inj Date : 23-APR-2018 17:41
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157937010 x5,
Misc Info : 17718,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042318.b\pcba030618.m
Meth Date : 24-Apr-2018 13:17 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 19
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	5.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.023	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	2187382	0.01774	44			
3 Aroclor 1242						CAS #: 53469-21-9		
Operator disabled compound identification.								
4 Aroclor 1232						CAS #: 1114-16-5		
Operator disabled compound identification.								

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	1531729	0.65375	1600	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1029727	0.24811	620	0.00- 20.00	67.23	BA
4.812	4.812	0.000	1065668	0.52494	1300	0.00- 20.00	69.57	BA
4.878	4.879	-0.001	2327334	0.46201	1200	0.00- 20.00	151.94	BA
5.036	5.038	-0.002	968842	0.26998	670	0.00- 20.00	63.25	BA
		Average of Peak Concentrations =			1100			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	1714804	0.32755	820	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	1242930	0.28898	720	0.00- 20.00	72.48	BA
5.508	5.510	-0.002	2105022	0.27105	680	0.00- 20.00	122.76	BA
6.023	6.027	-0.004	1299009	0.26675	660	0.00- 20.00	75.75	BA
6.299	6.299	0.000	1654510	0.25426	630	0.00- 20.00	96.48	BA
		Average of Peak Concentrations =			700			
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	291654	0.02912	73	0.00- 20.00	19.65	CO
7.249	7.251	-0.002	185641	0.03884	97	0.00- 20.00	11.22	CO
7.440	7.443	-0.003	144567	0.04959	120	0.00- 20.00	8.74	CO
7.899	7.901	-0.002	71763	0.02720	68	0.00- 20.00	4.34	CO
		Average of Peak Concentrations =			90			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	2278873	0.02080	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\042318.b\042318019.D

Date : 23-APR-2018 17:41

Client ID: TD4-170828-01-PKSD-

Instrument: 40GCSJ.i

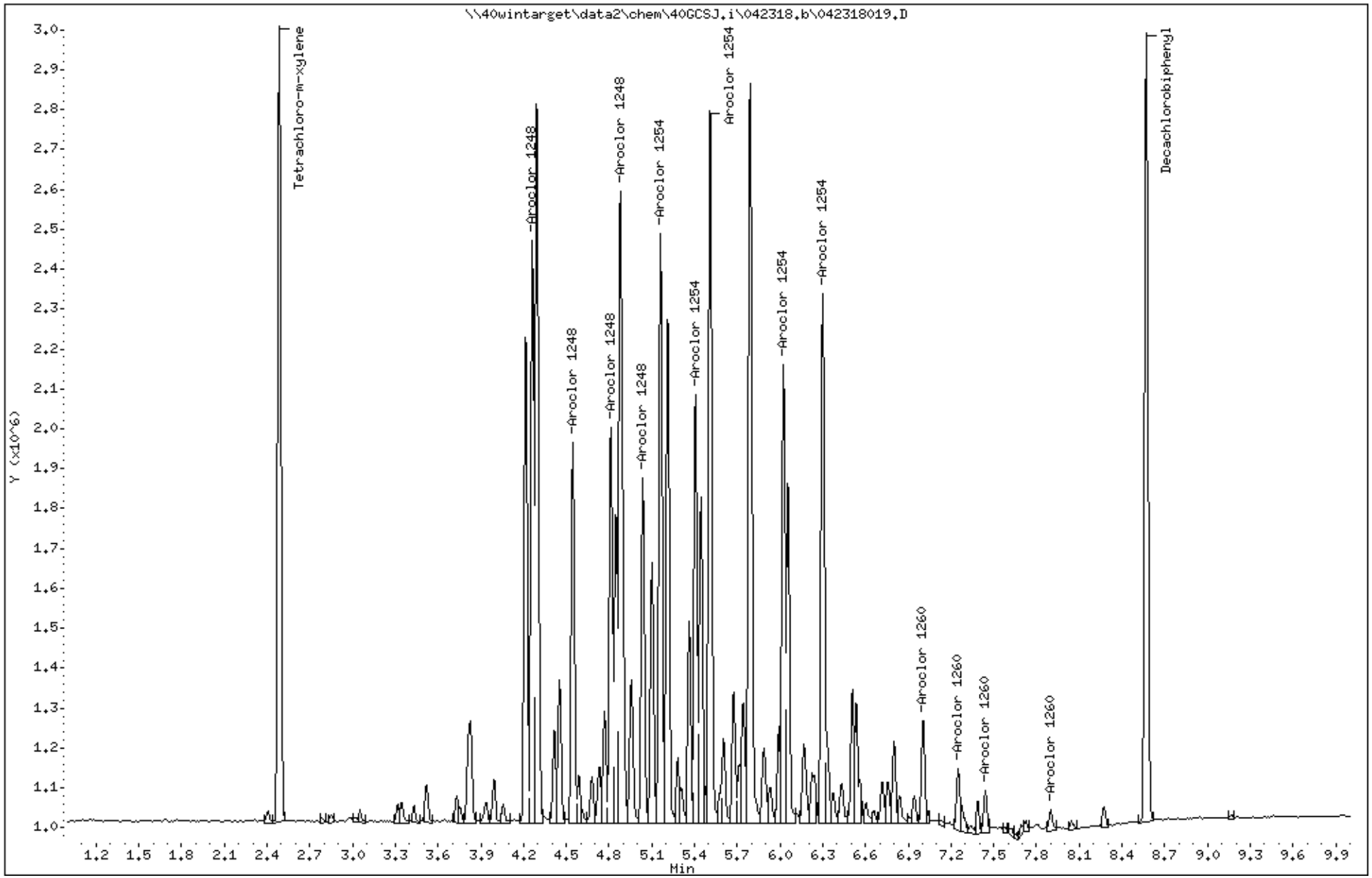
Sample Info: 40157937010 x5,

Volume Injected (uL): 1.0

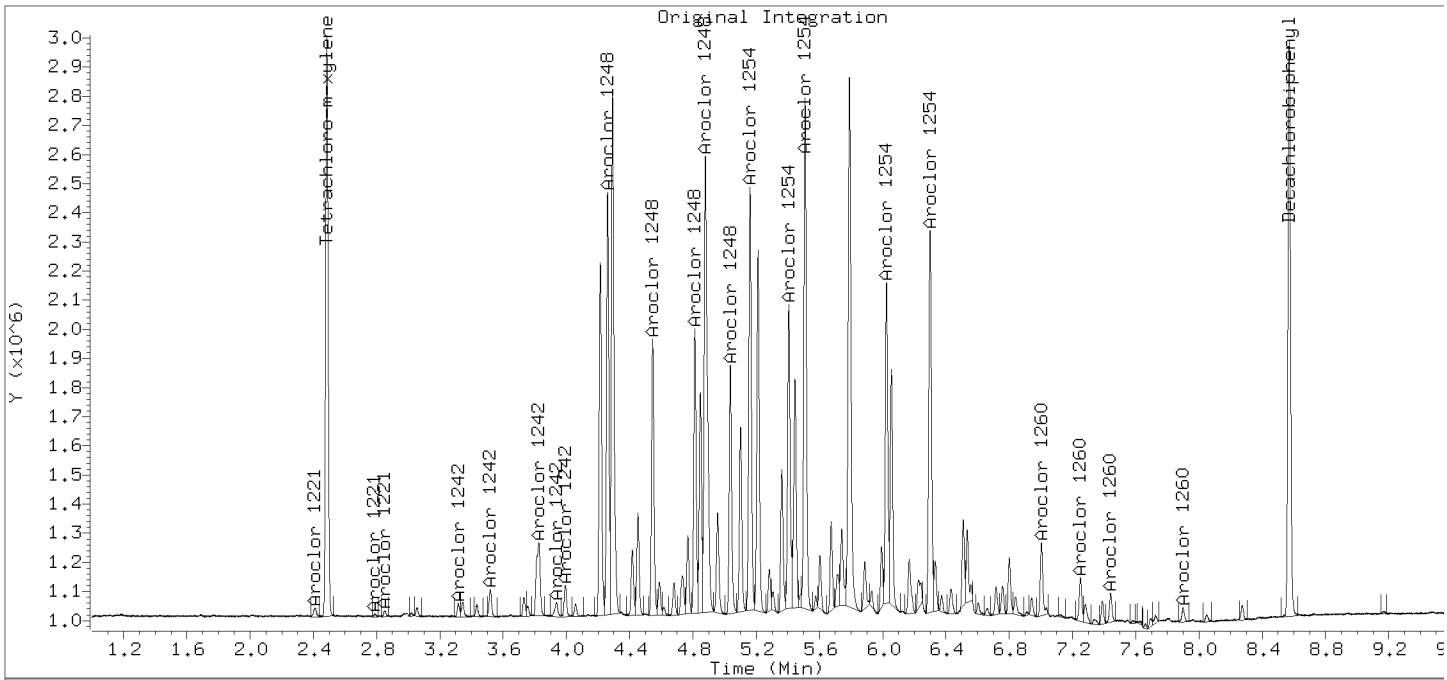
Operator: BLM

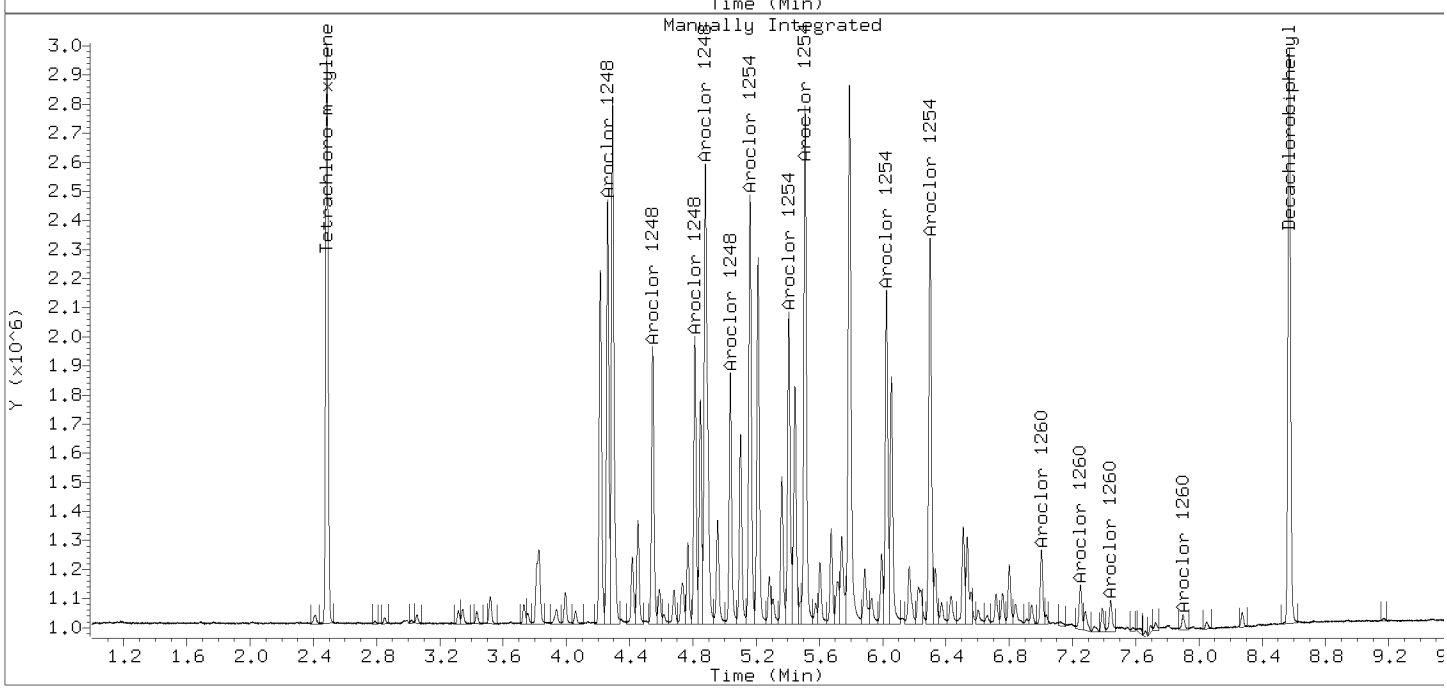
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\042318.b/042318019.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 23-APR-2018 17:41 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157937010





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	49894	0	
Aroclor 1016	49894	0	
Aroclor 1016	49894	0	
Aroclor 1016	49894	0	
Aroclor 1016	49894	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	22021	0	
Aroclor 1232	22021	0	
Aroclor 1232	22021	0	
Aroclor 1232	22021	0	

Aroclor 1232	22021	0	
Aroclor 1242	49894	0	
Aroclor 1242	49894	0	
Aroclor 1242	49894	0	
Aroclor 1242	49894	0	
Aroclor 1242	49894	0	
Aroclor 1248	1512141	1531729	BA
Aroclor 1248	1512141	1531729	BA
Aroclor 1248	1512141	1531729	BA
Aroclor 1248	1512141	1531729	BA
Aroclor 1248	1512141	1531729	BA
Aroclor 1254	1639236	1714804	BA
Aroclor 1254	1639236	1714804	BA
Aroclor 1254	1639236	1714804	BA
Aroclor 1254	1639236	1714804	BA
Aroclor 1254	1639236	1714804	BA
Aroclor 1260	1603194	0	CO
Aroclor 1260	1603194	0	CO
Aroclor 1260	1603194	0	CO
Aroclor 1260	1603194	0	CO
Aroclor 1260	1603194	0	CO
Tetrachloro-m-xylene	2187382	2187382	
Decachlorobiphenyl	2278873	2278873	

==========

SAMPLE NO.

TD4-170828-01-PKSD-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: 10/04/2017 14:05
Matrix: Tissue SDG No.: 40157937
Date Extracted: 04/20/2018 07:02
Lab Sample ID: 40157937011
Date Analyzed: 04/23/2018 17:57
Lab File ID: 042318.B\042318020.D
Initial wt/vol: 9.987 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)	<22.8	U
11141-16-5	PCB-1232 (Aroclor 1232)	<22.8	U
53469-21-9	PCB-1242 (Aroclor 1242)	<22.8	U
12672-29-6	PCB-1248 (Aroclor 1248)	656	
11097-69-1	PCB-1254 (Aroclor 1254)	397	
11096-82-5	PCB-1260 (Aroclor 1260)	46.9	J
1336-36-3	PCB, Total	1100	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042318.b\042318020.D
Lab Smp Id: 40157937011 Client Smp ID: TD4-170828-01-PKSD-
Inj Date : 23-APR-2018 17:57
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157937011 x2,
Misc Info : 17718,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042318.b\pcba030618.m
Meth Date : 24-Apr-2018 13:17 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 20
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
1.159	10729	9947	0.927	0.01		
1.430	11357	8099	0.713	0.01		
1.687	15630	13018	0.833	0.02		
1.956	9346	6295	0.674	0.01		
2.410	94119	74981	0.797	0.14		
2.485	5273859	4956359	0.940	8.78	$ 2 Tetrachloro-m-xylene	
2.789	21496	18159	0.845	0.03		
2.851	58164	49280	0.847	0.09		
2.976	56511	25378	0.449	0.08		
3.019	32716	30513	0.933	0.05		
3.055	84374	79627	0.944	0.13		
3.317	109492	104167	0.951	0.17		
3.344	125405	117203	0.935	0.19		
3.433	124759	109922	0.881	0.19		
3.519	251256	223663	0.890	0.39		
3.647	21608	16972	0.785	0.03		
3.733	153160	152579	0.996	0.24		
3.756	109954	96450	0.877	0.17		
3.827	1292198	815351	0.631	2.03		
3.936	195425	133608	0.684	0.30		
3.993	272621	245899	0.902	0.42		
4.057	135168	110728	0.819	0.21		
4.137	23068	14948	0.648	0.03		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.214	1864186	1710004	0.917	2.92	
4.261	2003419	1846573	0.922	3.14	6 Aroclor 1248
4.292	1884183	1456326	0.773	2.96	
4.417	672598	613814	0.913	1.05	
4.452	781974	706847	0.904	1.22	
4.501	33201	22983	0.692	0.05	
4.546	1810632	1646034	0.909	2.84	6 Aroclor 1248
4.589	95466	83933	0.879	0.15	
4.615	111016	79974	0.720	0.17	
4.679	122349	100195	0.819	0.19	
4.727	193603	134945	0.697	0.30	
4.767	321057	291391	0.908	0.50	
4.812	1569482	1459151	0.930	2.46	6 Aroclor 1248
4.847	1559908	1471320	0.943	2.45	
4.879	3786805	2519061	0.665	5.95	6 Aroclor 1248
4.957	560391	459755	0.820	0.88	
5.037	1651507	1409577	0.854	2.59	6 Aroclor 1248
5.100	868624	732194	0.843	1.36	
5.161	2349619	2033076	0.865	3.69	7 Aroclor 1254
5.212	1886578	1645307	0.872	2.96	
5.283	190942	171703	0.899	0.30	
5.309	201494	146716	0.728	0.31	
5.362	826148	731406	0.885	1.29	
5.406	1649673	1418426	0.860	2.59	7 Aroclor 1254
5.445	1323836	1097846	0.829	2.08	
5.481	120963	126851	1.049	0.19	
5.509	2921613	2514707	0.861	4.59	7 Aroclor 1254
5.576	86169	70010	0.812	0.13	
5.604	430603	332231	0.772	0.67	
5.674	479538	426239	0.889	0.75	
5.714	302786	225468	0.745	0.47	
5.741	535384	356008	0.665	0.84	
5.790	3518453	2674506	0.760	5.52	
5.886	379811	220324	0.580	0.59	
5.929	157800	100655	0.638	0.24	
5.992	392336	362664	0.924	0.61	
6.024	1813787	1579657	0.871	2.85	7 Aroclor 1254
6.054	1643193	1370303	0.834	2.58	
6.123	87007	42925	0.493	0.13	
6.168	469574	321855	0.685	0.73	
6.227	377364	193097	0.512	0.59	
6.298	2603331	2104899	0.809	4.09	7 Aroclor 1254
6.332	323144	284138	0.879	0.50	
6.372	187419	122088	0.651	0.29	
6.431	223497	122673	0.549	0.35	
6.509	641548	560419	0.874	1.00	
6.534	499746	440423	0.881	0.78	
6.560	181595	150991	0.831	0.28	
6.603	146624	83194	0.567	0.23	
6.658	97708	59568	0.610	0.15	
6.717	238882	182523	0.764	0.37	
6.758	218179	168670	0.773	0.34	
6.800	369513	298243	0.807	0.58	
6.840	185751	105951	0.570	0.29	
6.910	31762	25910	0.816	0.04	
6.942	178697	138547	0.775	0.28	
7.004	375340	337512	0.899	0.58	8 Aroclor 1260

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.033	86007	55580	0.646	0.13	
7.096	21096	16183	0.767	0.03	
7.120	44410	25502	0.574	0.06	
7.248	247042	208718	0.845	0.38	8 Aroclor 1260
7.280	138535	94678	0.683	0.21	
7.341	48999	28222	0.576	0.07	
7.389	128280	115723	0.902	0.20	
7.441	190333	126762	0.666	0.29	8 Aroclor 1260
7.487	43655	22211	0.509	0.06	
7.548	28331	22607	0.798	0.04	
7.583	24893	17841	0.717	0.03	
7.612	40756	28554	0.701	0.06	
7.661	22566	23750	1.052	0.03	
7.692	38922	36208	0.930	0.06	
7.724	52142	38968	0.747	0.08	
7.762	27259	16648	0.611	0.04	
7.810	73052	37785	0.517	0.11	
7.898	86469	62029	0.717	0.13	8 Aroclor 1260
7.958	25125	12961	0.516	0.03	
8.049	76914	63858	0.830	0.12	
8.271	87133	76567	0.879	0.13	
8.377	16635	11341	0.682	0.02	
8.569	5019471	4269696	0.851	7.88	$ 12 Decachlorobiphenyl
8.722	18093	13782	0.762	0.02	
9.167	27669	25026	0.904	0.04	
	63634015	52956152		100.000	

Total unknown % area = 47

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042318.b\042318020.D
Lab Smp Id: 40157937011 Client Smp ID: TD4-170828-01-PKSD-
Inj Date : 23-APR-2018 17:57
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157937011 x2,
Misc Info : 17718,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042318.b\pcba030618.m
Meth Date : 24-Apr-2018 13:17 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 20
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

Operator disabled compound identification.

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

2.484	2.484	0.000	5273859	0.04277		43		

---

3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

---

4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	2003419	0.85508	860	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1810631	0.43626	440	0.00- 20.00	90.38	BA
4.812	4.812	0.000	1569481	0.77311	770	0.00- 20.00	78.34	BA
4.878	4.879	-0.001	3786804	0.75173	750	0.00- 20.00	189.02	BA
5.037	5.038	-0.001	1651507	0.46022	460	0.00- 20.00	82.43	BA
Average of Peak Concentrations =					660			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	2349618	0.44881	450	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	1649672	0.38355	380	0.00- 20.00	70.21	BA
5.509	5.510	-0.001	2921613	0.37620	380	0.00- 20.00	124.34	BA
6.024	6.027	-0.003	1813787	0.37247	370	0.00- 20.00	77.19	BA
6.298	6.299	-0.001	2603330	0.40008	400	0.00- 20.00	110.80	BA
Average of Peak Concentrations =					400			
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	375340	0.03748	38	0.00- 20.00	14.42	BA
7.248	7.251	-0.003	247042	0.05168	52	0.00- 20.00	9.49	BA
7.441	7.443	-0.002	190332	0.06529	65	0.00- 20.00	7.31	BA
7.898	7.901	-0.003	86469	0.03277	33	0.00- 20.00	3.32	BA
Average of Peak Concentrations =					47			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	5019470	0.04581	46			

QC Flag Legend

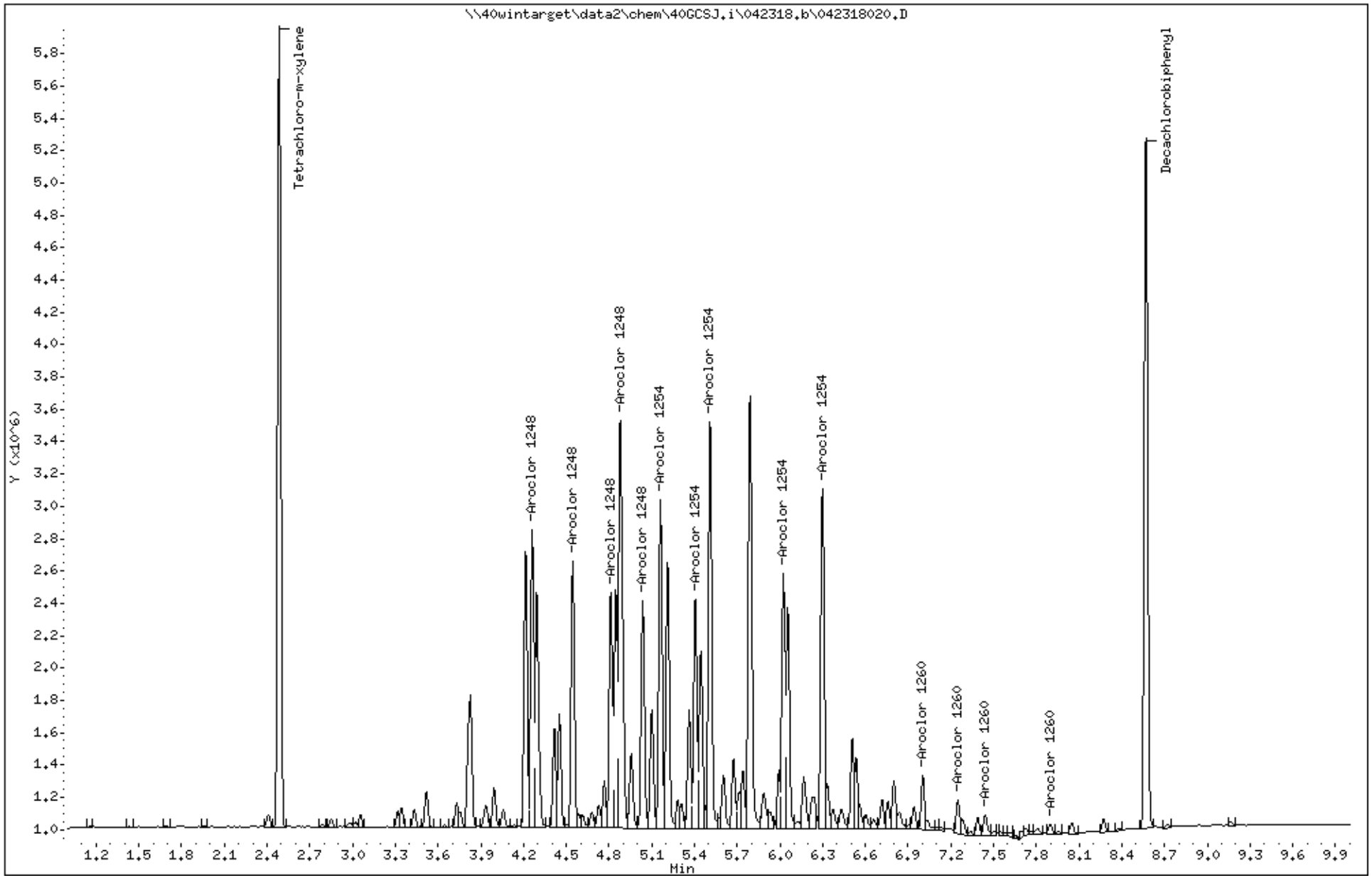
M - Compound response manually integrated.

Review Codes Legend

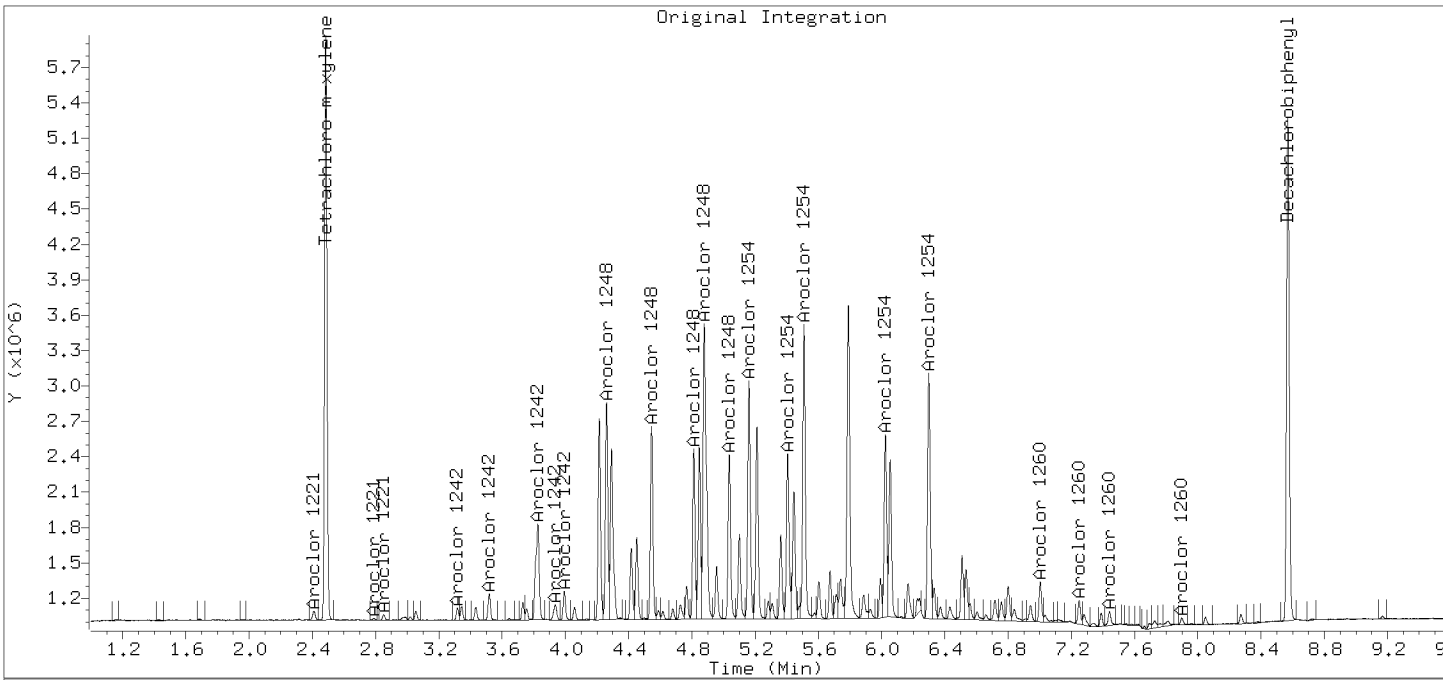
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

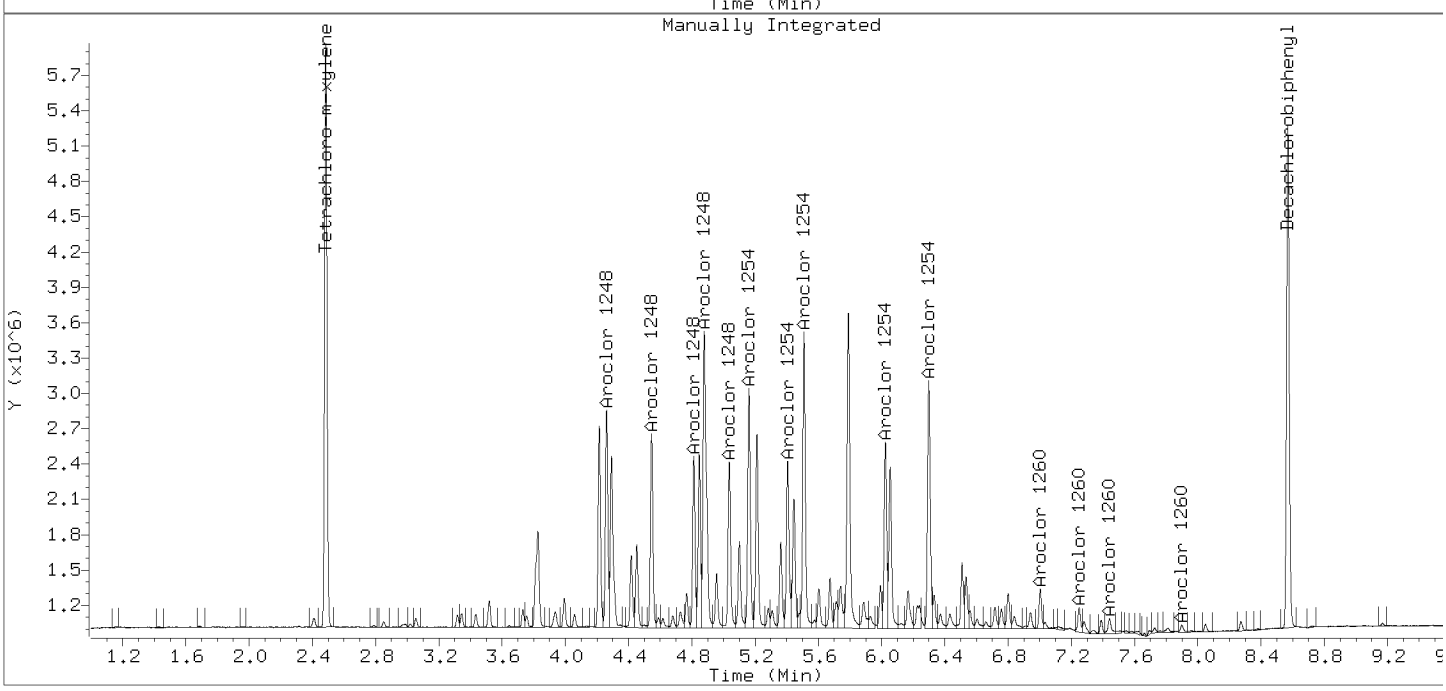
Data File: \\40wintarget\data2\chem\40GCSJ.i\042318.b\042318020.D
Date : 23-APR-2018 17:57
Client ID: TD4-170828-01-PKSD-
Sample Info: 40157937011 x2,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\042318.b/042318020.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 23-APR-2018 17:57 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157937011





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	109492	0	
Aroclor 1016	109492	0	
Aroclor 1016	109492	0	
Aroclor 1016	109492	0	
Aroclor 1016	109492	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	58164	0	
Aroclor 1232	58164	0	
Aroclor 1232	58164	0	
Aroclor 1232	58164	0	

Aroclor 1232	58164	0	
Aroclor 1242	109492	0	
Aroclor 1242	109492	0	
Aroclor 1242	109492	0	
Aroclor 1242	109492	0	
Aroclor 1242	109492	0	
Aroclor 1248	1982621	2003419	BA
Aroclor 1248	1982621	2003419	BA
Aroclor 1248	1982621	2003419	BA
Aroclor 1248	1982621	2003419	BA
Aroclor 1248	1982621	2003419	BA
Aroclor 1254	2293834	2349618	BA
Aroclor 1254	2293834	2349618	BA
Aroclor 1254	2293834	2349618	BA
Aroclor 1254	2293834	2349618	BA
Aroclor 1254	2293834	2349618	BA
Aroclor 1260	2527941	0	BA
Aroclor 1260	2527941	0	BA
Aroclor 1260	2527941	0	BA
Aroclor 1260	2527941	0	BA
Aroclor 1260	2527941	0	BA
Tetrachloro-m-xylene	5273859	5273859	
Decachlorobiphenyl	5019470	5019470	

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SAMPLE NO.

TD4-170828-01-PKSD-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: 10/04/2017 14:05
Matrix: Tissue SDG No.: 40157937
Date Extracted: 04/20/2018 07:02
Lab Sample ID: 40157937012
Date Analyzed: 04/23/2018 18:13
Lab File ID: 042318.B\042318021.D
Initial wt/vol: 10.0097 Final wt/vol: 5 mL Dilution: 2
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<22.8	U
11104-28-2	PCB-1221 (Aroclor 1221)	<22.8	U
11141-16-5	PCB-1232 (Aroclor 1232)	<22.8	U
53469-21-9	PCB-1242 (Aroclor 1242)	<22.8	U
12672-29-6	PCB-1248 (Aroclor 1248)	334	
11097-69-1	PCB-1254 (Aroclor 1254)	154	
11096-82-5	PCB-1260 (Aroclor 1260)	29.6	J
1336-36-3	PCB, Total	517	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042318.b\042318021.D
Lab Smp Id: 40157937012 Client Smp ID: TD4-170828-01-PKSD-
Inj Date : 23-APR-2018 18:13
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157937012 x2,
Misc Info : 17718,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042318.b\pcba030618.m
Meth Date : 24-Apr-2018 13:17 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 21
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
1.157	18628	13465	0.723	0.04		
1.688	15683	12090	0.771	0.04		
1.769	14474	12179	0.841	0.03		
1.800	20077	9722	0.484	0.05		
2.173	11469	10191	0.889	0.02		
2.294	13656	12104	0.886	0.03		
2.317	18786	15711	0.836	0.04		
2.356	9293	8700	0.936	0.02		
2.410	122103	97322	0.797	0.31		
2.485	6015275	5561296	0.925	16.01	$ 2 Tetrachloro-m-xylene	
2.790	25438	21370	0.840	0.06		
2.851	65402	52961	0.810	0.16		
2.975	67980	29778	0.438	0.17		
3.020	40930	39544	0.966	0.10		
3.056	123502	109713	0.888	0.31		
3.318	117181	109533	0.935	0.30		
3.344	126462	115428	0.913	0.32		
3.435	175309	156890	0.895	0.45		
3.519	261048	224837	0.861	0.67		
3.648	23271	20178	0.867	0.05		
3.732	152294	150946	0.991	0.39		
3.756	79760	70643	0.886	0.20		
3.819	387175	446127	1.152	0.99		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.826	527069	512923	0.973	1.35	
3.939	190190	134903	0.709	0.48	
3.995	224021	198996	0.888	0.57	
4.059	113714	97953	0.861	0.29	
4.135	22325	17847	0.799	0.05	
4.215	1204126	1082374	0.899	3.10	
4.261	1157901	1094700	0.945	2.98	6 Aroclor 1248
4.292	1119663	911427	0.814	2.88	
4.417	520909	484758	0.931	1.34	
4.452	518692	458540	0.884	1.33	
4.546	1017188	937371	0.922	2.61	6 Aroclor 1248
4.589	77771	68718	0.884	0.20	
4.617	112398	89358	0.795	0.28	
4.681	78816	56593	0.718	0.20	
4.731	117105	72494	0.619	0.30	
4.768	188347	168276	0.893	0.48	
4.813	712972	670640	0.941	1.83	6 Aroclor 1248
4.848	637050	612228	0.961	1.64	
4.878	1695737	1103385	0.651	4.36	6 Aroclor 1248
4.956	285265	219295	0.769	0.73	
5.037	877029	754998	0.861	2.25	6 Aroclor 1248
5.101	441857	346325	0.784	1.13	
5.162	949465	831396	0.876	2.44	7 Aroclor 1254
5.211	765019	645246	0.843	1.96	
5.284	99454	79413	0.798	0.25	
5.309	153514	104780	0.683	0.39	
5.362	348575	287746	0.825	0.89	
5.407	667159	569498	0.854	1.71	7 Aroclor 1254
5.447	632152	530357	0.839	1.62	
5.485	61579	69344	1.126	0.15	
5.509	1127320	941256	0.835	2.90	7 Aroclor 1254
5.578	70668	48269	0.683	0.18	
5.603	231090	167039	0.723	0.59	
5.675	238378	186484	0.782	0.61	
5.711	137581	96885	0.704	0.35	
5.742	207793	146378	0.704	0.53	
5.790	1400712	994651	0.710	3.60	
5.887	192959	99881	0.518	0.49	
5.929	129885	65870	0.507	0.33	
5.994	201707	166646	0.826	0.51	
6.024	640458	559399	0.873	1.64	7 Aroclor 1254
6.055	789378	602051	0.763	2.03	
6.168	245703	130429	0.531	0.63	
6.228	99866	87584	0.877	0.25	
6.241	138171	90461	0.655	0.35	
6.299	1019528	822354	0.807	2.62	7 Aroclor 1254
6.331	149079	118807	0.797	0.38	
6.374	114913	61731	0.537	0.29	
6.432	156724	75227	0.480	0.40	
6.509	236756	196471	0.830	0.60	
6.535	311226	196238	0.631	0.80	
6.605	84353	46460	0.551	0.21	
6.662	80169	37029	0.462	0.20	
6.716	128968	76133	0.590	0.33	
6.756	134374	83422	0.621	0.34	
6.801	172737	125084	0.724	0.44	
6.838	121363	58140	0.479	0.31	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.911	39136	25761	0.658	0.10	
6.942	147233	106294	0.722	0.37	
7.004	234950	192585	0.820	0.60	8 Aroclor 1260
7.034	36024	31038	0.862	0.09	
7.098	21087	18717	0.888	0.05	
7.121	42221	21030	0.498	0.10	
7.249	134856	111842	0.829	0.34	8 Aroclor 1260
7.281	94355	55061	0.584	0.24	
7.340	62248	34298	0.551	0.16	
7.392	52116	48966	0.940	0.13	
7.442	121268	73522	0.606	0.31	8 Aroclor 1260
7.537	23263	14998	0.645	0.05	
7.581	19517	16503	0.846	0.05	
7.662	22457	25901	1.153	0.05	
7.698	8754	11454	1.308	0.02	
7.727	43955	28496	0.648	0.11	
7.808	56801	26233	0.462	0.14	
7.899	66207	44353	0.670	0.17	8 Aroclor 1260
8.047	64812	53706	0.829	0.16	
8.273	72097	65214	0.905	0.18	
8.570	5415914	4543329	0.839	13.94	$ 12 Decachlorobiphenyl
8.646	9737	8188	0.841	0.02	
8.723	13056	11769	0.901	0.03	
9.167	51121	45751	0.895	0.13	
	38837300	32407998		100.000	

Total unknown % area = 43

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042318.b\042318021.D
Lab Smp Id: 40157937012 Client Smp ID: TD4-170828-01-PKSD-
Inj Date : 23-APR-2018 18:13
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157937012 x2,
Misc Info : 17718,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042318.b\pcba030618.m
Meth Date : 24-Apr-2018 13:17 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 21
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

Operator disabled compound identification.

$	2 Tetrachloro-m-xylene					CAS #: 877-09-8		
2.485	2.484	0.001	6015274	0.04879	49			

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	1157900	0.49420	490	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1017188	0.24509	240	0.00- 20.00	87.85	BA
4.813	4.812	0.001	712972	0.35120	350	0.00- 20.00	61.57	BA
4.878	4.879	-0.001	1695737	0.33663	340	0.00- 20.00	146.45	BA
5.037	5.038	-0.001	877028	0.24440	240	0.00- 20.00	75.74	BA
Average of Peak Concentrations =					330			
7 Aroclor 1254					CAS #: 11097-69-1			
5.162	5.162	0.000	949464	0.18136	180	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	667159	0.15512	150	0.00- 20.00	70.27	BA
5.509	5.510	-0.001	1127320	0.14516	140	0.00- 20.00	118.73	BA
6.023	6.027	-0.004	640458	0.13152	130	0.00- 20.00	67.45	BA
6.298	6.299	-0.001	1019528	0.15668	160	0.00- 20.00	107.38	BA
Average of Peak Concentrations =					150			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
7.003	7.006	-0.003	234949	0.02346	23	0.00- 20.00	0.00	BA
7.249	7.251	-0.002	134855	0.02821	28	0.00- 20.00	0.00	BA
7.441	7.443	-0.002	121267	0.04160	42	0.00- 20.00	0.00	BA
7.899	7.901	-0.002	66207	0.02509	25	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					30			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	5415914	0.04943	49			

QC Flag Legend

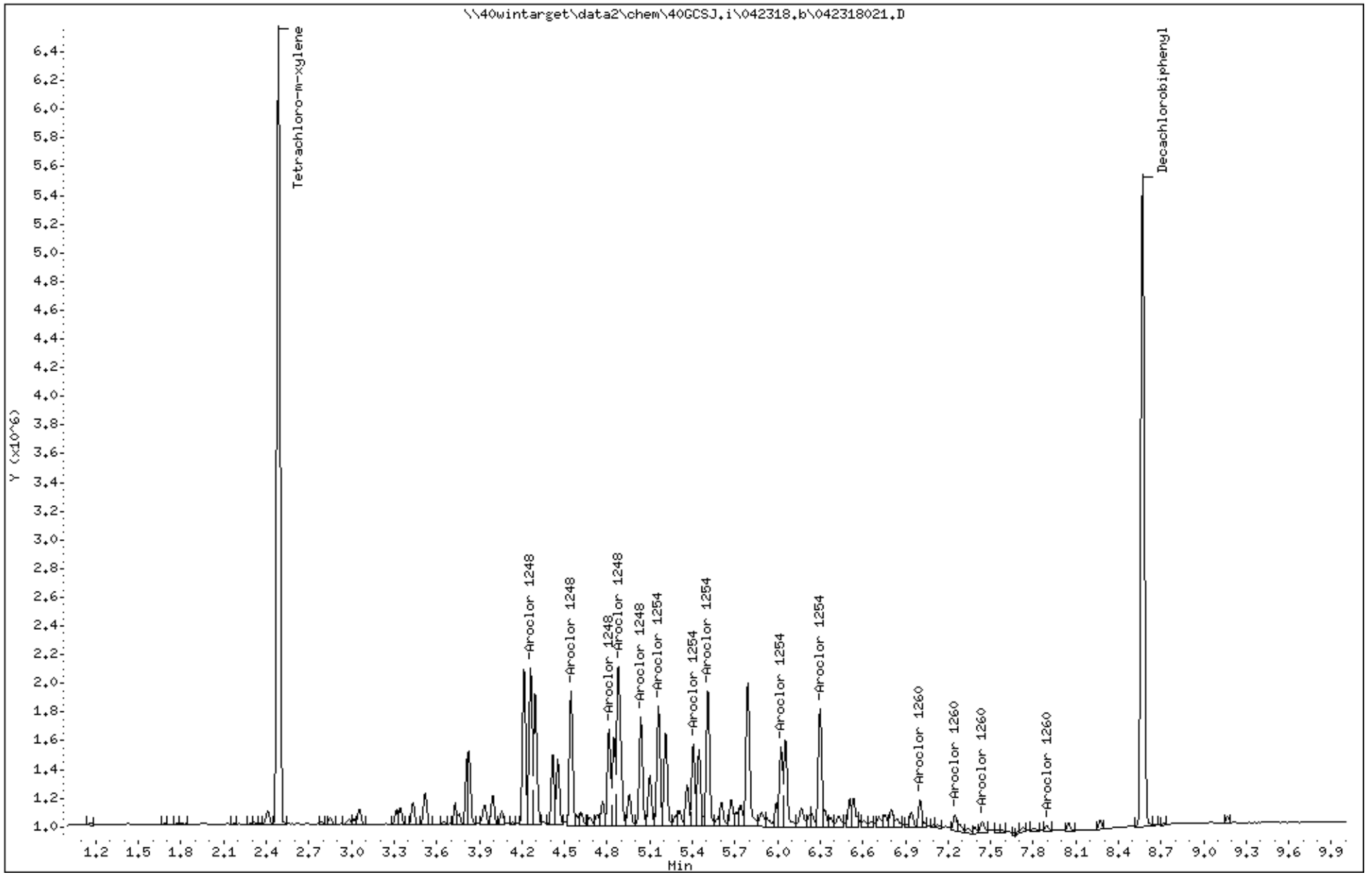
M - Compound response manually integrated.

Review Codes Legend

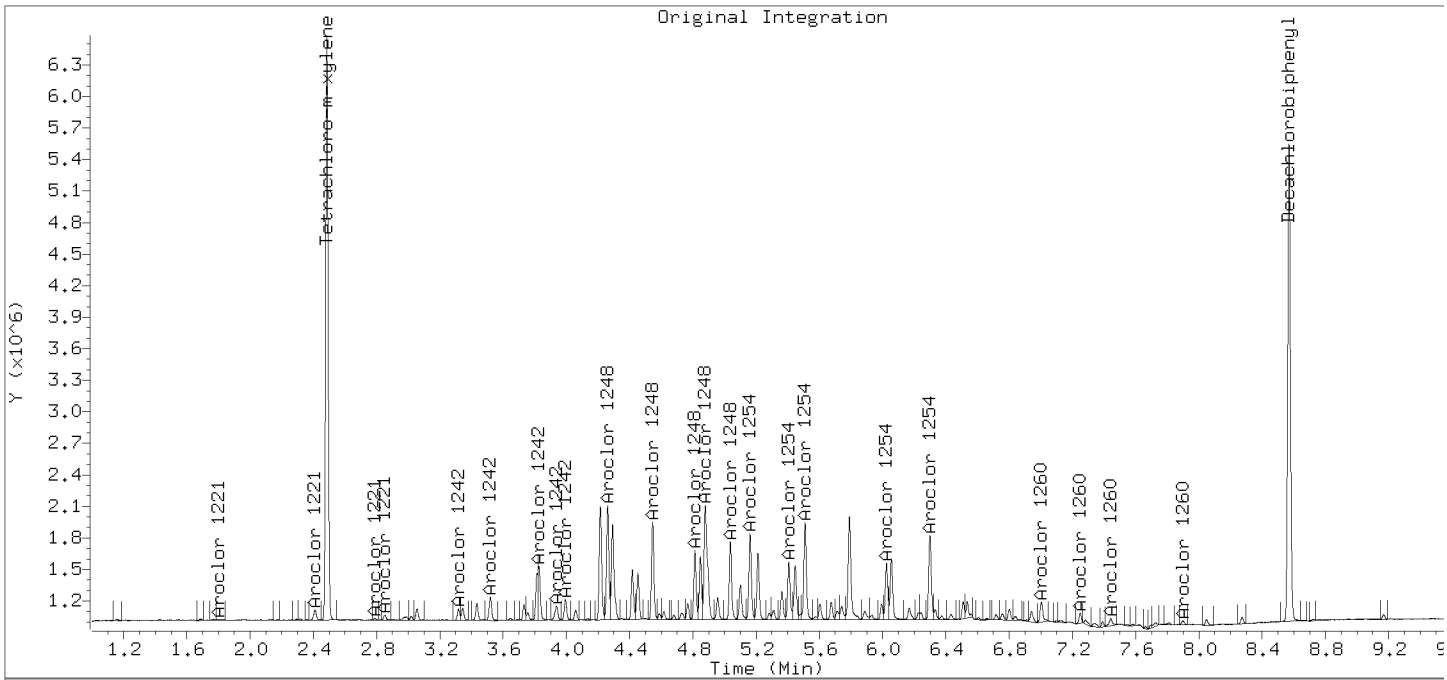
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

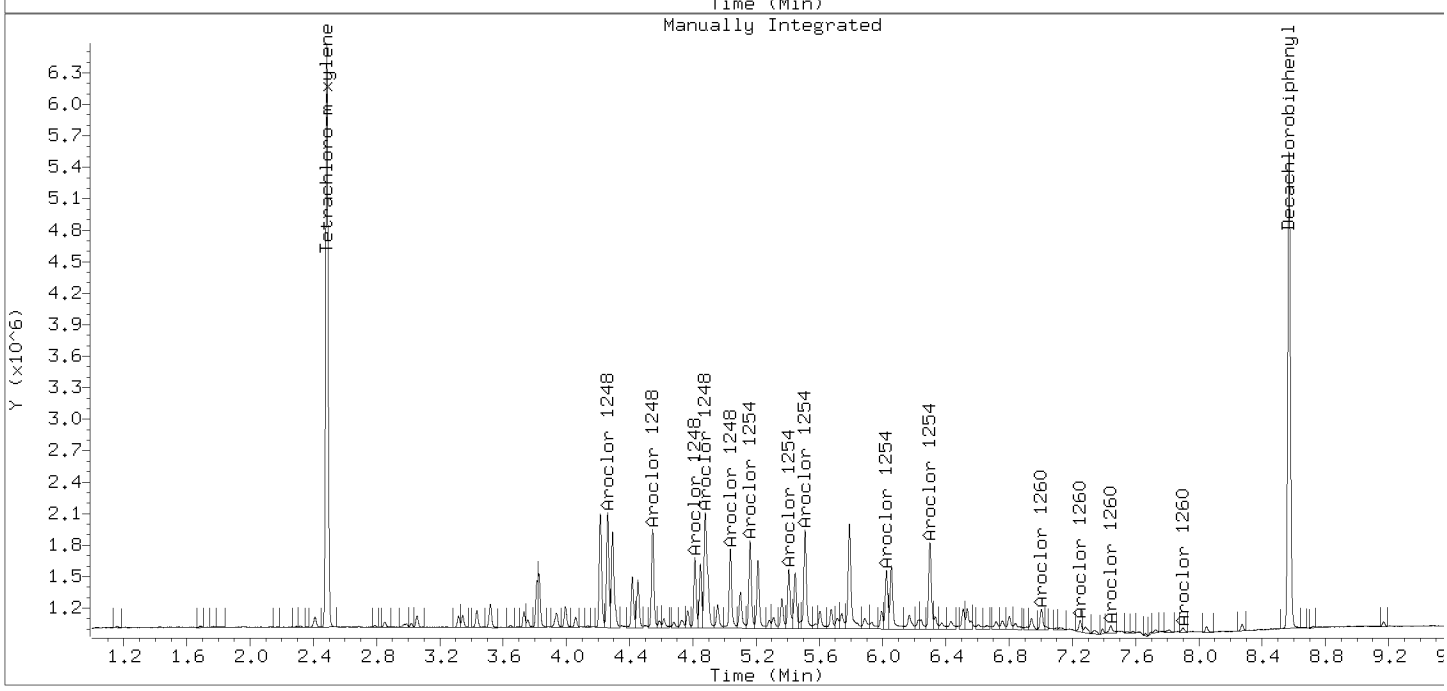
Data File: \\40wintarget\data2\chem\40GCSJ.i\042318.b\042318021.D
Date : 23-APR-2018 18:13
Client ID: TD4-170828-01-PKSD-
Sample Info: 40157937012 x2,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\042318.b/042318021.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 23-APR-2018 18:13 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157937012





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	117180	0	
Aroclor 1016	117180	0	
Aroclor 1016	117180	0	
Aroclor 1016	117180	0	
Aroclor 1016	117180	0	
Aroclor 1221	20077	0	
Aroclor 1221	20077	0	
Aroclor 1221	20077	0	
Aroclor 1221	20077	0	
Aroclor 1221	20077	0	
Aroclor 1232	65401	0	
Aroclor 1232	65401	0	
Aroclor 1232	65401	0	
Aroclor 1232	65401	0	

Aroclor 1232	65401	0	
Aroclor 1242	117180	0	
Aroclor 1242	117180	0	
Aroclor 1242	117180	0	
Aroclor 1242	117180	0	
Aroclor 1242	117180	0	
Aroclor 1248	1138640	1157900	BA
Aroclor 1248	1138640	1157900	BA
Aroclor 1248	1138640	1157900	BA
Aroclor 1248	1138640	1157900	BA
Aroclor 1248	1138640	1157900	BA
Aroclor 1254	899033	949464	BA
Aroclor 1254	899033	949464	BA
Aroclor 1254	899033	949464	BA
Aroclor 1254	899033	949464	BA
Aroclor 1254	899033	949464	BA
Aroclor 1260	947588	0	BA
Aroclor 1260	947588	0	BA
Aroclor 1260	947588	0	BA
Aroclor 1260	947588	0	BA
Aroclor 1260	947588	0	BA
Tetrachloro-m-xylene	6015274	6015274	
Decachlorobiphenyl	5415914	5415914	

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SAMPLE NO.

TD4-170828-01-PKSD-02

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/04/2017 14:05
Matrix: Tissue SDG No.: 40157937
Date Extracted: 04/20/2018 07:02
Lab Sample ID: 40157937013
Date Analyzed: 04/24/2018 14:13
Lab File ID: 042418.B\042418008.D
Initial wt/vol: 7.9251 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)	<28.8	U
11104-28-2	PCB-1221 (Aroclor 1221)	123	J
11141-16-5	PCB-1232 (Aroclor 1232)	<28.8	U
53469-21-9	PCB-1242 (Aroclor 1242)	<28.8	U
12672-29-6	PCB-1248 (Aroclor 1248)	612	
11097-69-1	PCB-1254 (Aroclor 1254)	244	
11096-82-5	PCB-1260 (Aroclor 1260)	37.7	J
1336-36-3	PCB, Total	1020	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418008.D
Lab Smp Id: 40157937013 Client Smp ID: TD4-170828-01-PKSD-
Inj Date : 24-APR-2018 14:13
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157937013 x2,
Misc Info : 17718,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042418.b\pcba030618.m
Meth Date : 25-Apr-2018 09:54 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 8
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	7.925	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.688	20407	16918	0.829	0.03		
1.768	17955	18656	1.039	0.03		
2.364	9780	9301	0.951	0.01		
2.410	139818	104203	0.745	0.27	1 Aroclor 1221	BA
2.485	6109671	5592546	0.915	12.43	$ 2 Tetrachloro-m-xylene	BA
2.684	24888	16935	0.680	0.04	1 Aroclor 1221	BA
2.790	55500	43876	0.791	0.10	1 Aroclor 1221	BA
2.852	216604	187121	0.864	0.42	1 Aroclor 1221	BA
2.974	60178	27016	0.449	0.11		
3.017	34555	32381	0.937	0.06		
3.055	233633	208236	0.891	0.45		
3.317	320898	305329	0.951	0.62		
3.344	561936	509650	0.907	1.09		
3.434	470635	432572	0.919	0.91		
3.520	943130	873087	0.926	1.83		
3.645	64468	58612	0.909	0.12		
3.732	513715	501891	0.977	0.99		
3.756	282508	266858	0.945	0.54		
3.814	2489141	1479143	0.594	4.83		
3.938	432265	321061	0.743	0.84		
3.993	483396	442903	0.916	0.93		
4.058	231396	197170	0.852	0.44		
4.135	35669	24479	0.686	0.06		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.214	2015227	1855930	0.921	3.91	
4.261	1911249	1805381	0.945	3.71	6 Aroclor 1248
4.292	2015051	1598540	0.793	3.91	
4.345	41257	27252	0.661	0.08	
4.417	696948	668940	0.960	1.35	
4.452	749347	662440	0.884	1.45	
4.545	1806183	1620893	0.897	3.51	6 Aroclor 1248
4.588	127989	111927	0.875	0.24	
4.615	156254	120559	0.772	0.30	
4.680	105912	82567	0.780	0.20	
4.732	138276	86761	0.627	0.26	
4.768	261986	237190	0.905	0.50	
4.813	960523	902732	0.940	1.86	6 Aroclor 1248
4.847	844741	787840	0.933	1.64	
4.878	2194620	1319721	0.601	4.26	6 Aroclor 1248
4.957	439687	359070	0.817	0.85	
5.037	952591	840699	0.883	1.85	6 Aroclor 1248
5.100	672215	552655	0.822	1.30	
5.161	1152600	1010523	0.877	2.24	7 Aroclor 1254
5.211	976276	817813	0.838	1.89	
5.283	121591	111567	0.918	0.23	
5.310	179484	130784	0.729	0.34	
5.362	391971	344774	0.880	0.76	
5.406	818746	711908	0.870	1.59	7 Aroclor 1254
5.447	712966	601495	0.844	1.38	
5.478	104162	94494	0.907	0.20	
5.509	1574021	1345733	0.855	3.05	7 Aroclor 1254
5.577	78900	59086	0.749	0.15	
5.604	261557	198500	0.759	0.50	
5.674	295387	255351	0.864	0.57	
5.710	189520	134388	0.709	0.36	
5.741	280807	198072	0.705	0.54	
5.790	1695629	1243663	0.733	3.29	
5.887	228931	125623	0.549	0.44	
5.931	127303	79828	0.627	0.24	
5.993	245368	199270	0.812	0.47	
6.024	823877	719694	0.874	1.60	7 Aroclor 1254
6.054	854659	704432	0.824	1.66	
6.168	249026	150752	0.605	0.48	
6.227	199955	104260	0.521	0.38	
6.300	1203086	950847	0.790	2.33	7 Aroclor 1254
6.333	168284	136081	0.809	0.32	
6.373	112192	63838	0.569	0.21	
6.430	169083	92056	0.544	0.32	
6.509	313867	276557	0.881	0.61	
6.534	245215	208570	0.851	0.47	
6.558	116596	92355	0.792	0.22	
6.606	72895	43029	0.590	0.14	
6.659	60074	34974	0.582	0.11	
6.717	154073	100825	0.654	0.29	
6.757	147234	110790	0.752	0.28	
6.802	190340	153353	0.806	0.36	
6.838	107045	63050	0.589	0.20	
6.910	30718	23233	0.756	0.05	
6.943	126333	99348	0.786	0.24	
7.003	252352	211446	0.838	0.49	8 Aroclor 1260
7.034	26691	32477	1.217	0.05	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.121	36825	27164	0.738	0.07	
7.248	158157	124634	0.788	0.30	8 Aroclor 1260
7.281	101754	61486	0.604	0.19	
7.339	48046	28461	0.592	0.09	
7.388	73484	68274	0.929	0.14	
7.441	123448	89484	0.725	0.23	8 Aroclor 1260
7.582	14234	12290	0.863	0.02	
7.613	24495	16063	0.656	0.04	
7.660	15225	18804	1.235	0.02	
7.694	26593	25278	0.951	0.05	
7.725	45758	35604	0.778	0.08	
7.811	40710	23358	0.574	0.07	
7.899	49551	39365	0.794	0.09	8 Aroclor 1260
8.049	58168	48880	0.840	0.11	
8.275	76343	67983	0.890	0.14	
8.376	16350	12152	0.743	0.03	
8.569	5608148	5001139	0.892	10.89	$ 12 Decachlorobiphenyl
8.725	11017	9238	0.839	0.02	
9.167	22299	16457	0.738	0.04	
	51451617	43071994		100.000	

Total unknown % area = 49

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418008.D
Lab Smp Id: 40157937013 Client Smp ID: TD4-170828-01-PKSD-
Inj Date : 24-APR-2018 14:13
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157937013 x2,
Misc Info : 17718,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042418.b\pcba030618.m
Meth Date : 25-Apr-2018 09:54 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 8
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	7.925	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	139818	0.25522	320	0.00- 20.00	0.00	BA
2.683	2.688	-0.005	24888	0.01799	23	0.00- 20.00	0.00	BA
2.789	2.789	0.000	55500	0.05019	63	0.00- 20.00	0.00	BA
2.851	2.851	0.000	216604	0.06654	84	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					120			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	6109671	0.04955	62		(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	1911249	0.81574	1000	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1806183	0.43519	550	0.00- 20.00	94.50	BA
4.812	4.812	0.000	960522	0.47314	600	0.00- 20.00	50.26	BA
4.878	4.879	-0.001	2194619	0.43566	550	0.00- 20.00	114.83	BA
5.036	5.038	-0.002	952590	0.26545	330	0.00- 20.00	49.84	BA
Average of Peak Concentrations =					610			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	1152599	0.22016	280	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	818745	0.19036	240	0.00- 20.00	71.03	BA
5.508	5.510	-0.002	1574021	0.20268	260	0.00- 20.00	136.56	BA
6.024	6.027	-0.003	823877	0.16918	210	0.00- 20.00	71.48	BA
6.299	6.299	0.000	1203085	0.18489	230	0.00- 20.00	104.38	BA
Average of Peak Concentrations =					240			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	CO
7.002	7.006	-0.004	252352	0.02520	32	0.00- 20.00	23.15	CO
7.248	7.251	-0.003	158157	0.03309	42	0.00- 20.00	13.15	CO
7.440	7.443	-0.003	123448	0.04235	53	0.00- 20.00	10.26	CO
7.898	7.901	-0.003	49551	0.01878	24	0.00- 20.00	4.12	CO
Average of Peak Concentrations =					38			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.568	8.571	-0.003	5608147	0.05119	64			

QC Flag Legend

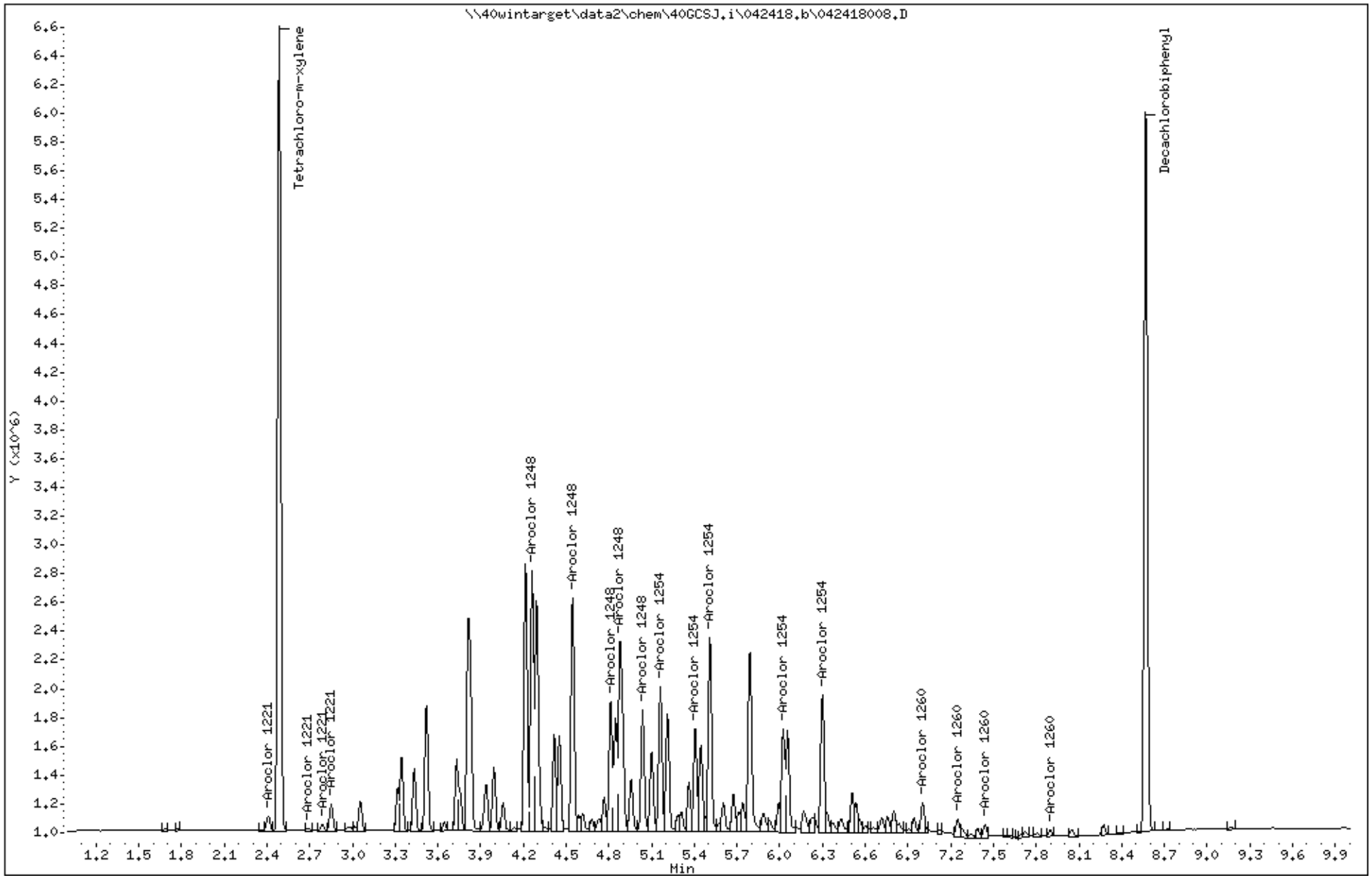
M - Compound response manually integrated.

Review Codes Legend

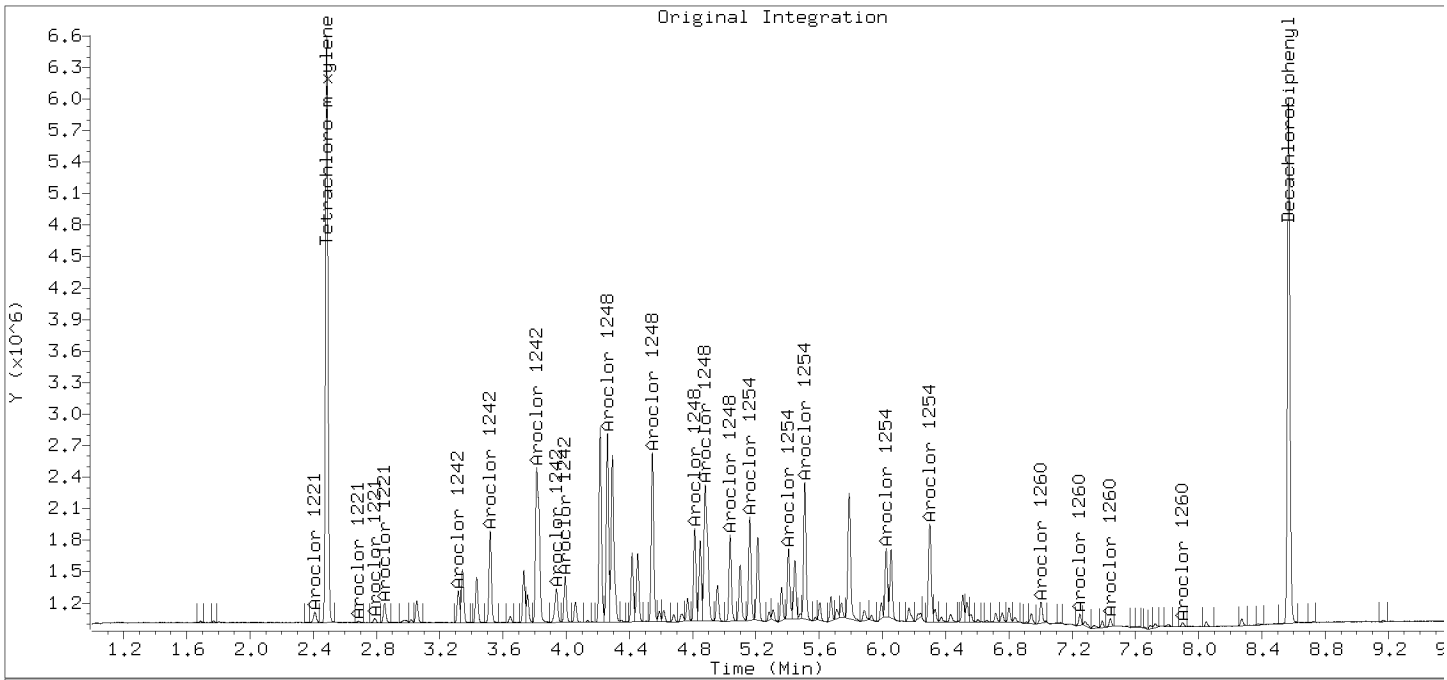
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

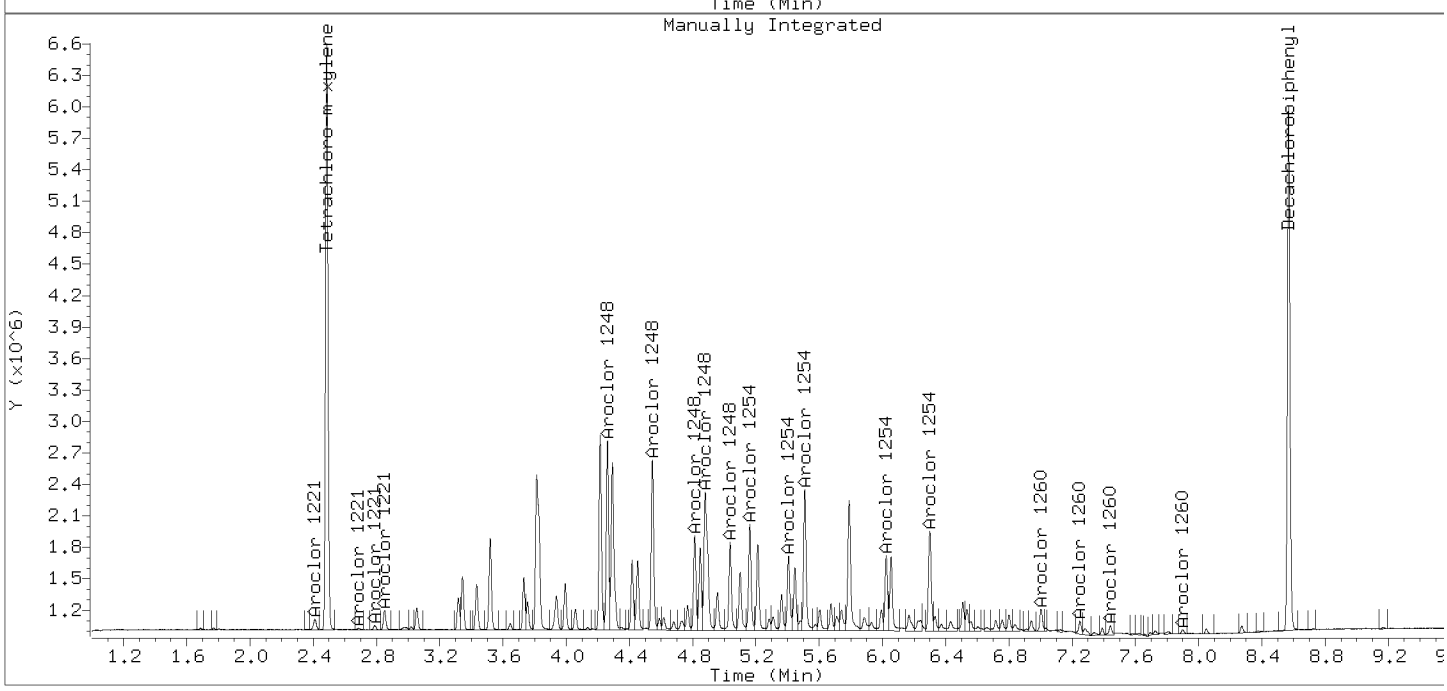
Data File: \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418008.D
Date : 24-APR-2018 14:13
Client ID: TD4-170828-01-PKSD-
Sample Info: 40157937013 x2,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\042418.b/042418008.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 24-APR-2018 14:13 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157937013





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	316365	0	
Aroclor 1016	316365	0	
Aroclor 1016	316365	0	
Aroclor 1016	316365	0	
Aroclor 1016	316365	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	208830	0	
Aroclor 1232	208830	0	
Aroclor 1232	208830	0	
Aroclor 1232	208830	0	

Aroclor 1232	208830	0	
Aroclor 1242	316365	0	
Aroclor 1242	316365	0	
Aroclor 1242	316365	0	
Aroclor 1242	316365	0	
Aroclor 1242	316365	0	
Aroclor 1248	1892880	1911249	BA
Aroclor 1248	1892880	1911249	BA
Aroclor 1248	1892880	1911249	BA
Aroclor 1248	1892880	1911249	BA
Aroclor 1248	1892880	1911249	BA
Aroclor 1254	1058480	1152599	BA
Aroclor 1254	1058480	1152599	BA
Aroclor 1254	1058480	1152599	BA
Aroclor 1254	1058480	1152599	BA
Aroclor 1254	1058480	1152599	BA
Aroclor 1260	1147492	0	CO
Aroclor 1260	1147492	0	CO
Aroclor 1260	1147492	0	CO
Aroclor 1260	1147492	0	CO
Aroclor 1260	1147492	0	CO
Tetrachloro-m-xylene	6089552	6109671	BA
Decachlorobiphenyl	5608147	5608147	

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SAMPLE NO.

TD4-170828-01-PKSD-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: 10/04/2017 14:05
Matrix: Tissue SDG No.: 40157937
Date Extracted: 04/20/2018 07:02
Lab Sample ID: 40157937014
Date Analyzed: 04/23/2018 18:44
Lab File ID: 042318.B\042318023.D
Initial wt/vol: 9.9813 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)	176	
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)	801	
11097-69-1	PCB-1254 (Aroclor 1254)	403	
11096-82-5	PCB-1260 (Aroclor 1260)	55.5	J
1336-36-3	PCB, Total	1440	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042318.b\042318023.D
Lab Smp Id: 40157937014 Client Smp ID: TD4-170828-01-PKSD-
Inj Date : 23-APR-2018 18:44
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157937014 x3,
Misc Info : 17718,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042318.b\pcba030618.m
Meth Date : 24-Apr-2018 13:17 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	9.981	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.156	13972	10706	0.766	0.02		
1.686	16785	12030	0.717	0.03		
2.291	11524	10392	0.902	0.02		
2.314	15623	13135	0.841	0.02		
2.409	208555	159608	0.765	0.39	1 Aroclor 1221	BA
2.485	4194492	3962079	0.945	8.44	$ 2 Tetrachloro-m-xylene	BA
2.687	21892	17786	0.812	0.04	1 Aroclor 1221	BA
2.788	37667	30372	0.806	0.07	1 Aroclor 1221	BA
2.851	126176	114669	0.909	0.23	1 Aroclor 1221	BA
2.975	58701	27510	0.469	0.11		
3.020	30324	31783	1.048	0.05		
3.056	280596	253890	0.905	0.53		
3.317	235803	227501	0.965	0.44		
3.344	312628	292238	0.935	0.59		
3.434	418721	391812	0.936	0.79		
3.519	536499	497227	0.927	1.01		
3.645	73244	60576	0.827	0.13		
3.732	312430	307476	0.984	0.59		
3.755	148658	137082	0.922	0.28		
3.814	1484054	852830	0.575	2.81		
3.938	410147	325189	0.793	0.77		
3.993	371180	339736	0.915	0.70		
4.059	195928	176629	0.902	0.37		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.136	24388	21551	0.884	0.04	
4.214	2105217	1881767	0.894	3.98	
4.261	1915715	1781972	0.930	3.62	6 Aroclor 1248
4.292	1958205	1531196	0.782	3.70	
4.417	731921	690150	0.943	1.38	
4.452	733657	652706	0.890	1.38	
4.498	25114	19242	0.766	0.04	
4.545	1766642	1592412	0.901	3.34	6 Aroclor 1248
4.588	141005	131545	0.933	0.26	
4.616	126600	100406	0.793	0.23	
4.680	143187	114286	0.798	0.27	
4.736	181004	117510	0.649	0.34	
4.767	311965	283889	0.910	0.59	
4.812	1101546	1044566	0.948	2.08	6 Aroclor 1248
4.847	1072052	1015280	0.947	2.03	
4.878	2787343	1689177	0.606	5.27	6 Aroclor 1248
4.956	551348	452114	0.820	1.04	
5.036	1170738	1045938	0.893	2.21	6 Aroclor 1248
5.100	923366	776843	0.841	1.74	
5.161	1580038	1373468	0.869	2.99	7 Aroclor 1254
5.211	1246416	1084791	0.870	2.36	
5.284	160868	141561	0.880	0.30	
5.308	238528	179683	0.753	0.45	
5.362	569635	504115	0.885	1.07	
5.405	1130821	991985	0.877	2.14	7 Aroclor 1254
5.446	975392	810118	0.831	1.84	
5.479	159254	147990	0.929	0.30	
5.509	2114148	1810364	0.856	4.00	7 Aroclor 1254
5.577	99172	76229	0.769	0.18	
5.604	328080	259004	0.789	0.62	
5.674	452602	401425	0.887	0.85	
5.711	277620	199381	0.718	0.52	
5.741	370017	273241	0.738	0.70	
5.790	2273119	1725619	0.759	4.30	
5.835	85914	70715	0.823	0.16	
5.885	307013	187158	0.610	0.58	
5.931	178601	117438	0.658	0.33	
5.994	321778	286006	0.889	0.60	
6.025	1182806	989151	0.836	2.24	7 Aroclor 1254
6.055	1092028	908964	0.832	2.06	
6.167	356160	210868	0.592	0.67	
6.227	128027	131675	1.028	0.24	
6.241	201819	146711	0.727	0.38	
6.300	1691246	1347421	0.797	3.20	7 Aroclor 1254
6.333	222297	192431	0.866	0.42	
6.373	140917	86081	0.611	0.26	
6.433	209046	133960	0.641	0.39	
6.509	407805	353721	0.867	0.77	
6.535	346089	301324	0.871	0.65	
6.558	137976	114129	0.827	0.26	
6.605	91376	58303	0.638	0.17	
6.658	77589	41547	0.535	0.14	
6.716	189038	140429	0.743	0.35	
6.758	196386	148646	0.757	0.37	
6.801	257256	205984	0.801	0.48	
6.840	144201	79693	0.553	0.27	
6.909	37744	25056	0.664	0.07	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.943	149835	118198	0.789	0.28	
7.005	298985	258949	0.866	0.56	8 Aroclor 1260
7.032	36736	39229	1.068	0.06	
7.101	21768	16623	0.764	0.04	
7.118	32590	21082	0.647	0.06	
7.249	171935	149228	0.868	0.32	8 Aroclor 1260
7.281	103420	67443	0.652	0.19	
7.341	57613	32416	0.563	0.10	
7.389	90717	87587	0.965	0.17	
7.441	147113	100578	0.684	0.27	8 Aroclor 1260
7.549	20733	18482	0.891	0.03	
7.621	35856	17317	0.483	0.06	
7.663	24389	26887	1.102	0.04	
7.696	22589	21788	0.965	0.04	
7.727	40360	31184	0.773	0.07	
7.811	46396	26768	0.577	0.08	
7.899	83272	57748	0.693	0.15	8 Aroclor 1260
8.049	53559	49329	0.921	0.10	
8.273	78487	60631	0.772	0.14	
8.571	3980162	3328501	0.836	7.53	$ 12 Decachlorobiphenyl
8.722	19101	12536	0.656	0.03	
9.168	21000	17422	0.830	0.03	
	52802053	44011117		100.000	

Total unknown % area = 51

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042318.b\042318023.D
Lab Smp Id: 40157937014 Client Smp ID: TD4-170828-01-PKSD-
Inj Date : 23-APR-2018 18:44
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157937014 x3,
Misc Info : 17718,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042318.b\pcba030618.m
Meth Date : 24-Apr-2018 13:17 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	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
2.408	2.407	0.001	208554	0.38068	570	0.00- 20.00	0.00	BA
2.686	2.688	-0.002	21892	0.01583	24	0.00- 20.00	0.00	BA
2.788	2.789	-0.001	37667	0.03406	51	0.00- 20.00	0.00	BA
2.850	2.851	-0.001	126176	0.03876	58	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					180			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	4194492	0.03402	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			
4.260	4.261	-0.001	1915715	0.81764	1200	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1766642	0.42567	640	0.00- 20.00	92.22	BA
4.811	4.812	-0.001	1101546	0.54261	820	0.00- 20.00	57.50	BA
4.877	4.879	-0.002	2787343	0.55332	830	0.00- 20.00	145.50	BA
5.035	5.038	-0.003	1170738	0.32624	490	0.00- 20.00	61.11	BA
Average of Peak Concentrations =					800			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	1580038	0.30181	450	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	1130821	0.26292	400	0.00- 20.00	71.57	BA
5.509	5.510	-0.001	2114148	0.27223	410	0.00- 20.00	133.80	BA
6.024	6.027	-0.003	1182806	0.24289	360	0.00- 20.00	74.86	BA
6.299	6.299	0.000	1691246	0.25991	390	0.00- 20.00	107.04	BA
Average of Peak Concentrations =					400			
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	298984	0.02986	45	0.00- 20.00	19.81	CO
7.248	7.251	-0.003	171935	0.03597	54	0.00- 20.00	10.17	CO
7.440	7.443	-0.003	147113	0.05047	76	0.00- 20.00	8.70	CO
7.898	7.901	-0.003	83271	0.03156	47	0.00- 20.00	4.92	CO
Average of Peak Concentrations =					56			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	3980162	0.03633	54			

QC Flag Legend

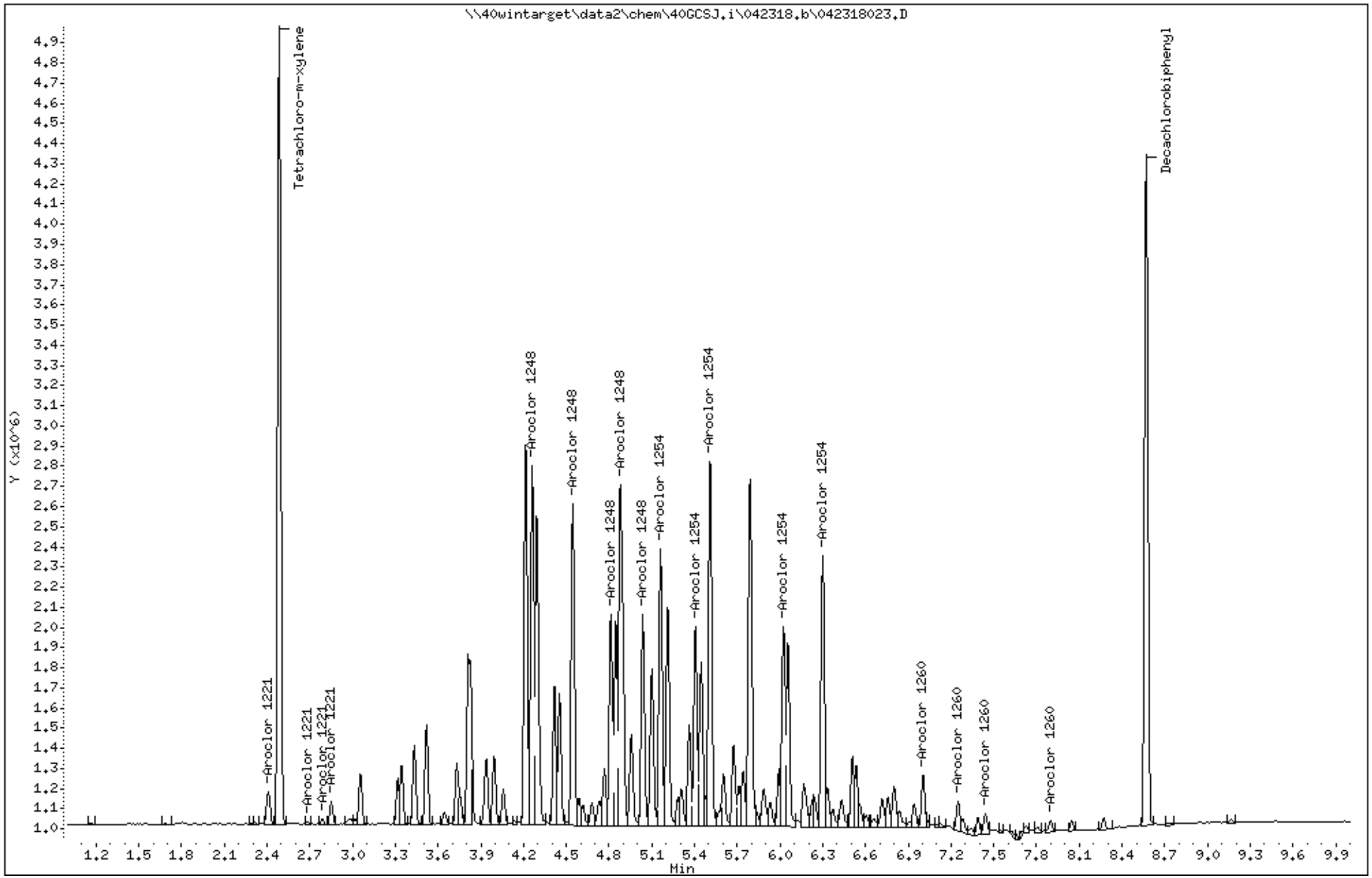
M - Compound response manually integrated.

Review Codes Legend

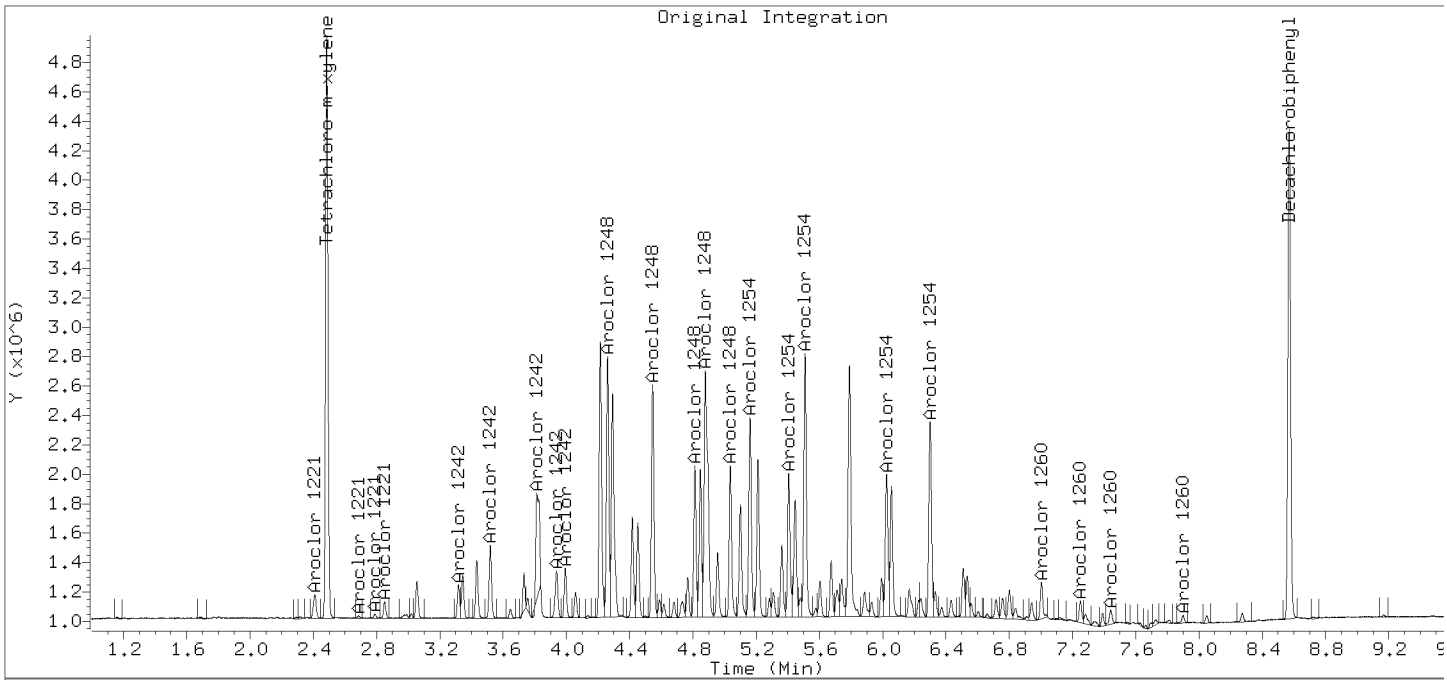
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

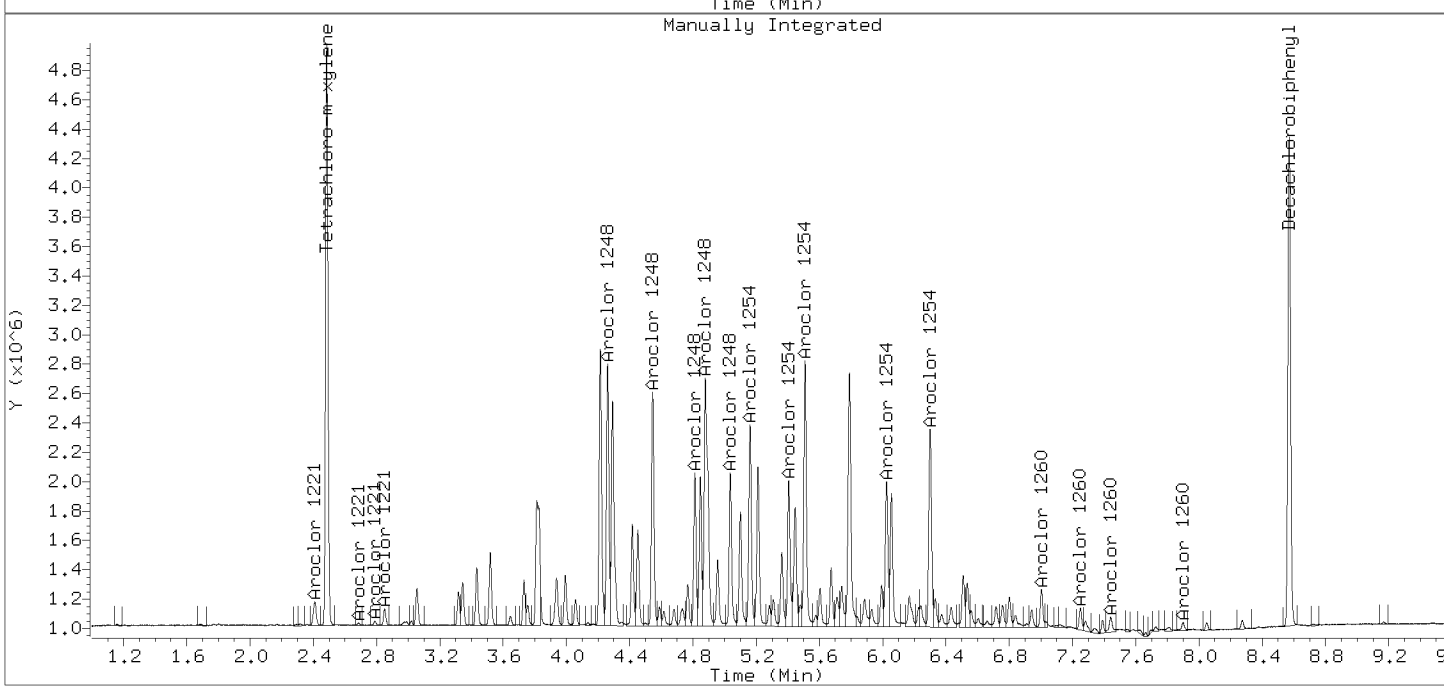
Data File: \\40wintarget\data2\chem\40GCSJ.i\042318.b\042318023.D
Date : 23-APR-2018 18:44
Client ID: TD4-170828-01-PKSD-
Sample Info: 40157937014 x3,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\042318.b/042318023.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 23-APR-2018 18:44 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157937014





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	235802	0	
Aroclor 1016	235802	0	
Aroclor 1016	235802	0	
Aroclor 1016	235802	0	
Aroclor 1016	235802	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	123236	0	
Aroclor 1232	123236	0	
Aroclor 1232	123236	0	
Aroclor 1232	123236	0	

Aroclor 1232	123236	0	
Aroclor 1242	235802	0	
Aroclor 1242	235802	0	
Aroclor 1242	235802	0	
Aroclor 1242	235802	0	
Aroclor 1242	235802	0	
Aroclor 1248	1890890	1915715	BA
Aroclor 1248	1890890	1915715	BA
Aroclor 1248	1890890	1915715	BA
Aroclor 1248	1890890	1915715	BA
Aroclor 1248	1890890	1915715	BA
Aroclor 1254	1533825	1580038	BA
Aroclor 1254	1533825	1580038	BA
Aroclor 1254	1533825	1580038	BA
Aroclor 1254	1533825	1580038	BA
Aroclor 1254	1533825	1580038	BA
Aroclor 1260	1632769	0	CO
Aroclor 1260	1632769	0	CO
Aroclor 1260	1632769	0	CO
Aroclor 1260	1632769	0	CO
Aroclor 1260	1632769	0	CO
Tetrachloro-m-xylene	4187643	4194492	BA
Decachlorobiphenyl	3980162	3980162	

==========

SAMPLE NO.

TD3-170828-01-PKSD-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: 10/04/2017 14:05
Matrix: Tissue SDG No.: 40157937
Date Extracted: 04/20/2018 07:02
Lab Sample ID: 40157937015
Date Analyzed: 04/23/2018 19:00
Lab File ID: 042318.B\042318024.D
Initial wt/vol: 4.7352 g Final wt/vol: 5 mL Dilution: 10
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<241	U
11104-28-2	PCB-1221 (Aroclor 1221)	<241	U
11141-16-5	PCB-1232 (Aroclor 1232)	<241	U
53469-21-9	PCB-1242 (Aroclor 1242)	<241	U
12672-29-6	PCB-1248 (Aroclor 1248)	6020	
11097-69-1	PCB-1254 (Aroclor 1254)	3590	
11096-82-5	PCB-1260 (Aroclor 1260)	405	J
1336-36-3	PCB, Total	10000	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042318.b\042318024.D
Lab Smp Id: 40157937015 Client Smp ID: TD3-170828-01-PKSD-
Inj Date : 23-APR-2018 19:00
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157937015 x10,
Misc Info : 17718,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042318.b\pcba030618.m
Meth Date : 24-Apr-2018 13:17 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 24
Dil Factor: 10.00000
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	10.000	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	4.735	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.410	36550	22188	0.607	0.07		
2.484	1062123	1006386	0.948	2.30	$ 2 Tetrachloro-m-xylene	
2.851	21873	16085	0.735	0.04		
3.055	46626	43918	0.942	0.10		
3.319	43444	44006	1.013	0.09		
3.344	118466	103063	0.870	0.25		
3.434	85306	75362	0.883	0.18		
3.519	205142	184404	0.899	0.44		
3.644	14180	14272	1.006	0.03		
3.731	74547	73371	0.984	0.16		
3.756	69321	64956	0.937	0.15		
3.827	654378	450273	0.688	1.41		
3.937	160930	127188	0.790	0.34		
3.993	331224	301836	0.911	0.71		
4.059	95876	86296	0.900	0.20		
4.135	17997	15287	0.849	0.03		
4.214	1566670	1437553	0.918	3.39		
4.261	1708808	1590676	0.931	3.70	6 Aroclor 1248	BA
4.292	1938317	1600653	0.826	4.19		
4.417	755163	715437	0.947	1.63		
4.452	835071	743968	0.891	1.80		
4.545	1655692	1519913	0.918	3.58	6 Aroclor 1248	BA
4.589	62020	61617	0.994	0.13		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.617	108853	95309	0.876	0.23	
4.679	84296	75709	0.898	0.18	
4.727	163723	118496	0.724	0.35	
4.768	264303	243372	0.921	0.57	
4.812	1308331	1226547	0.937	2.83	6 Aroclor 1248
4.848	1090324	1038982	0.953	2.36	
4.878	3150286	2078687	0.660	7.26	6 Aroclor 1248
4.956	459878	388923	0.846	0.99	
5.037	1623571	1518419	0.935	3.51	6 Aroclor 1248
5.101	780084	663969	0.851	1.68	
5.160	1918231	1716565	0.895	4.15	7 Aroclor 1254
5.211	1470577	1292884	0.879	3.18	
5.283	129660	126233	0.974	0.28	
5.307	166726	125625	0.753	0.36	
5.362	777386	700659	0.901	1.68	
5.406	1470716	1277243	0.868	3.18	7 Aroclor 1254
5.445	972178	832521	0.856	2.10	
5.478	113457	112031	0.987	0.24	
5.509	2585219	2245847	0.869	5.60	7 Aroclor 1254
5.575	45368	40994	0.904	0.09	
5.603	417969	346846	0.830	0.90	
5.674	317495	287524	0.906	0.68	
5.713	293137	200913	0.685	0.63	
5.741	395046	295374	0.748	0.85	
5.789	2929300	2237808	0.764	6.34	
5.885	326120	208373	0.639	0.70	
5.928	105761	71583	0.677	0.22	
5.993	276498	264460	0.956	0.59	
6.025	1582535	1367043	0.864	3.42	7 Aroclor 1254
6.055	1404375	1201500	0.856	3.04	
6.125	37225	21283	0.572	0.08	
6.168	430072	331435	0.771	0.93	
6.226	337372	185793	0.551	0.73	
6.299	2165288	1768868	0.817	4.69	7 Aroclor 1254
6.333	329197	290552	0.883	0.71	
6.373	152762	123141	0.806	0.33	
6.433	105418	69144	0.656	0.22	
6.510	292900	271989	0.929	0.63	
6.535	477076	422677	0.886	1.03	
6.559	153003	139319	0.911	0.33	
6.604	93081	72061	0.774	0.20	
6.661	45333	36564	0.807	0.09	
6.717	182241	158028	0.867	0.39	
6.758	140078	124696	0.890	0.30	
6.801	345184	300192	0.870	0.74	
6.839	111762	75376	0.674	0.24	
6.912	15775	14611	0.926	0.03	
6.942	61749	58955	0.955	0.13	
7.004	421014	373790	0.888	0.91	8 Aroclor 1260
7.032	37424	34490	0.922	0.08	
7.072	12900	11511	0.892	0.02	
7.123	15194	9830	0.647	0.03	
7.250	234899	215415	0.917	0.50	8 Aroclor 1260
7.279	81414	66208	0.813	0.17	
7.390	101426	84154	0.830	0.21	
7.442	109801	98621	0.898	0.23	8 Aroclor 1260
7.547	13408	10856	0.810	0.02	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.611	10623	7684	0.723	0.02	
7.690	30980	29958	0.967	0.06	
7.726	27155	19335	0.712	0.05	
7.798	20572	13224	0.643	0.04	
7.900	65319	55451	0.849	0.14	8 Aroclor 1260
8.050	15038	12561	0.835	0.03	
8.276	48907	41507	0.849	0.10	
8.569	1137226	971401	0.854	2.46	$ 12 Decachlorobiphenyl
9.166	11715	9796	0.836	0.02	
	46161656	39229623		100.000	

Total unknown % area = 52

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042318.b\042318024.D
Lab Smp Id: 40157937015 Client Smp ID: TD3-170828-01-PKSD-
Inj Date : 23-APR-2018 19:00
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157937015 x10,
Misc Info : 17718,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042318.b\pcba030618.m
Meth Date : 24-Apr-2018 13:17 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 24
Dil Factor: 10.00000
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	10.000	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	4.735	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221						CAS #: 11104-28-2		

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

$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.484	2.484	0.000	1062122	0.00861		91		

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3 Aroclor 1242						CAS #: 53469-21-9		

Operator disabled compound identification.

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4 Aroclor 1232						CAS #: 1114-16-5		

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	1708807	0.72933	7700	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1655692	0.39893	4200	0.00- 20.00	96.89	BA
4.812	4.812	0.000	1308331	0.64447	6800	0.00- 20.00	76.56	BA
4.878	4.879	-0.001	3150285	0.62537	6600	0.00- 20.00	184.36	BA
5.037	5.038	-0.001	1623571	0.45243	4800	0.00- 20.00	95.01	BA
Average of Peak Concentrations =					6000			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	1918231	0.36641	3900	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	1470716	0.34194	3600	0.00- 20.00	76.67	BA
5.509	5.510	-0.001	2585218	0.33289	3500	0.00- 20.00	134.77	BA
6.024	6.027	-0.003	1582535	0.32498	3400	0.00- 20.00	82.50	BA
6.299	6.299	0.000	2165287	0.33276	3500	0.00- 20.00	112.88	BA
Average of Peak Concentrations =					3600			
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	421014	0.04204	440	0.00- 20.00	21.15	CO
7.249	7.251	-0.002	234899	0.04914	520	0.00- 20.00	10.85	CO
7.442	7.443	-0.001	109800	0.03767	400	0.00- 20.00	5.07	CO
7.900	7.901	-0.001	65318	0.02475	260	0.00- 20.00	3.02	CO
Average of Peak Concentrations =					400			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	1137225	0.01038	110			

QC Flag Legend

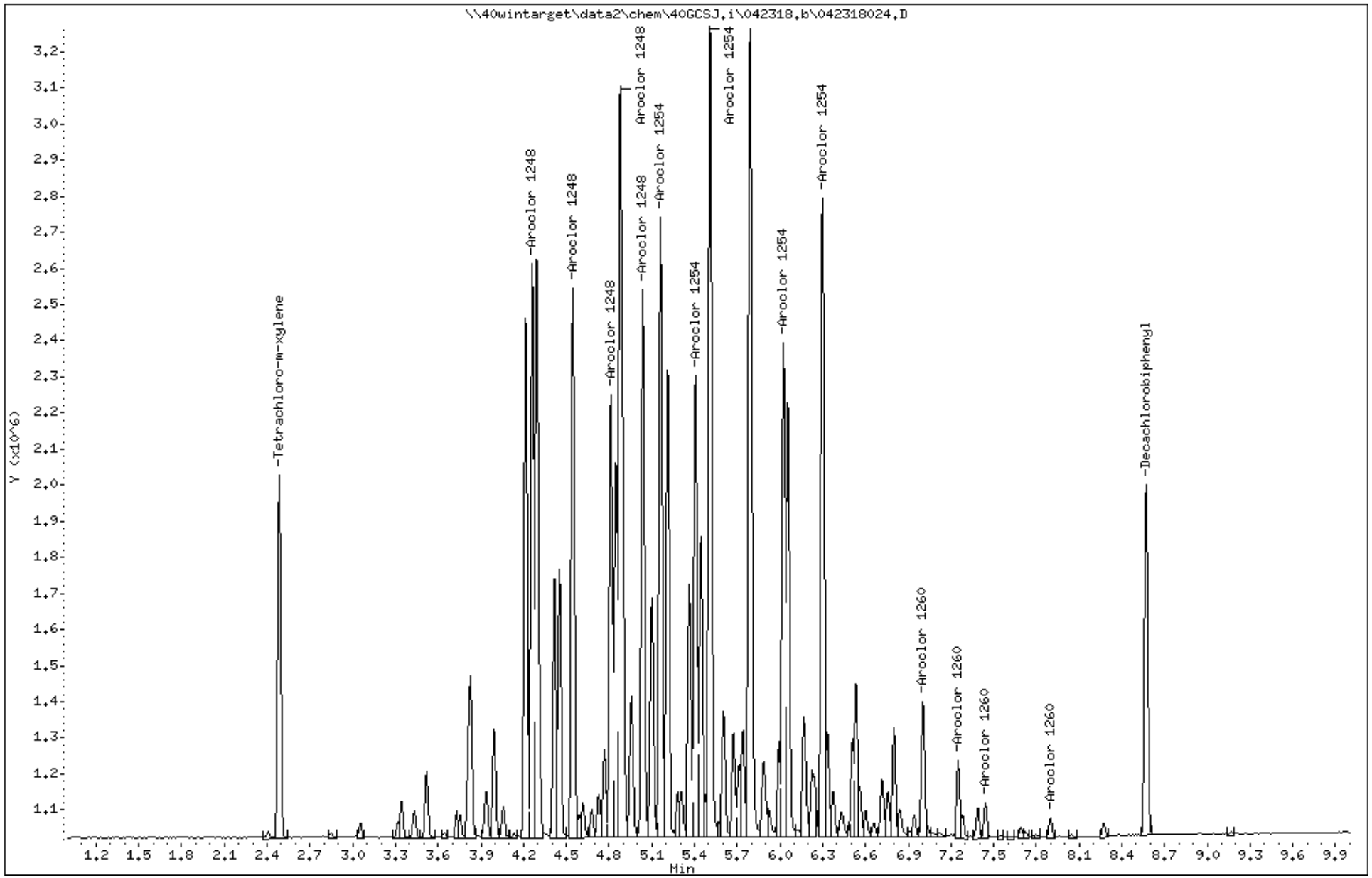
M - Compound response manually integrated.

Review Codes Legend

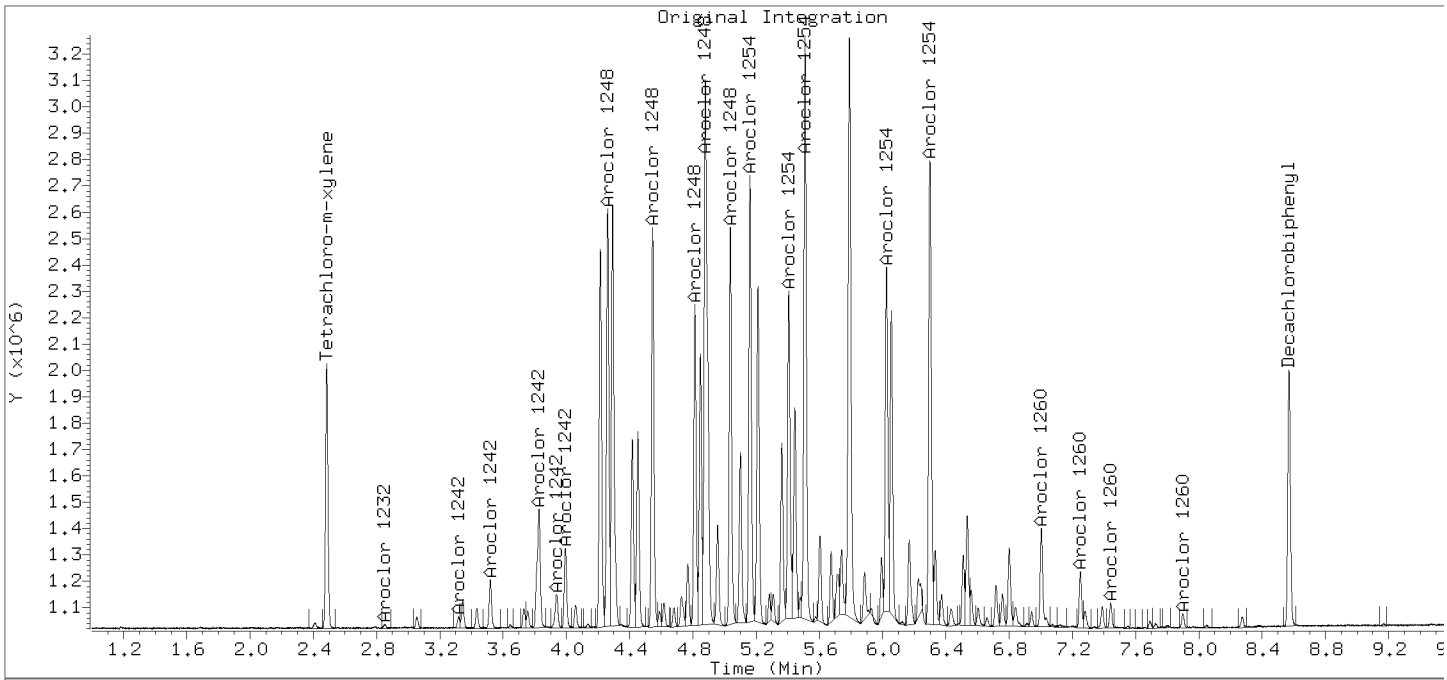
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

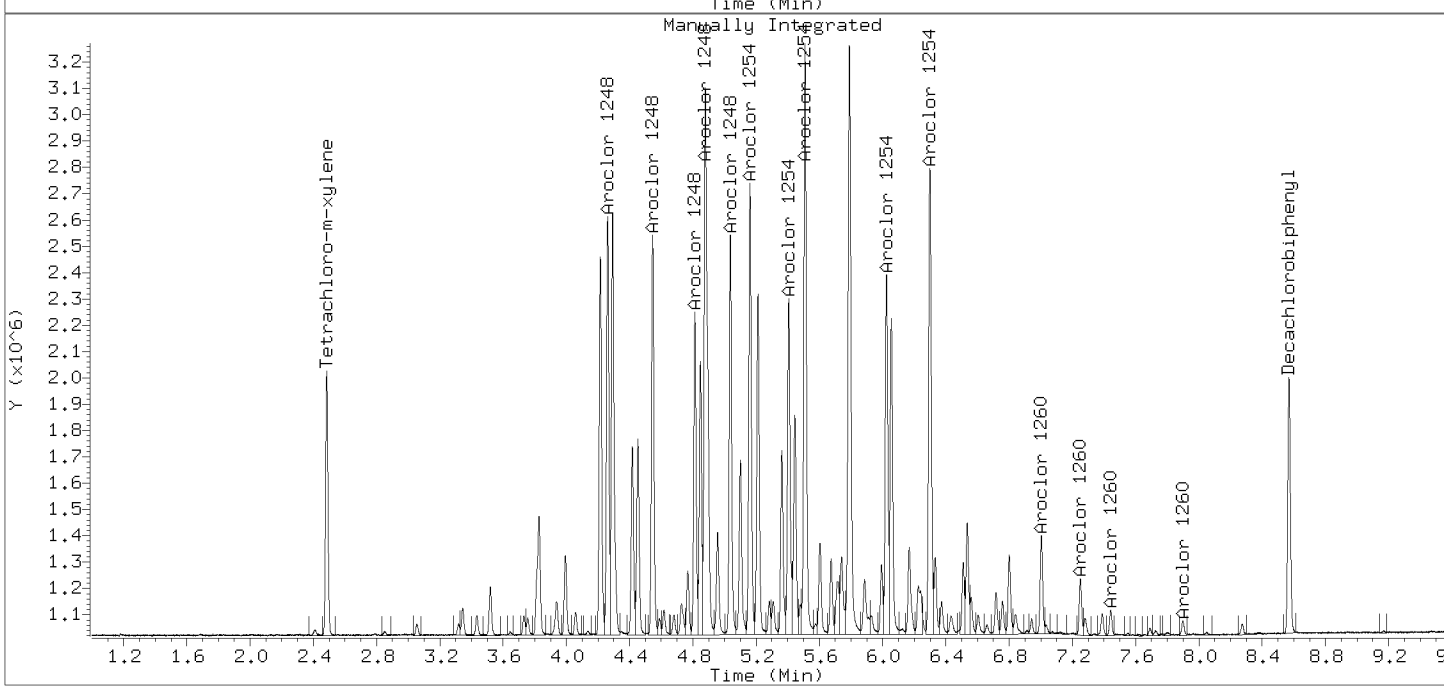
Data File: \\40wintarget\data2\chem\40GCSJ.i\042318.b\042318024.D
Date : 23-APR-2018 19:00
Client ID: TD3-170828-01-PKSD-
Sample Info: 40157937015 x10,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\042318.b/042318024.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 23-APR-2018 19:00 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157937015





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	43444	0	
Aroclor 1016	43444	0	
Aroclor 1016	43444	0	
Aroclor 1016	43444	0	
Aroclor 1016	43444	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	21873	0	
Aroclor 1232	21873	0	
Aroclor 1232	21873	0	
Aroclor 1232	21873	0	

Aroclor 1232	21873	0	
Aroclor 1242	43444	0	
Aroclor 1242	43444	0	
Aroclor 1242	43444	0	
Aroclor 1242	43444	0	
Aroclor 1242	43444	0	
Aroclor 1248	1693881	1708807	BA
Aroclor 1248	1693881	1708807	BA
Aroclor 1248	1693881	1708807	BA
Aroclor 1248	1693881	1708807	BA
Aroclor 1248	1693881	1708807	BA
Aroclor 1254	1852125	1918231	BA
Aroclor 1254	1852125	1918231	BA
Aroclor 1254	1852125	1918231	BA
Aroclor 1254	1852125	1918231	BA
Aroclor 1254	1852125	1918231	BA
Aroclor 1260	2133548	0	CO
Aroclor 1260	2133548	0	CO
Aroclor 1260	2133548	0	CO
Aroclor 1260	2133548	0	CO
Aroclor 1260	2133548	0	CO
Tetrachloro-m-xylene	1062122	1062122	
Decachlorobiphenyl	1137225	1137225	

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SAMPLE NO.

TD2-170828-01-PKSD-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: 10/04/2017 14:05
Matrix: Tissue SDG No.: 40157937
Date Extracted: 04/20/2018 07:02
Lab Sample ID: 40157937016
Date Analyzed: 04/23/2018 19:16
Lab File ID: 042318.B\042318025.D
Initial wt/vol: 9.4055 g Final wt/vol: 5 mL Dilution: 5
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<60.6	U
11104-28-2	PCB-1221 (Aroclor 1221)	<60.6	U
11141-16-5	PCB-1232 (Aroclor 1232)	<60.6	U
53469-21-9	PCB-1242 (Aroclor 1242)	<60.6	U
12672-29-6	PCB-1248 (Aroclor 1248)	1300	
11097-69-1	PCB-1254 (Aroclor 1254)	741	
11096-82-5	PCB-1260 (Aroclor 1260)	117	J
1336-36-3	PCB, Total	2160	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042318.b\042318025.D
Lab Smp Id: 40157937016 Client Smp ID: TD2-170828-01-PKSD-
Inj Date : 23-APR-2018 19:16
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157937016 x5,
Misc Info : 17718,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042318.b\pcba030618.m
Meth Date : 24-Apr-2018 13:17 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 25
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	5.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.406	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.769	11884	10292	0.866	0.02		
1.800	9236	7658	0.829	0.02		
2.316	10657	10548	0.990	0.02		
2.409	60110	44167	0.735	0.13		
2.484	2238634	2106706	0.941	5.06	$ 2 Tetrachloro-m-xylene	
2.789	10508	10208	0.971	0.02		
2.853	26936	20036	0.744	0.06		
2.977	17939	15561	0.867	0.04		
2.988	17945	18616	1.037	0.04		
3.019	21256	18587	0.874	0.04		
3.055	53605	46458	0.867	0.12		
3.317	47973	45618	0.951	0.10		
3.344	59352	53460	0.901	0.13		
3.434	51121	47343	0.926	0.11		
3.519	167771	157701	0.940	0.37		
3.648	22279	12341	0.554	0.05		
3.731	157580	151012	0.958	0.35		
3.755	63951	57217	0.895	0.14		
3.825	807962	450104	0.557	1.82		
3.937	106560	72641	0.682	0.24		
3.992	227255	206852	0.910	0.51		
4.058	96876	81846	0.845	0.21		
4.214	1535583	1409590	0.918	3.47		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.261	1647588	1590831	0.966	3.73	6 Aroclor 1248
4.292	2211422	1842070	0.833	5.00	
4.418	416982	389009	0.933	0.94	
4.452	624345	577819	0.925	1.41	
4.546	1446974	1333262	0.921	3.27	6 Aroclor 1248
4.588	109909	99746	0.908	0.24	
4.617	70168	48869	0.696	0.15	
4.680	121511	103572	0.852	0.27	
4.730	174217	116913	0.671	0.39	
4.767	320767	299167	0.933	0.72	
4.812	1150380	1103062	0.959	2.60	6 Aroclor 1248
4.847	1172966	1095138	0.934	2.65	
4.879	2602711	1648520	0.633	6.36	6 Aroclor 1248
4.956	551564	473447	0.858	1.24	
5.036	1132644	1027370	0.907	2.56	6 Aroclor 1248
5.101	791679	674905	0.852	1.79	
5.161	1619319	1383748	0.855	3.66	7 Aroclor 1254
5.212	1433759	1262434	0.881	3.24	
5.284	156615	138971	0.887	0.35	
5.308	163549	126488	0.773	0.37	
5.362	607729	531163	0.874	1.37	
5.406	1205926	1043601	0.865	2.73	7 Aroclor 1254
5.446	884543	770434	0.871	2.00	
5.477	130564	124488	0.953	0.29	
5.510	2236529	1893296	0.847	5.06	7 Aroclor 1254
5.577	73365	62564	0.853	0.16	
5.604	344353	282117	0.819	0.77	
5.675	387354	349980	0.904	0.87	
5.711	232957	166025	0.713	0.52	
5.741	374657	280845	0.750	0.84	
5.790	2403613	1818442	0.757	5.44	
5.886	257564	185439	0.720	0.58	
5.931	129679	84824	0.654	0.29	
5.992	299670	281059	0.938	0.67	
6.024	1211895	1048586	0.865	2.74	7 Aroclor 1254
6.055	1141963	955632	0.837	2.58	
6.168	318941	200156	0.628	0.72	
6.227	120057	128868	1.073	0.27	
6.240	198654	148852	0.749	0.44	
6.299	1738213	1416316	0.815	3.93	7 Aroclor 1254
6.332	221389	191909	0.867	0.50	
6.373	116290	82231	0.707	0.26	
6.432	155276	97601	0.629	0.35	
6.509	388421	339680	0.875	0.87	
6.534	398110	341822	0.859	0.90	
6.560	134122	119389	0.890	0.30	
6.604	89412	56820	0.635	0.20	
6.658	56773	38903	0.685	0.12	
6.718	187097	148768	0.795	0.42	
6.758	178620	153361	0.859	0.40	
6.801	258069	206182	0.799	0.58	
6.840	119161	73847	0.620	0.26	
6.942	99589	80308	0.806	0.22	
7.003	361262	325247	0.900	0.81	8 Aroclor 1260
7.032	35860	40450	1.128	0.08	
7.121	47822	23503	0.491	0.10	
7.250	223985	192549	0.860	0.50	8 Aroclor 1260

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.280	108933	73142	0.671	0.24	
7.341	38846	22615	0.582	0.08	
7.388	107339	103556	0.965	0.24	
7.440	168247	118224	0.703	0.38	8 Aroclor 1260
7.545	29213	20777	0.711	0.06	
7.664	18887	20053	1.062	0.04	
7.693	35546	34707	0.976	0.08	
7.728	46617	31254	0.670	0.10	
7.900	91969	71683	0.779	0.20	8 Aroclor 1260
8.049	41018	32817	0.800	0.09	
8.274	72076	60159	0.835	0.16	
8.568	2253985	1940602	0.861	5.10	$ 12 Decachlorobiphenyl
8.939	15809	8096	0.512	0.03	
9.168	25006	23424	0.937	0.05	
	44165014	37236269		100.000	

Total unknown % area = 51

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042318.b\042318025.D
Lab Smp Id: 40157937016 Client Smp ID: TD2-170828-01-PKSD-
Inj Date : 23-APR-2018 19:16
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157937016 x5,
Misc Info : 17718,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042318.b\pcba030618.m
Meth Date : 24-Apr-2018 13:17 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 25
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	5.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.406	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

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

1 Aroclor 1221 CAS #: 11104-28-2

Operator disabled compound identification.

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

2.484	2.484	0.000	2238634	0.01816	48			

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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	1647587	0.70320	1900	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1446973	0.34864	930	0.00- 20.00	87.82	BA
4.812	4.812	0.000	1150380	0.56667	1500	0.00- 20.00	69.82	BA
4.878	4.879	-0.001	2602711	0.51667	1400	0.00- 20.00	157.97	BA
5.036	5.038	-0.002	1132643	0.31563	840	0.00- 20.00	68.75	BA
Average of Peak Concentrations =					1300			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	1619318	0.30931	820	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	1205925	0.28038	740	0.00- 20.00	74.47	BA
5.509	5.510	-0.001	2236528	0.28799	760	0.00- 20.00	138.12	BA
6.024	6.027	-0.003	1211894	0.24887	660	0.00- 20.00	74.84	BA
6.298	6.299	-0.001	1738213	0.26713	710	0.00- 20.00	107.34	BA
Average of Peak Concentrations =					740			
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	361261	0.03607	96	0.00- 20.00	22.81	CO
7.250	7.251	-0.001	223984	0.04686	120	0.00- 20.00	12.89	CO
7.440	7.443	-0.003	168246	0.05772	150	0.00- 20.00	9.68	CO
7.900	7.901	-0.001	91969	0.03485	93	0.00- 20.00	5.29	CO
Average of Peak Concentrations =					120			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.568	8.571	-0.003	2253985	0.02057	55			

QC Flag Legend

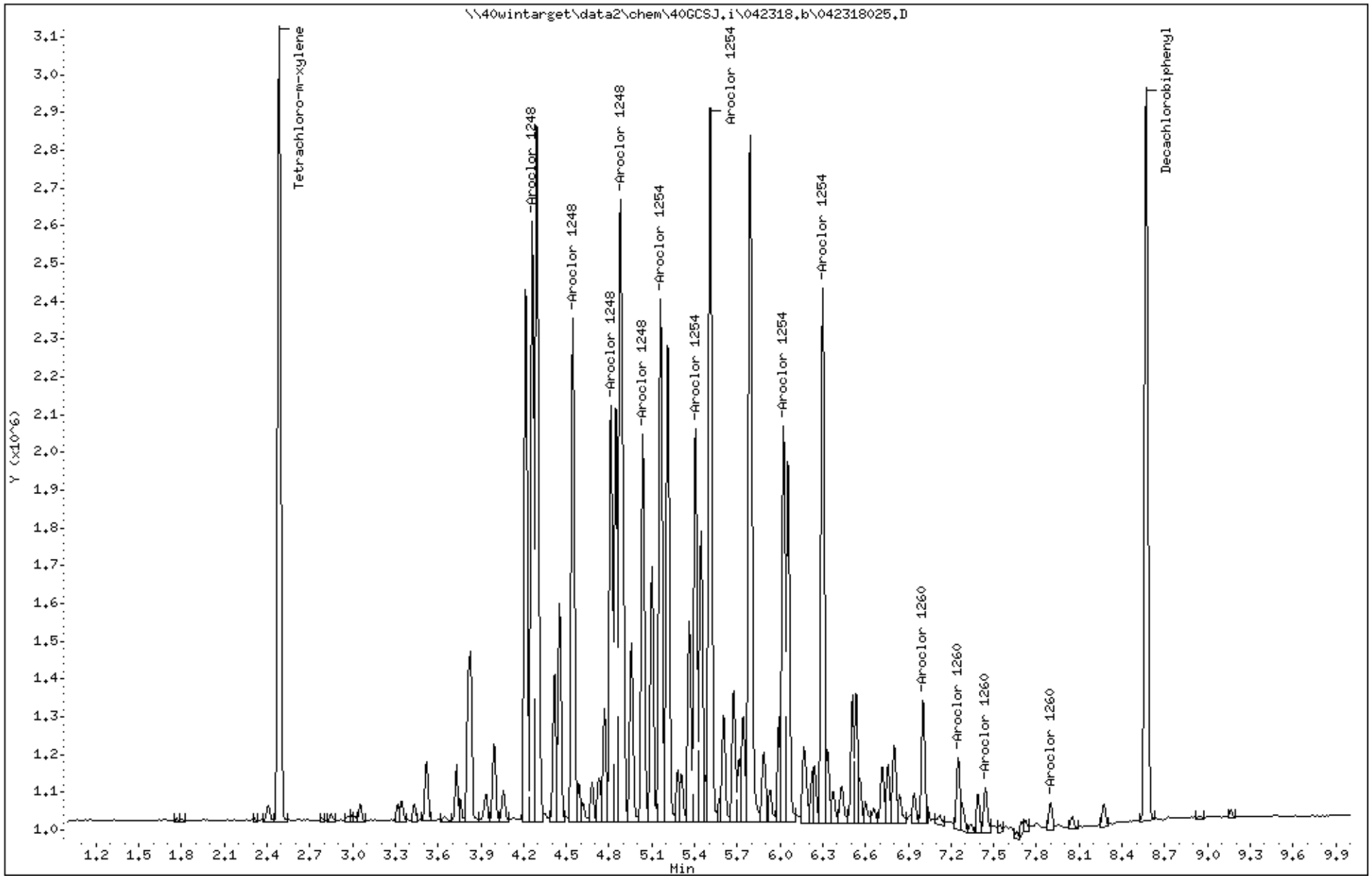
M - Compound response manually integrated.

Review Codes Legend

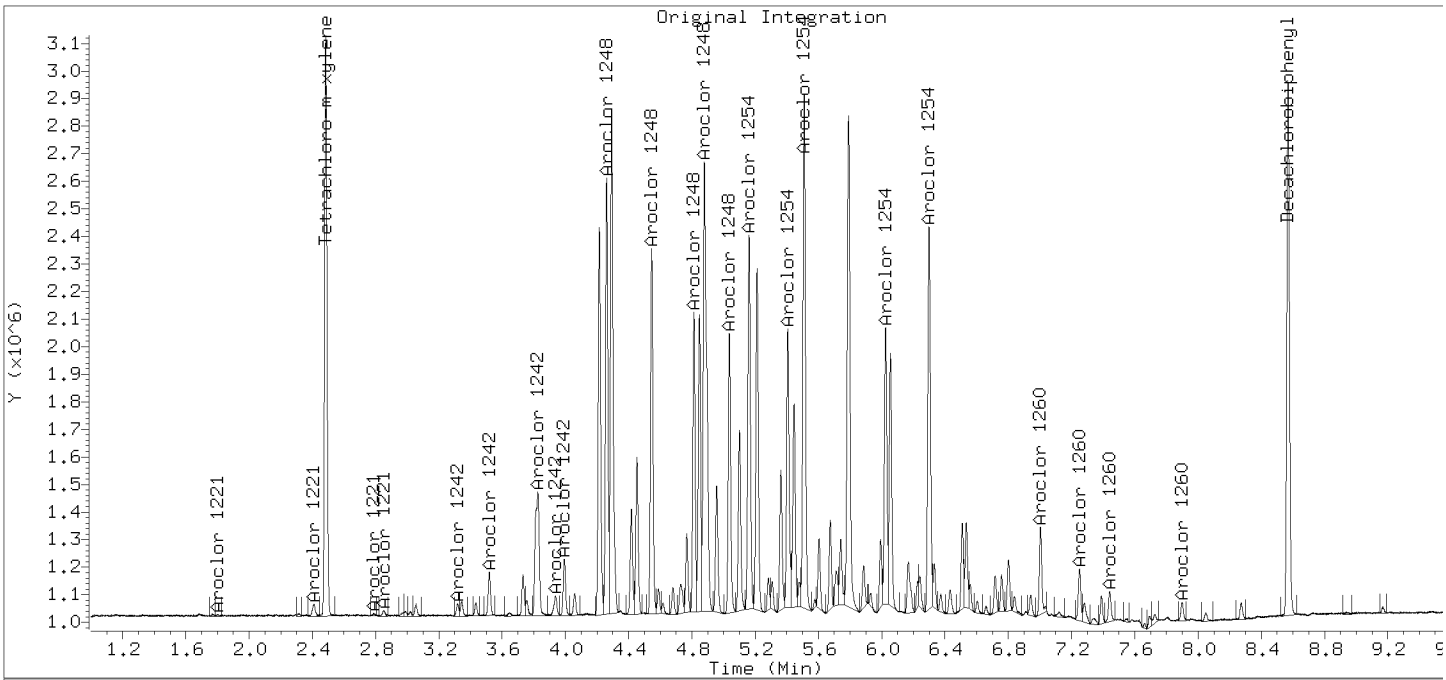
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

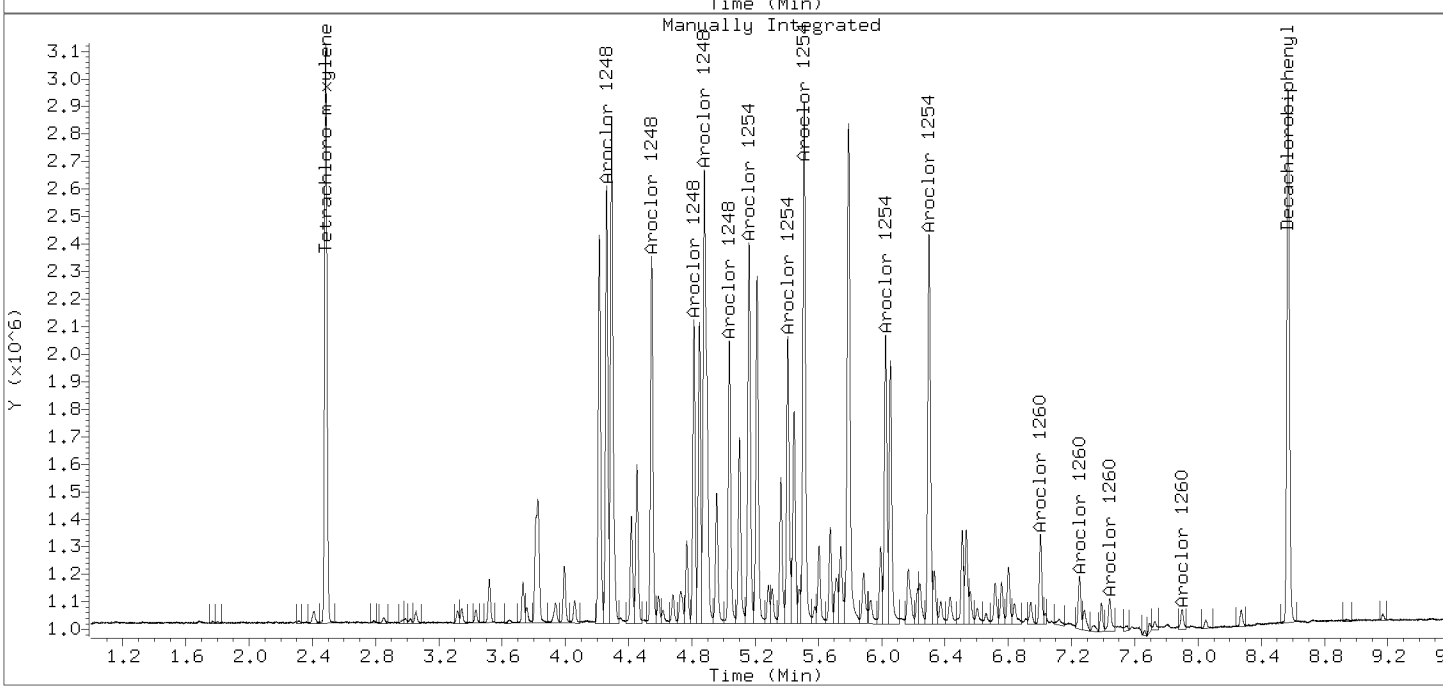
Data File: \\40wintarget\data2\chem\40GCSJ.i\042318.b\042318025.D
Date : 23-APR-2018 19:16
Client ID: TD2-170828-01-PKSD-
Sample Info: 40157937016 x5,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\042318.b/042318025.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 23-APR-2018 19:16 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157937016





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	47972	0	
Aroclor 1016	47972	0	
Aroclor 1016	47972	0	
Aroclor 1016	47972	0	
Aroclor 1016	47972	0	
Aroclor 1221	9236	0	
Aroclor 1221	9236	0	
Aroclor 1221	9236	0	
Aroclor 1221	9236	0	
Aroclor 1221	9236	0	
Aroclor 1232	26936	0	
Aroclor 1232	26936	0	
Aroclor 1232	26936	0	
Aroclor 1232	26936	0	

Aroclor 1232	26936	0	
Aroclor 1242	47972	0	
Aroclor 1242	47972	0	
Aroclor 1242	47972	0	
Aroclor 1242	47972	0	
Aroclor 1242	47972	0	
Aroclor 1248	1627243	1647587	BA
Aroclor 1248	1627243	1647587	BA
Aroclor 1248	1627243	1647587	BA
Aroclor 1248	1627243	1647587	BA
Aroclor 1248	1627243	1647587	BA
Aroclor 1254	1536282	1619318	BA
Aroclor 1254	1536282	1619318	BA
Aroclor 1254	1536282	1619318	BA
Aroclor 1254	1536282	1619318	BA
Aroclor 1254	1536282	1619318	BA
Aroclor 1260	1659004	0	CO
Aroclor 1260	1659004	0	CO
Aroclor 1260	1659004	0	CO
Aroclor 1260	1659004	0	CO
Aroclor 1260	1659004	0	CO
Tetrachloro-m-xylene	2238634	2238634	
Decachlorobiphenyl	2253985	2253985	

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SAMPLE NO.

TD2-170828-01-PKSD-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: 10/04/2017 14:05
Matrix: Tissue SDG No.: 40157937
Date Extracted: 04/20/2018 07:02
Lab Sample ID: 40157937017
Date Analyzed: 04/23/2018 19:32
Lab File ID: 042318.B\042318026.D
Initial wt/vol: 7.7499 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)	<14.7	U
11104-28-2	PCB-1221 (Aroclor 1221)	65.0	
11141-16-5	PCB-1232 (Aroclor 1232)	<14.7	U
53469-21-9	PCB-1242 (Aroclor 1242)	<14.7	U
12672-29-6	PCB-1248 (Aroclor 1248)	470	
11097-69-1	PCB-1254 (Aroclor 1254)	292	
11096-82-5	PCB-1260 (Aroclor 1260)	43.2	J
1336-36-3	PCB, Total	870	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042318.b\042318026.D
Lab Smp Id: 40157937017 Client Smp ID: TD2-170828-01-PKSD-
Inj Date : 23-APR-2018 19:32
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157937017,
Misc Info : 17718,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042318.b\pcba030618.m
Meth Date : 24-Apr-2018 13:17 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 26
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	7.750	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.030	14171	10271	0.725	0.01		
1.073	10508	9885	0.941	0.01		
1.157	18933	15765	0.833	0.02		
1.187	48666	31094	0.639	0.05		
1.427	25607	15897	0.621	0.03		
1.681	11683	8472	0.725	0.01		
1.771	26731	23211	0.868	0.03		
1.802	22840	20857	0.913	0.02	1 Aroclor 1221	CO
1.831	11368	11232	0.988	0.01		
2.015	34387	18847	0.548	0.04		
2.127	14684	10733	0.731	0.01		
2.170	21883	17539	0.801	0.02		
2.209	12887	9157	0.711	0.01		
2.292	28044	27931	0.996	0.03		
2.318	23660	22735	0.961	0.02		
2.360	14902	10985	0.737	0.01		
2.410	221285	164587	0.744	0.26	1 Aroclor 1221	CO
2.485	10762002	9902591	0.920	13.41	$ 2 Tetrachloro-m-xylene	BA
2.619	16160	13788	0.853	0.01		
2.685	15789	13225	0.838	0.01	1 Aroclor 1221	CO
2.791	42104	32498	0.772	0.05	1 Aroclor 1221	CO
2.851	92245	74067	0.803	0.10	1 Aroclor 1221	CO
3.019	65051	57414	0.883	0.07		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.055	220012	195243	0.887	0.26	
3.317	209884	193138	0.920	0.25	
3.344	207109	191687	0.926	0.24	
3.434	226788	214409	0.945	0.27	
3.519	351245	314444	0.895	0.41	
3.646	40291	33918	0.842	0.04	
3.732	200411	196706	0.982	0.23	
3.756	128176	115670	0.902	0.15	
3.826	1530843	934226	0.610	1.82	
3.937	361745	245052	0.677	0.43	
3.994	400722	369209	0.921	0.47	
4.059	234488	196658	0.839	0.27	
4.135	37796	31039	0.821	0.04	
4.215	2024120	1821924	0.900	2.41	
4.261	2027390	1864662	0.920	2.41	6 Aroclor 1248
4.292	1943752	1499066	0.771	2.31	
4.349	55617	31063	0.559	0.06	
4.417	1108422	1028935	0.928	1.32	
4.453	1034558	917448	0.887	1.23	
4.500	71977	46115	0.641	0.08	
4.545	2110114	1906094	0.903	2.51	6 Aroclor 1248
4.588	115013	101283	0.881	0.13	
4.617	218364	168246	0.770	0.26	
4.680	144703	110404	0.763	0.17	
4.729	223773	146247	0.654	0.26	
4.768	424770	393795	0.927	0.50	
4.812	1779178	1664230	0.935	2.12	6 Aroclor 1248
4.847	1680689	1570149	0.934	2.00	
4.878	4088459	2656170	0.650	4.87	6 Aroclor 1248
4.956	671801	546818	0.814	0.80	
5.036	2090121	1816263	0.869	2.49	6 Aroclor 1248
5.100	1135544	905338	0.797	1.35	
5.162	2514736	2223387	0.884	2.99	7 Aroclor 1254
5.212	2046446	1720330	0.841	2.43	
5.282	209220	176651	0.844	0.24	
5.309	332546	249899	0.751	0.39	
5.362	1084788	930701	0.858	1.29	
5.406	1990059	1688467	0.848	2.37	7 Aroclor 1254
5.446	1765155	1468727	0.832	2.10	
5.480	172039	173612	1.009	0.20	
5.509	3257630	2808288	0.862	3.88	7 Aroclor 1254
5.577	98071	74258	0.757	0.11	
5.603	679781	564045	0.830	0.81	
5.674	519977	456851	0.879	0.61	
5.714	392142	268566	0.685	0.46	
5.740	514702	415601	0.807	0.61	
5.791	3799853	3028677	0.797	4.52	
5.818	230745	158863	0.688	0.27	
5.887	507968	303363	0.597	0.60	
5.929	241170	139957	0.580	0.28	
5.993	433648	384264	0.886	0.51	
6.023	2304346	2012069	0.873	2.74	7 Aroclor 1254
6.055	1809818	1459691	0.807	2.15	
6.125	84524	49416	0.585	0.10	
6.168	580884	382753	0.659	0.69	
6.225	244013	236101	0.968	0.29	
6.241	305685	230741	0.755	0.36	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.299	2775680	2187998	0.788	3.30	7 Aroclor 1254
6.333	406702	339673	0.835	0.48	
6.372	252402	161365	0.639	0.30	
6.431	280939	171841	0.612	0.33	
6.482	36713	43575	1.187	0.04	
6.509	539302	489111	0.907	0.64	
6.534	670964	587568	0.876	0.79	
6.560	223255	192555	0.862	0.26	
6.604	180823	103054	0.570	0.21	
6.661	105329	66507	0.631	0.12	
6.717	286860	200550	0.699	0.34	
6.758	264676	210513	0.795	0.31	
6.800	452209	369957	0.818	0.53	
6.839	220714	127421	0.577	0.26	
6.909	40176	32416	0.807	0.04	
6.941	278445	233066	0.837	0.33	
7.003	565192	506539	0.896	0.67	8 Aroclor 1260
7.031	48146	55289	1.148	0.05	
7.094	77465	37933	0.490	0.09	
7.122	70173	33612	0.479	0.08	
7.249	331743	294992	0.889	0.39	8 Aroclor 1260
7.279	156387	107012	0.684	0.18	
7.340	50861	31042	0.610	0.06	
7.388	148369	139557	0.941	0.17	
7.441	222315	163877	0.737	0.26	8 Aroclor 1260
7.486	58324	23055	0.395	0.06	
7.546	34333	23542	0.686	0.04	
7.584	21612	15798	0.731	0.02	
7.662	15392	17085	1.110	0.01	
7.691	51468	46644	0.906	0.06	
7.725	78559	56077	0.714	0.09	
7.812	91515	53311	0.583	0.10	
7.898	173820	105559	0.607	0.20	8 Aroclor 1260
8.048	130187	113285	0.870	0.15	
8.273	137722	126406	0.918	0.16	
8.377	26572	19207	0.723	0.03	
8.569	9470384	8357914	0.883	11.28	$ 12 Decachlorobiphenyl
8.726	20459	15501	0.758	0.02	
8.941	13421	11626	0.866	0.01	
9.055	11640	10352	0.889	0.01	
9.167	76109	59410	0.781	0.09	
9.210	11180	9643	0.863	0.01	
9.476	21605	13732	0.636	0.02	
9.956	13065	7915	0.606	0.01	
	83916614	70526793		100.000	

Total unknown % area = 44

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042318.b\042318026.D
Lab Smp Id: 40157937017 Client Smp ID: TD2-170828-01-PKSD-
Inj Date : 23-APR-2018 19:32
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157937017,
Misc Info : 17718,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042318.b\pcba030618.m
Meth Date : 24-Apr-2018 13:17 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 26
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	7.750	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			
1.801	1.804	-0.003	22840	0.02194	14	0.00- 20.00	100.00(M)	CO
2.410	2.407	0.003	221284	0.40392	260	0.00- 20.00	968.84	CO
2.684	2.688	-0.004	15788	0.01141	7.4	0.00- 20.00	69.12	CO
2.789	2.789	0.000	42104	0.03808	24	0.00- 20.00	184.34	CO
2.850	2.851	-0.001	92244	0.02834	18	0.00- 20.00	403.87	CO
Average of Peak Concentrations =					65			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	10762002	0.08729	56		(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	2027390	0.86531	560	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	2110113	0.50842	330	0.00- 20.00	104.08	BA
4.811	4.812	-0.001	1779178	0.87641	560	0.00- 20.00	87.76	BA
4.878	4.879	-0.001	4088458	0.81161	520	0.00- 20.00	201.66	BA
5.035	5.038	-0.003	2090120	0.58244	380	0.00- 20.00	103.09	BA
Average of Peak Concentrations =					470			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	2514736	0.48035	310	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	1990058	0.46269	300	0.00- 20.00	79.14	BA
5.508	5.510	-0.002	3257629	0.41947	270	0.00- 20.00	129.54	BA
6.023	6.027	-0.004	2304346	0.47320	300	0.00- 20.00	91.63	BA
6.298	6.299	-0.001	2775680	0.42656	280	0.00- 20.00	110.38	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)	CO
7.002	7.006	-0.004	565191	0.05644	36	0.00- 20.00	22.07	CO
7.249	7.251	-0.002	331743	0.06941	45	0.00- 20.00	11.95	CO
7.440	7.443	-0.003	222315	0.07626	49	0.00- 20.00	8.01	CO
7.898	7.901	-0.003	173819	0.06587	42	0.00- 20.00	6.26	CO
Average of Peak Concentrations =					43			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.568	8.571	-0.003	9470384	0.08644	56			

QC Flag Legend

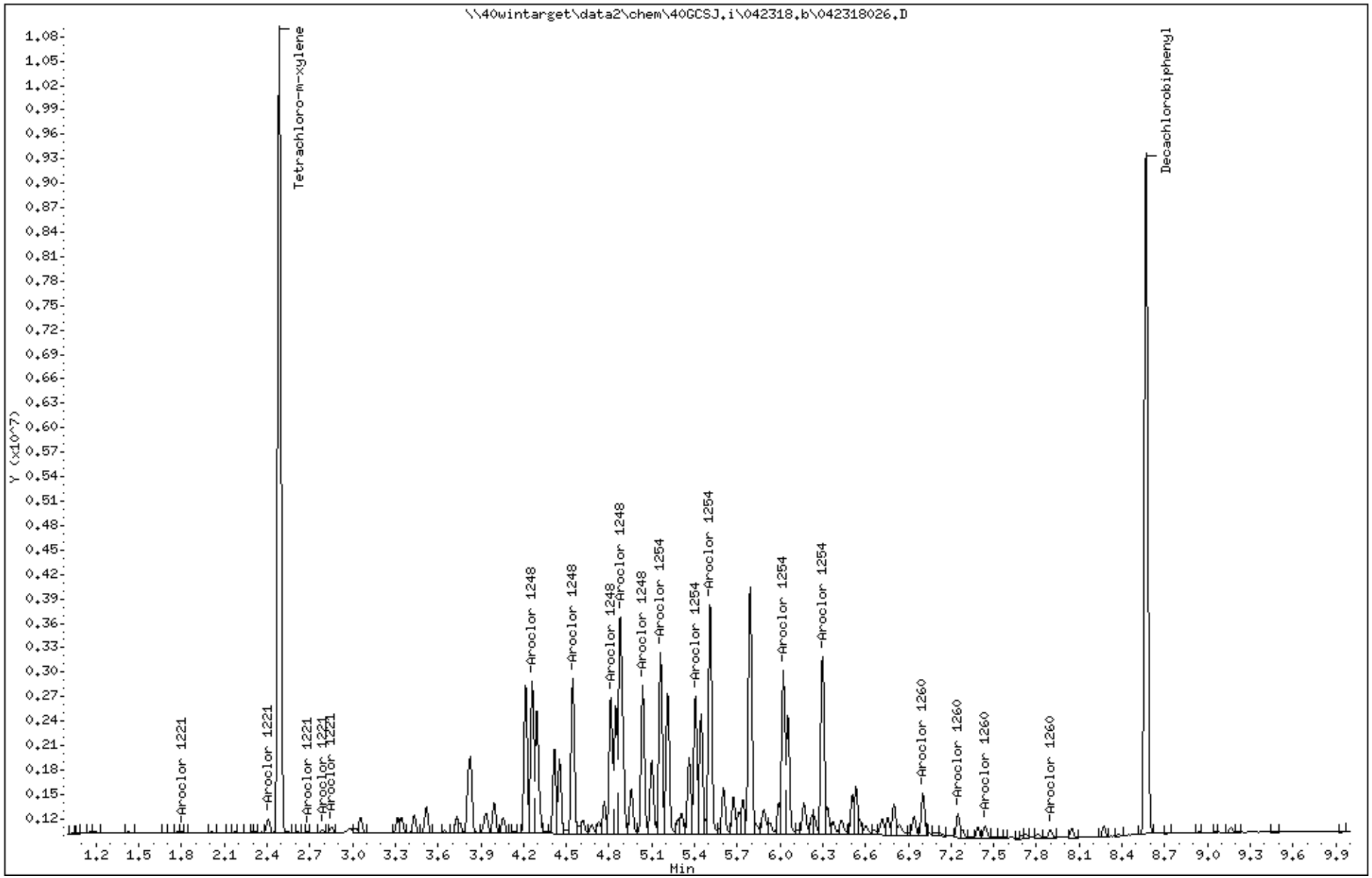
M - Compound response manually integrated.

Review Codes Legend

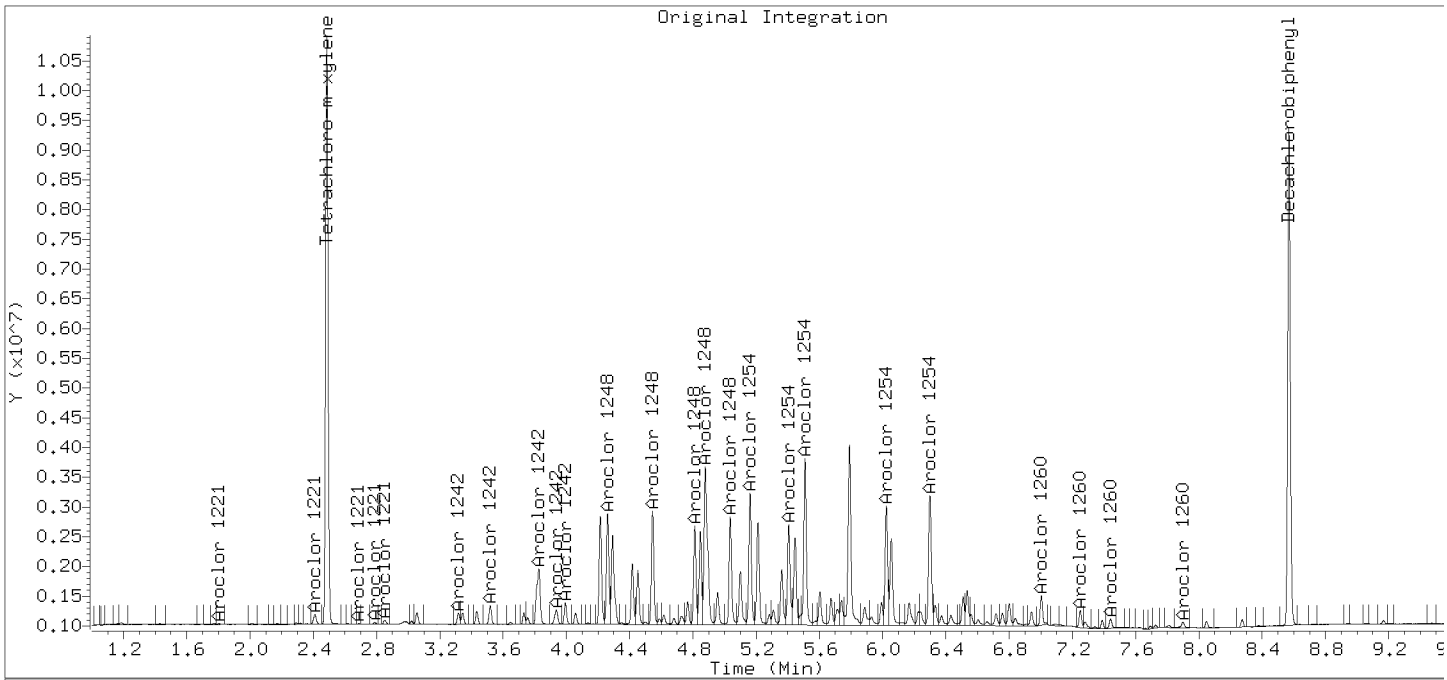
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:

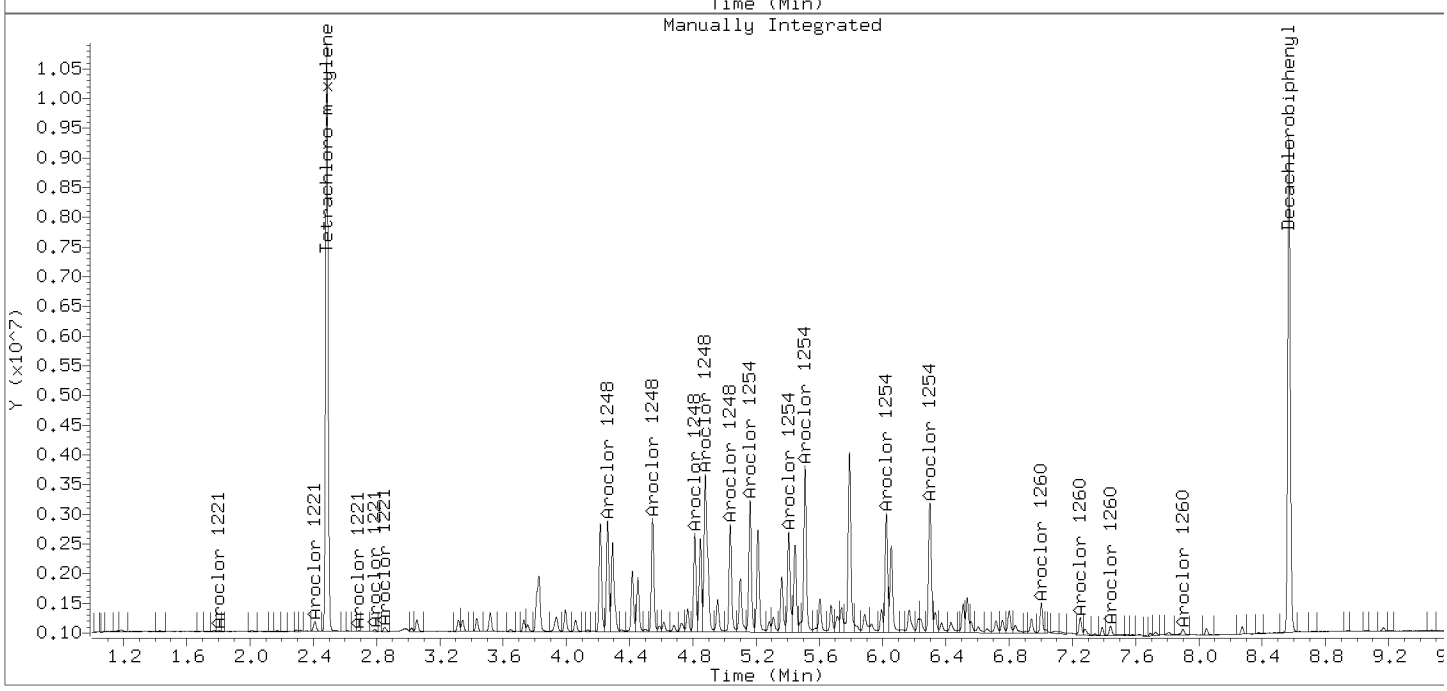
Data File: \\40wintarget\data2\chem\40GCSJ.i\042318.b\042318026.D
Date : 23-APR-2018 19:32
Client ID: TD2-170828-01-PKSD-
Sample Info: 40157937017,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\042318.b/042318026.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 23-APR-2018 19:32 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157937017





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	209884	0	
Aroclor 1016	209884	0	
Aroclor 1016	209884	0	
Aroclor 1016	209884	0	
Aroclor 1016	209884	0	
Aroclor 1221	21645	22840	CO
Aroclor 1221	21645	22840	CO
Aroclor 1221	21645	22840	CO
Aroclor 1221	21645	22840	CO
Aroclor 1221	21645	22840	CO
Aroclor 1232	86790	0	
Aroclor 1232	86790	0	
Aroclor 1232	86790	0	
Aroclor 1232	86790	0	

Aroclor 1232	86790	0	
Aroclor 1242	209884	0	
Aroclor 1242	209884	0	
Aroclor 1242	209884	0	
Aroclor 1242	209884	0	
Aroclor 1242	209884	0	
Aroclor 1248	2011784	2027390	BA
Aroclor 1248	2011784	2027390	BA
Aroclor 1248	2011784	2027390	BA
Aroclor 1248	2011784	2027390	BA
Aroclor 1248	2011784	2027390	BA
Aroclor 1254	2502300	2514736	BA
Aroclor 1254	2502300	2514736	BA
Aroclor 1254	2502300	2514736	BA
Aroclor 1254	2502300	2514736	BA
Aroclor 1254	2502300	2514736	BA
Aroclor 1260	2768628	0	CO
Aroclor 1260	2768628	0	CO
Aroclor 1260	2768628	0	CO
Aroclor 1260	2768628	0	CO
Aroclor 1260	2768628	0	CO
Tetrachloro-m-xylene	10749584	10762002	BA
Decachlorobiphenyl	9470384	9470384	

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SAMPLE NO.

TD2-170828-01-PKSD-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: 10/04/2017 14:05
Matrix: Tissue SDG No.: 40157937
Date Extracted: 04/20/2018 07:02
Lab Sample ID: 40157937018
Date Analyzed: 04/23/2018 19:48
Lab File ID: 042318.B\042318027.D
Initial wt/vol: 9.9711 g Final wt/vol: 5 mL Dilution: 5
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<57.2	U
11104-28-2	PCB-1221 (Aroclor 1221)	<57.2	U
11141-16-5	PCB-1232 (Aroclor 1232)	<57.2	U
53469-21-9	PCB-1242 (Aroclor 1242)	<57.2	U
12672-29-6	PCB-1248 (Aroclor 1248)	1340	
11097-69-1	PCB-1254 (Aroclor 1254)	886	
11096-82-5	PCB-1260 (Aroclor 1260)	110	J
1336-36-3	PCB, Total	2340	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042318.b\042318027.D
Lab Smp Id: 40157937018 Client Smp ID: TD2-170828-01-PKSD-
Inj Date : 23-APR-2018 19:48
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157937018 x5,
Misc Info : 17718,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042318.b\pcba030618.m
Meth Date : 24-Apr-2018 13:17 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 27
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	5.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.971	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.770	12804	11972	0.935	0.02		
2.409	71026	52933	0.745	0.14		
2.485	2359658	2236501	0.948	4.83	$ 2 Tetrachloro-m-xylene	
2.789	13692	10830	0.791	0.02		
2.849	40508	27367	0.676	0.08		
2.974	34760	16114	0.464	0.07		
3.021	20231	17353	0.858	0.04		
3.055	91881	80586	0.877	0.18		
3.317	73045	68635	0.940	0.14		
3.344	73061	65266	0.893	0.14		
3.434	60468	55949	0.925	0.12		
3.518	112904	99062	0.877	0.23		
3.642	9775	9891	1.012	0.02		
3.732	68792	70119	1.019	0.14		
3.755	57660	47614	0.826	0.11		
3.826	798358	519816	0.651	1.63		
3.934	132027	86572	0.656	0.27		
3.994	159708	146042	0.914	0.32		
4.058	78571	65076	0.828	0.16		
4.136	15475	11619	0.751	0.03		
4.214	1279835	1187052	0.928	2.62		
4.261	1337480	1263863	0.945	2.73	6 Aroclor 1248	BA
4.292	1061059	822537	0.775	2.17		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.347	26336	16946	0.643	0.05	
4.417	535588	507731	0.948	1.09	
4.452	496741	442308	0.890	1.01	
4.546	1130233	1054299	0.933	2.31	6 Aroclor 1248
4.587	58460	53097	0.908	0.11	
4.619	78211	63739	0.815	0.16	
4.678	78977	63873	0.809	0.16	
4.726	126843	92940	0.733	0.25	
4.769	261871	238042	0.909	0.53	
4.813	1410215	1332102	0.945	2.88	6 Aroclor 1248
4.847	1594500	1488375	0.933	3.26	
4.879	3621311	2581513	0.713	7.87	6 Aroclor 1248
4.956	397260	333127	0.839	0.81	
5.036	1503985	1374916	0.914	3.08	6 Aroclor 1248
5.100	747749	647336	0.866	1.53	
5.162	1957012	1722893	0.880	4.00	7 Aroclor 1254
5.212	1634393	1425783	0.872	3.34	
5.284	176031	149912	0.852	0.36	
5.308	178677	144653	0.810	0.36	
5.362	801523	725718	0.905	1.64	
5.406	1446807	1240291	0.857	2.96	7 Aroclor 1254
5.446	1240706	1085169	0.875	2.54	
5.486	109848	115008	1.047	0.22	
5.509	2560593	2262326	0.884	5.24	7 Aroclor 1254
5.576	50172	44984	0.897	0.10	
5.603	373078	311468	0.835	0.76	
5.675	384000	342957	0.893	0.78	
5.714	271391	202300	0.745	0.55	
5.740	383561	312944	0.816	0.78	
5.790	3197467	2473051	0.773	6.54	
5.886	266166	197648	0.743	0.54	
5.910	74153	85670	1.155	0.15	
5.930	123387	82109	0.665	0.25	
5.994	331041	307905	0.930	0.67	
6.023	1792579	1521812	0.849	3.67	7 Aroclor 1254
6.054	1312859	1148743	0.875	2.68	
6.083	146605	136730	0.933	0.30	
6.122	48396	30217	0.624	0.09	
6.168	383879	275125	0.717	0.78	
6.226	152294	155068	1.018	0.31	
6.242	199822	169941	0.850	0.40	
6.300	2334831	1878171	0.804	4.78	7 Aroclor 1254
6.333	275378	239821	0.871	0.56	
6.372	145267	108603	0.748	0.29	
6.431	144245	97025	0.673	0.29	
6.508	665852	601536	0.903	1.36	
6.534	586347	427925	0.730	1.20	
6.603	93731	70391	0.751	0.19	
6.660	54210	41214	0.760	0.11	
6.717	197779	159013	0.804	0.40	
6.758	187342	142419	0.760	0.38	
6.800	308021	263872	0.857	0.63	
6.838	136208	91600	0.673	0.27	
6.911	18851	14801	0.785	0.03	
6.942	94617	82499	0.872	0.19	
7.003	363116	326312	0.899	0.74	8 Aroclor 1260
7.036	41525	45786	1.103	0.08	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.121	37637	20006	0.532	0.07	
7.250	234376	205220	0.876	0.48	8 Aroclor 1260
7.281	119004	83100	0.698	0.24	
7.340	40684	23430	0.576	0.08	
7.389	133444	123476	0.925	0.27	
7.441	169779	117006	0.689	0.34	8 Aroclor 1260
7.547	33602	23280	0.693	0.06	
7.585	25570	17311	0.677	0.05	
7.663	21844	24840	1.137	0.04	
7.693	39647	37961	0.957	0.08	
7.726	59002	41952	0.711	0.12	
7.765	19448	15206	0.782	0.03	
7.798	30480	19986	0.656	0.06	
7.898	85894	66152	0.770	0.17	8 Aroclor 1260
8.047	34636	28598	0.826	0.07	
8.273	84079	71756	0.853	0.17	
8.570	2327210	1999754	0.859	4.76	$ 12 Decachlorobiphenyl
8.725	16421	8586	0.523	0.03	
9.168	31149	21922	0.704	0.06	
	48818721	41474068		100.000	

Total unknown % area = 49

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042318.b\042318027.D
Lab Smp Id: 40157937018 Client Smp ID: TD2-170828-01-PKSD-
Inj Date : 23-APR-2018 19:48
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157937018 x5,
Misc Info : 17718,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042318.b\pcba030618.m
Meth Date : 24-Apr-2018 13:17 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 27
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	5.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	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			
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	2359657	0.01914	48			
3 Aroclor 1242					CAS #: 53469-21-9			
Operator disabled compound identification.								
4 Aroclor 1232					CAS #: 1114-16-5			
Operator disabled compound identification.								

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	1337480	0.57085	1400	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1130233	0.27233	680	0.00- 20.00	84.50	BA
4.812	4.812	0.000	1410215	0.69466	1700	0.00- 20.00	105.44	BA
4.878	4.879	-0.001	3621310	0.71888	1800	0.00- 20.00	270.76	BA
5.036	5.038	-0.002	1503984	0.41911	1000	0.00- 20.00	112.45	BA
Average of Peak Concentrations =					1300			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	1957011	0.37381	940	0.00- 20.00	100.00(M)	CO
5.405	5.408	-0.003	1446806	0.33638	840	0.00- 20.00	73.93	CO
5.508	5.510	-0.002	2560592	0.32972	830	0.00- 20.00	130.84	CO
6.023	6.027	-0.004	1792578	0.36811	920	0.00- 20.00	91.60	CO
6.299	6.299	0.000	2334830	0.35881	900	0.00- 20.00	119.31	CO
Average of Peak Concentrations =					880			
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	363116	0.03626	91	0.00- 20.00	17.31	CO
7.250	7.251	-0.001	234375	0.04903	120	0.00- 20.00	10.04	CO
7.440	7.443	-0.003	169779	0.05824	150	0.00- 20.00	7.27	CO
7.898	7.901	-0.003	85894	0.03255	82	0.00- 20.00	3.68	CO
Average of Peak Concentrations =					110			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	2327209	0.02124	53			

QC Flag Legend

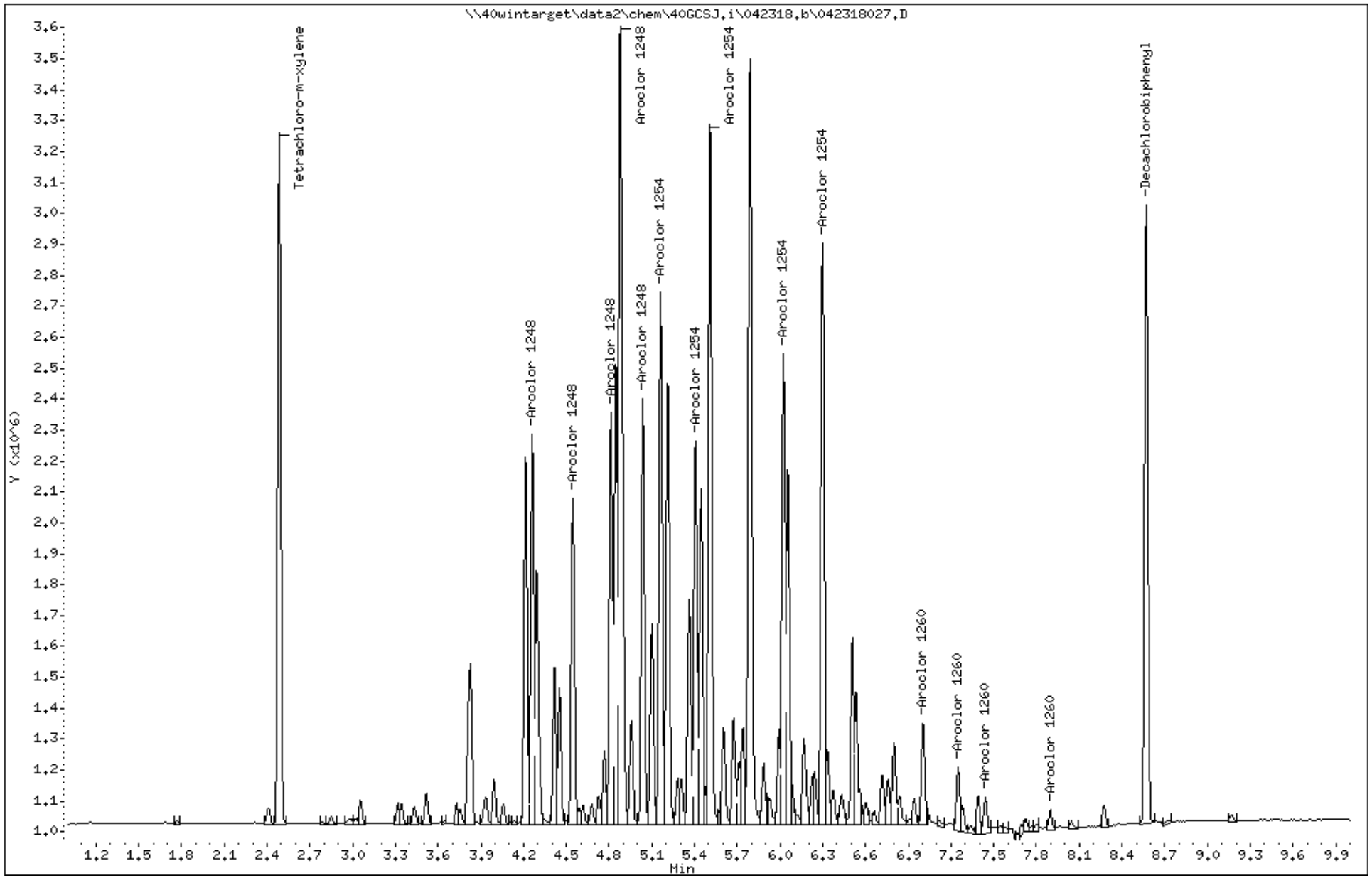
M - Compound response manually integrated.

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\042318.b\042318027.D
Date : 23-APR-2018 19:48
Client ID: TD2-170828-01-PKSD-
Sample Info: 40157937018 x5,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



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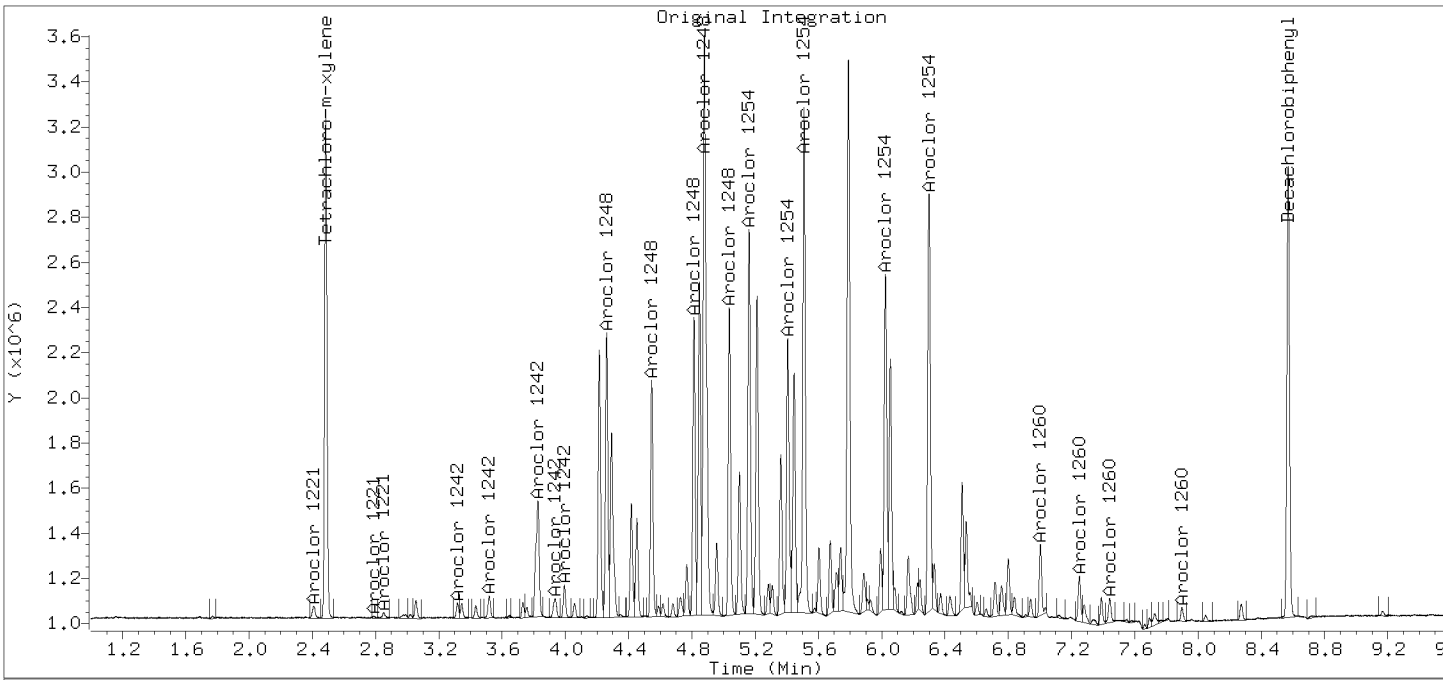
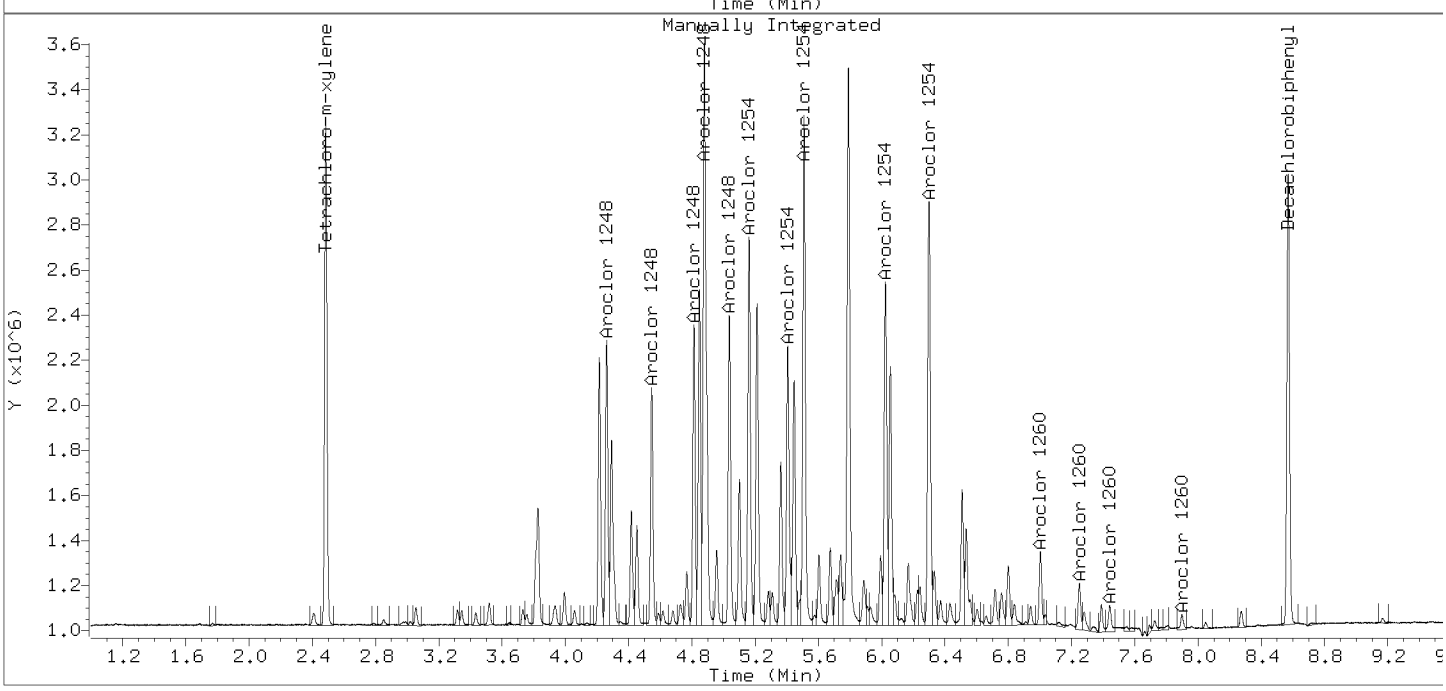
Injection Date: 23-APR-2018 19:48 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157937018





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	73045	0	
Aroclor 1016	73045	0	
Aroclor 1016	73045	0	
Aroclor 1016	73045	0	
Aroclor 1016	73045	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	40508	0	
Aroclor 1232	40508	0	
Aroclor 1232	40508	0	
Aroclor 1232	40508	0	

Aroclor 1232	40508	0	
Aroclor 1242	73045	0	
Aroclor 1242	73045	0	
Aroclor 1242	73045	0	
Aroclor 1242	73045	0	
Aroclor 1242	73045	0	
Aroclor 1248	1328038	1337480	BA
Aroclor 1248	1328038	1337480	BA
Aroclor 1248	1328038	1337480	BA
Aroclor 1248	1328038	1337480	BA
Aroclor 1248	1328038	1337480	BA
Aroclor 1254	1894821	1957011	CO
Aroclor 1254	1894821	1957011	CO
Aroclor 1254	1894821	1957011	CO
Aroclor 1254	1894821	1957011	CO
Aroclor 1254	1894821	1957011	CO
Aroclor 1260	2247420	0	CO
Aroclor 1260	2247420	0	CO
Aroclor 1260	2247420	0	CO
Aroclor 1260	2247420	0	CO
Aroclor 1260	2247420	0	CO
Tetrachloro-m-xylene	2359657	2359657	
Decachlorobiphenyl	2327209	2327209	

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SAMPLE NO.

TD1-170828-01-PKSD-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: 10/04/2017 14:05
Matrix: Tissue SDG No.: 40157937
Date Extracted: 04/20/2018 07:02
Lab Sample ID: 40157937019
Date Analyzed: 04/23/2018 20:36
Lab File ID: 042318.B\042318030.D
Initial wt/vol: 9.9762 g Final wt/vol: 5 mL Dilution: 15
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<171	U
11104-28-2	PCB-1221 (Aroclor 1221)	<171	U
11141-16-5	PCB-1232 (Aroclor 1232)	<171	U
53469-21-9	PCB-1242 (Aroclor 1242)	<171	U
12672-29-6	PCB-1248 (Aroclor 1248)	3750	
11097-69-1	PCB-1254 (Aroclor 1254)	2460	
11096-82-5	PCB-1260 (Aroclor 1260)	276	J
1336-36-3	PCB, Total	6480	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042318.b\042318030.D
Lab Smp Id: 40157937019 Client Smp ID: TD1-170828-01-PKSD-
Inj Date : 23-APR-2018 20:36
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157937019 x15,
Misc Info : 17718,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042318.b\pcba030618.m
Meth Date : 24-Apr-2018 13:17 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 30
Dil Factor: 15.00000
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	15.000	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	9.976	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.410	18366	14243	0.775	0.04		
2.485	801943	761611	0.950	1.96	$ 2 Tetrachloro-m-xylene	
2.852	9382	8697	0.927	0.02		
3.053	10617	12441	1.172	0.02		
3.319	30406	31621	1.040	0.07		
3.344	37621	33517	0.891	0.09		
3.436	23574	17056	0.724	0.05		
3.520	86904	70030	0.806	0.21		
3.731	46017	45892	0.997	0.11		
3.754	40241	33369	0.829	0.09		
3.827	574187	400282	0.697	1.40		
3.938	71133	46986	0.661	0.17		
3.994	129553	120305	0.929	0.31		
4.058	75510	66453	0.880	0.18		
4.214	1296556	1205075	0.929	3.17		
4.261	1263770	1203349	0.952	3.09	6 Aroclor 1248	BA
4.292	1196836	977110	0.816	2.93		
4.350	25820	18976	0.735	0.06		
4.417	593742	552632	0.931	1.45		
4.452	587057	531216	0.905	1.43		
4.545	1135078	1084788	0.956	2.78	6 Aroclor 1248	BA
4.590	41478	36825	0.888	0.10		
4.617	68744	64418	0.937	0.16		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.680	58363	52099	0.893	0.14	
4.726	127249	98404	0.773	0.31	
4.768	216936	202895	0.935	0.53	
4.812	1289330	1209942	0.938	3.16	6 Aroclor 1248
4.847	1141632	1075502	0.942	2.79	
4.878	3154661	2193999	0.695	8.14	6 Aroclor 1248
4.957	344807	287023	0.832	0.84	
5.037	1498246	1399693	0.934	3.67	6 Aroclor 1248
5.101	649274	566731	0.873	1.59	
5.161	1880115	1680464	0.894	4.60	7 Aroclor 1254
5.211	1418270	1246923	0.879	3.47	
5.283	108317	103960	0.960	0.26	
5.307	131228	105863	0.807	0.32	
5.362	738730	652472	0.883	1.81	
5.406	1378500	1207070	0.876	3.37	7 Aroclor 1254
5.445	1028208	883311	0.859	2.52	
5.480	85448	91464	1.070	0.20	
5.509	2214413	1926989	0.870	5.42	7 Aroclor 1254
5.602	359010	312592	0.871	0.88	
5.675	274970	256733	0.934	0.67	
5.714	247011	183469	0.743	0.60	
5.739	326915	269625	0.825	0.80	
5.790	2888039	2209138	0.765	7.07	
5.886	297749	182032	0.611	0.72	
5.931	84307	59797	0.709	0.20	
5.993	257375	246807	0.959	0.63	
6.023	1567587	1384025	0.883	3.84	7 Aroclor 1254
6.055	1387654	1201817	0.866	3.40	
6.123	39410	22798	0.578	0.09	
6.168	386000	310868	0.805	0.94	
6.226	320697	179453	0.560	0.78	
6.298	2262084	1868651	0.826	5.54	7 Aroclor 1254
6.332	303063	264454	0.873	0.74	
6.373	151064	119250	0.789	0.37	
6.432	86811	54363	0.626	0.21	
6.508	267772	246944	0.922	0.65	
6.534	561768	490826	0.874	1.37	
6.558	103797	112697	1.086	0.25	
6.604	102150	75004	0.734	0.25	
6.658	37045	30414	0.821	0.09	
6.716	142064	124281	0.875	0.34	
6.757	125341	108167	0.863	0.30	
6.801	322100	289101	0.898	0.78	
6.841	105292	72572	0.689	0.25	
6.941	92112	81328	0.883	0.22	
7.004	370547	333424	0.900	0.90	8 Aroclor 1260
7.034	28893	33971	1.176	0.07	
7.122	16968	9127	0.538	0.04	
7.249	241394	213097	0.883	0.59	8 Aroclor 1260
7.280	87257	65952	0.756	0.21	
7.333	12731	10812	0.849	0.03	
7.389	92122	72230	0.784	0.22	
7.441	105986	80500	0.760	0.25	8 Aroclor 1260
7.548	13495	13852	1.026	0.03	
7.689	30710	28062	0.914	0.07	
7.727	19001	16842	0.886	0.04	
7.811	22392	15284	0.683	0.05	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.899	61099	55325	0.906	0.14	8 Aroclor 1260
8.048	46864	34361	0.733	0.11	
8.273	55501	39655	0.714	0.13	
8.570	836906	719501	0.860	2.05	$ 12 Decachlorobiphenyl
9.055	12381	7559	0.611	0.03	
9.167	12765	11166	0.875	0.03	
	40794463	34839622		100.000	

Total unknown % area = 50

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042318.b\042318030.D
Lab Smp Id: 40157937019 Client Smp ID: TD1-170828-01-PKSD-
Inj Date : 23-APR-2018 20:36
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157937019 x15,
Misc Info : 17718,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042318.b\pcba030618.m
Meth Date : 24-Apr-2018 13:17 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 30
Dil Factor: 15.00000
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	15.000	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	9.976	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

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

1 Aroclor 1221 CAS #: 11104-28-2

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

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

RT	EXP RT	DLT RT	RESPONSE	ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
2.484	2.484	0.000	801943	0.00650	49			

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	1263769	0.53939	4000	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1135078	0.27349	2000	0.00- 20.00	89.82	BA
4.811	4.812	-0.001	1289330	0.63511	4800	0.00- 20.00	102.02	BA
4.878	4.879	-0.001	3154661	0.62624	4700	0.00- 20.00	249.62	BA
5.036	5.038	-0.002	1498245	0.41751	3100	0.00- 20.00	118.55	BA
		Average of Peak Concentrations =			3700			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	1880115	0.35913	2700	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	1378499	0.32050	2400	0.00- 20.00	73.32	BA
5.509	5.510	-0.001	2214413	0.28514	2100	0.00- 20.00	117.78	BA
6.023	6.027	-0.004	1567587	0.32191	2400	0.00- 20.00	83.38	BA
6.297	6.299	-0.002	2262084	0.34763	2600	0.00- 20.00	120.32	BA
		Average of Peak Concentrations =			2400			
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	370546	0.03700	280	0.00- 20.00	17.64	CO
7.249	7.251	-0.002	241394	0.05050	380	0.00- 20.00	10.67	CO
7.440	7.443	-0.003	105985	0.03636	270	0.00- 20.00	4.69	CO
7.898	7.901	-0.003	61098	0.02315	170	0.00- 20.00	2.70	CO
		Average of Peak Concentrations =			280			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	836905	0.00764	57			

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\042318.b\042318030.D

Page 6

Date : 23-APR-2018 20:36

Client ID: TD1-170828-01-PKSD-

Instrument: 40GCSJ.i

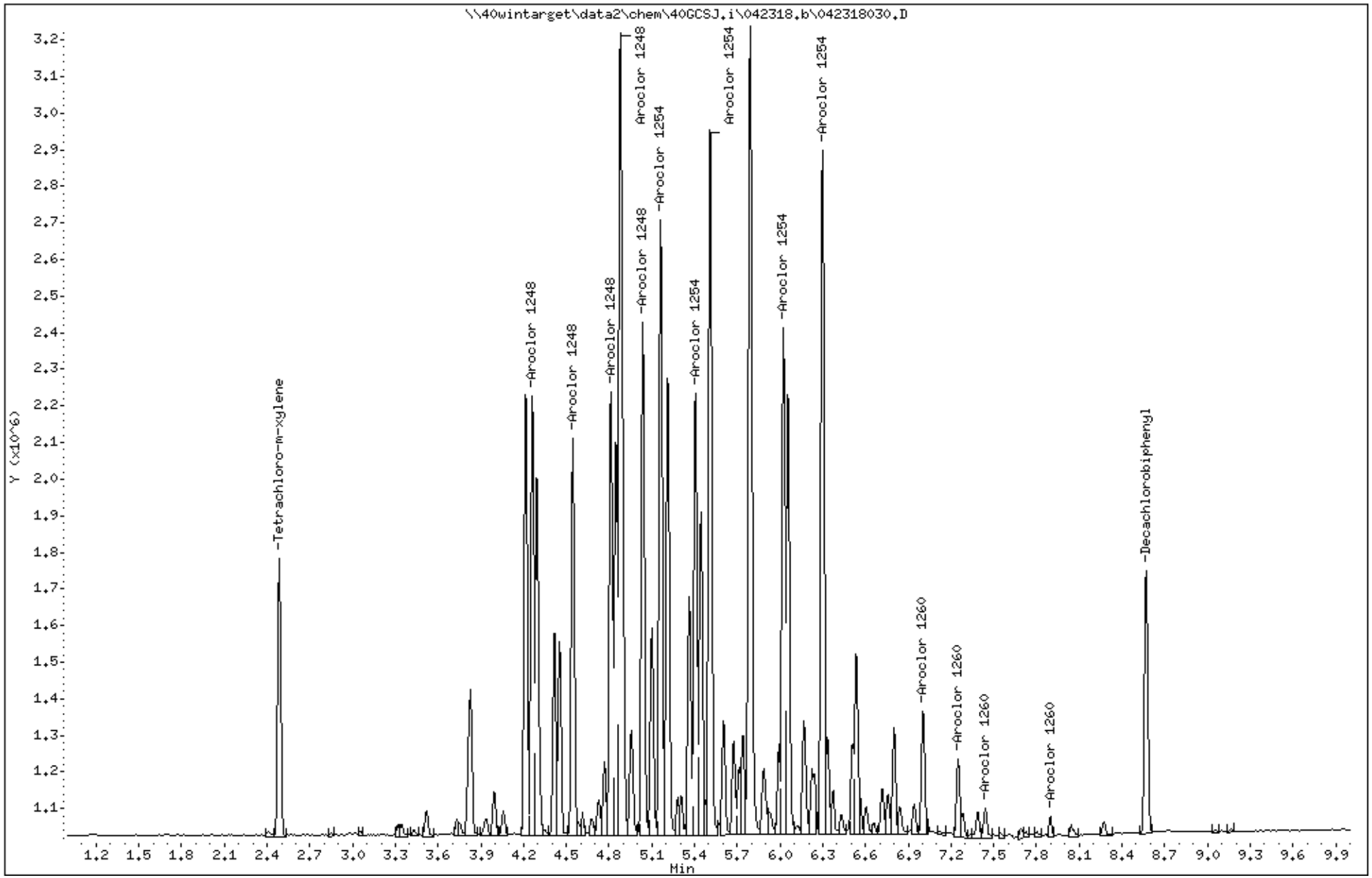
Sample Info: 40157937019 x15,

Volume Injected (uL): 1.0

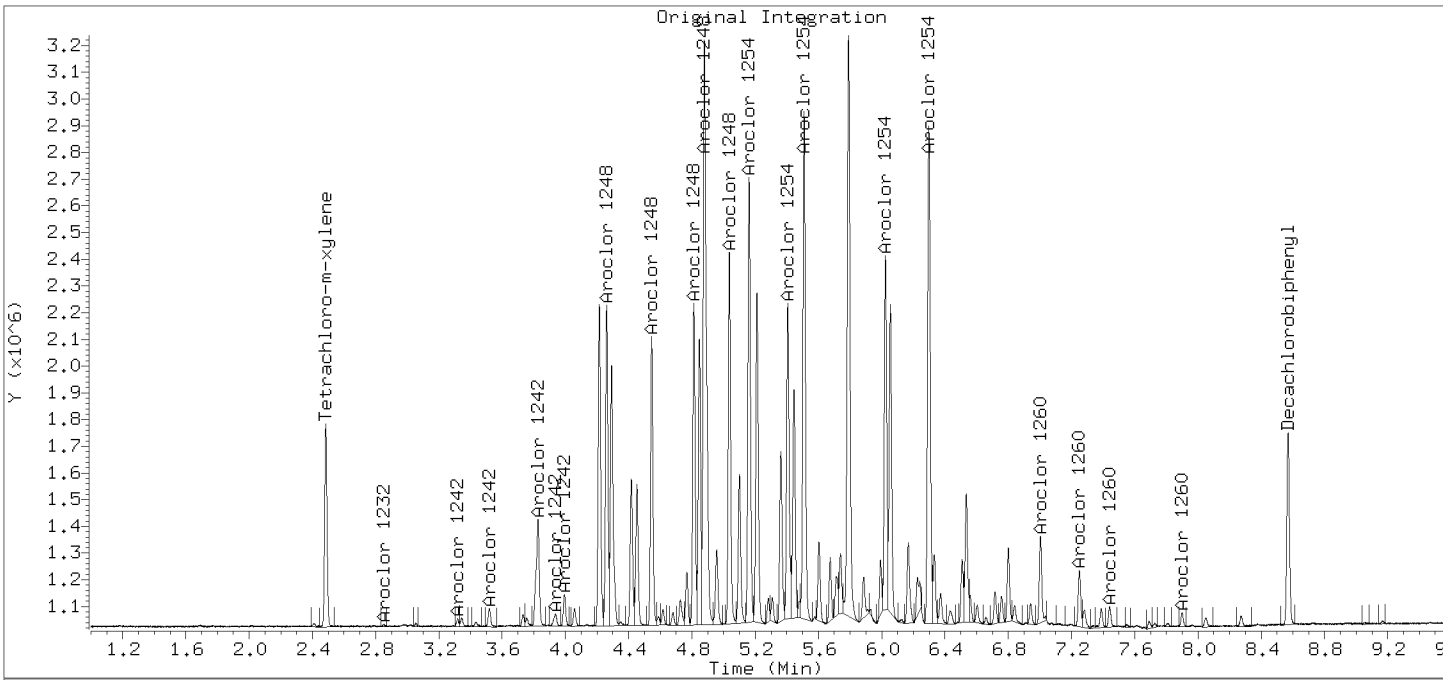
Operator: BLM

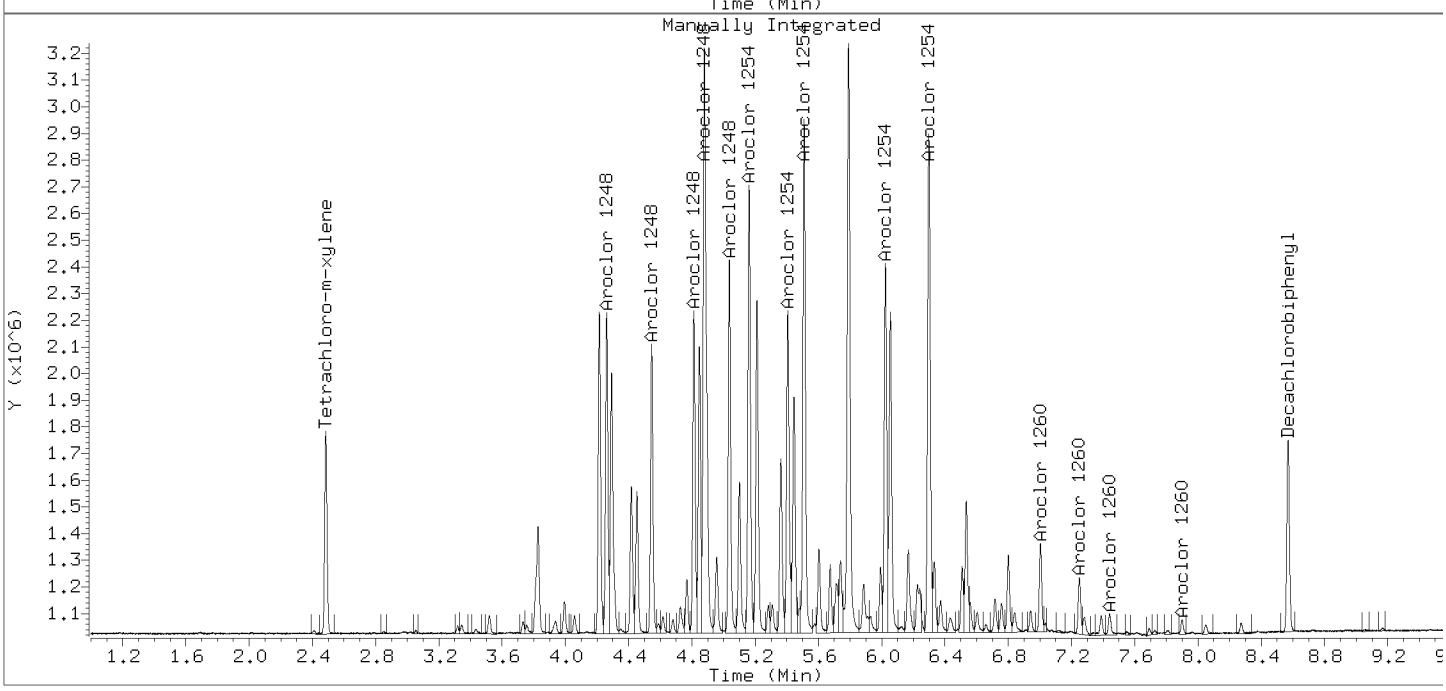
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\042318.b/042318030.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 23-APR-2018 20:36 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157937019





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	30406	0	
Aroclor 1016	30406	0	
Aroclor 1016	30406	0	
Aroclor 1016	30406	0	
Aroclor 1016	30406	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	9382	0	
Aroclor 1232	9382	0	
Aroclor 1232	9382	0	
Aroclor 1232	9382	0	

Aroclor 1232	9382	0	
Aroclor 1242	30406	0	
Aroclor 1242	30406	0	
Aroclor 1242	30406	0	
Aroclor 1242	30406	0	
Aroclor 1242	30406	0	
Aroclor 1248	1256465	1263769	BA
Aroclor 1248	1256465	1263769	BA
Aroclor 1248	1256465	1263769	BA
Aroclor 1248	1256465	1263769	BA
Aroclor 1248	1256465	1263769	BA
Aroclor 1254	1835650	1880115	BA
Aroclor 1254	1835650	1880115	BA
Aroclor 1254	1835650	1880115	BA
Aroclor 1254	1835650	1880115	BA
Aroclor 1254	1835650	1880115	BA
Aroclor 1260	2238663	0	CO
Aroclor 1260	2238663	0	CO
Aroclor 1260	2238663	0	CO
Aroclor 1260	2238663	0	CO
Aroclor 1260	2238663	0	CO
Tetrachloro-m-xylene	801943	801943	
Decachlorobiphenyl	836905	836905	

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SAMPLE NO.

TD1-170828-01-GOSH-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: 10/04/2017 14:05
Matrix: Tissue SDG No.: 40157937
Date Extracted: 04/20/2018 07:02
Lab Sample ID: 40157937020
Date Analyzed: 04/23/2018 20:51
Lab File ID: 042318.B\042318031.D
Initial wt/vol: 9.9997 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)	120	
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)	605	
11097-69-1	PCB-1254 (Aroclor 1254)	351	
11096-82-5	PCB-1260 (Aroclor 1260)	75.4	J
1336-36-3	PCB, Total	1150	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042318.b\042318031.D
Lab Smp Id: 40157937020 Client Smp ID: TD1-170828-01-GOSH-
Inj Date : 23-APR-2018 20:51
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157937020 x2,
Misc Info : 17718,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042318.b\pcba030618.m
Meth Date : 24-Apr-2018 13:17 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 31
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	10.000	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS	REVIEW CODE
1.161	22573	17466	0.774	0.03			
1.210	10320	9197	0.891	0.01			
1.327	10167	7457	0.733	0.01			
1.538	10251	6676	0.651	0.01			
1.690	16850	11467	0.681	0.02			
1.769	22592	22465	0.994	0.03			
2.357	14164	11077	0.782	0.02			
2.411	208301	158101	0.759	0.31		1 Aroclor 1221	BA
2.485	5868962	5531555	0.943	9.35	$	2 Tetrachloro-m-xylene	BA
2.687	35704	17555	0.492	0.05		1 Aroclor 1221	BA
2.789	45312	31736	0.700	0.06		1 Aroclor 1221	BA
2.852	109485	79103	0.723	0.16		1 Aroclor 1221	BA
2.989	143012	85360	0.597	0.21			
3.019	151146	148990	0.986	0.22			
3.055	291033	264088	0.907	0.43			
3.318	224146	212468	0.948	0.33			
3.345	240307	222671	0.927	0.35			
3.434	286995	258933	0.902	0.42			
3.519	418465	355809	0.850	0.62			
3.645	40686	33176	0.815	0.06			
3.732	210839	203387	0.965	0.31			
3.756	118396	107199	0.905	0.17			
3.826	1586704	1039512	0.655	2.37			

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.938	372099	261023	0.701	0.55	
3.994	403297	371907	0.922	0.60	
4.060	276596	223055	0.806	0.41	
4.135	84946	63618	0.749	0.12	
4.215	1918360	1751492	0.913	2.86	
4.261	1921051	1823234	0.949	2.87	6 Aroclor 1248
4.292	1977287	1547166	0.782	2.95	
4.349	259071	237316	0.916	0.38	
4.417	1398198	1288025	0.921	2.08	
4.452	1043892	941162	0.902	1.56	
4.546	1891339	1690629	0.894	2.82	6 Aroclor 1248
4.589	110231	100948	0.916	0.16	
4.617	346749	281448	0.812	0.51	
4.681	119301	92004	0.771	0.17	
4.731	172673	105744	0.612	0.25	
4.767	311925	291529	0.935	0.46	
4.812	1378426	1307423	0.948	2.06	6 Aroclor 1248
4.847	1158797	1100781	0.950	1.73	
4.878	3151512	2043308	0.648	4.71	6 Aroclor 1248
4.956	486933	421896	0.866	0.72	
5.037	1591173	1513168	0.951	2.37	6 Aroclor 1248
5.100	965884	762799	0.790	1.44	
5.161	1936633	1717449	0.887	2.89	7 Aroclor 1254
5.212	1830118	1500792	0.820	2.73	
5.282	148224	132499	0.894	0.22	
5.309	316793	248993	0.786	0.47	
5.362	669864	606263	0.905	1.00	
5.406	1385218	1209033	0.873	2.07	7 Aroclor 1254
5.447	1375721	1153138	0.838	2.05	
5.481	86642	133819	1.544	0.12	
5.509	2541587	2099341	0.826	3.79	7 Aroclor 1254
5.576	89010	68957	0.775	0.13	
5.604	455323	370767	0.814	0.68	
5.674	370399	327917	0.885	0.55	
5.714	315417	215981	0.685	0.47	
5.740	463160	321144	0.693	0.69	
5.789	2930966	2399872	0.819	4.38	
5.820	163457	187868	1.149	0.24	
5.887	340321	201390	0.592	0.50	
5.930	156927	121531	0.774	0.23	
5.963	113308	102721	0.907	0.16	
5.993	430641	405116	0.941	0.64	
6.024	1572973	1369464	0.871	2.35	7 Aroclor 1254
6.055	1925378	1591332	0.827	2.87	
6.167	514420	346090	0.673	0.76	
6.226	223633	205998	0.921	0.33	
6.241	257513	217547	0.845	0.38	
6.298	2679205	2243217	0.837	4.00	7 Aroclor 1254
6.333	340090	297280	0.874	0.50	
6.372	195892	133533	0.682	0.29	
6.431	223913	143437	0.641	0.33	
6.479	48694	37457	0.769	0.07	
6.509	534044	489929	0.917	0.79	
6.534	627714	560434	0.893	0.93	
6.559	230272	200246	0.870	0.34	
6.603	164090	100775	0.614	0.24	
6.660	98048	64303	0.656	0.14	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.716	296171	235445	0.795	0.44	
6.758	261763	202302	0.773	0.39	
6.800	391499	328328	0.839	0.58	
6.839	188811	112456	0.596	0.28	
6.910	35804	31591	0.882	0.05	
6.941	392121	337191	0.860	0.58	
7.003	698685	642721	0.920	1.04	8 Aroclor 1260
7.032	96880	57111	0.590	0.14	
7.099	13299	15623	1.175	0.01	
7.123	49244	28923	0.587	0.07	
7.248	354042	320639	0.906	0.52	8 Aroclor 1260
7.280	164254	111708	0.680	0.24	
7.341	71517	41734	0.584	0.10	
7.389	166600	154721	0.929	0.24	
7.441	259730	187967	0.724	0.38	8 Aroclor 1260
7.492	54133	27262	0.504	0.08	
7.548	46442	31584	0.680	0.06	
7.581	43877	23443	0.534	0.06	
7.626	34190	29164	0.853	0.05	
7.663	19477	25119	1.290	0.02	
7.692	48658	43770	0.900	0.07	
7.725	52298	42525	0.813	0.07	
7.763	36695	19719	0.537	0.05	
7.811	91557	57459	0.628	0.13	
7.865	12424	13553	1.091	0.01	
7.897	181135	135765	0.750	0.27	8 Aroclor 1260
7.955	31744	19104	0.602	0.04	
8.049	41341	32224	0.779	0.06	
8.273	124548	107568	0.864	0.18	
8.380	10286	9511	0.925	0.01	
8.568	5345455	4610079	0.862	7.98	$ 12 Decachlorobiphenyl
8.725	51372	33149	0.645	0.07	
9.052	24236	18999	0.784	0.03	
9.164	30995	24681	0.796	0.04	
	66903044	56693894		100.000	

Total unknown % area = 50

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042318.b\042318031.D
Lab Smp Id: 40157937020 Client Smp ID: TD1-170828-01-GOSH-
Inj Date : 23-APR-2018 20:51
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157937020 x2,
Misc Info : 17718,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042318.b\pcba030618.m
Meth Date : 24-Apr-2018 13:17 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 31
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	10.000	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			
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	208301	0.38022	380	0.00- 20.00	0.00	BA
2.686	2.688	-0.002	35704	0.02581	26	0.00- 20.00	0.00	BA
2.788	2.789	-0.001	45311	0.04098	41	0.00- 20.00	0.00	BA
2.851	2.851	0.000	109484	0.03363	34	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					120			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	5868961	0.04760	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			
4.261	4.261	0.000	1921051	0.81992	820	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1891339	0.45571	460	0.00- 20.00	98.45	BA
4.811	4.812	-0.001	1378425	0.67900	680	0.00- 20.00	71.75	BA
4.878	4.879	-0.001	3151511	0.62562	620	0.00- 20.00	164.05	BA
5.036	5.038	-0.002	1591172	0.44340	440	0.00- 20.00	82.83	BA
		Average of Peak Concentrations =			600			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	1936633	0.36992	370	0.00- 20.00	100.00(M)	CO
5.405	5.408	-0.003	1385218	0.32206	320	0.00- 20.00	71.53	CO
5.508	5.510	-0.002	2541586	0.32727	330	0.00- 20.00	131.24	CO
6.023	6.027	-0.004	1572973	0.32301	320	0.00- 20.00	81.22	CO
6.297	6.299	-0.002	2679204	0.41174	410	0.00- 20.00	138.34	CO
		Average of Peak Concentrations =			350			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
7.002	7.006	-0.004	698685	0.06977	70	0.00- 20.00	26.08	BA
7.247	7.251	-0.004	354042	0.07407	74	0.00- 20.00	13.21	BA
7.441	7.443	-0.002	259730	0.08910	89	0.00- 20.00	9.69	BA
7.896	7.901	-0.005	181134	0.06864	69	0.00- 20.00	6.76	BA
		Average of Peak Concentrations =			75			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.568	8.571	-0.003	5345455	0.04879	49			

QC Flag Legend

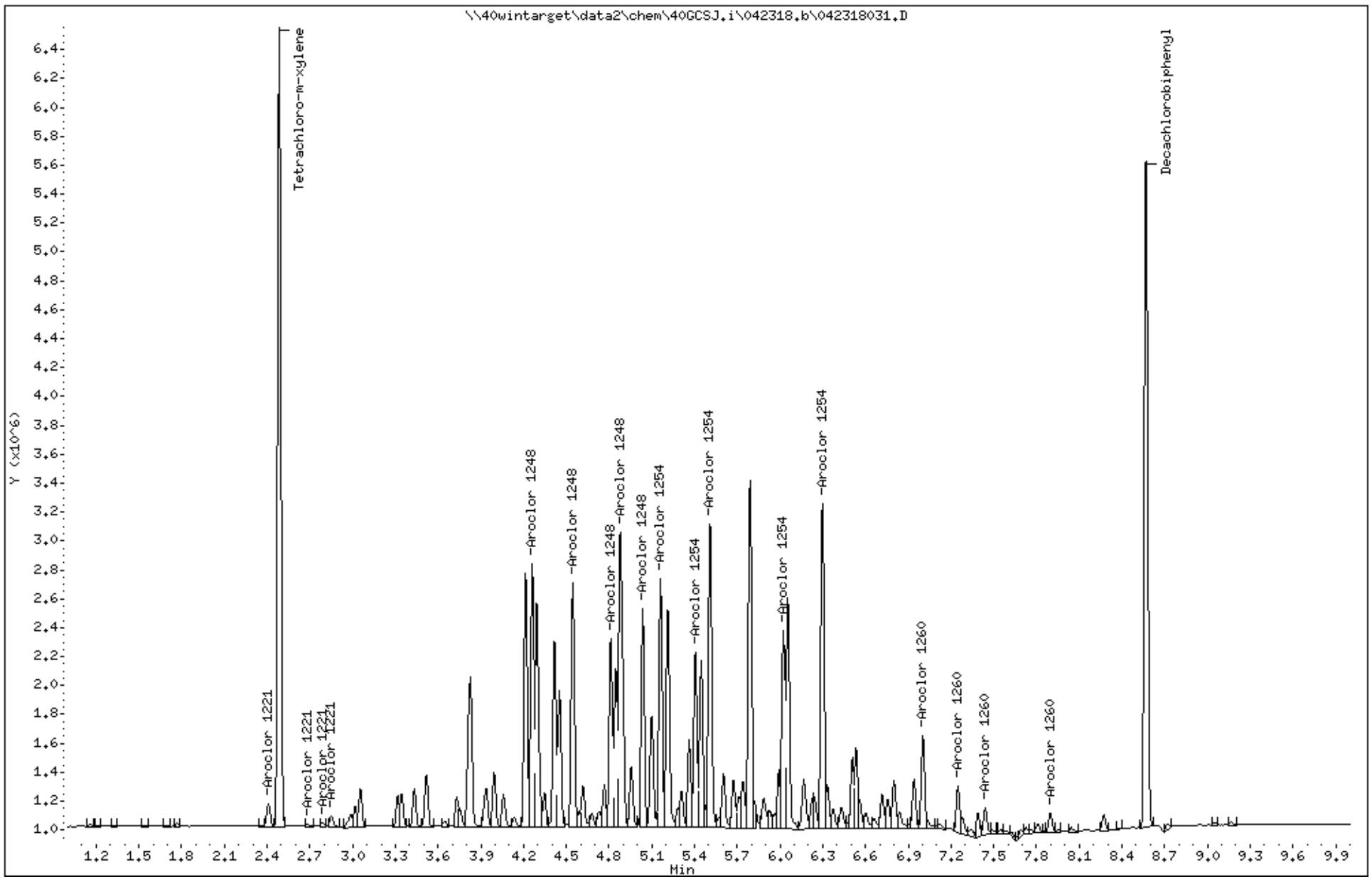
M - Compound response manually integrated.

Review Codes Legend

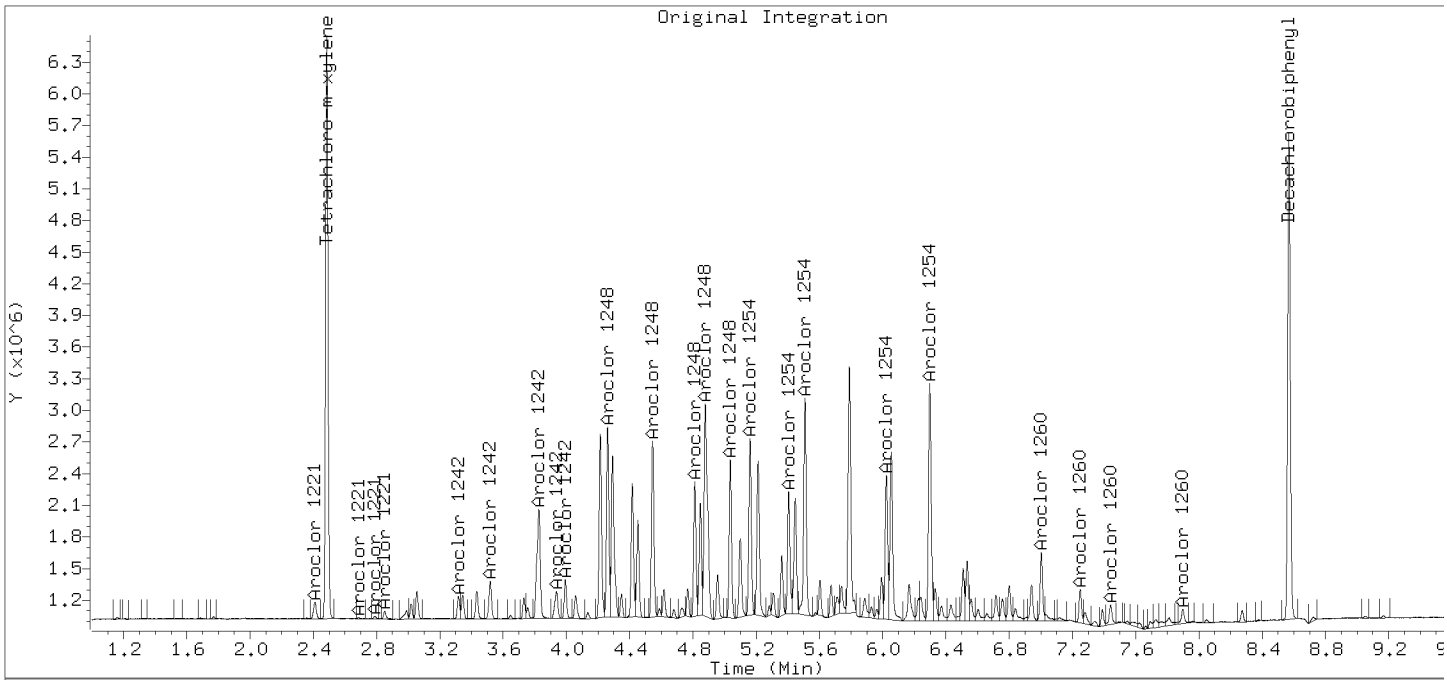
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

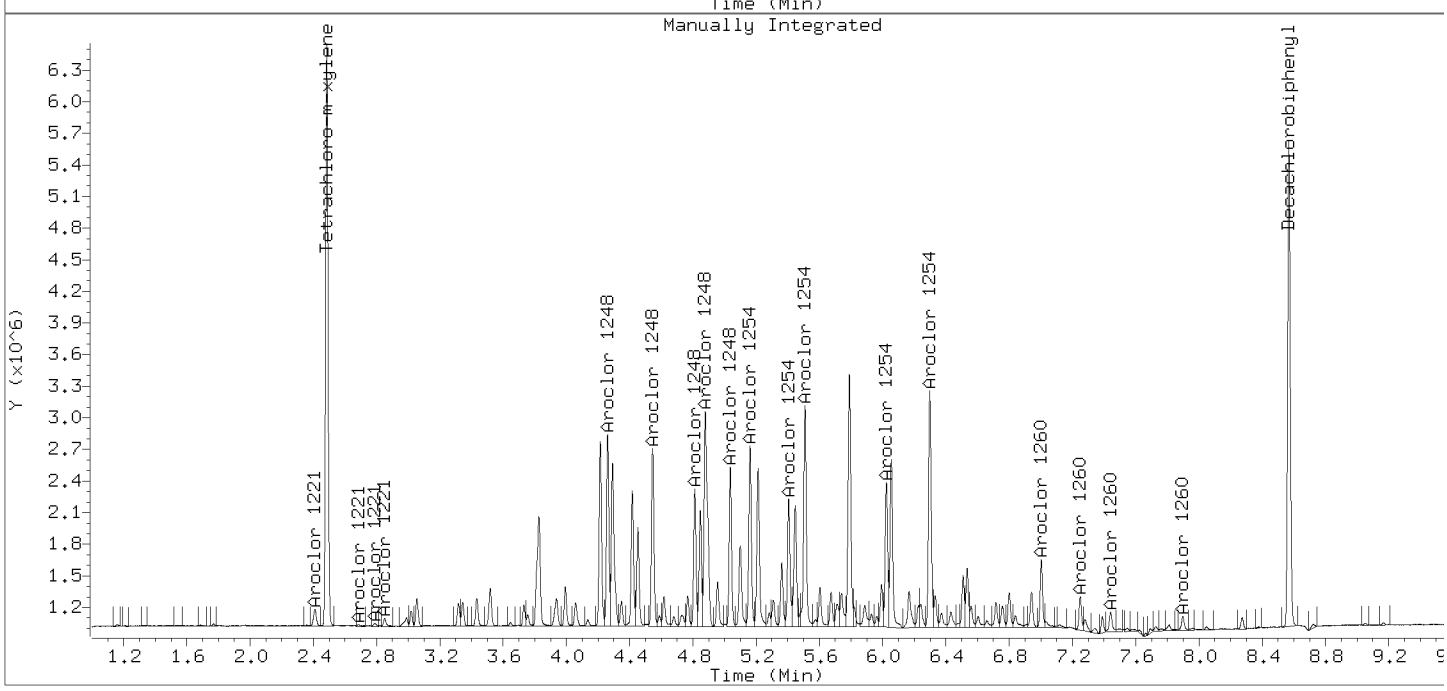
Data File: \\40wintarget\data2\chem\40GCSJ.i\042318.b\042318031.D
Date : 23-APR-2018 20:51
Client ID: TD1-170828-01-GOSH-
Sample Info: 40157937020 x2,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\042318.b/042318031.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 23-APR-2018 20:51 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157937020





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	222798	0	
Aroclor 1016	222798	0	
Aroclor 1016	222798	0	
Aroclor 1016	222798	0	
Aroclor 1016	222798	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	92525	0	
Aroclor 1232	92525	0	
Aroclor 1232	92525	0	
Aroclor 1232	92525	0	

Aroclor 1232	92525	0	
Aroclor 1242	222798	0	
Aroclor 1242	222798	0	
Aroclor 1242	222798	0	
Aroclor 1242	222798	0	
Aroclor 1242	222798	0	
Aroclor 1248	1874471	1921051	BA
Aroclor 1248	1874471	1921051	BA
Aroclor 1248	1874471	1921051	BA
Aroclor 1248	1874471	1921051	BA
Aroclor 1248	1874471	1921051	BA
Aroclor 1254	1808203	1936633	CO
Aroclor 1254	1808203	1936633	CO
Aroclor 1254	1808203	1936633	CO
Aroclor 1254	1808203	1936633	CO
Aroclor 1254	1808203	1936633	CO
Aroclor 1260	2704010	0	BA
Aroclor 1260	2704010	0	BA
Aroclor 1260	2704010	0	BA
Aroclor 1260	2704010	0	BA
Aroclor 1260	2704010	0	BA
Tetrachloro-m-xylene	5847619	5868961	BA
Decachlorobiphenyl	5345455	5345455	

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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.: 40157937

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.: 40157937

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.: 40157937

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.

05/16/2018 3:53

PCB - FORM VI SVOA-4

PCB INITIAL CALIBRATION (MULTIPOINT)

Lab Name: Pace Analytical - Green Bay Instrument ID: 40GCSJ GC Column: Col 1 SDG No.: 40157937

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.: 40157937

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

LAB FILE ID

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

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

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

PCB - FORM VI SVOA-2

PCB INITIAL CALIBRATION RETENTION TIME (MULTIPOINT)

Lab Name: Pace Analytical - Green Bay Instrument ID: 40GCSJ GC Column: Col 1 SDG No.: 40157937

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.: 40157937

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

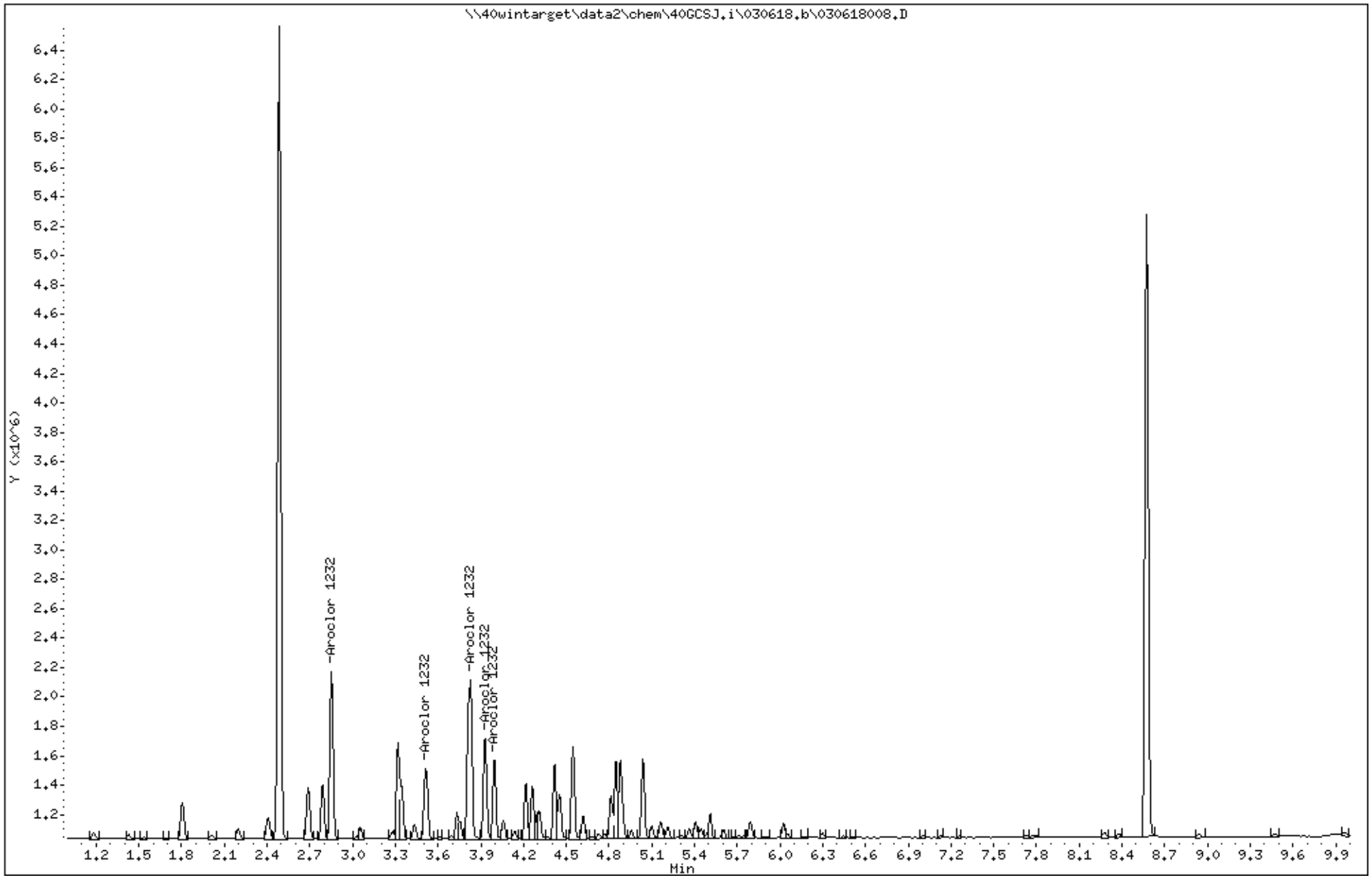
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

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

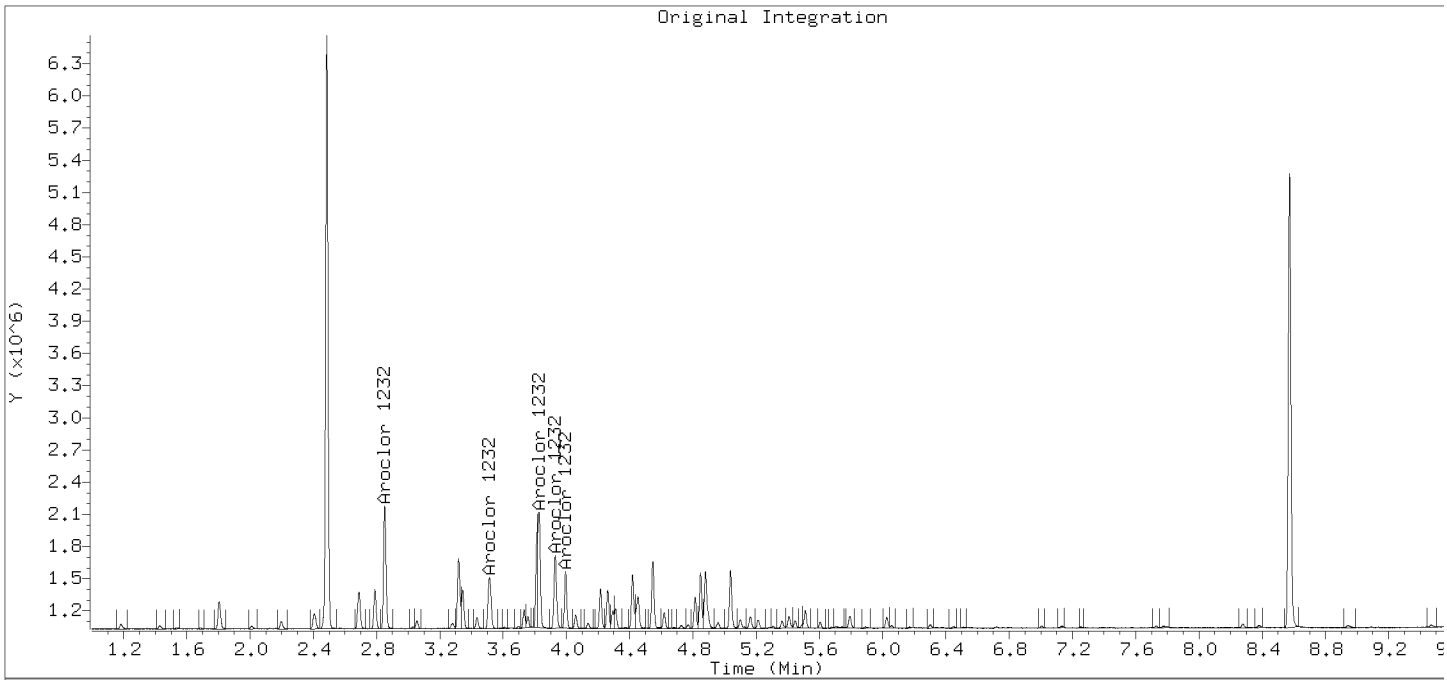
Column phase: ZB-1ms

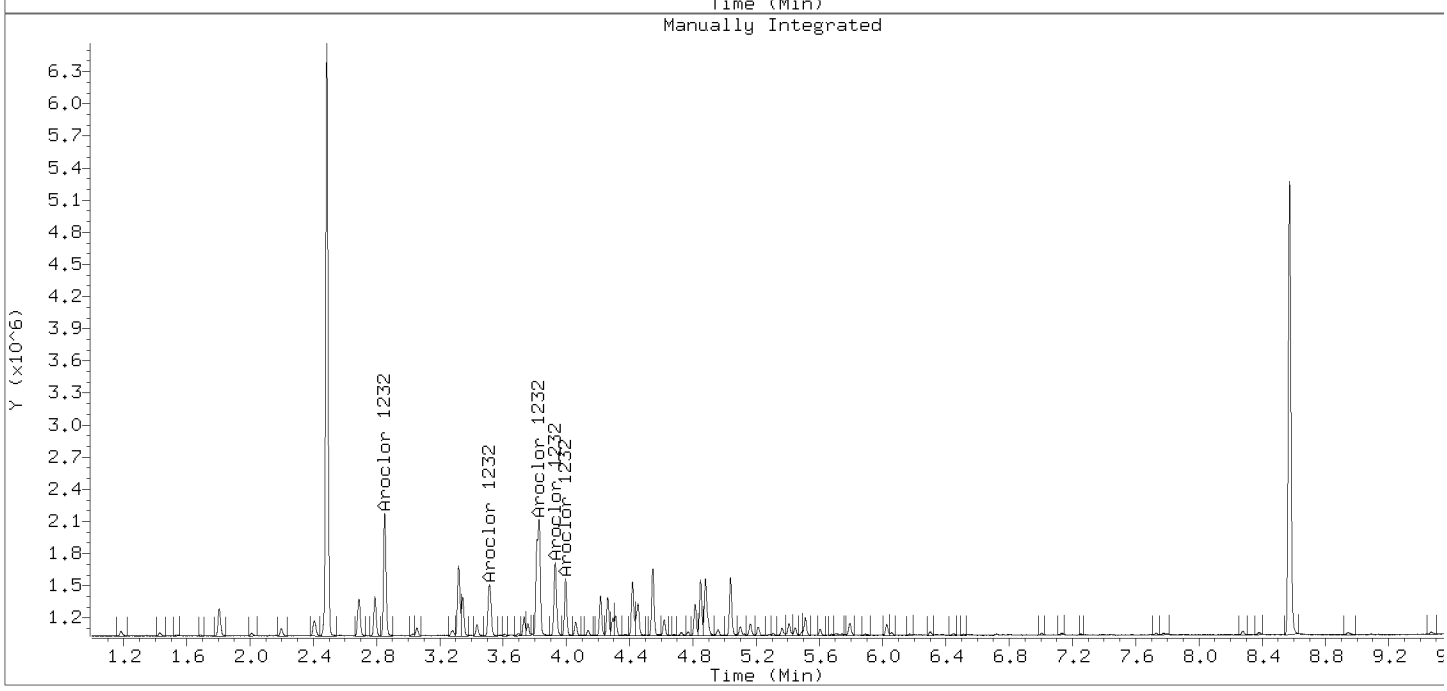
Instrument: 40GCSJ.i

Operator: BLM
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

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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

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SW846-8082

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

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

QC Flag Legend

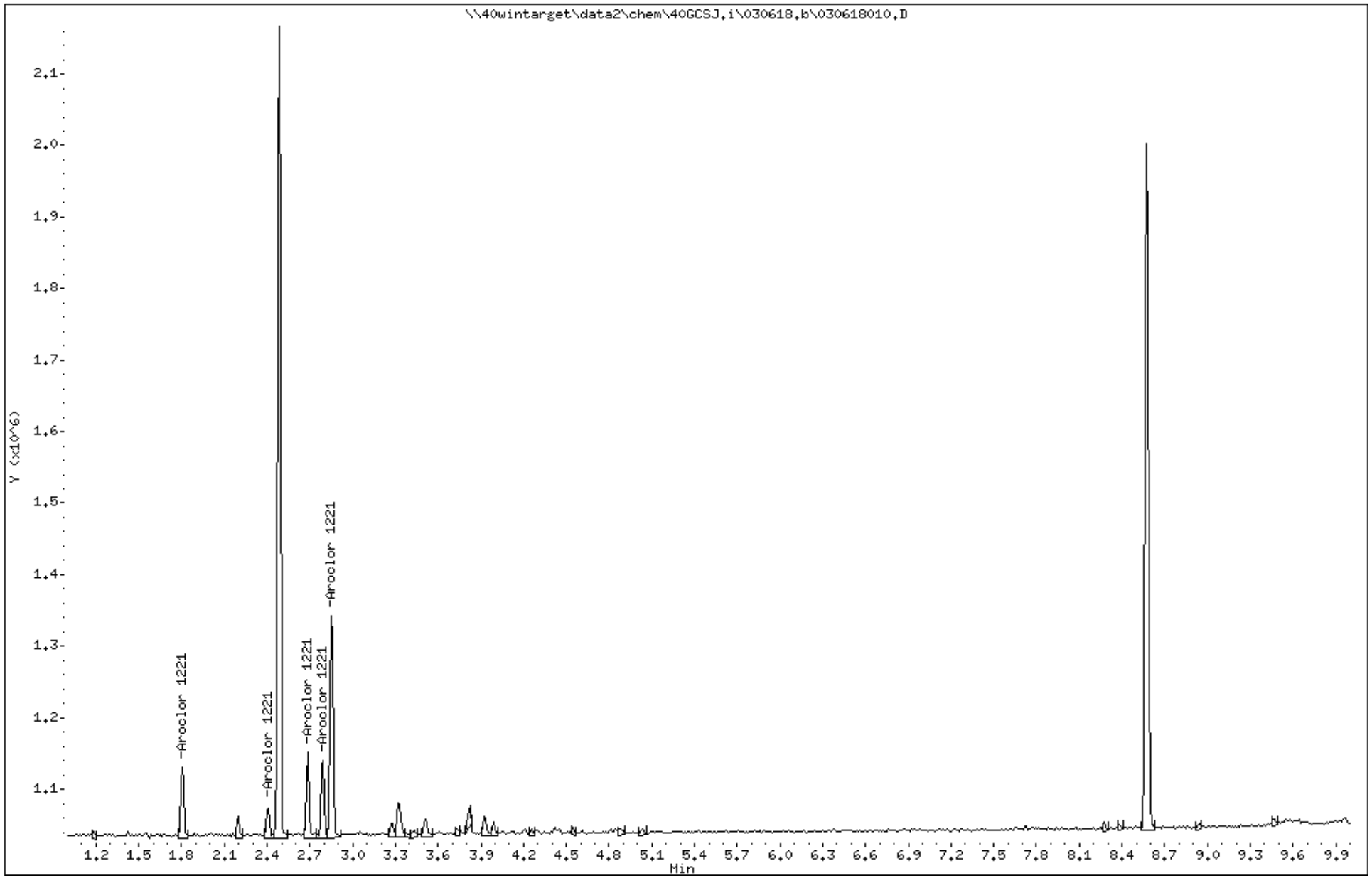
M - Compound response manually integrated.

Review Codes Legend

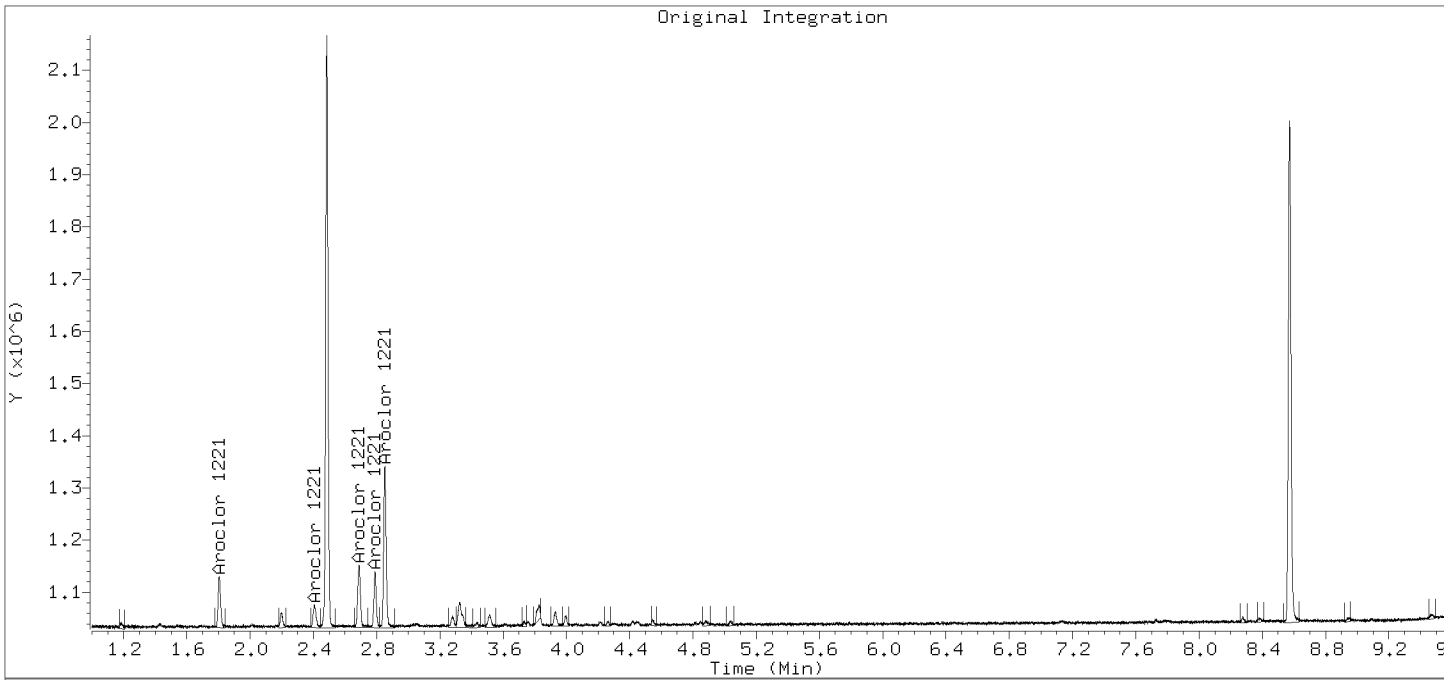
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

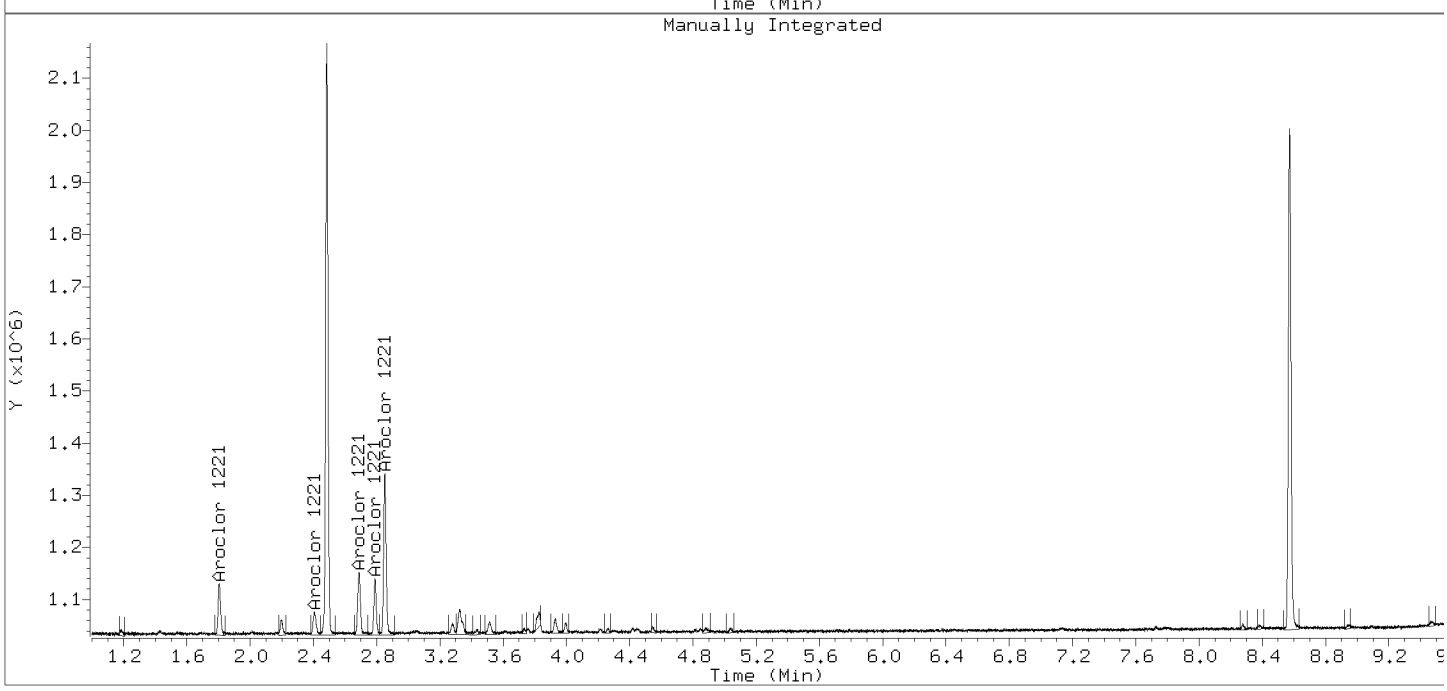
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618010.D
Date : 06-MAR-2018 12:07
Client ID: 1221-CAL1F
Sample Info: 1221-CAL1F, 188138:1

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



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





Manually Integrated Compounds

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

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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

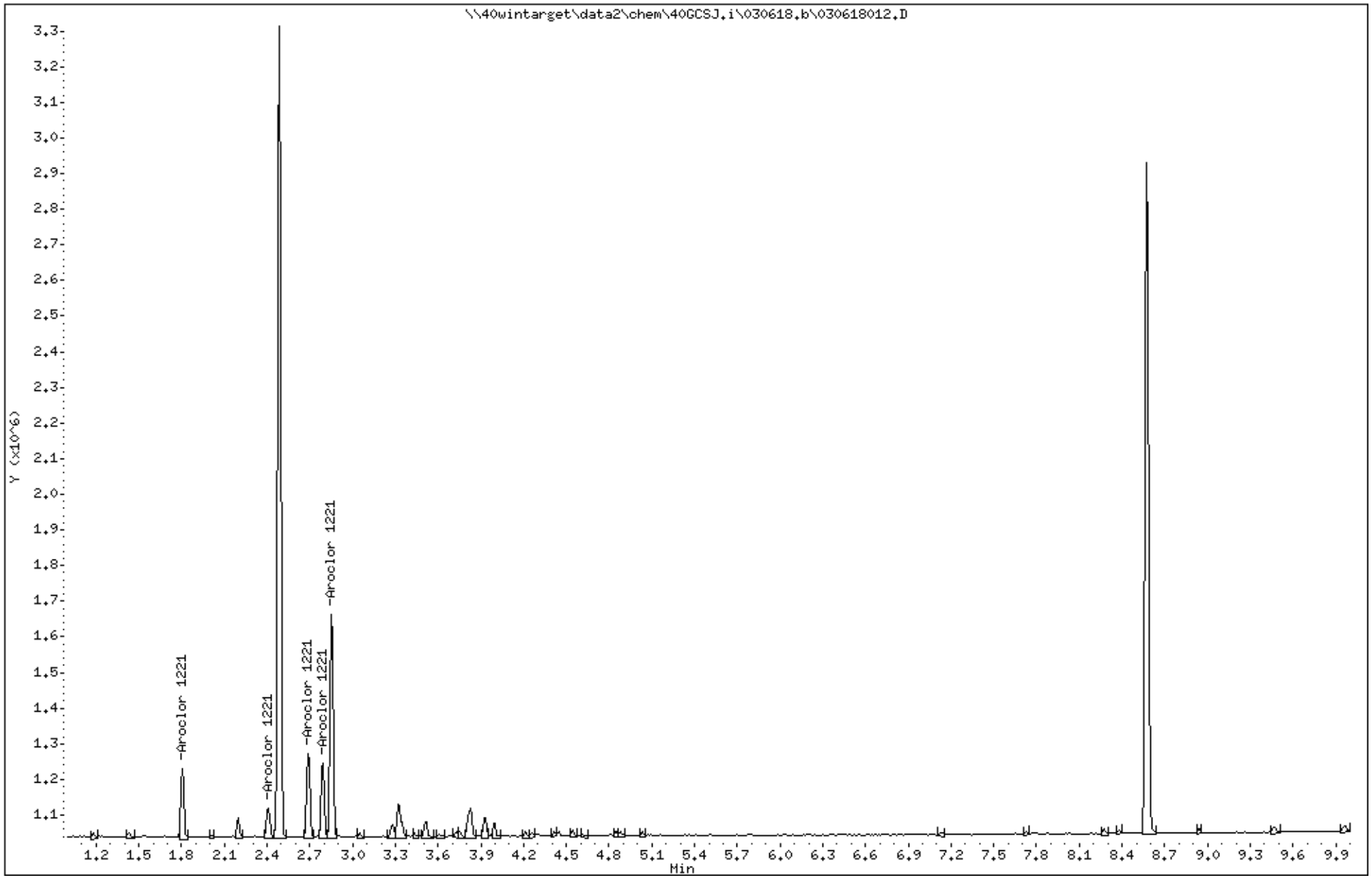
M - Compound response manually integrated.

Review Codes Legend

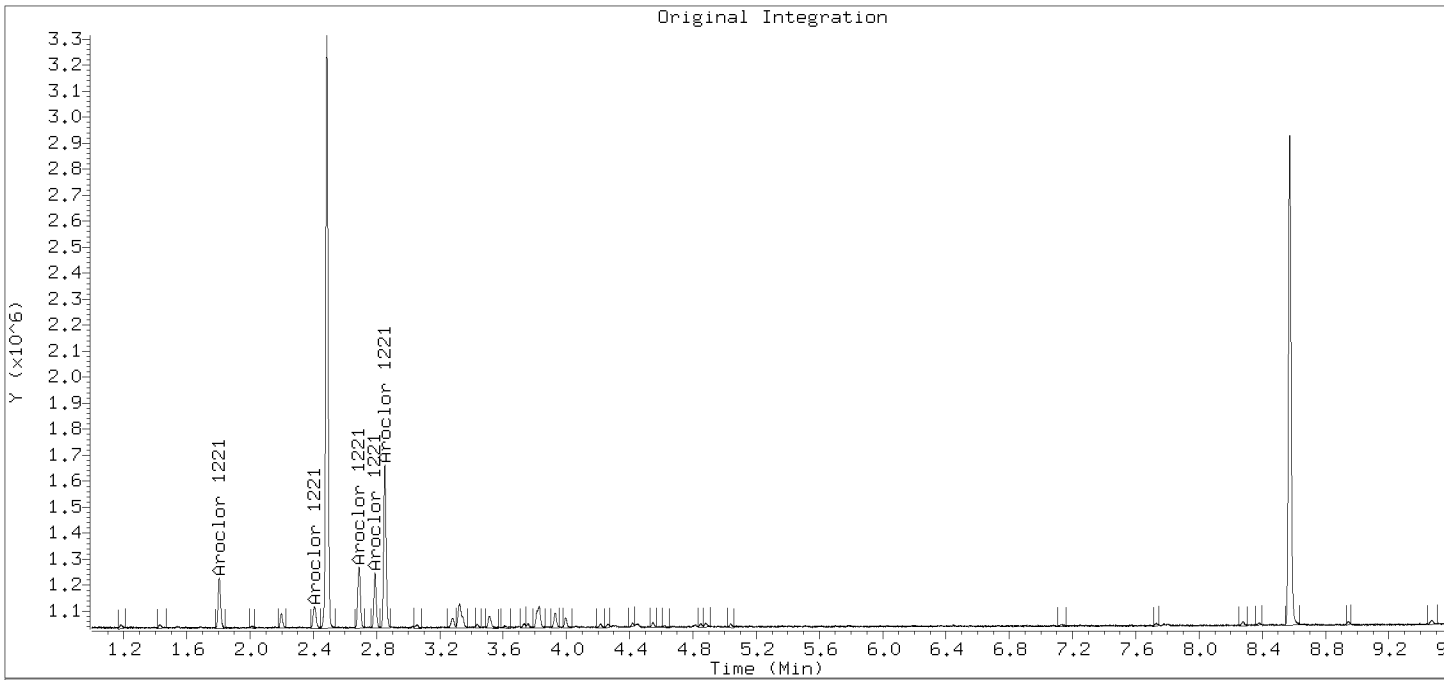
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

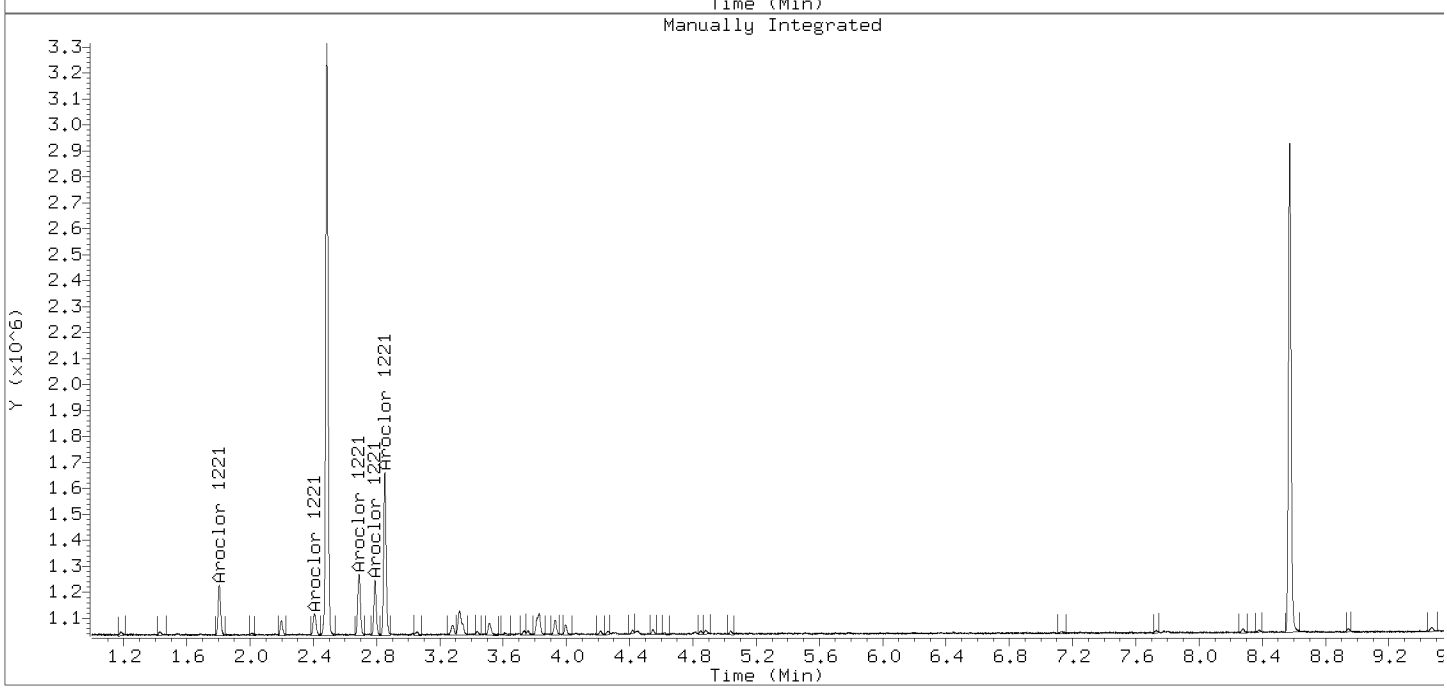
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618012.D
Date : 06-MAR-2018 12:23
Client ID: 1221-CAL2F
Sample Info: 1221-CAL2F, 188139:1

Instrument: 40GCSJ.i
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.

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

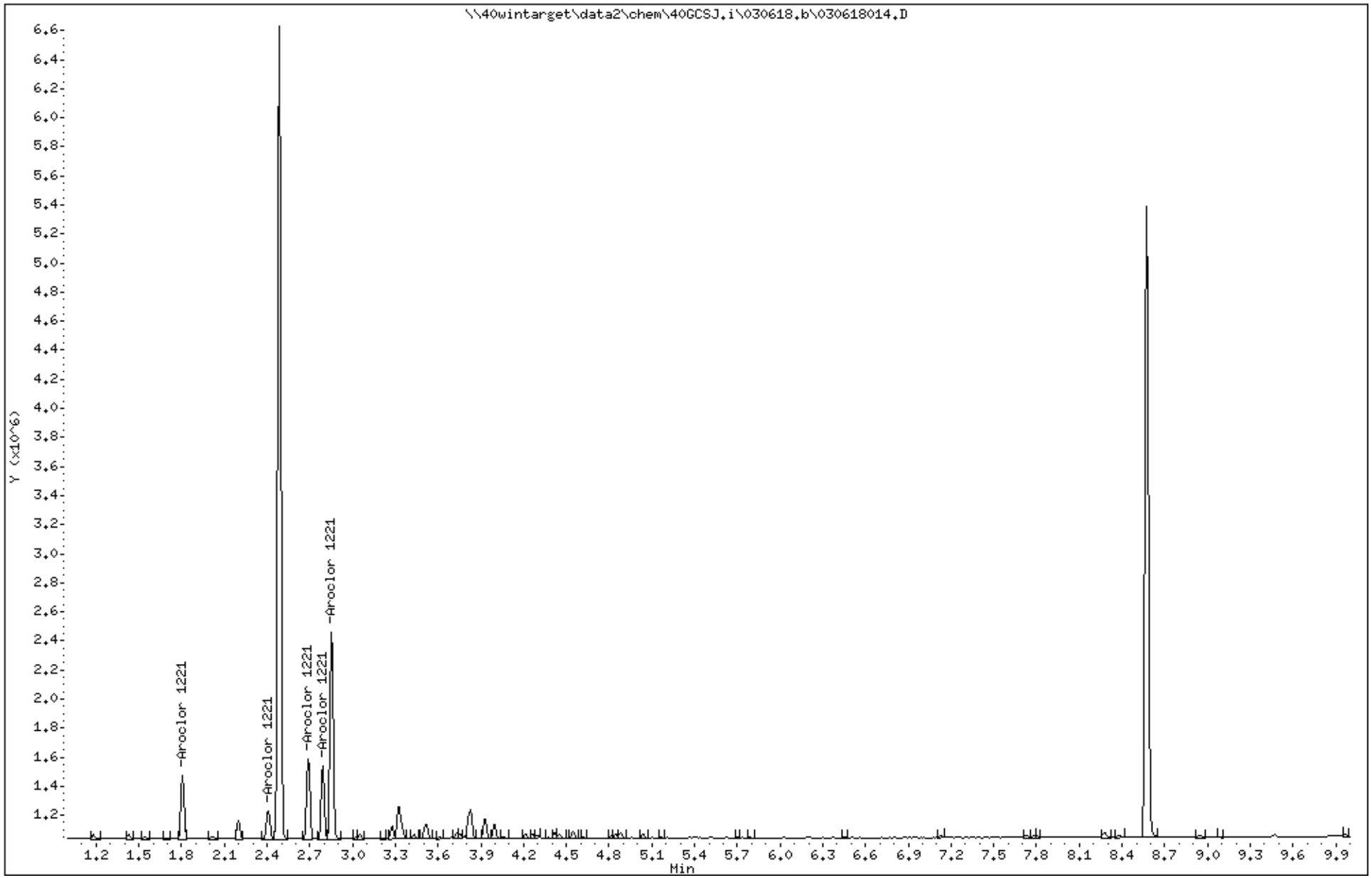
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618014.D
Date : 06-MAR-2018 12:39
Client ID: 1221-CAL3F
Sample Info: 1221-CAL3F, 185538:1

Instrument: 40GCSJ.i

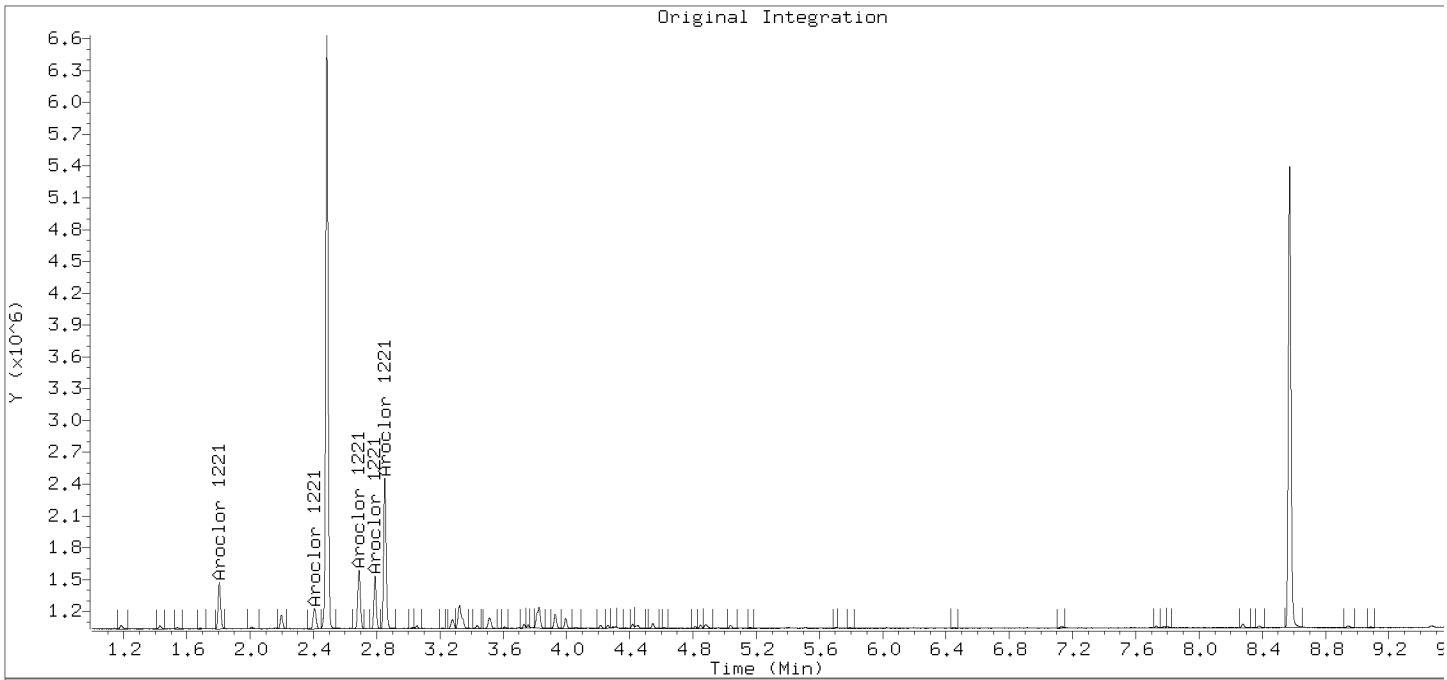
Operator: BLM

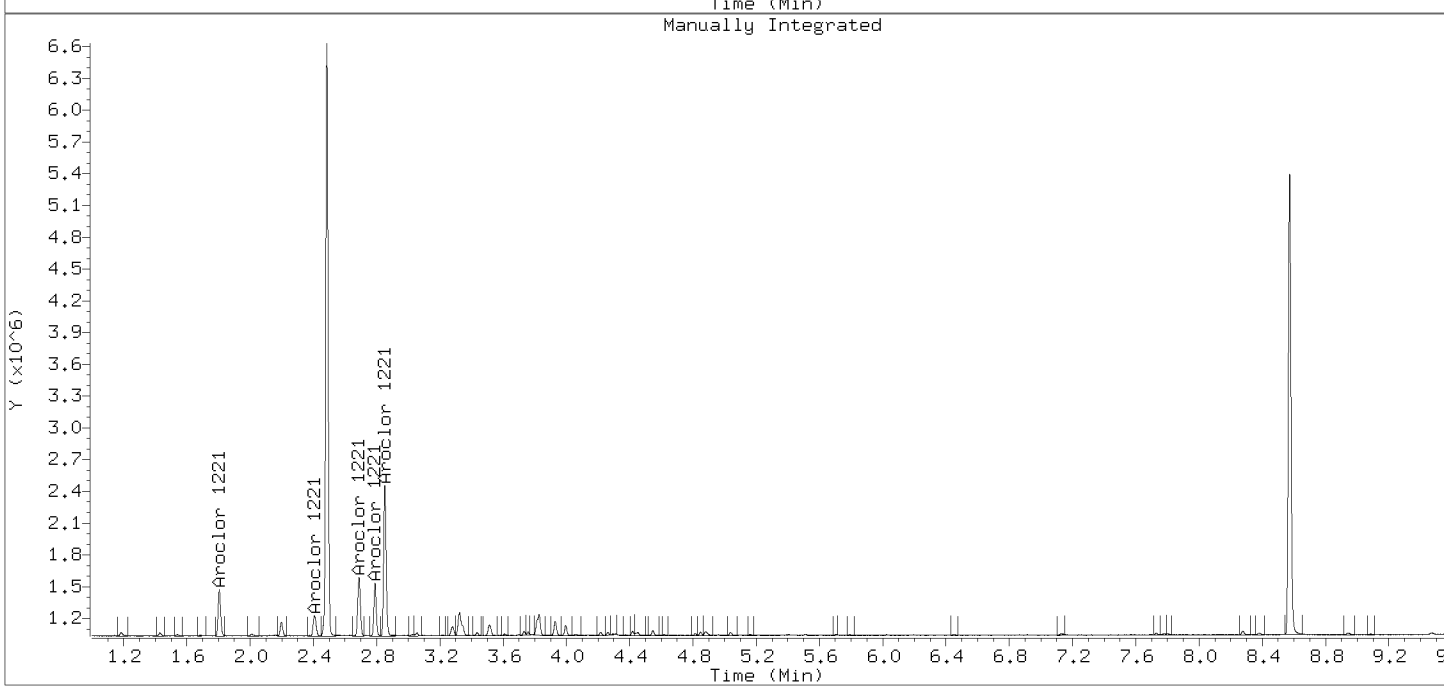
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 82

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 12:55

Client ID: 1221-CAL4F

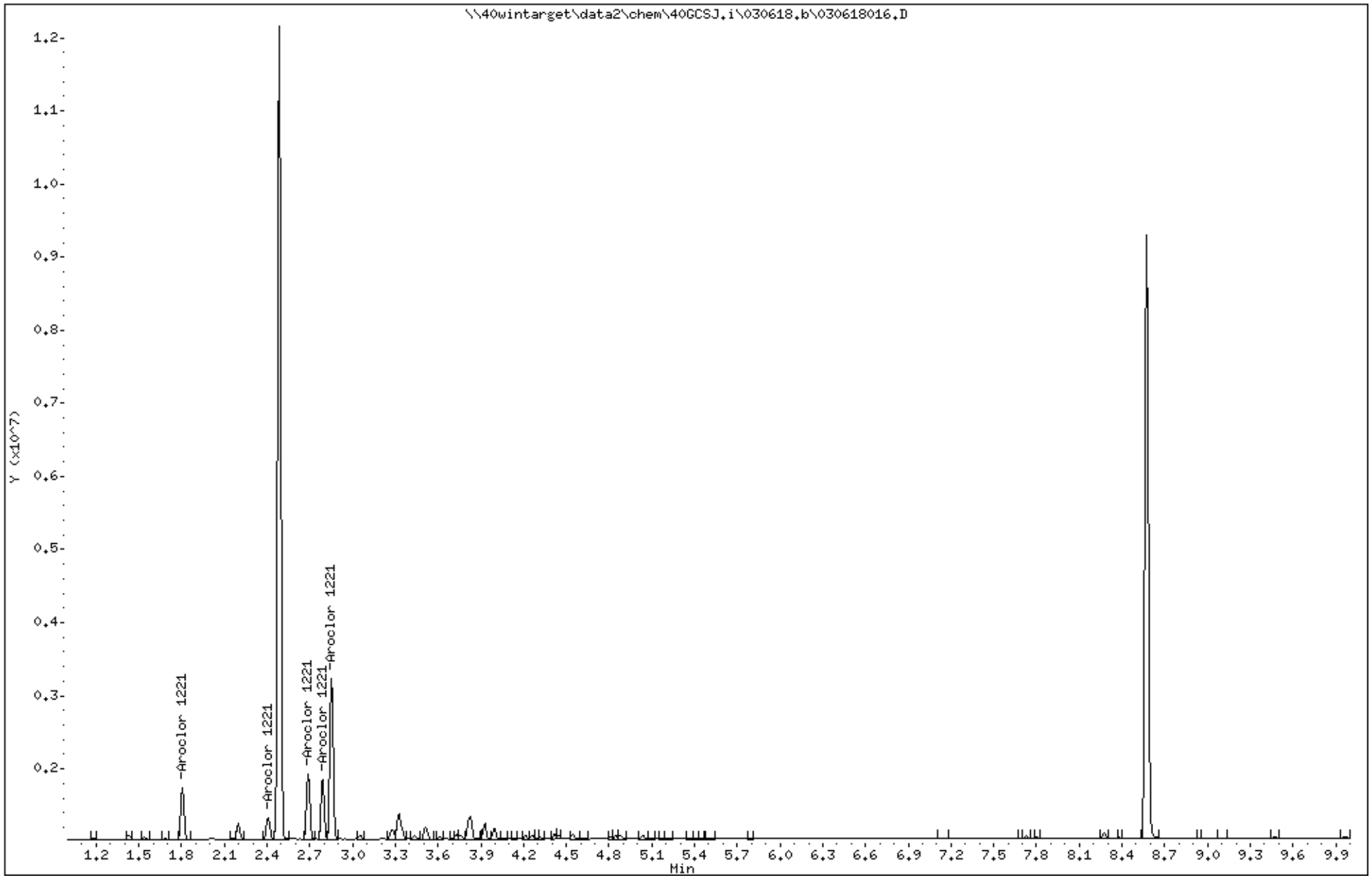
Instrument: 40GCSJ.i

Sample Info: 1221-CAL4F, 188140:1

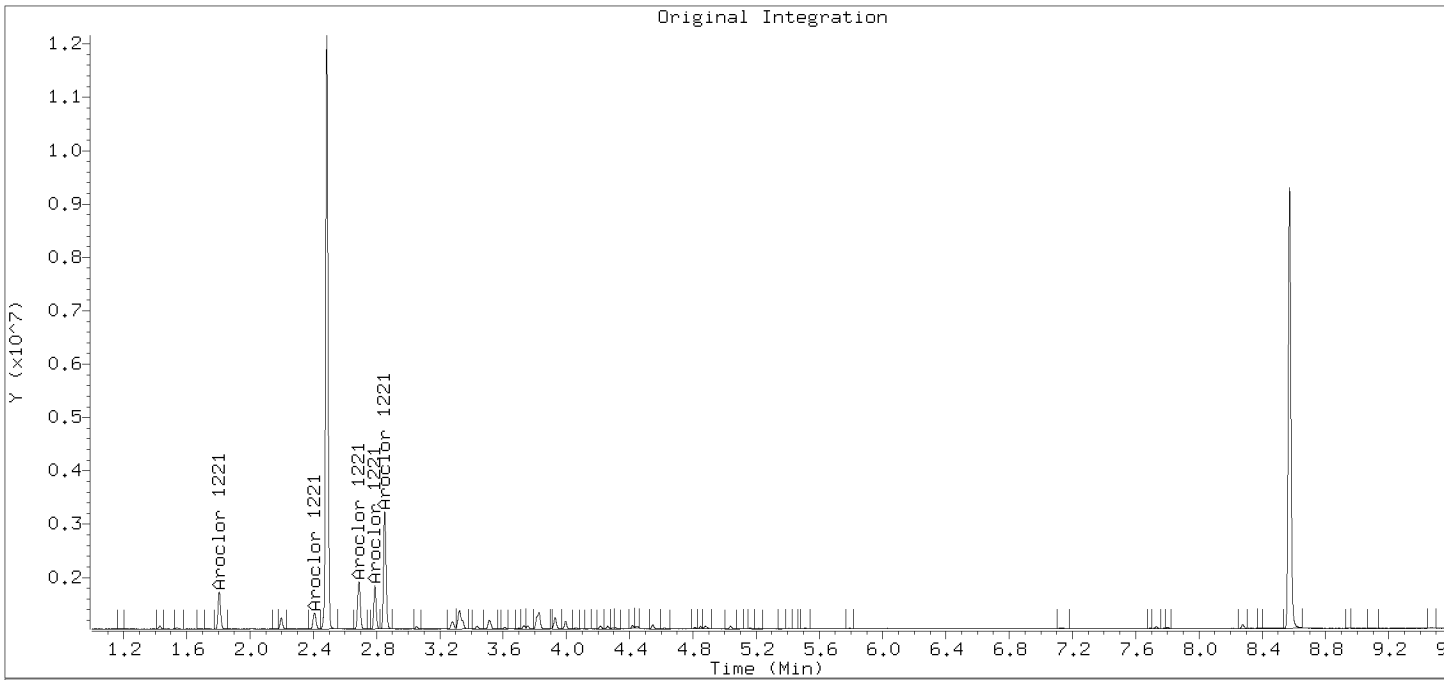
Operator: BLM

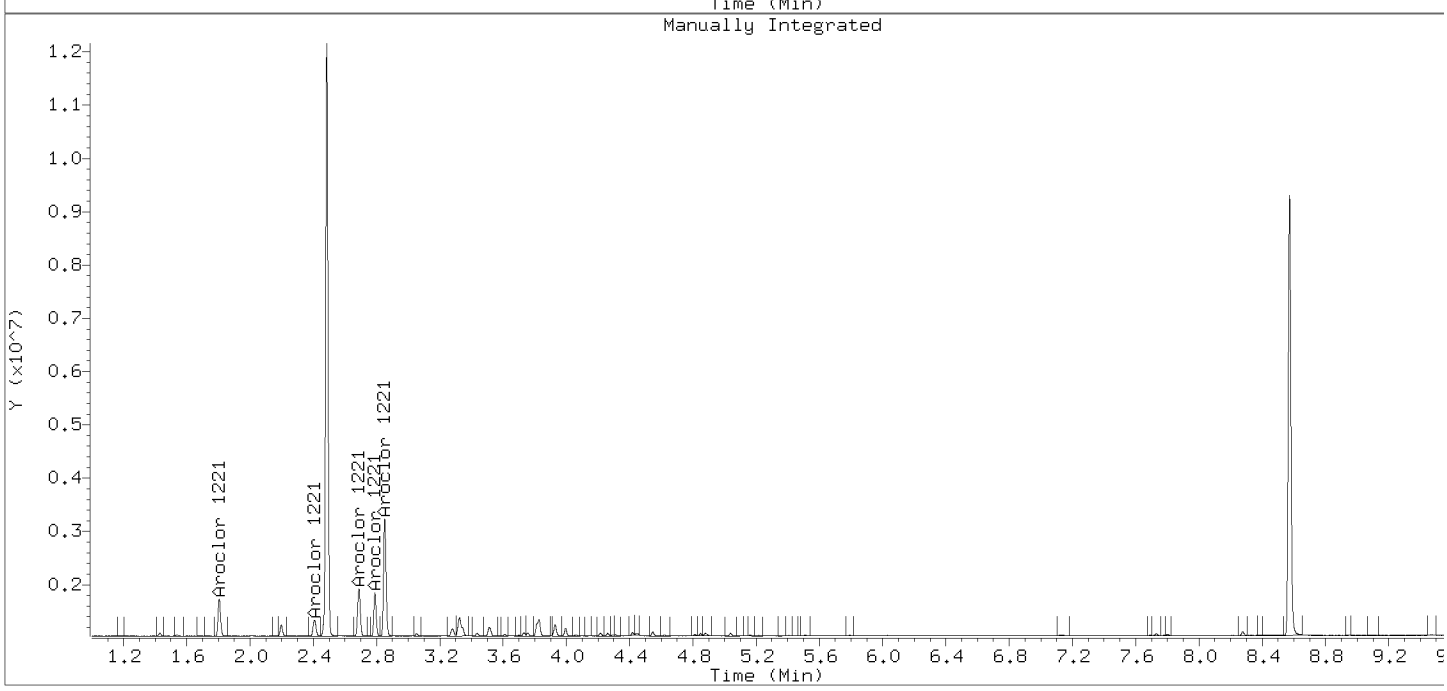
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 84

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 13:11

Client ID: 1221-CAL5F

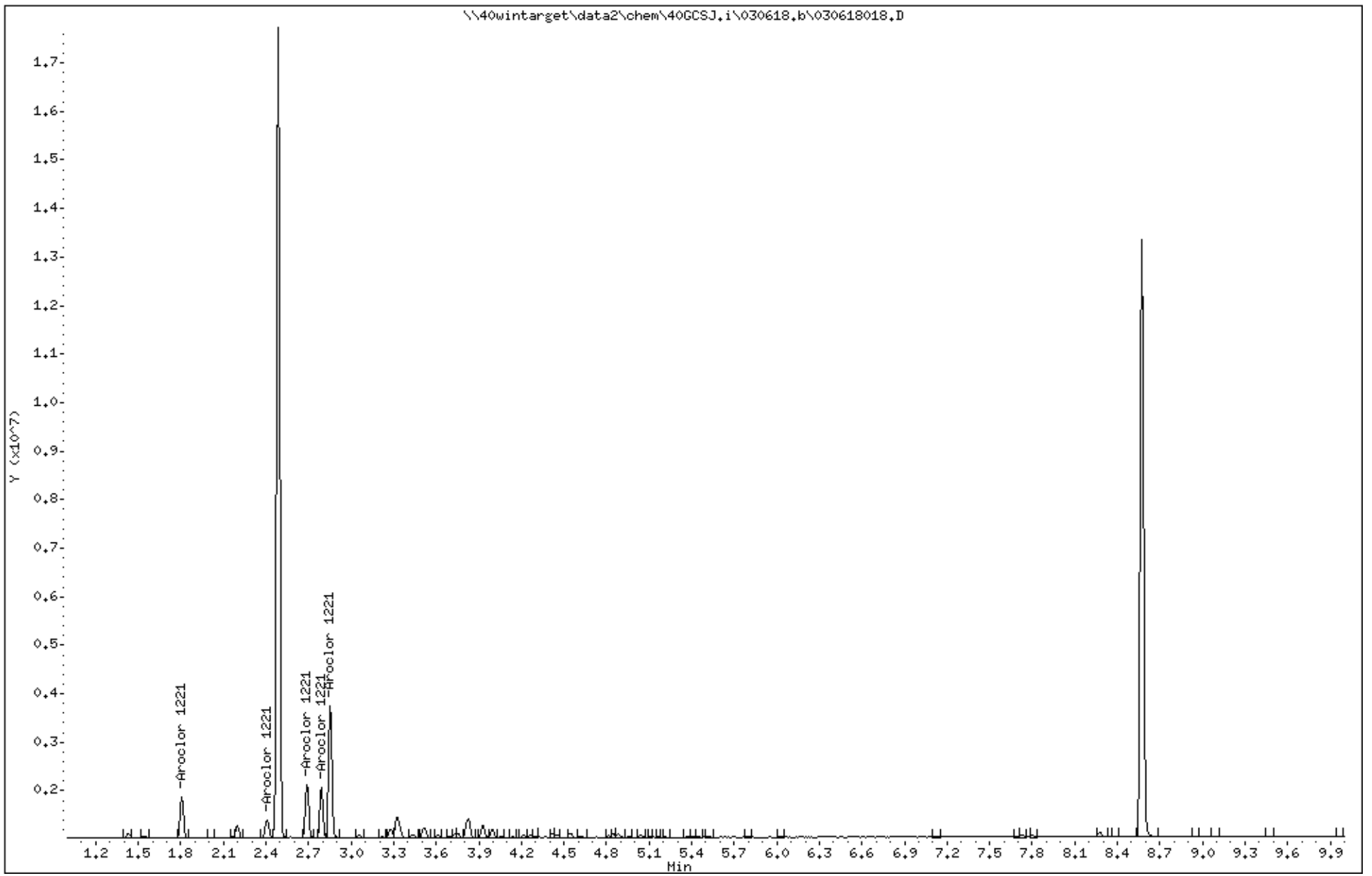
Instrument: 40GCSJ.i

Sample Info: 1221-CAL5F, 188141:1

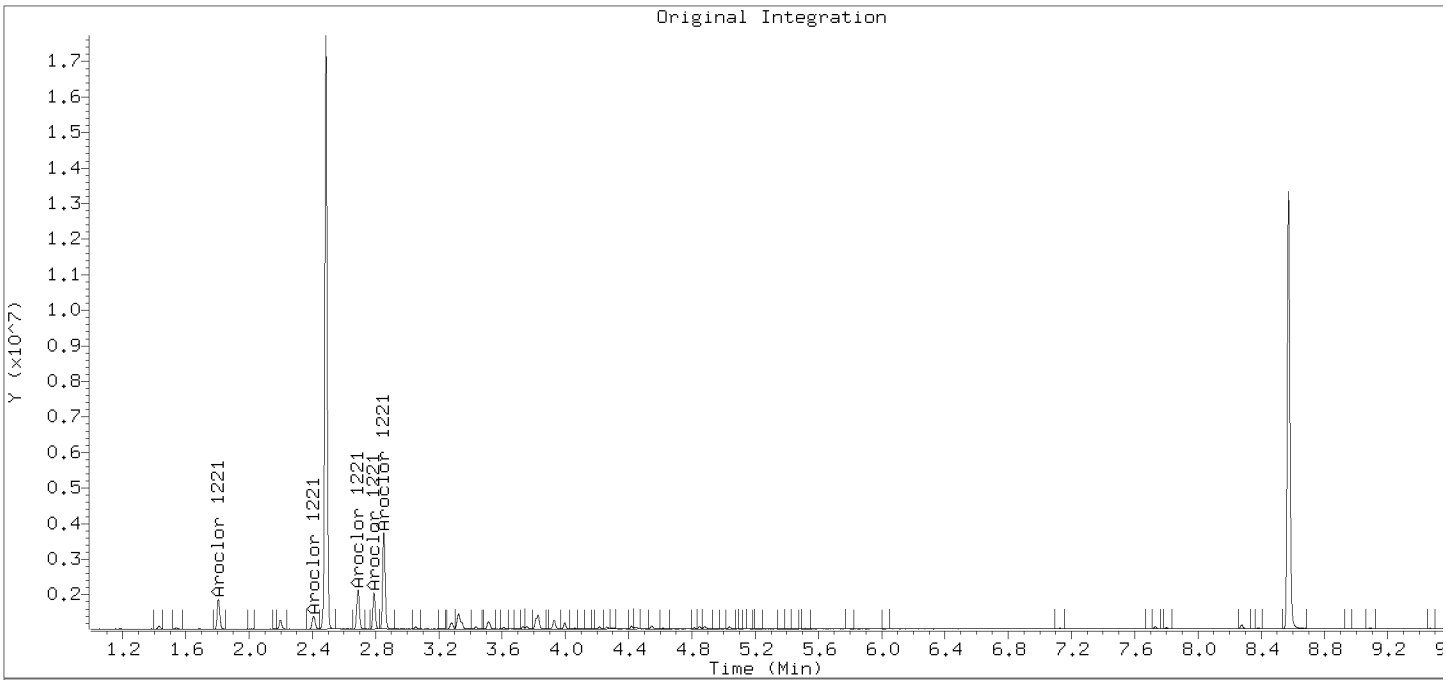
Operator: BLM

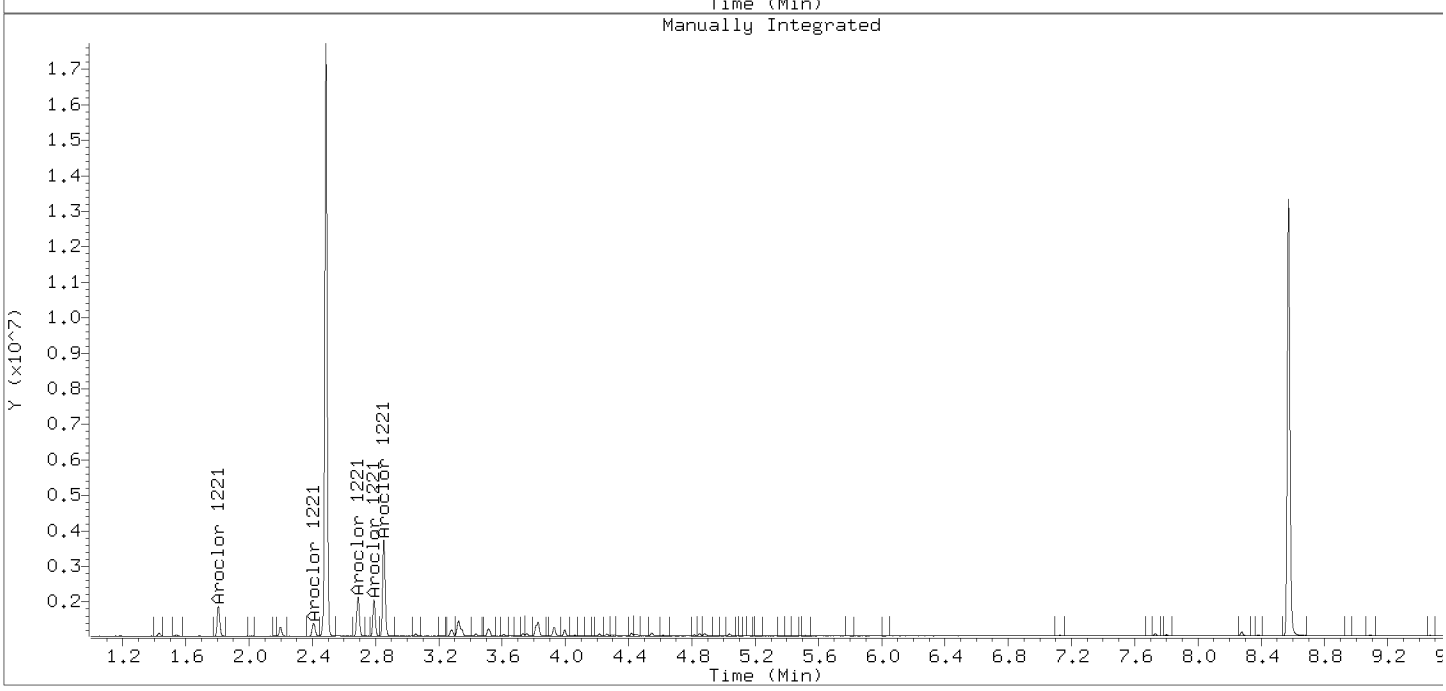
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 78

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618022.D

Date : 06-MAR-2018 13:44

Client ID: 1242-CAL1B

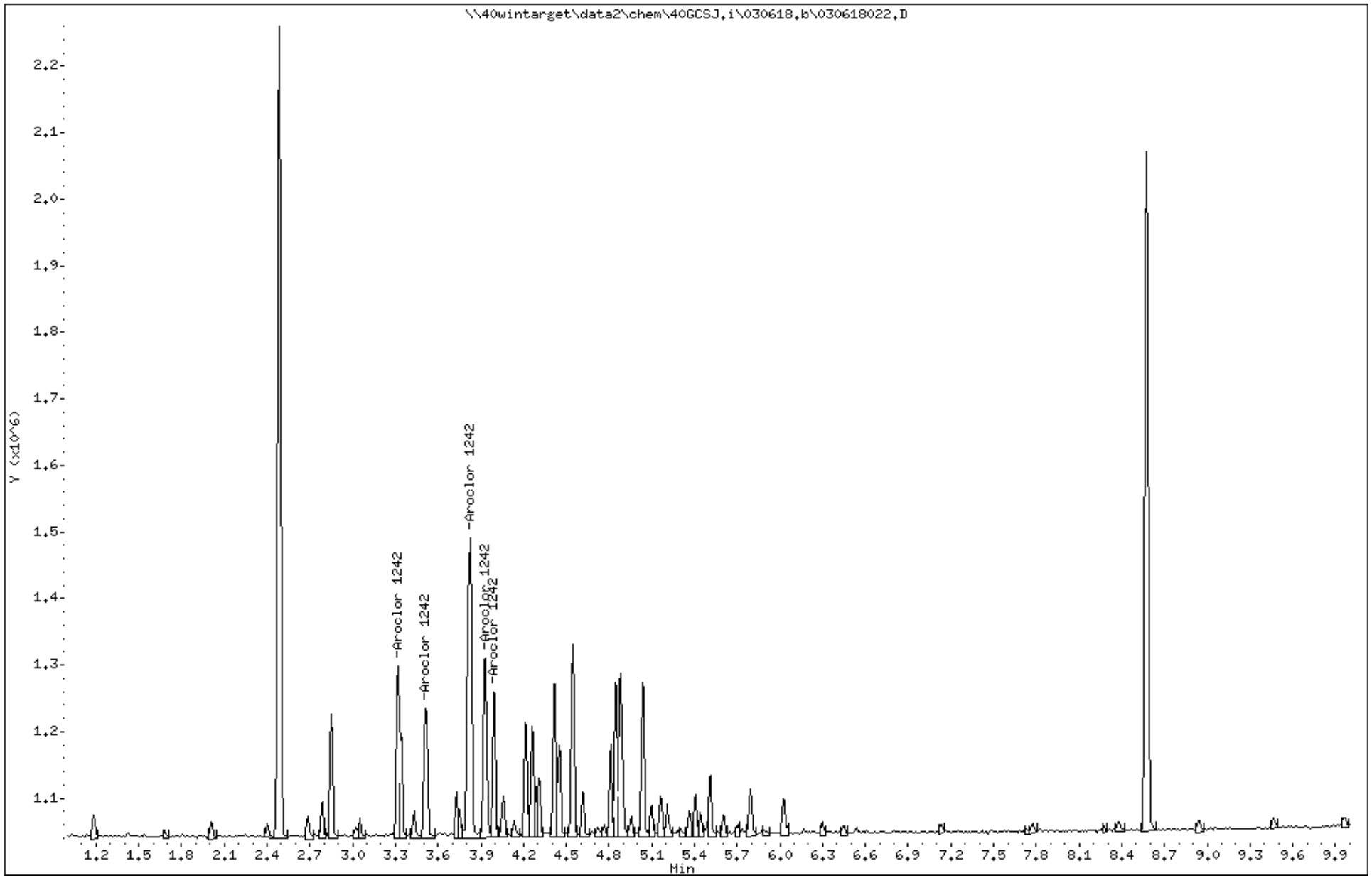
Instrument: 40GCSJ.i

Sample Info: 1242-CAL1B, 188132:1

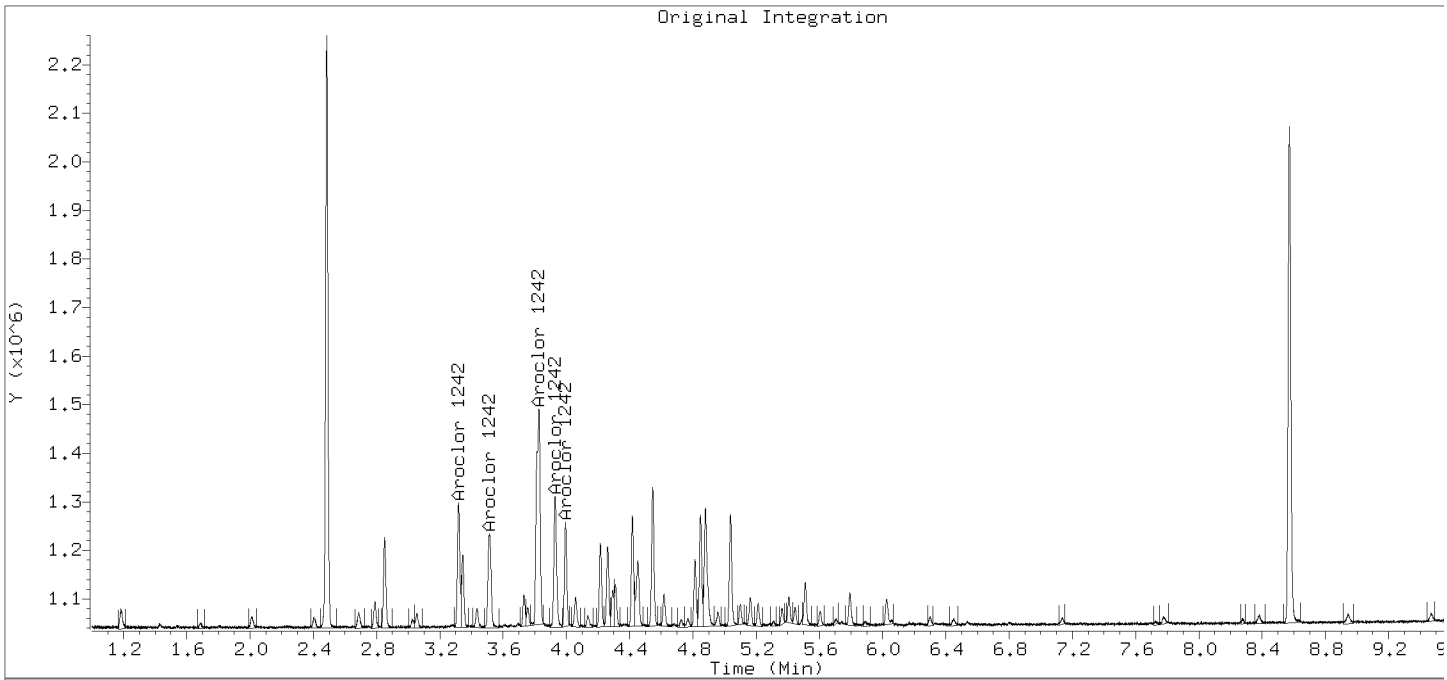
Operator: BLM

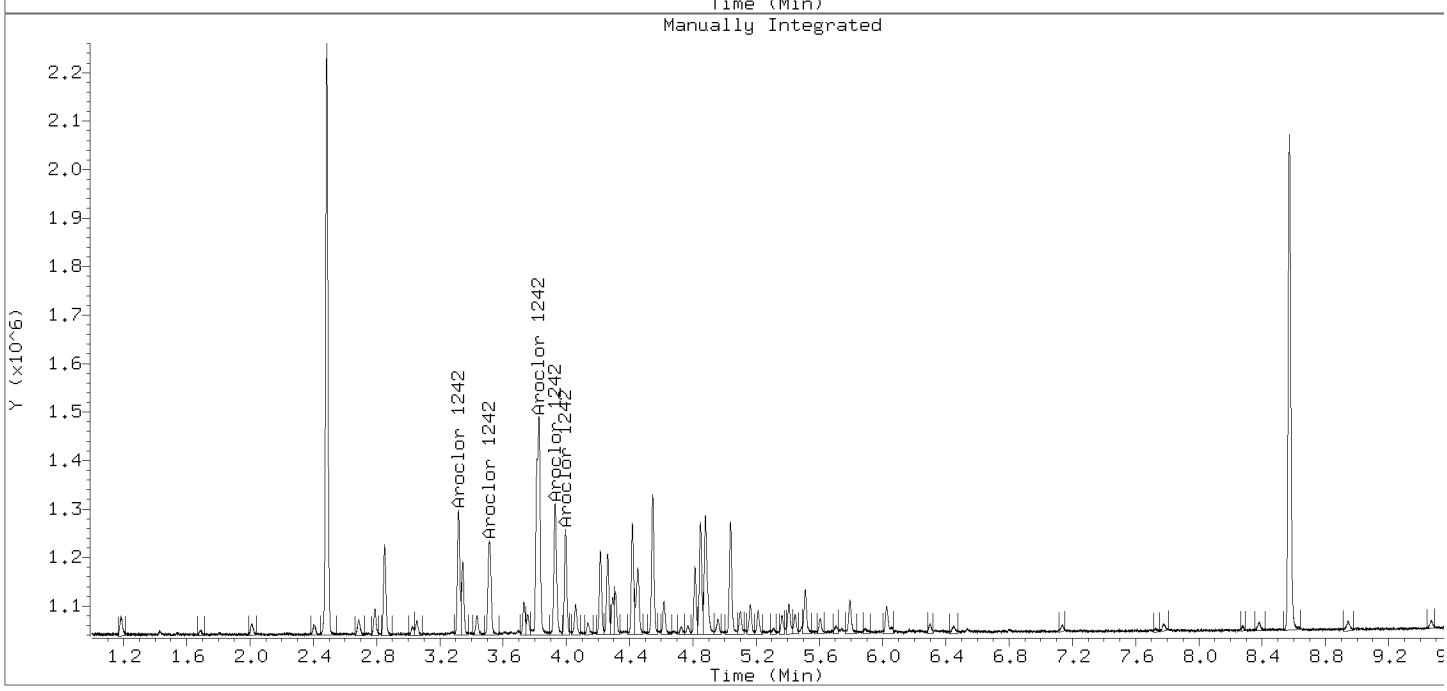
Column phase: ZB-1ms

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

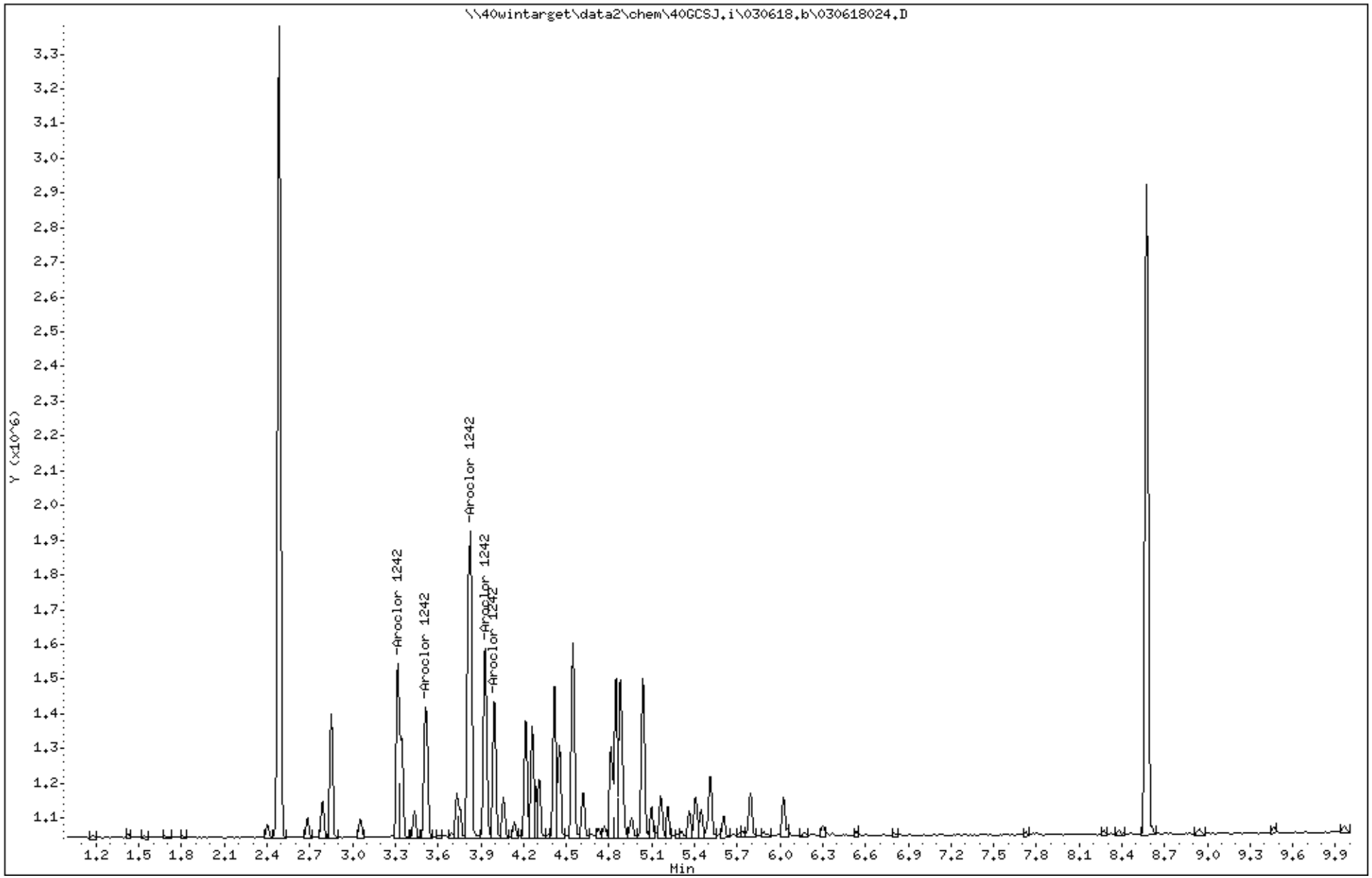
M - Compound response manually integrated.

Review Codes Legend

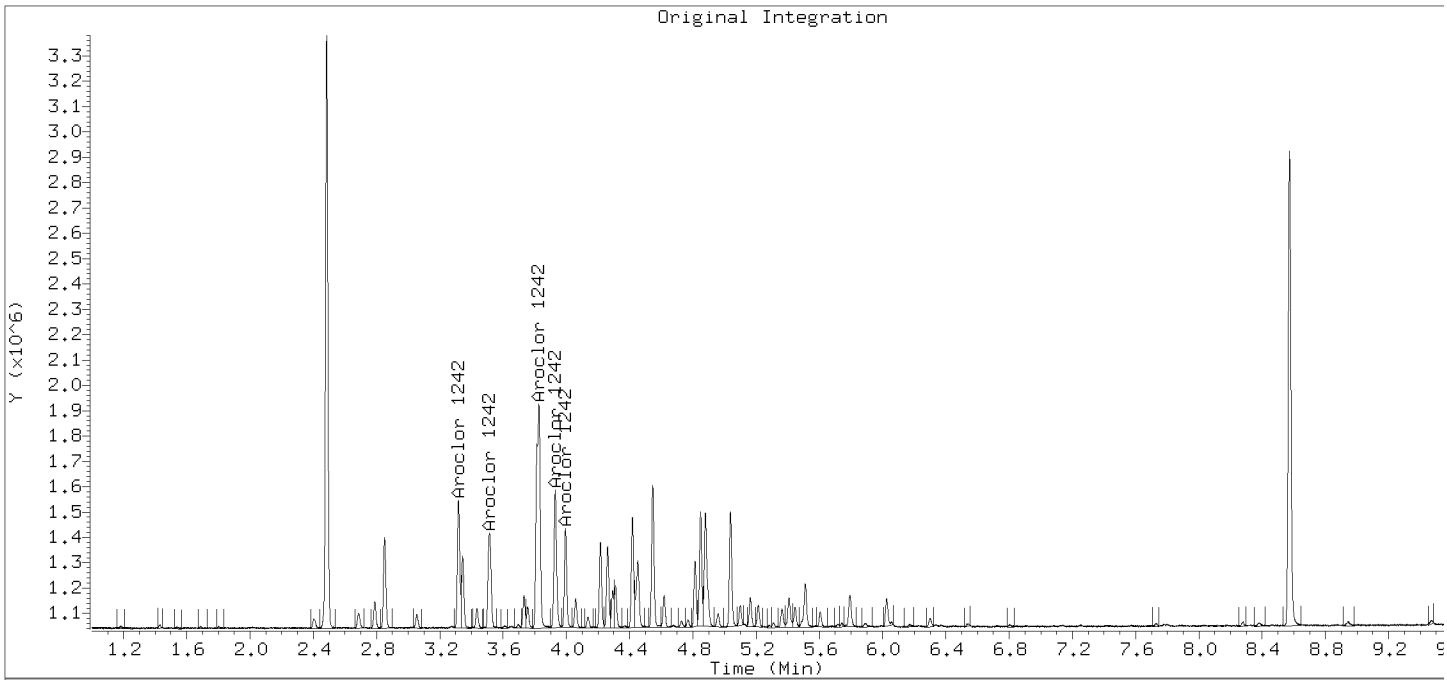
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

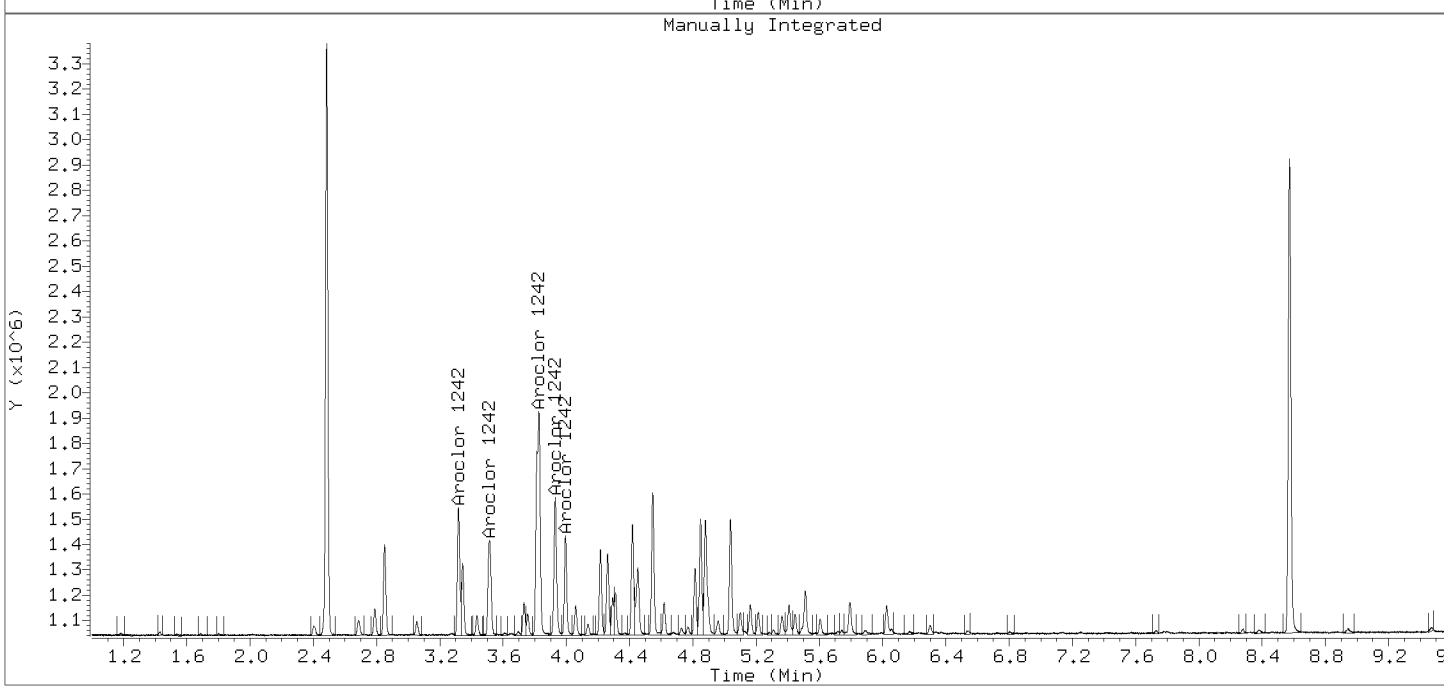
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618024.D
Date : 06-MAR-2018 14:00
Client ID: 1242-CAL2B
Sample Info: 1242-CAL2B, 185543:1

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

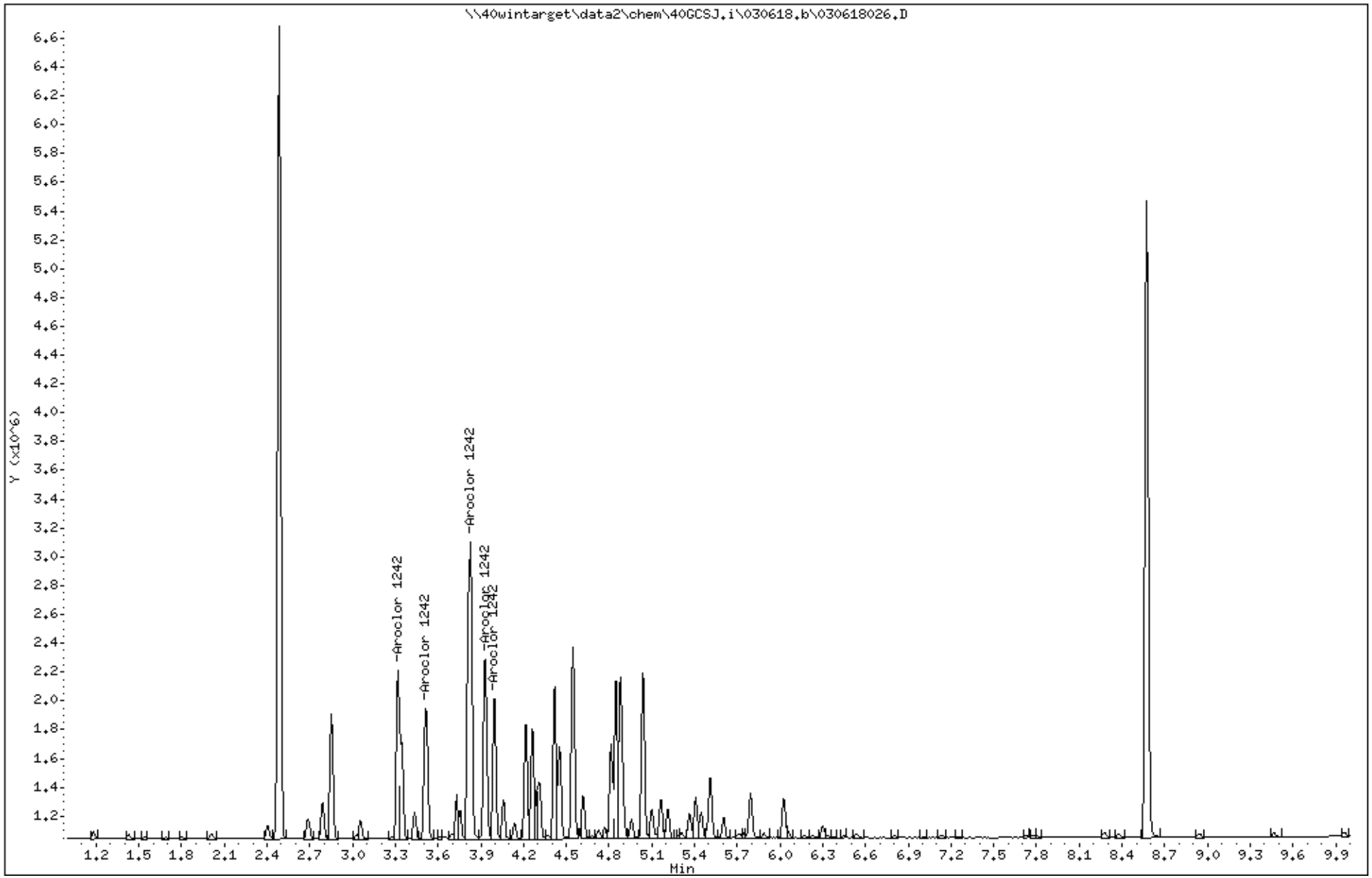
Instrument: 40GCSJ.i

Sample Info: 1242-CAL3B, 185544:1

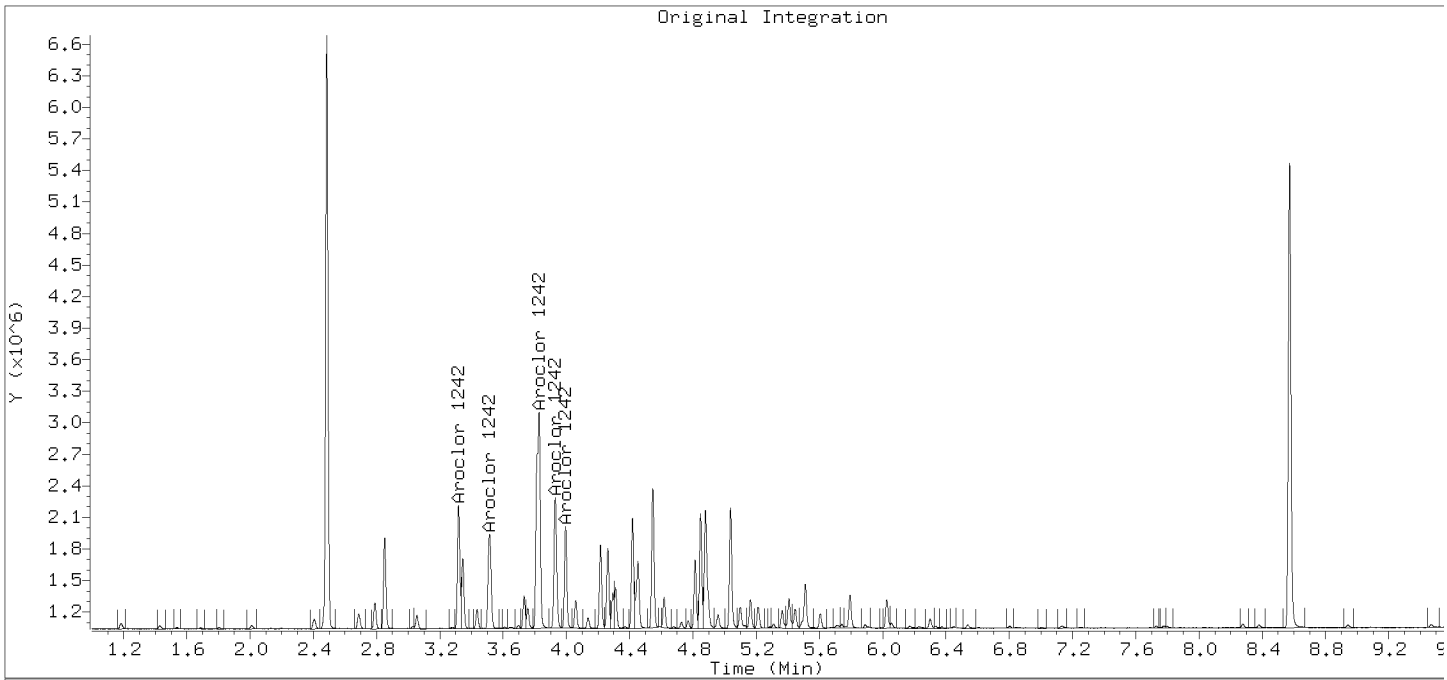
Operator: BLM

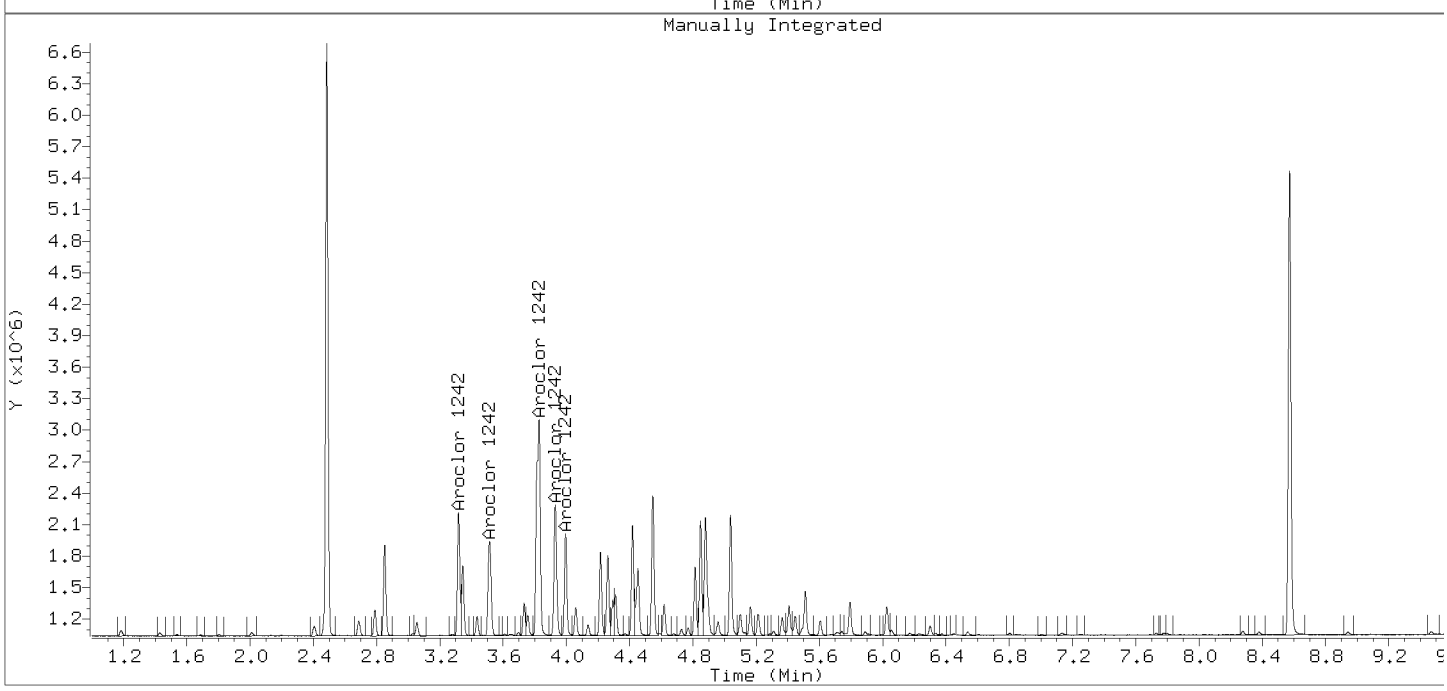
Column phase: ZB-1ms

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

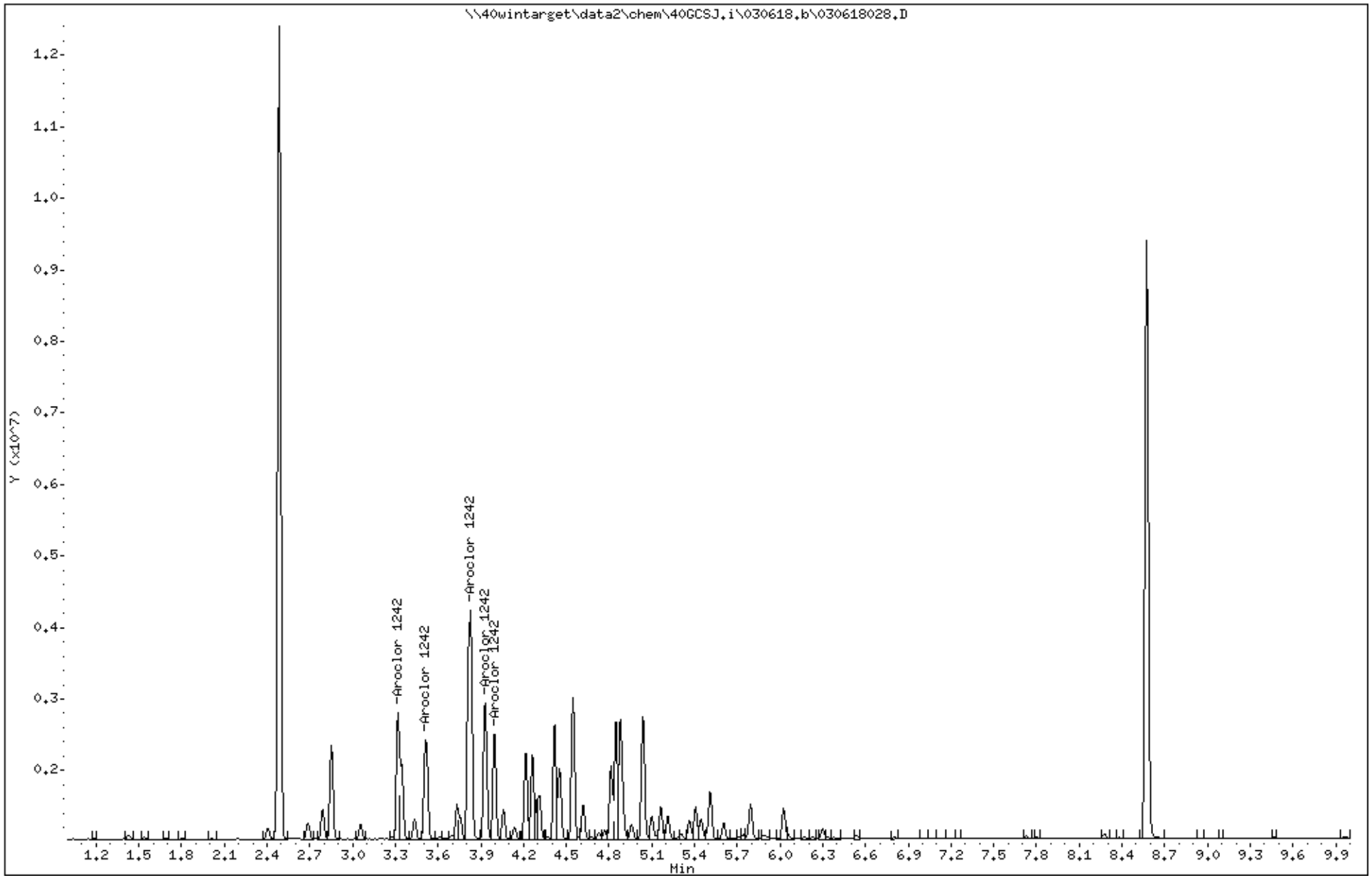
Instrument: 40GCSJ.i

Sample Info: 1242-CAL4B, 185545:1

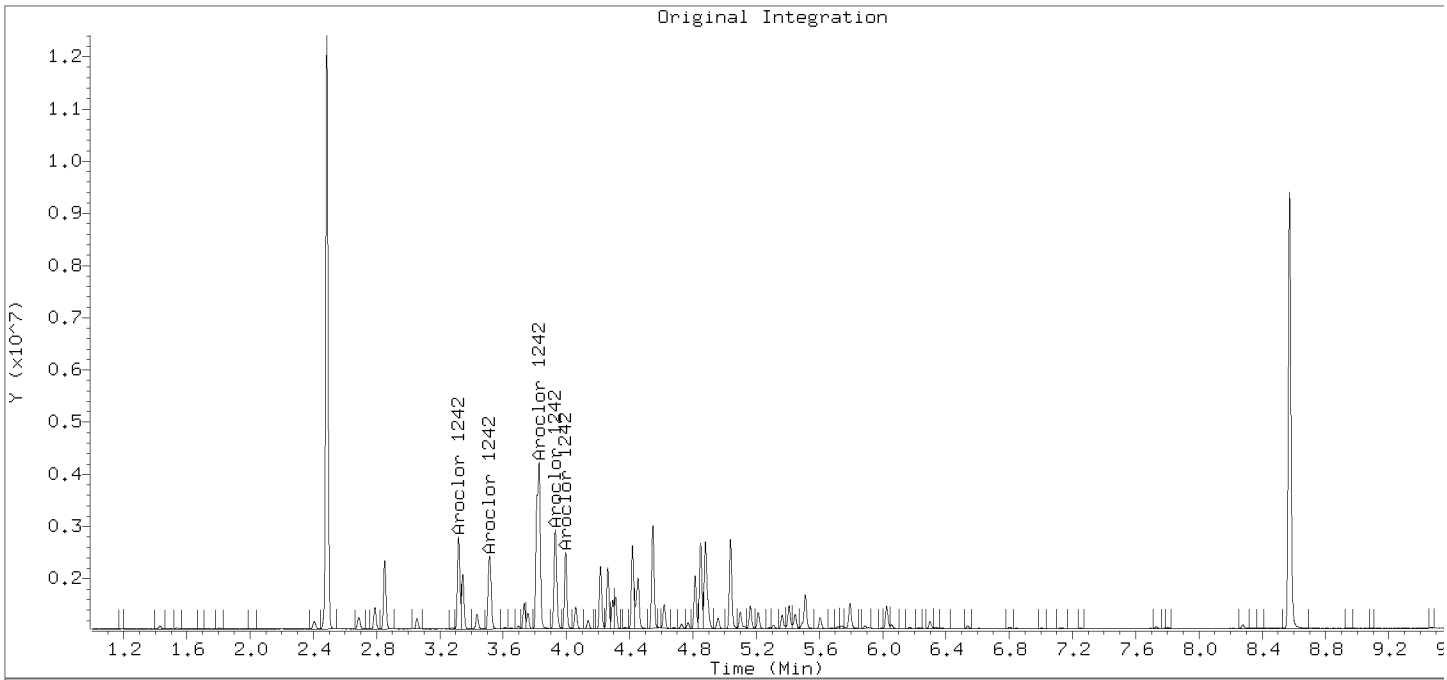
Operator: BLM

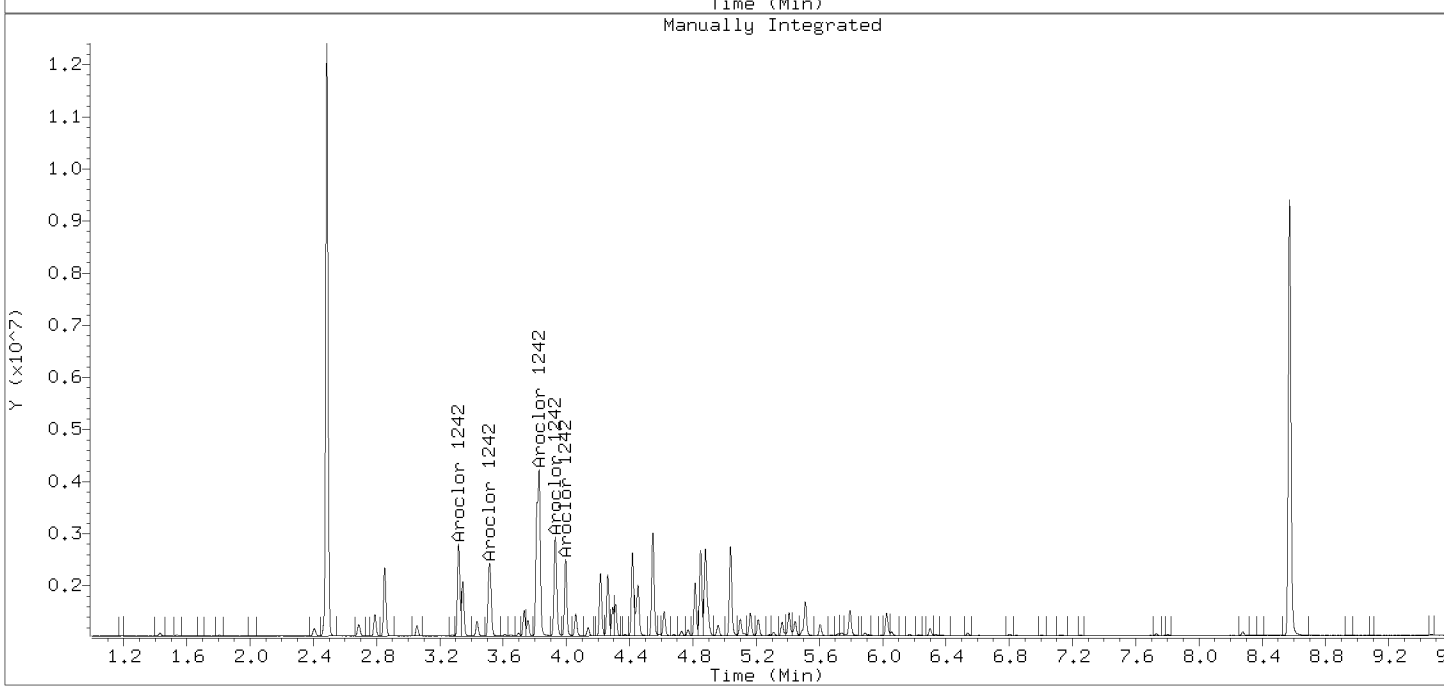
Column phase: ZB-1ms

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

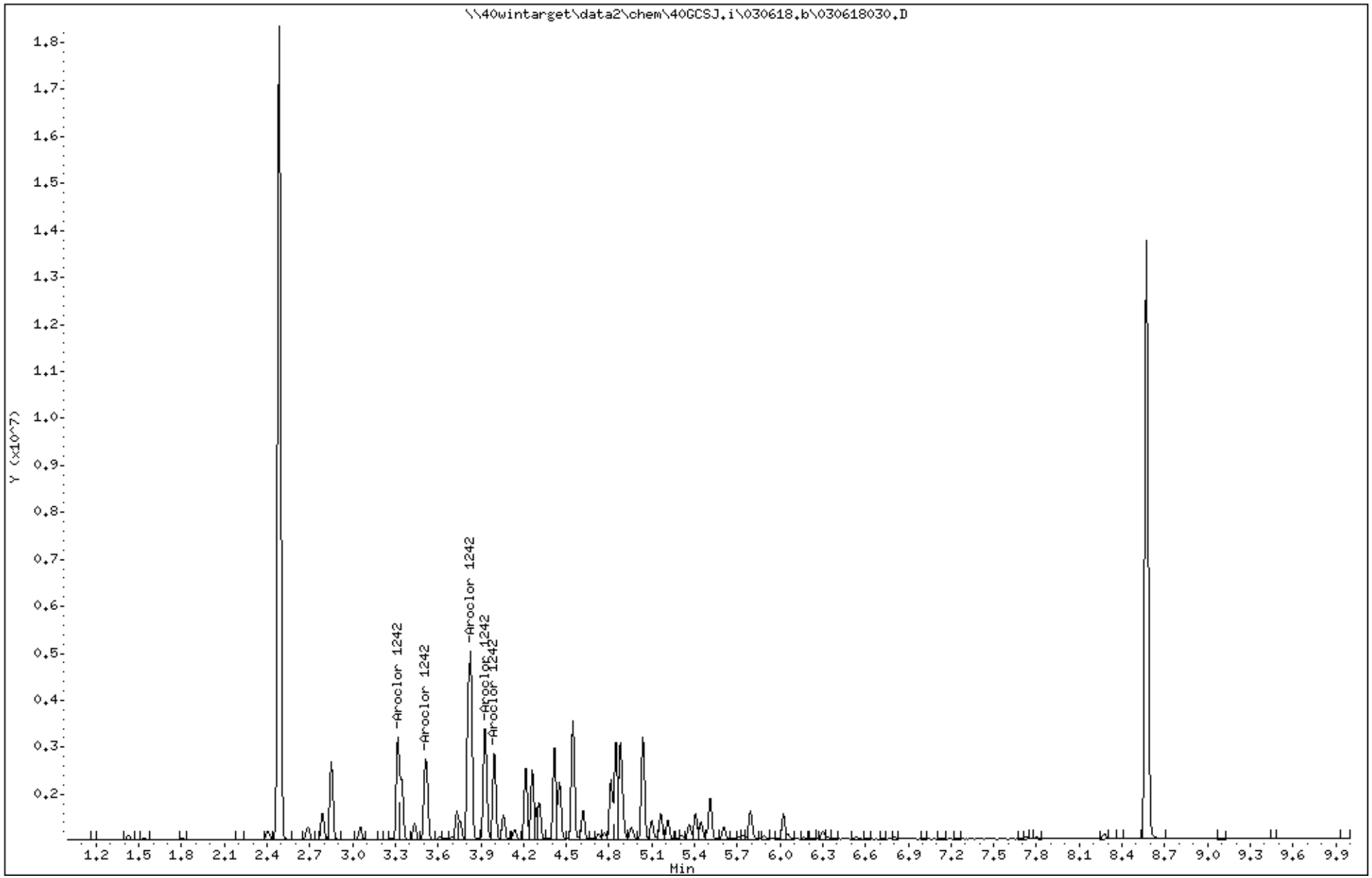
M - Compound response manually integrated.

Review Codes Legend

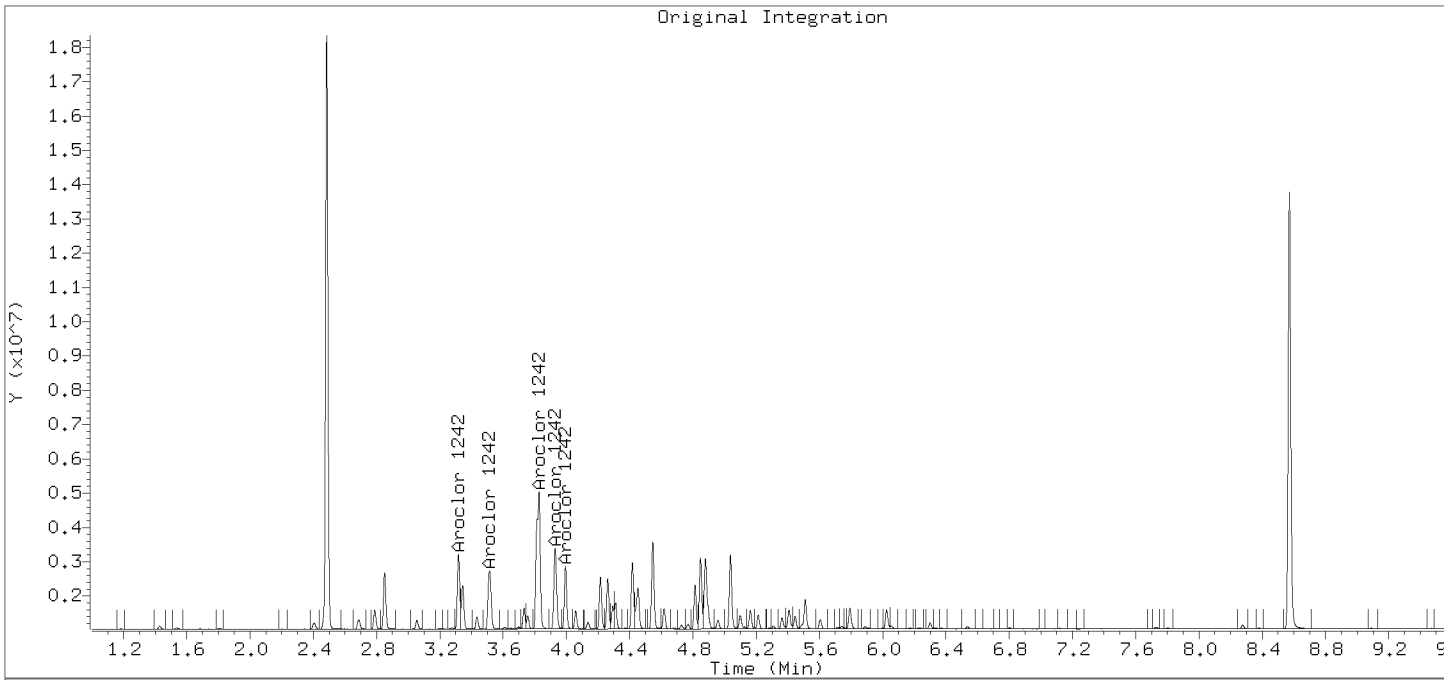
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

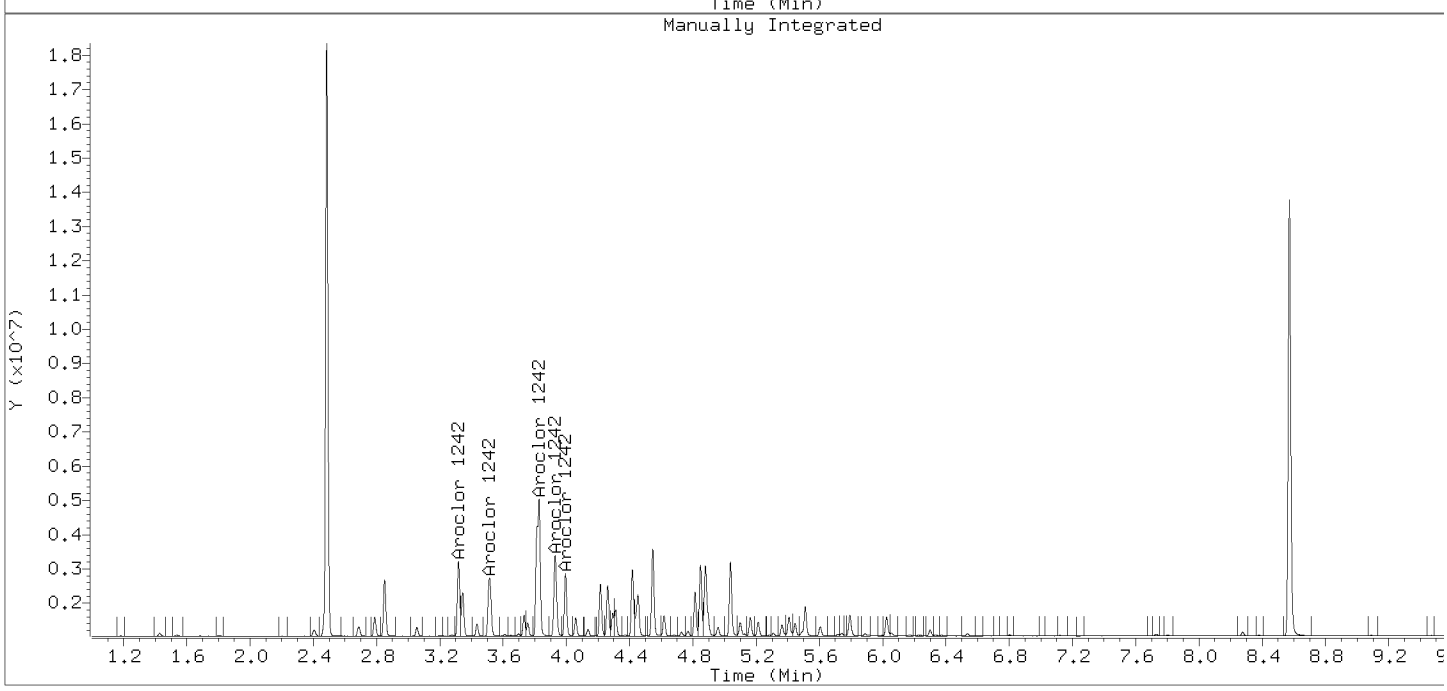
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618030.D
Date : 06-MAR-2018 14:48
Client ID: 1242-CAL5B
Sample Info: 1242-CAL5B, 185546:1

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

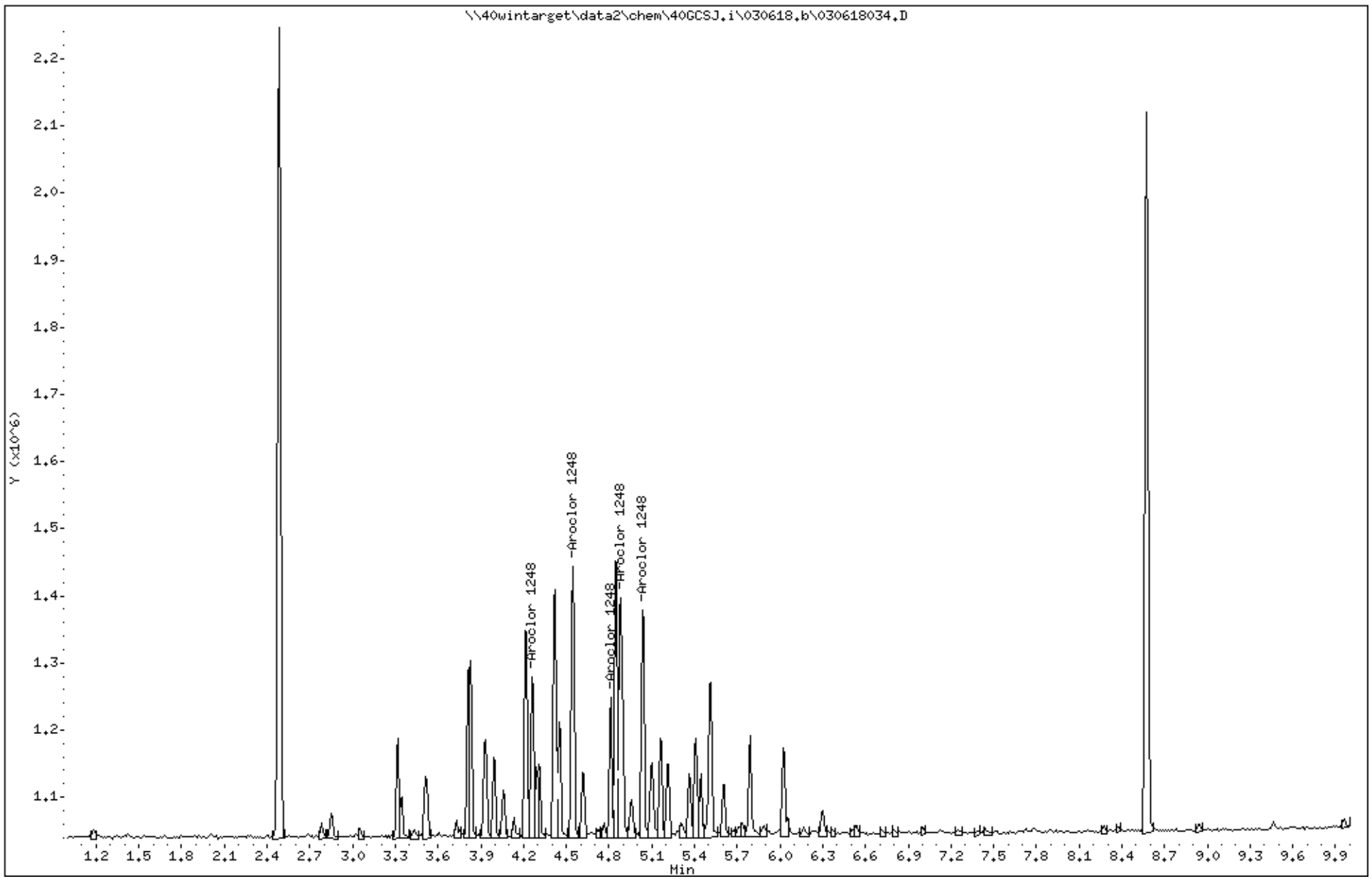
M - Compound response manually integrated.

Review Codes Legend

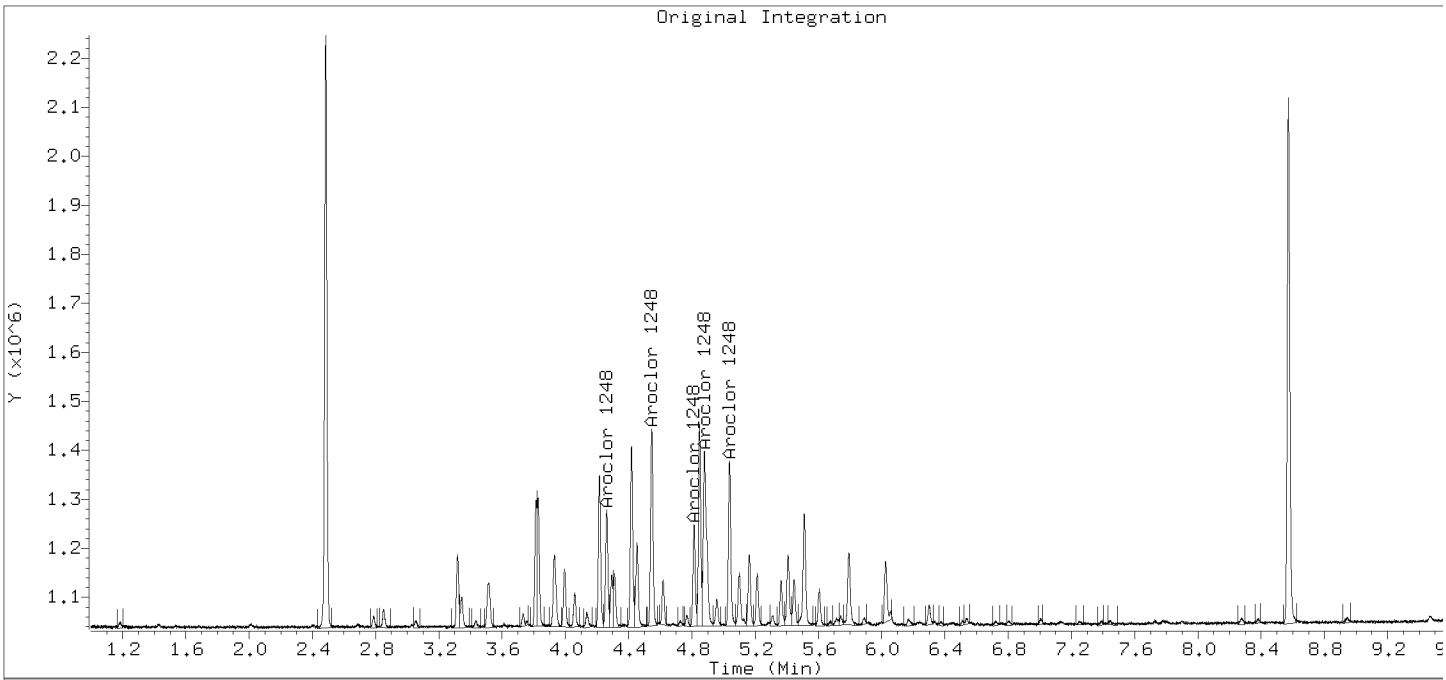
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

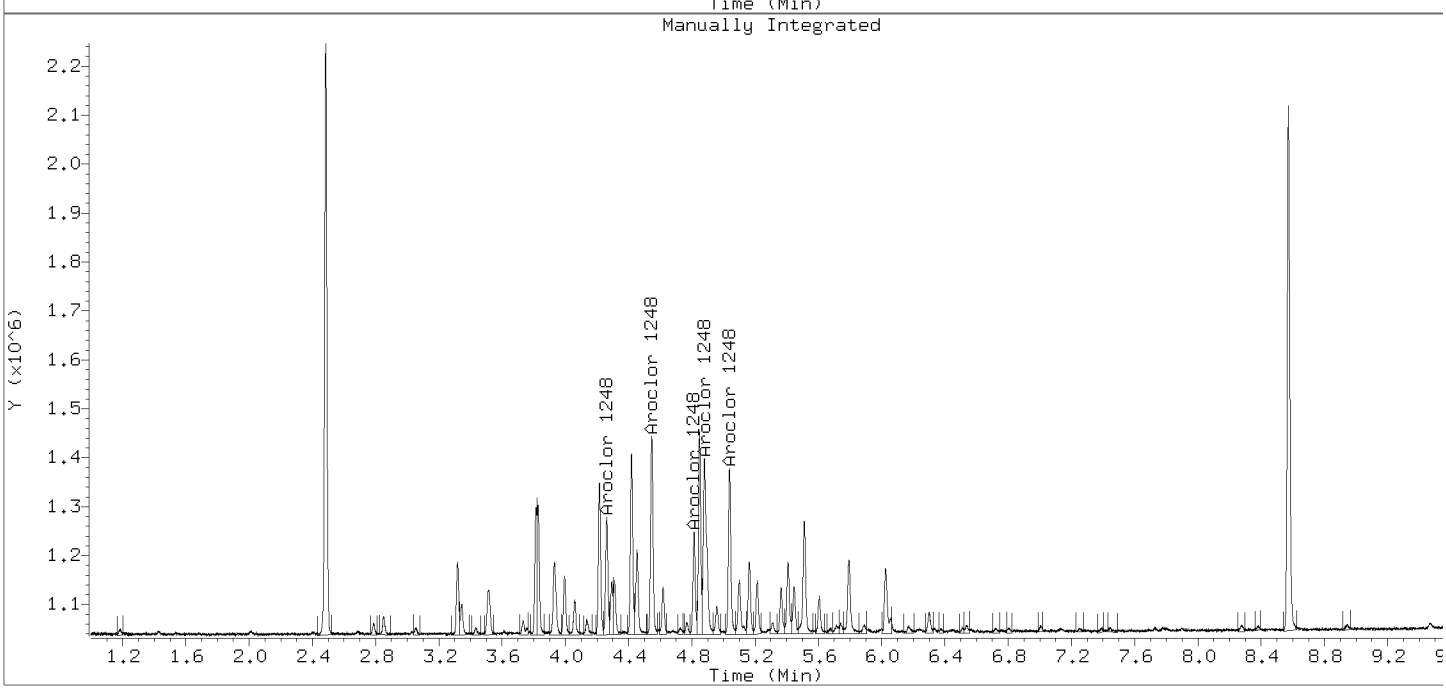
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618034.D
Date : 06-MAR-2018 15:21
Client ID: 1248-CAL1D
Sample Info: 1248-CAL1D, 188134:1

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

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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

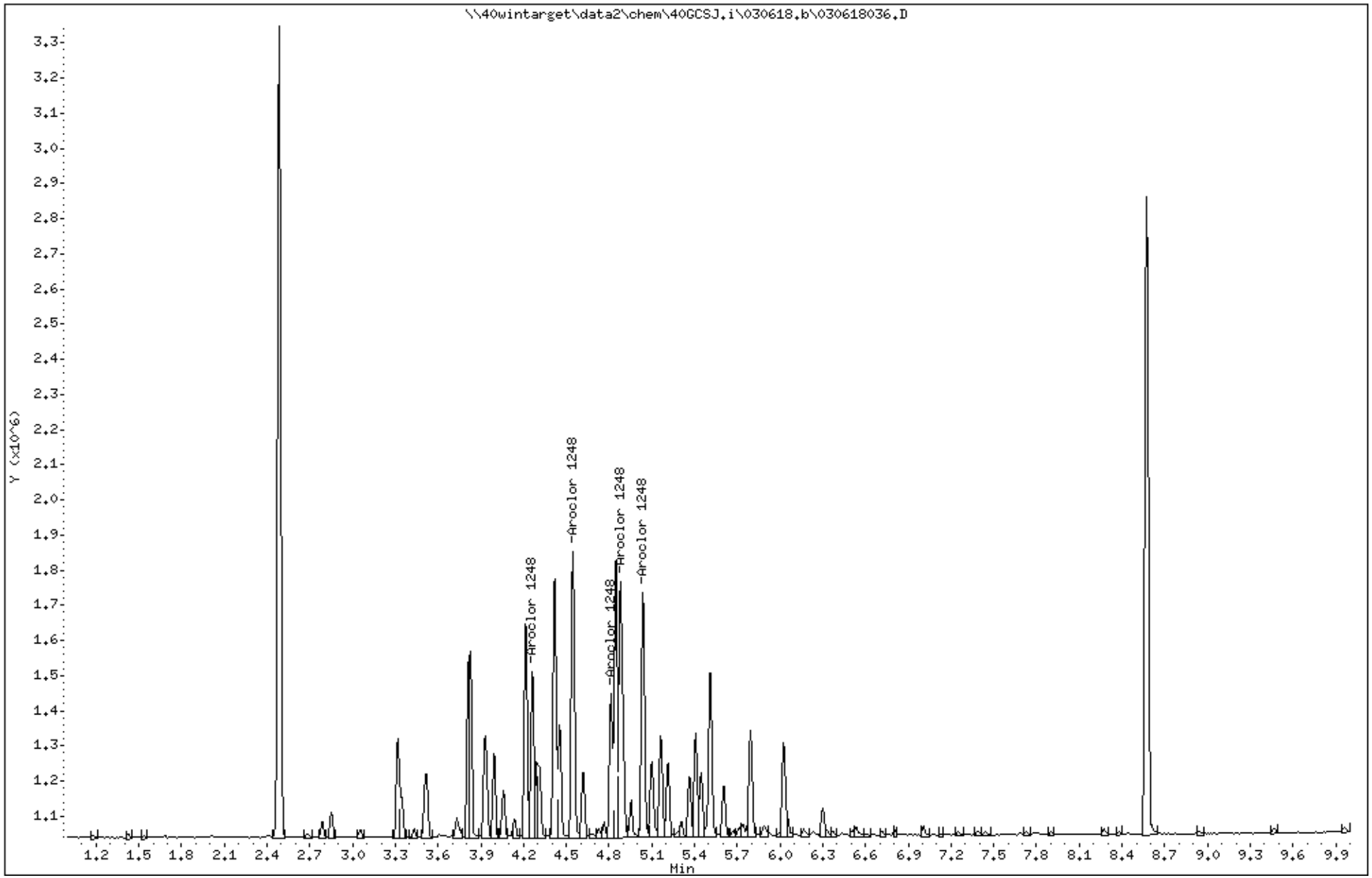
Instrument: 40GCSJ.i

Sample Info: 1248-CAL2D, 185548:1

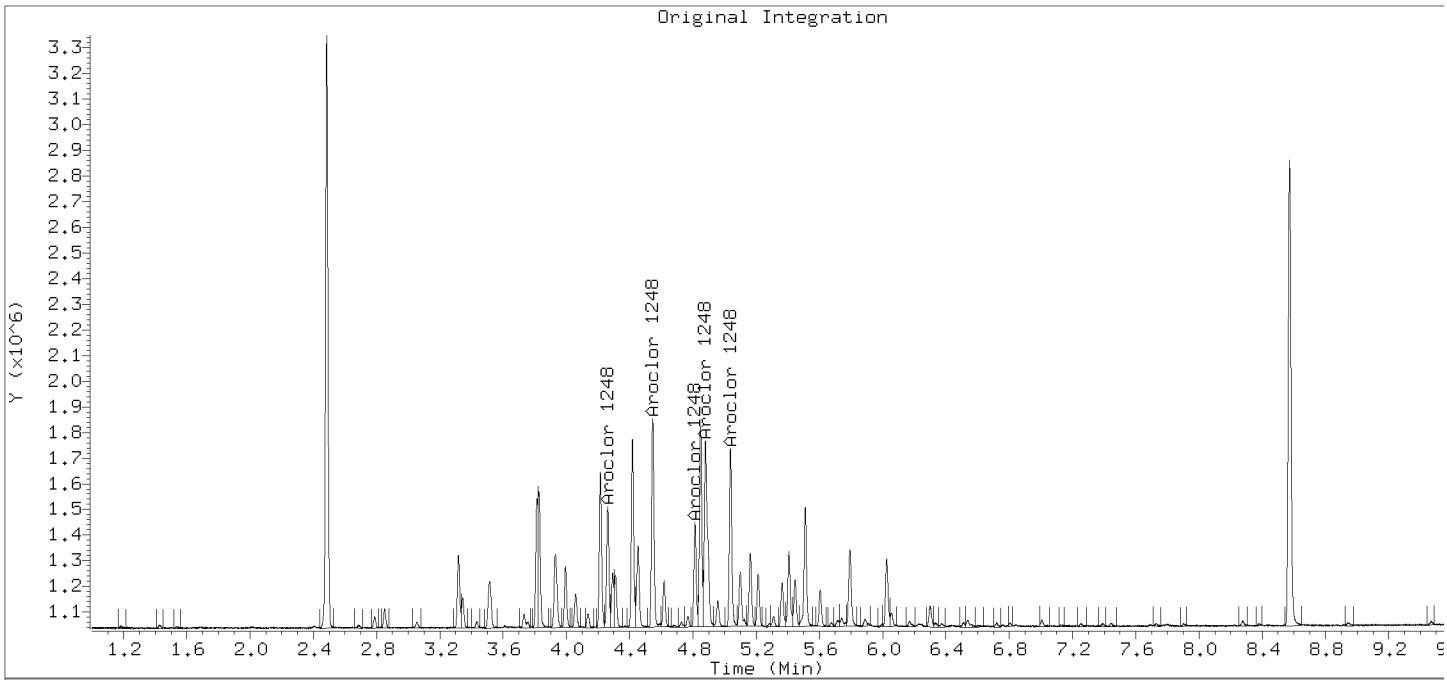
Operator: BLM

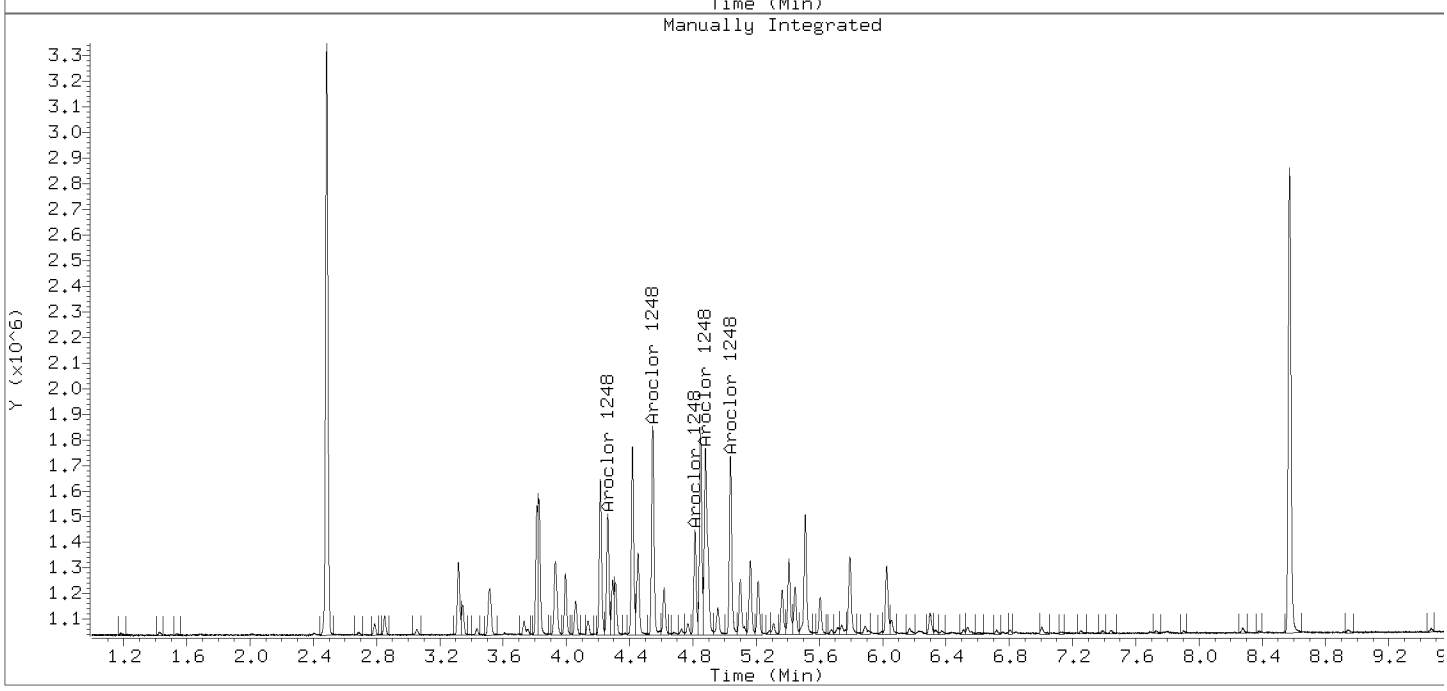
Column phase: ZB-1ms

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

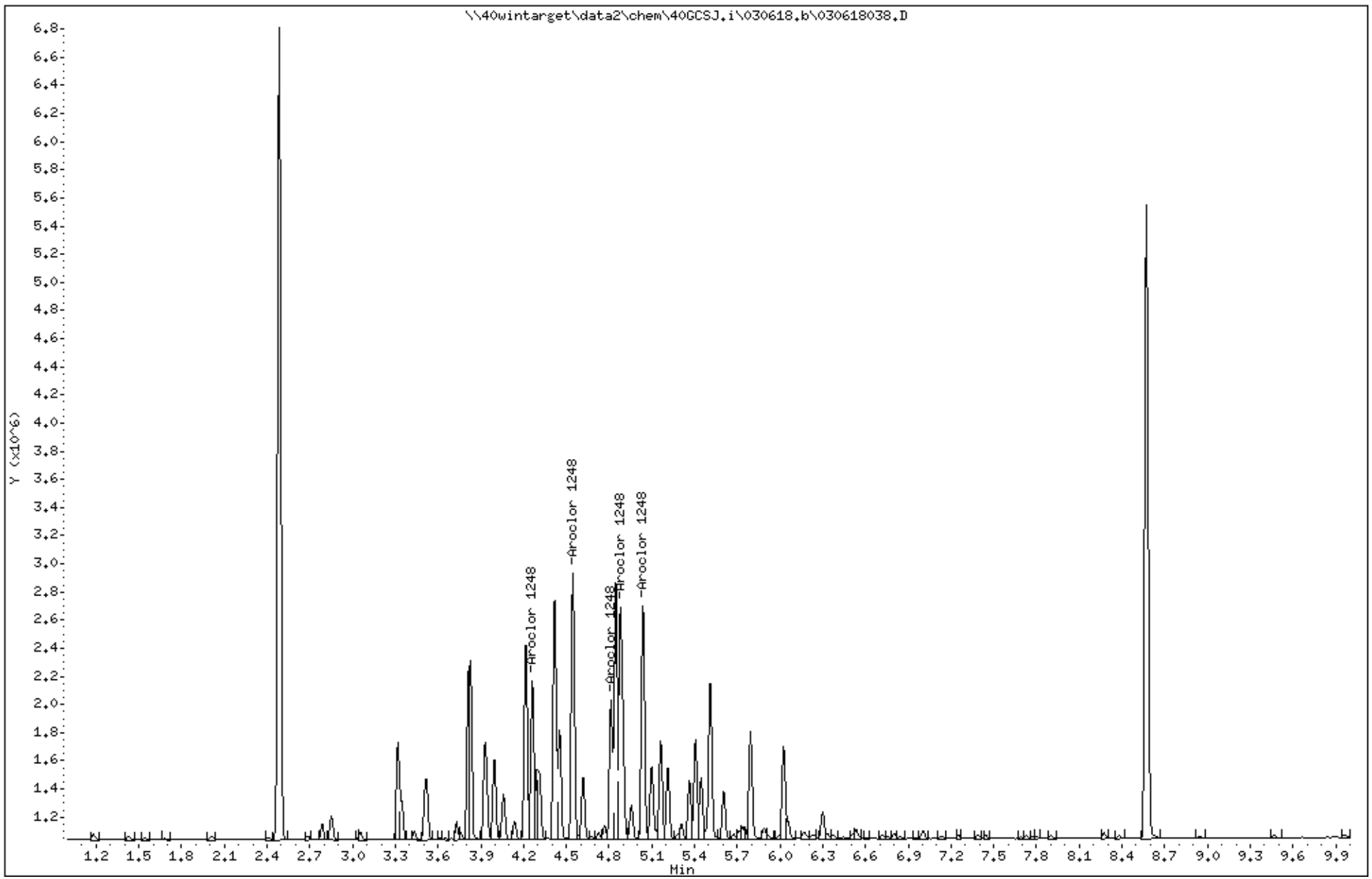
Instrument: 40GCSJ.i

Sample Info: 1248-CAL3D, 185549:1

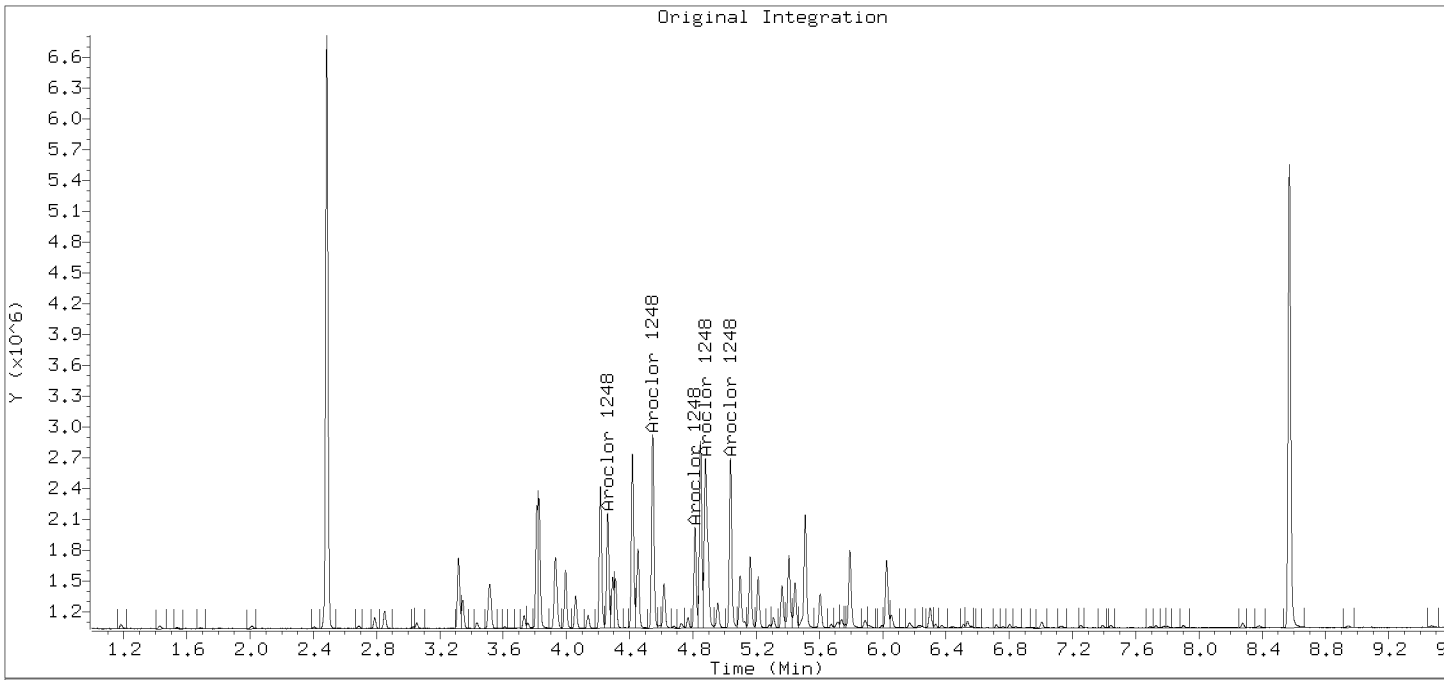
Operator: BLM

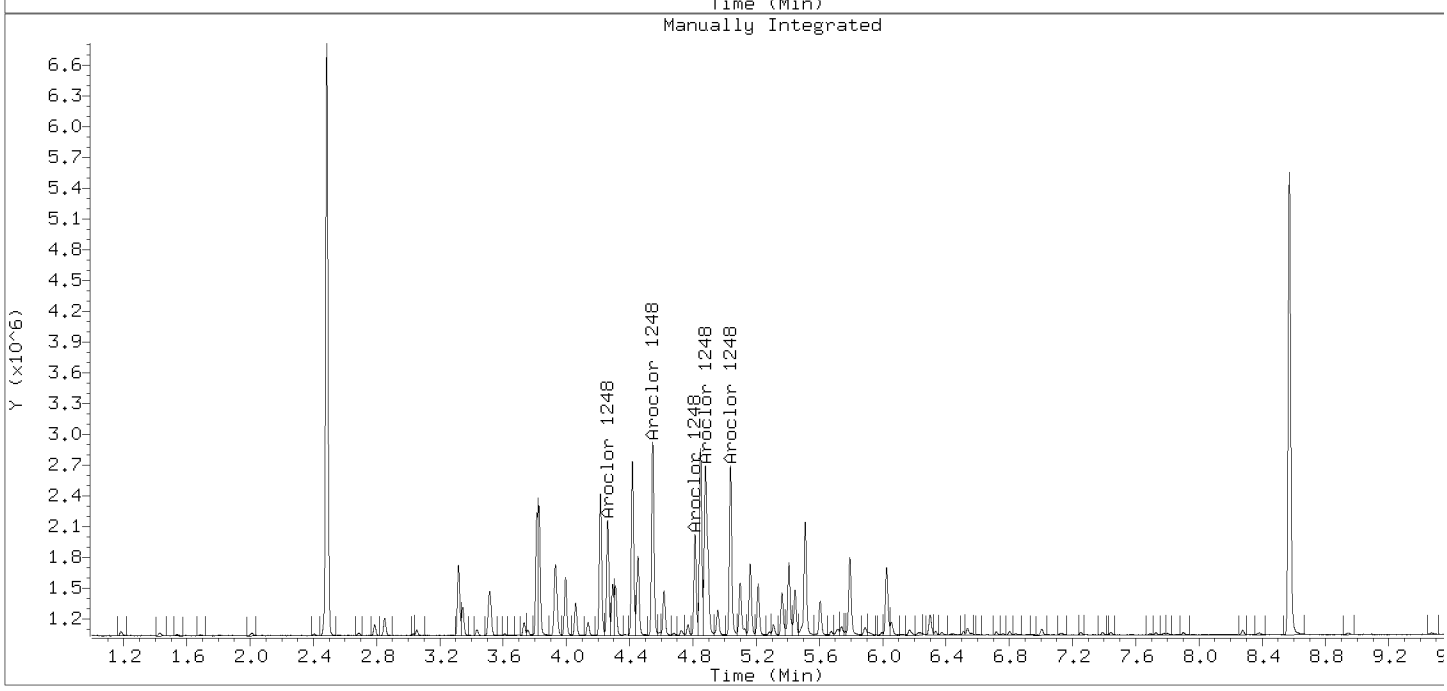
Column phase: ZB-1ms

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

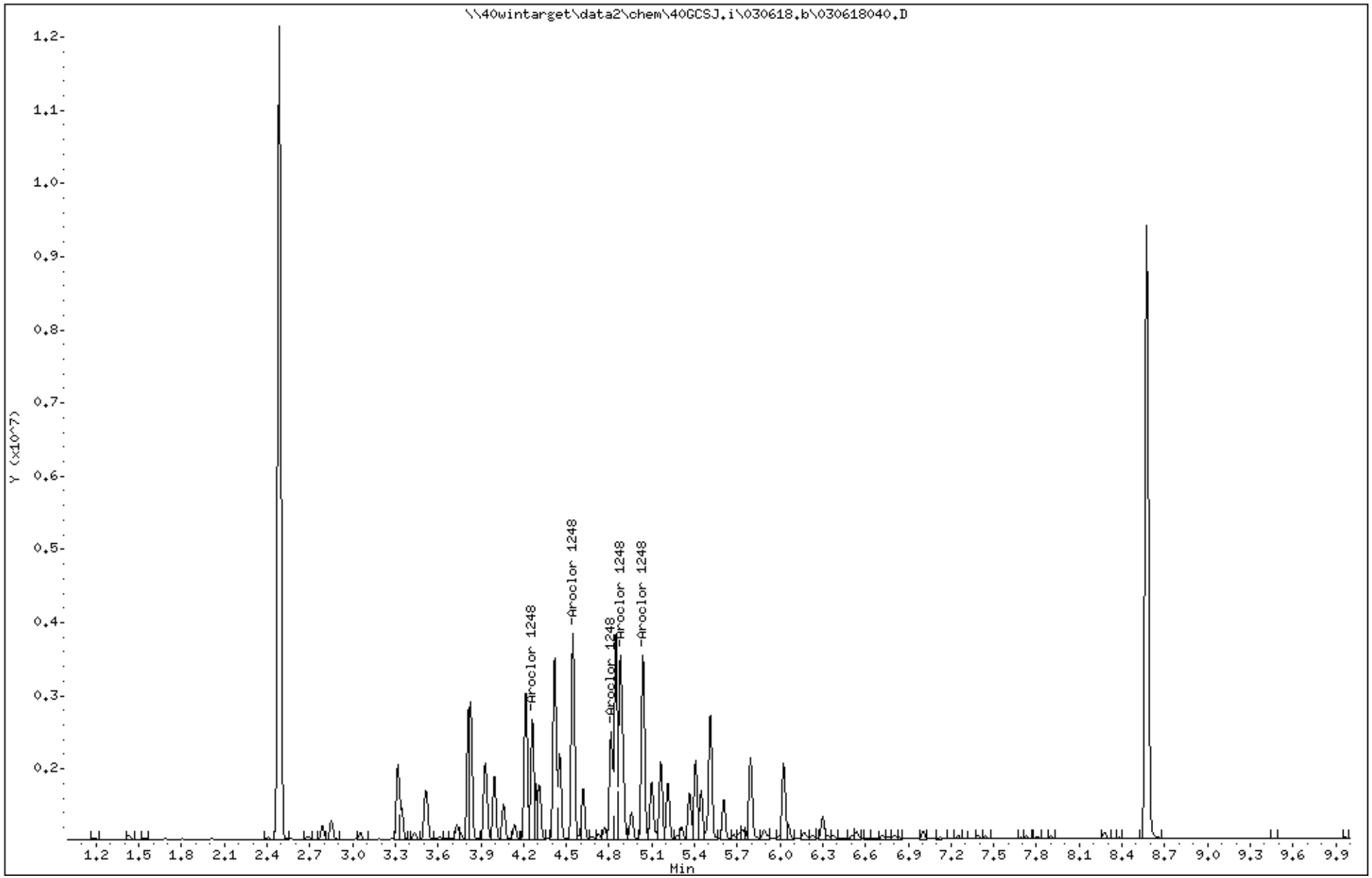
Instrument: 40GCSJ.i

Sample Info: 1248-CAL4D, 185550:1

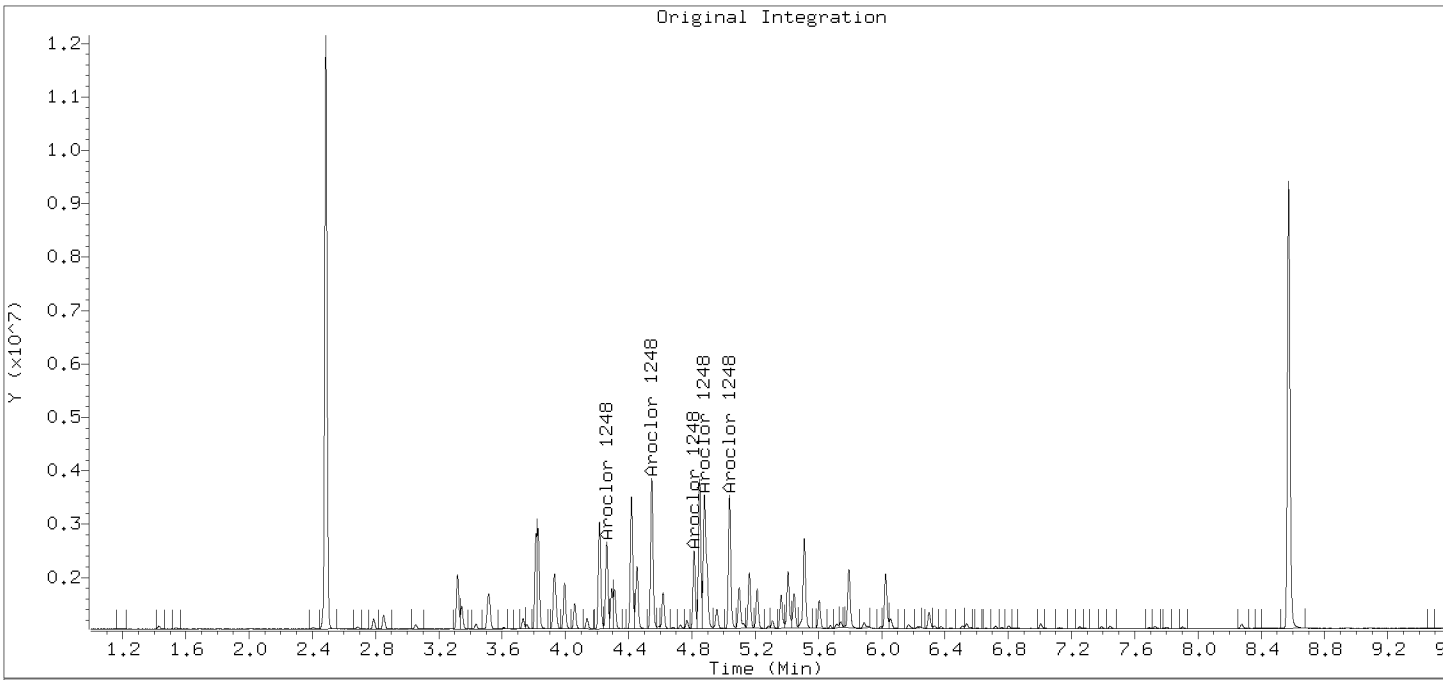
Operator: BLM

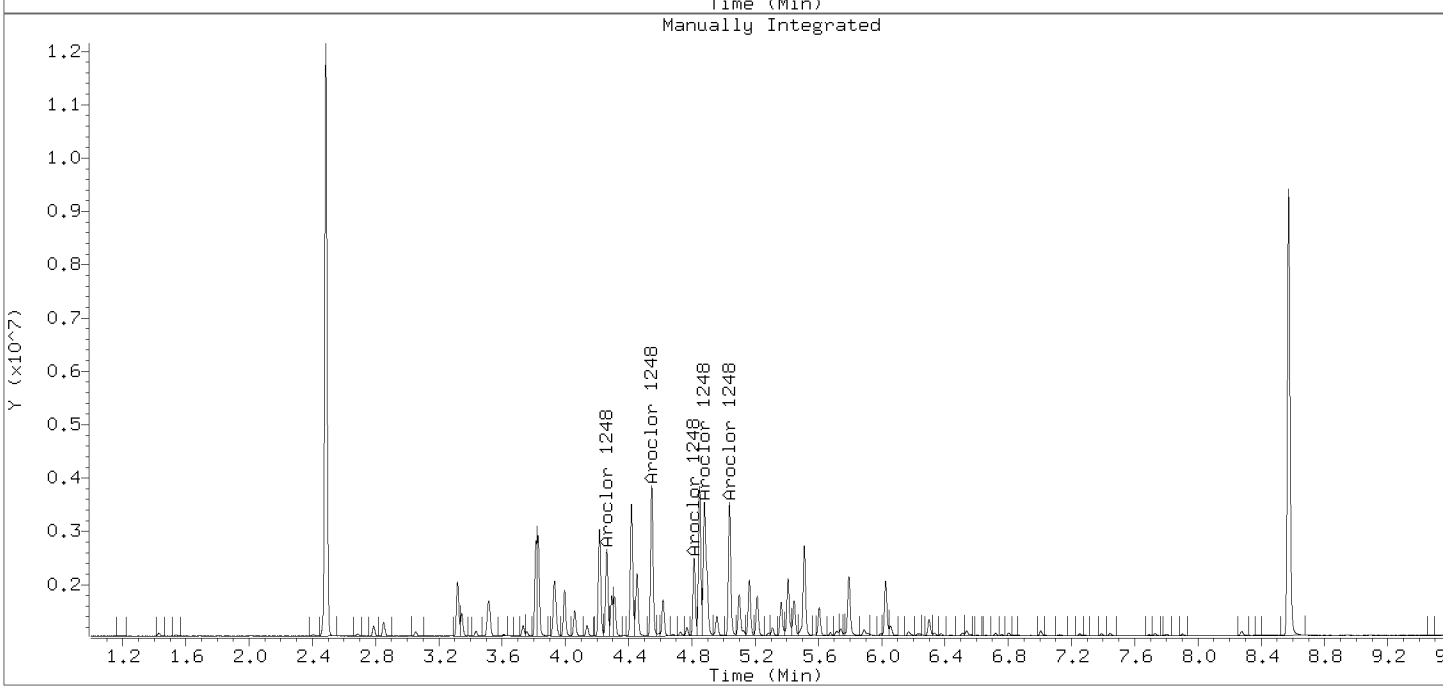
Column phase: ZB-1ms

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

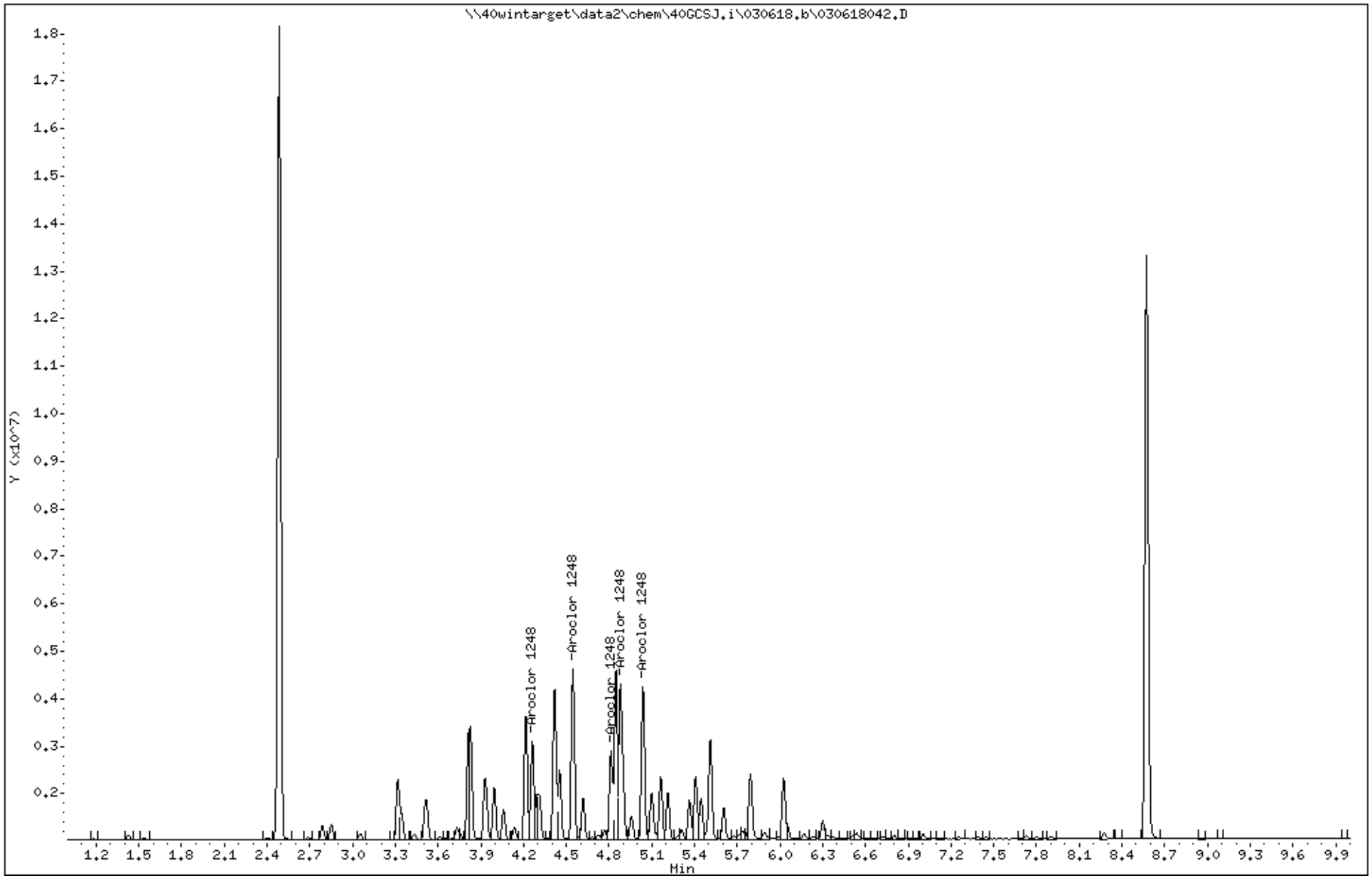
Instrument: 40GCSJ.i

Sample Info: 1248-CAL5D, 185551:1

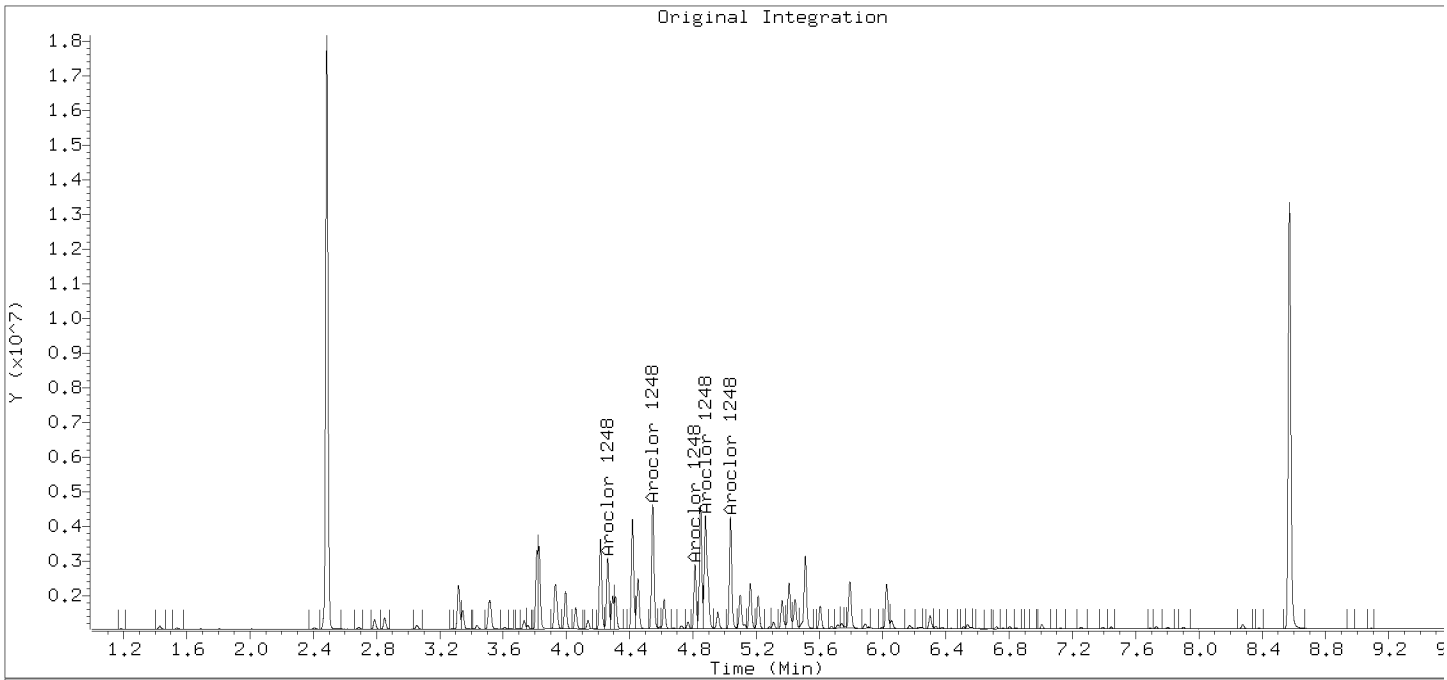
Operator: BLM

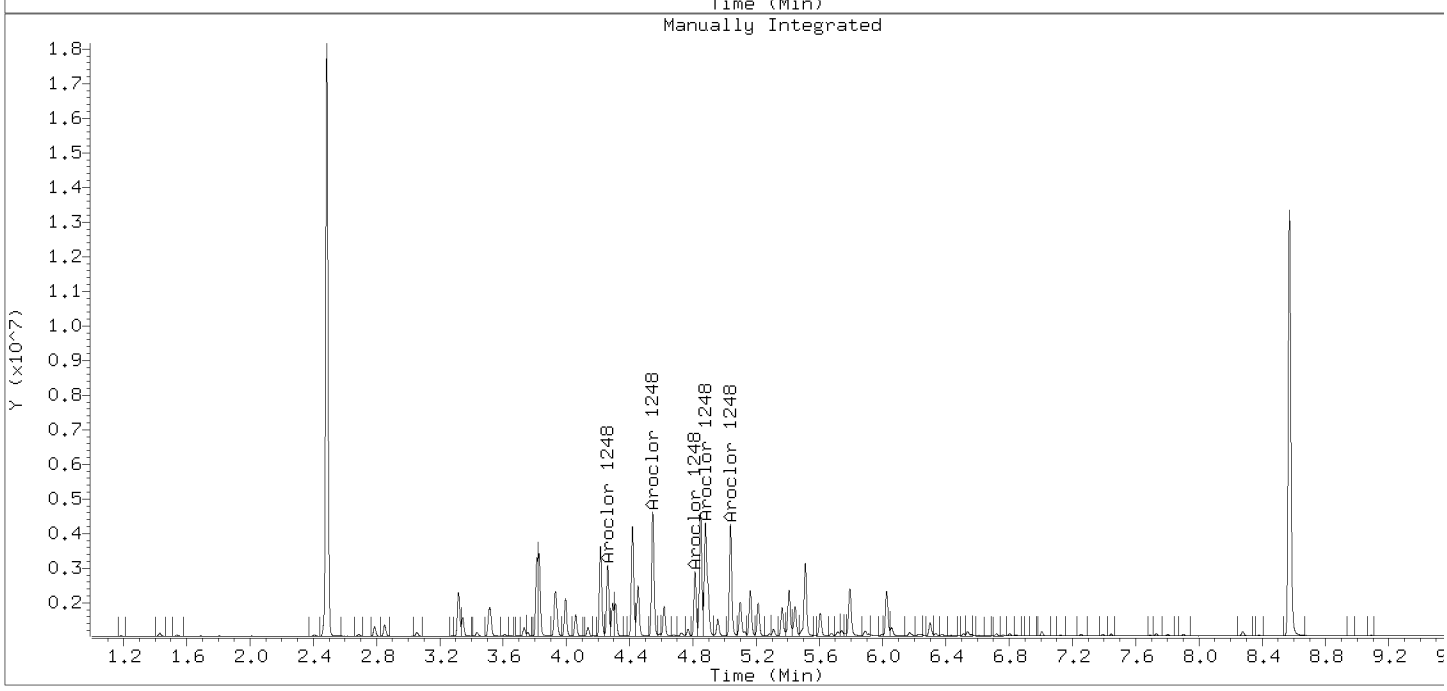
Column phase: ZB-1ms

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

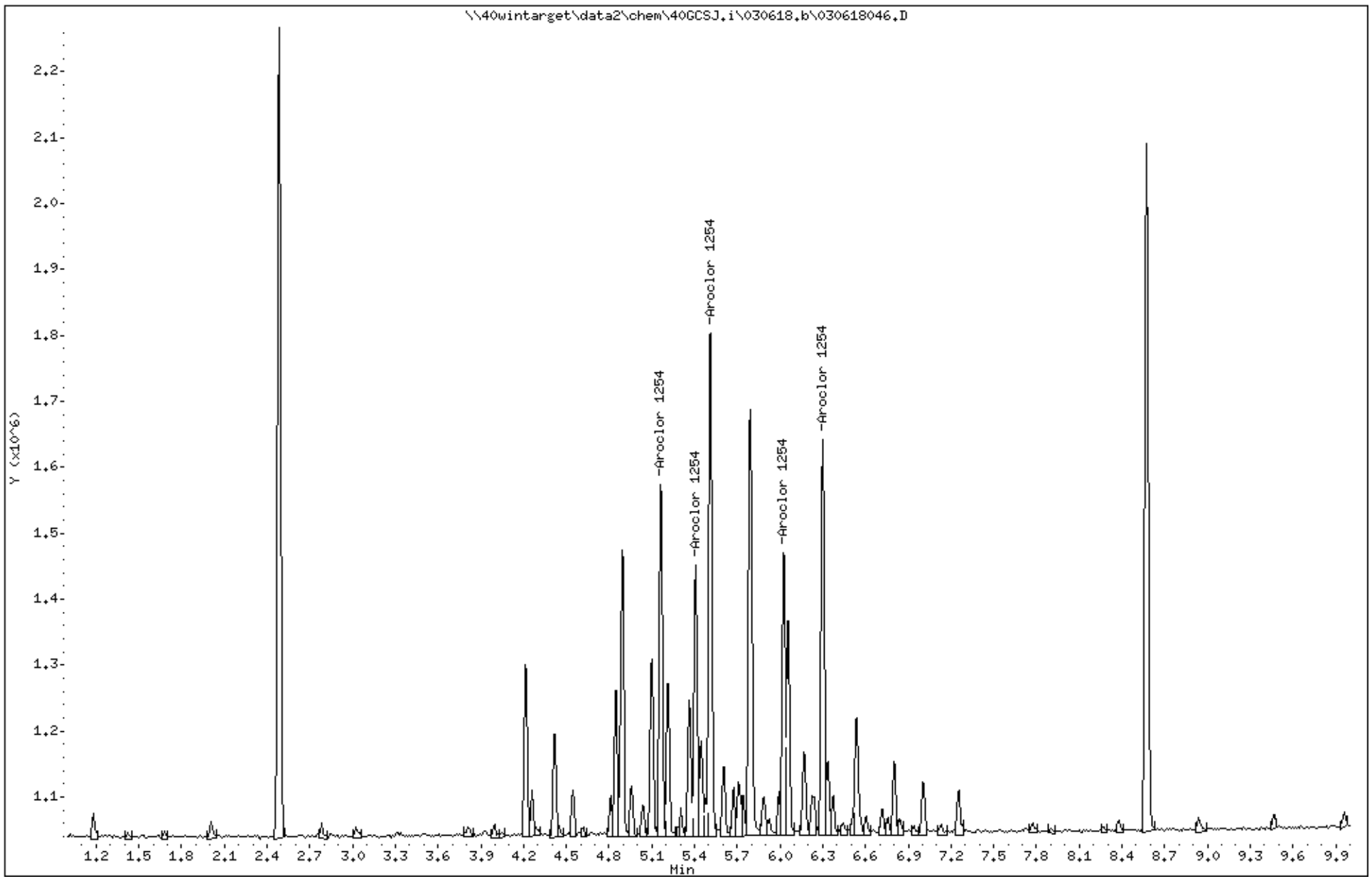
Instrument: 40GCSJ.i

Sample Info: 1254-CAL1C, 188135:1

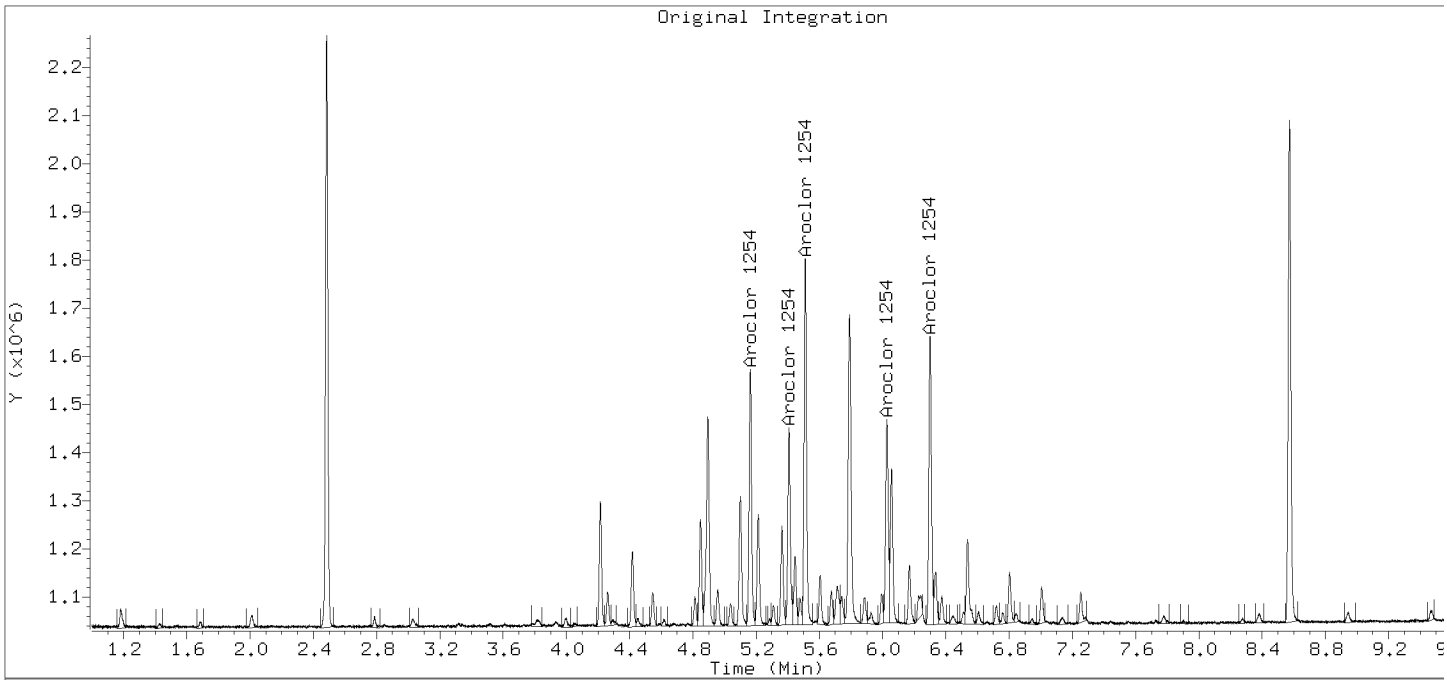
Operator: BLM

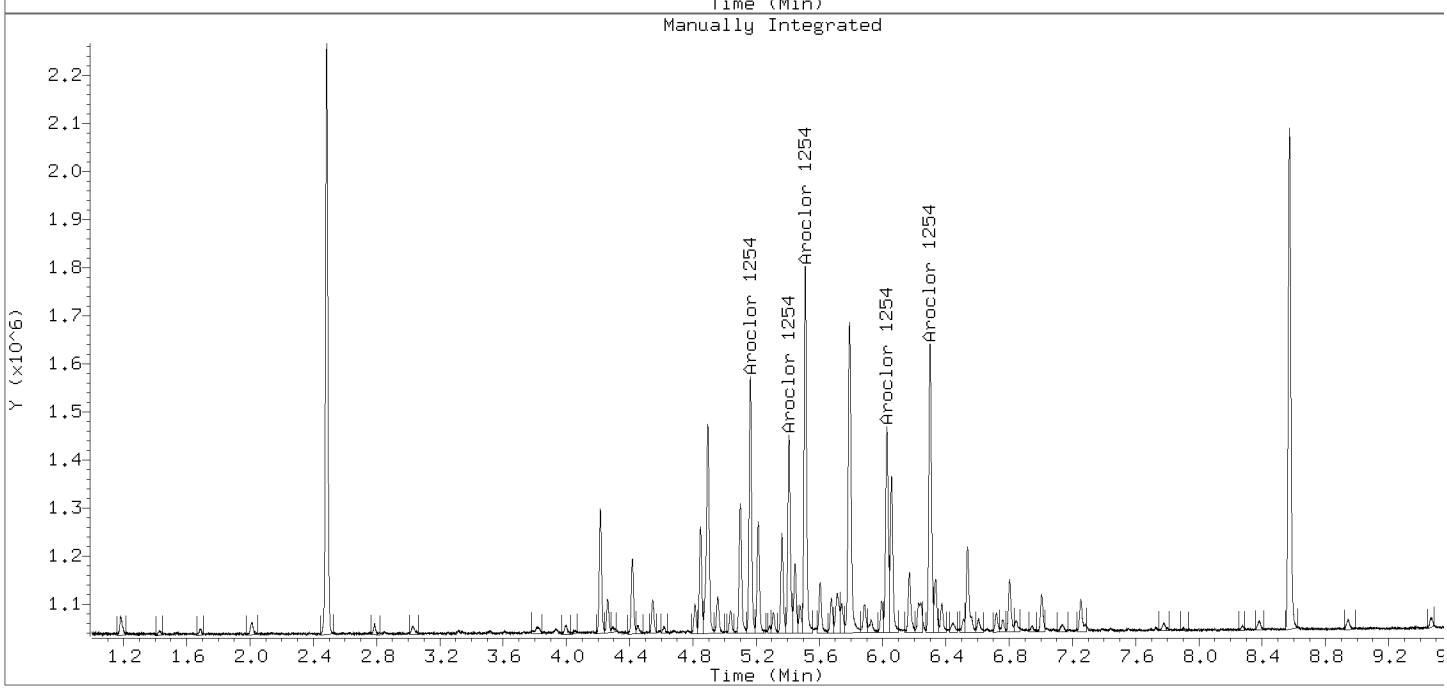
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 73

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618048.D

Date : 06-MAR-2018 17:13

Client ID: 1254-CAL2C

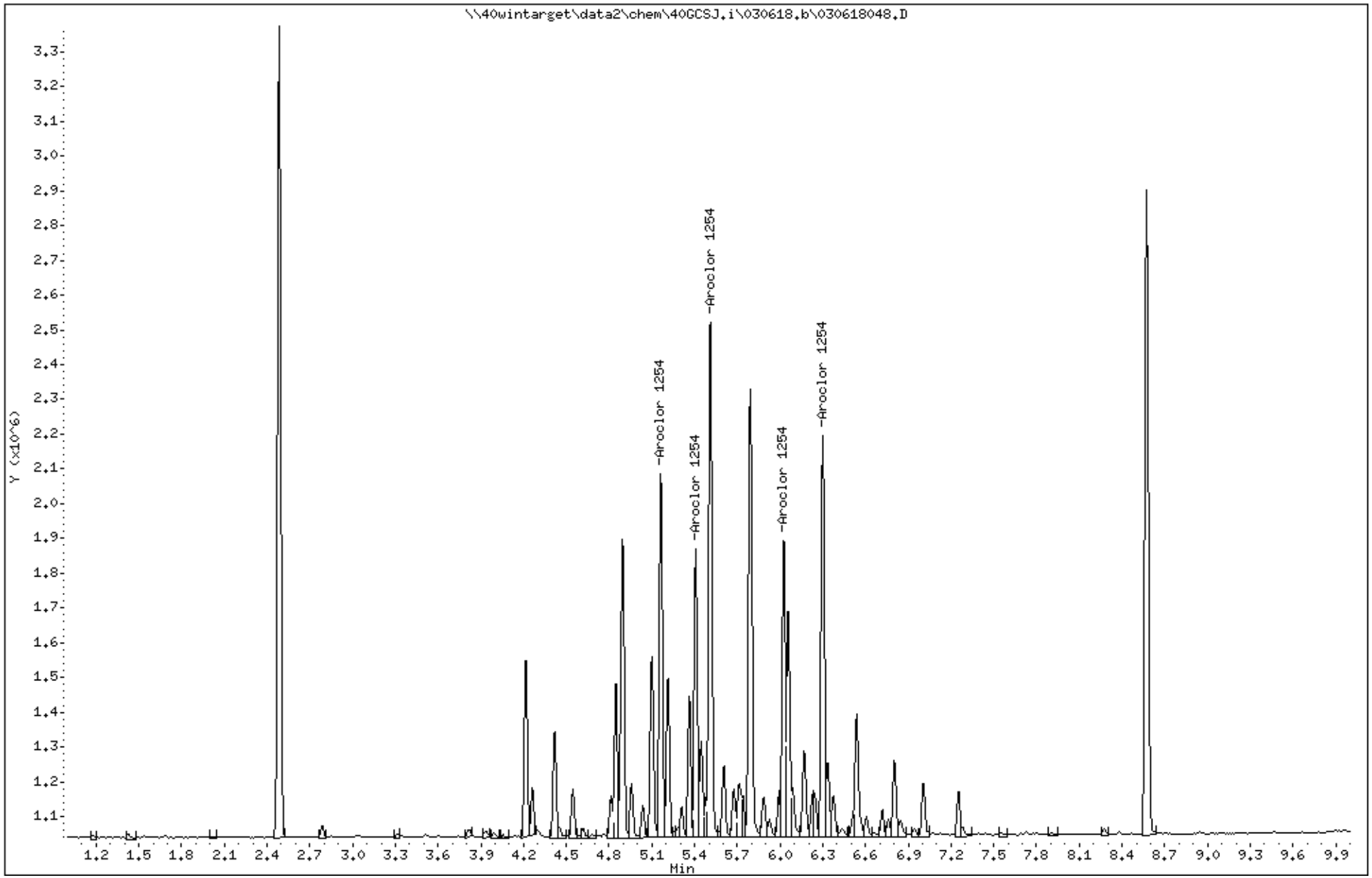
Instrument: 40GCSJ.i

Sample Info: 1254-CAL2C, 185553:1

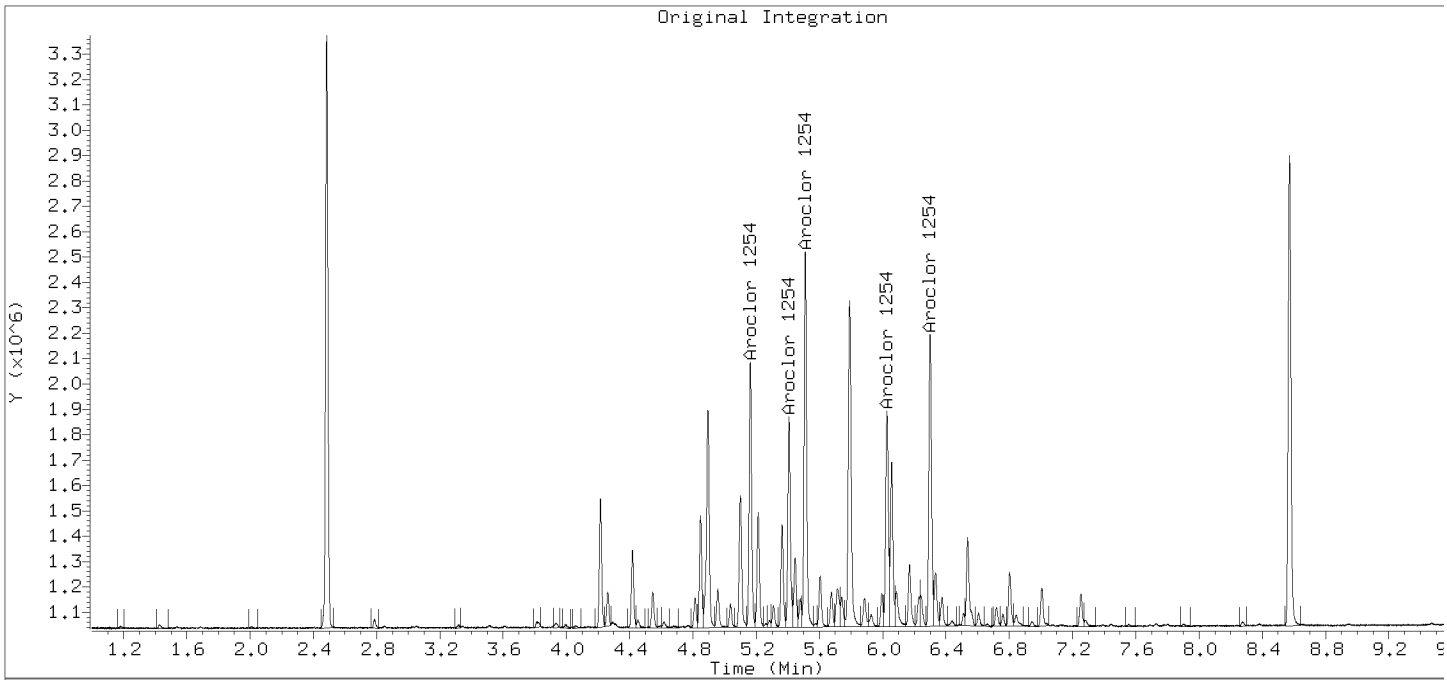
Operator: BLM

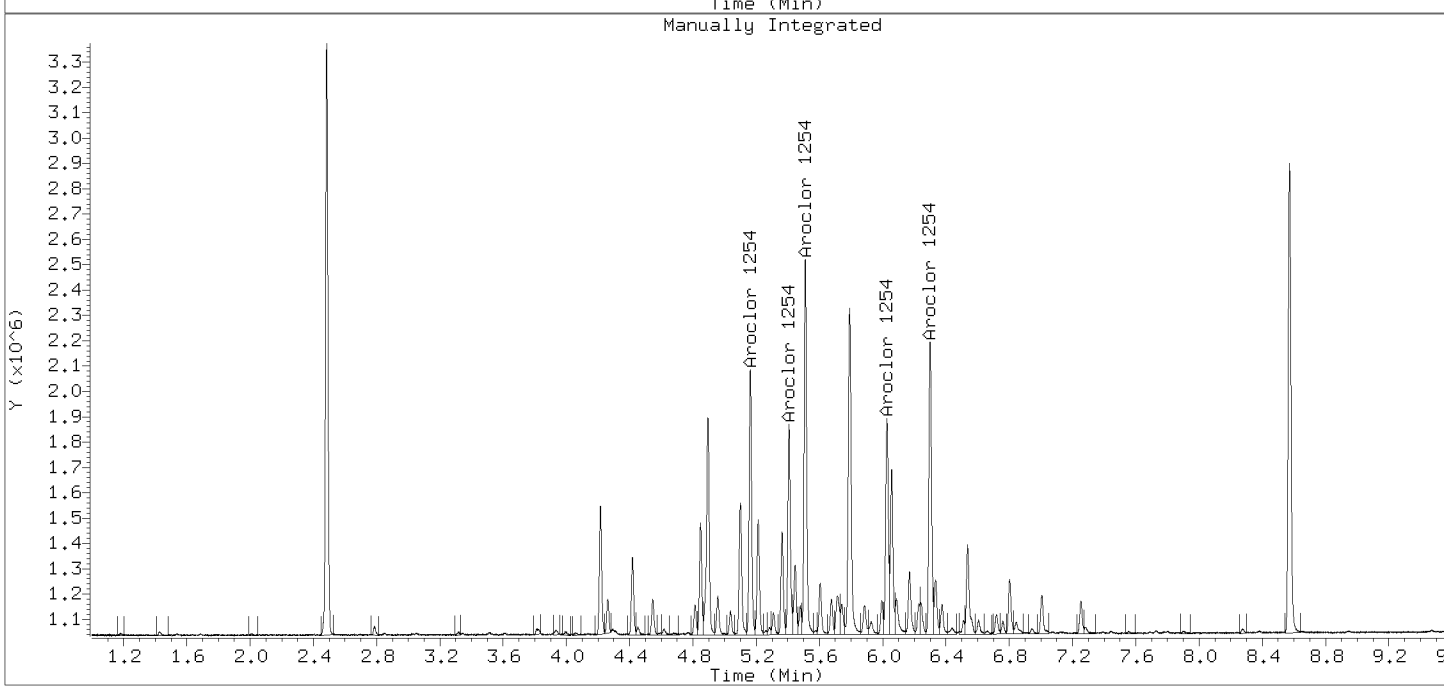
Column phase: ZB-1ms

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

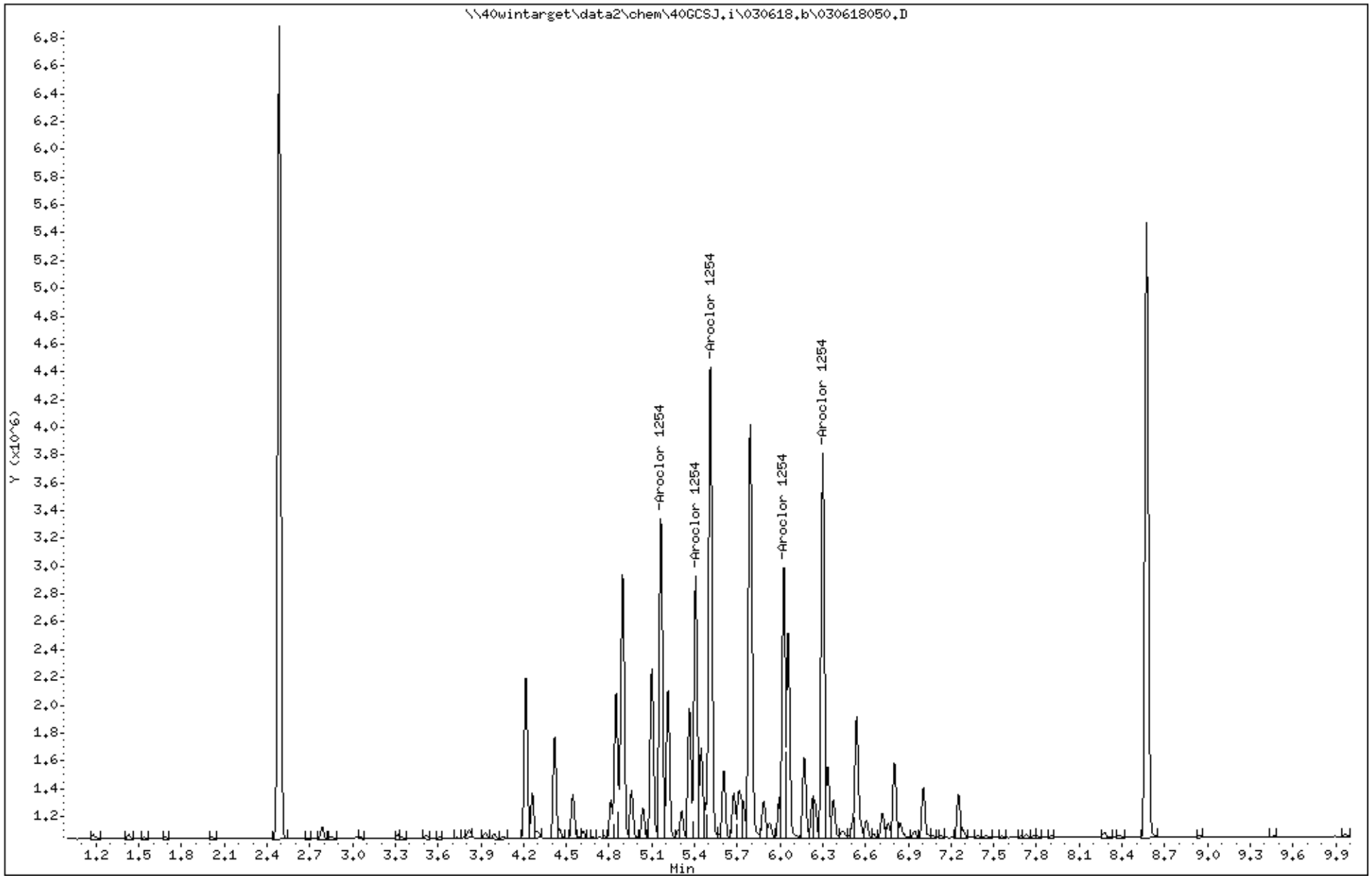
Instrument: 40GCSJ.i

Sample Info: 1254-CAL3C, 185554:1

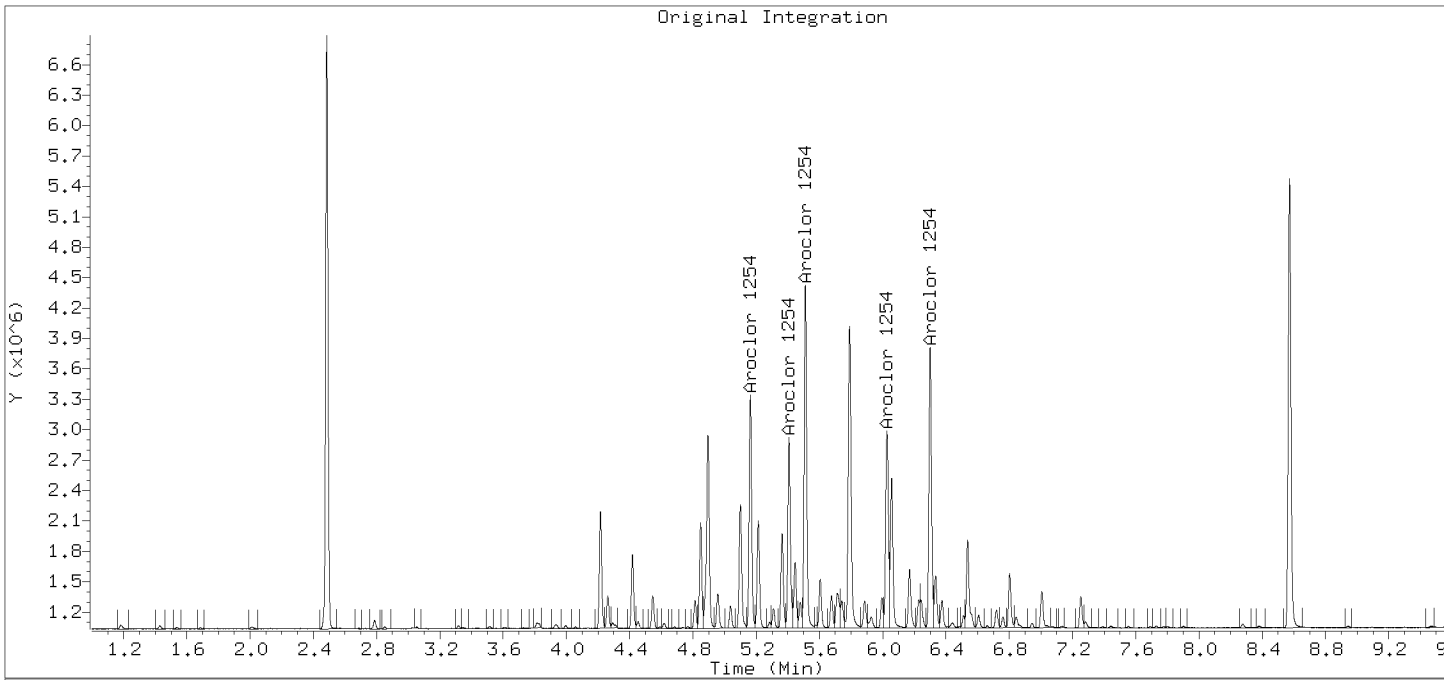
Operator: BLM

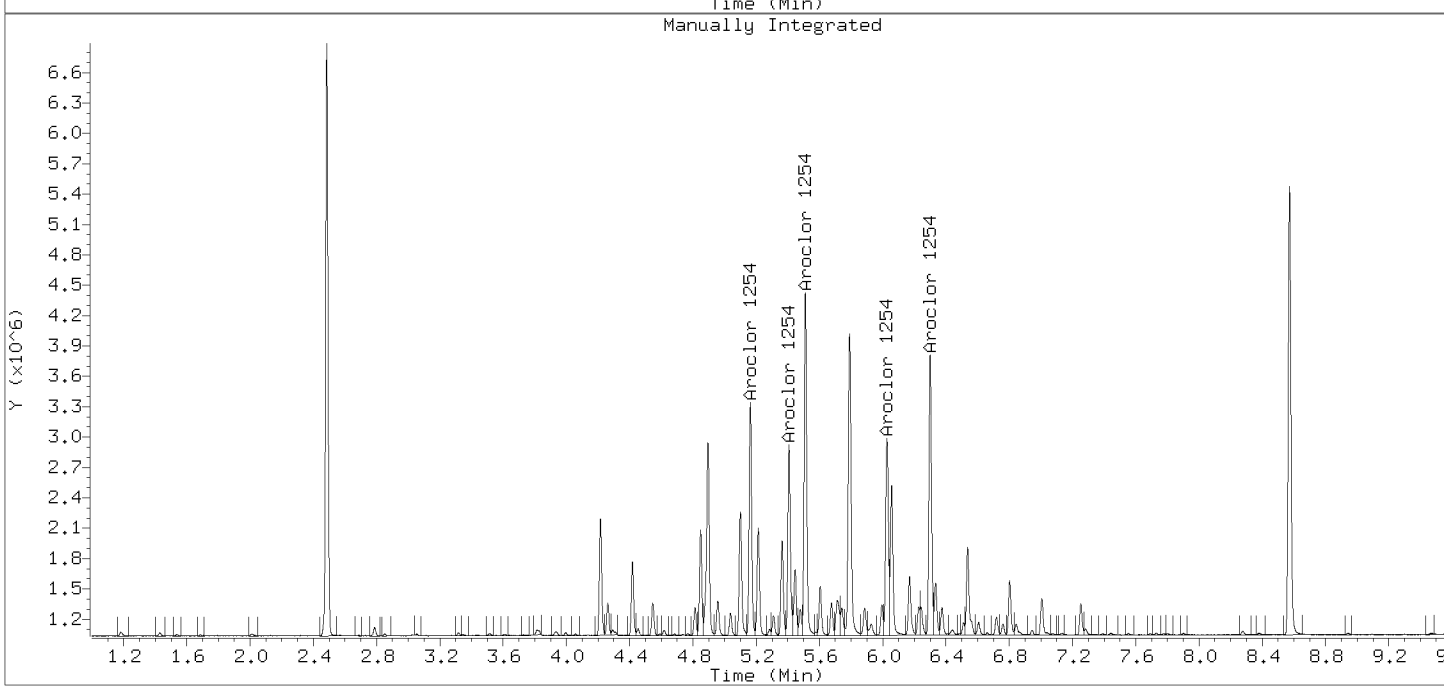
Column phase: ZB-1ms

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

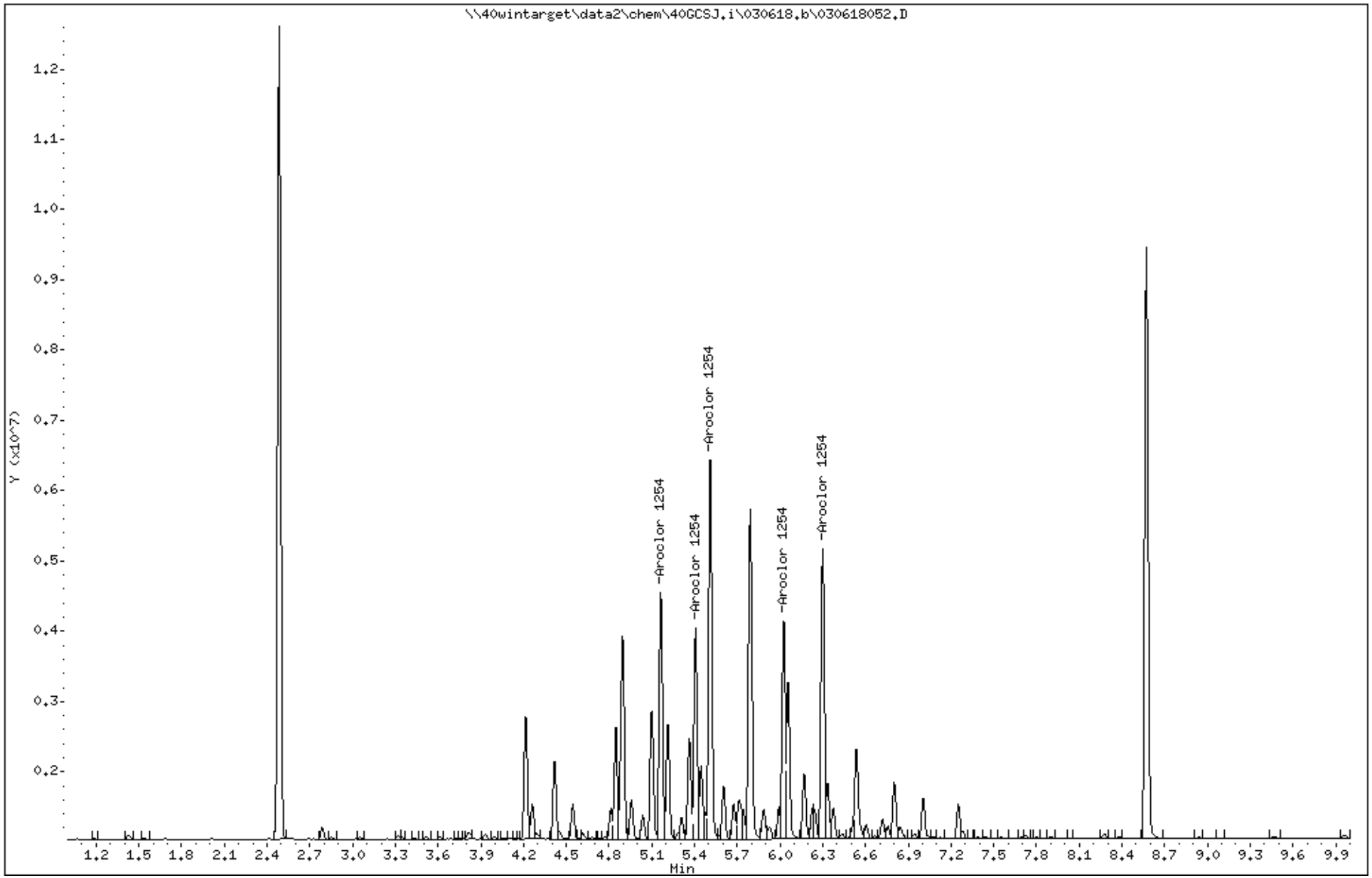
Instrument: 40GCSJ.i

Sample Info: 1254-CAL4C, 185555:1

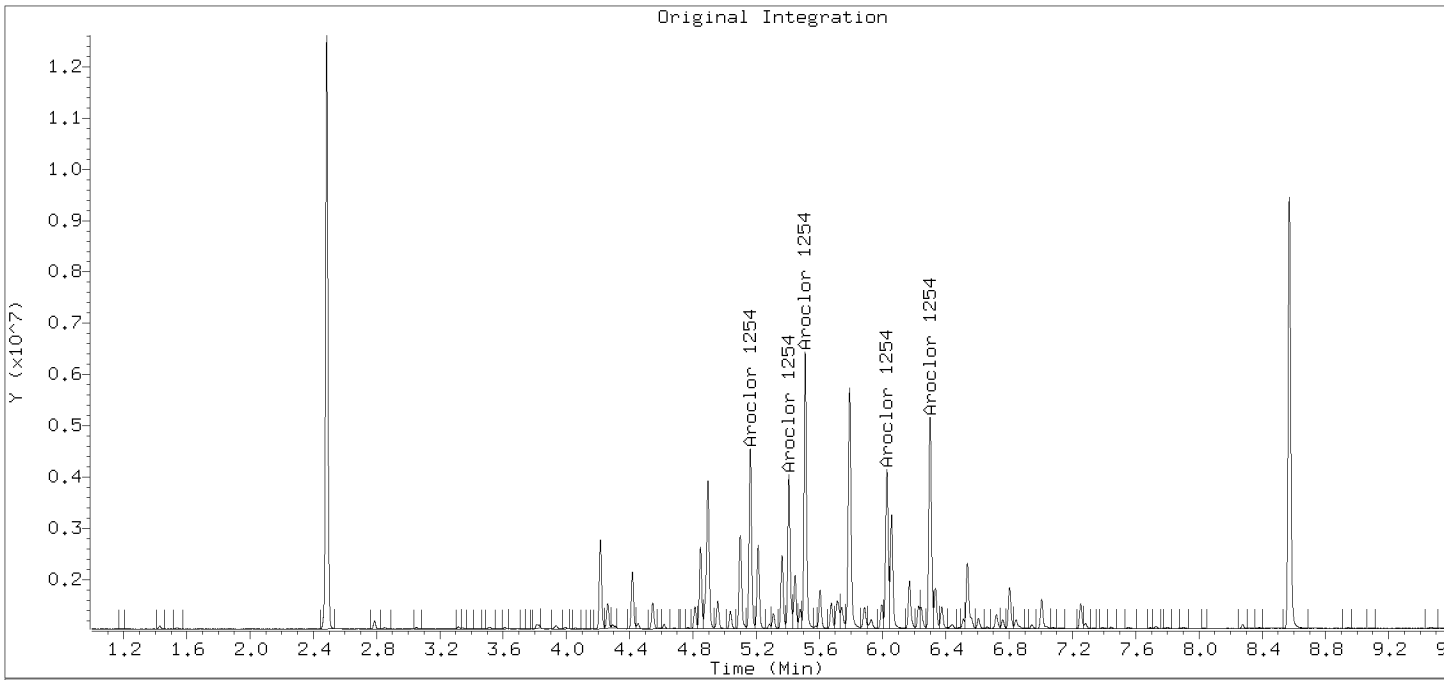
Operator: BLM

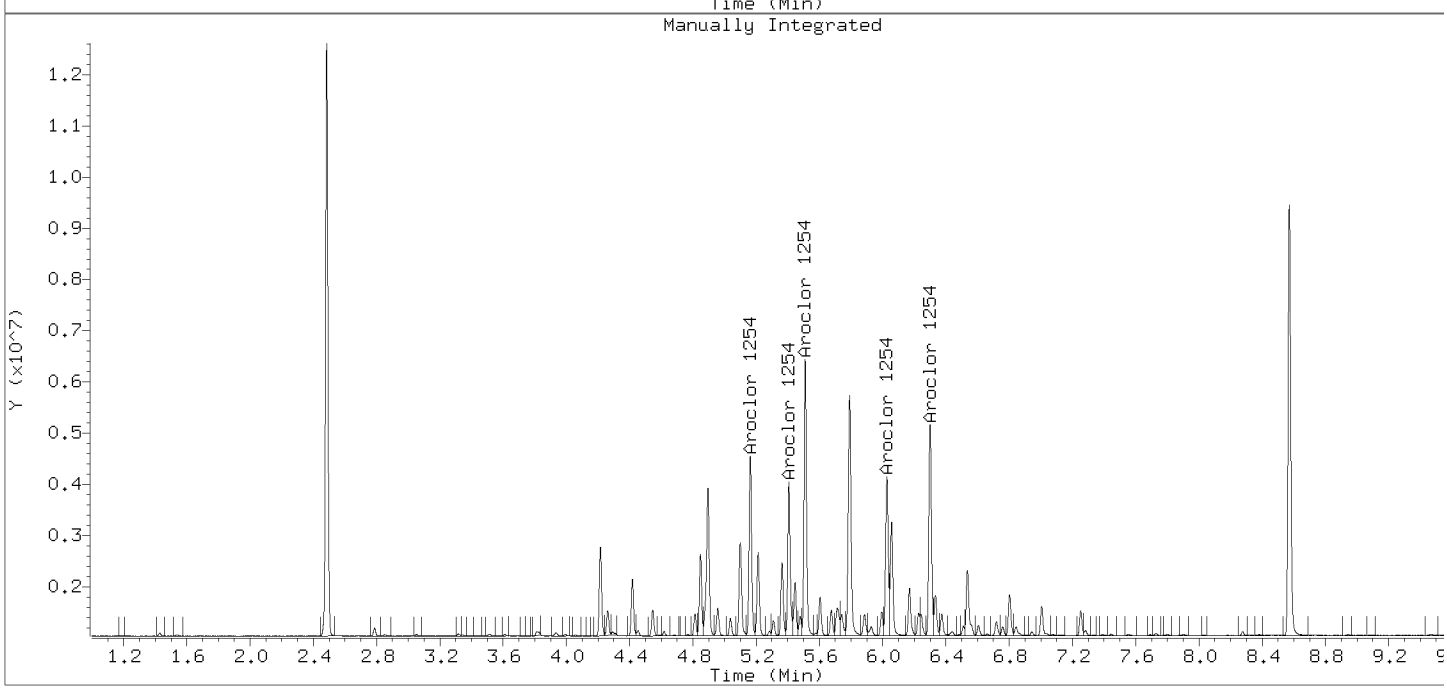
Column phase: ZB-1ms

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

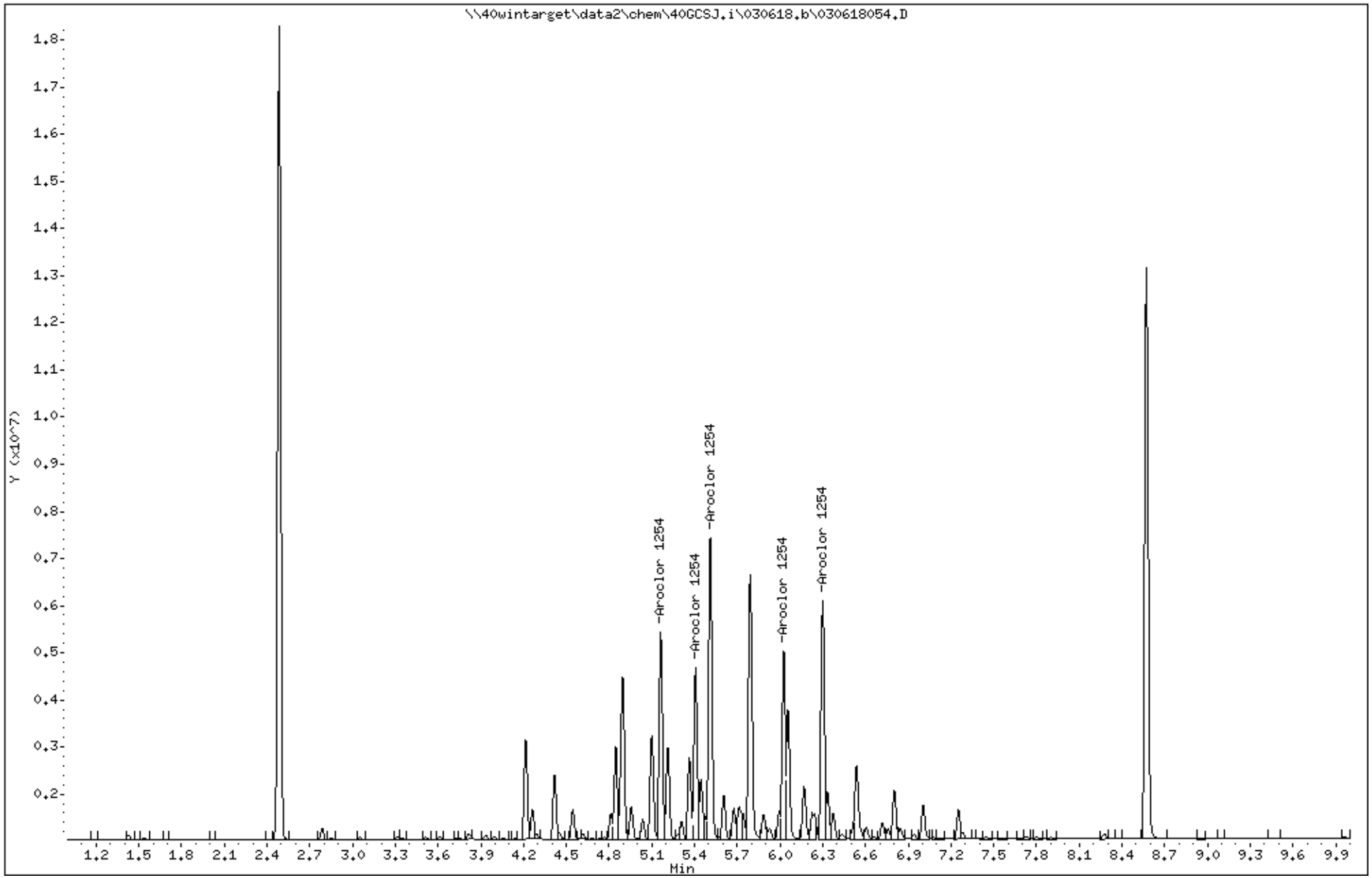
Instrument: 40GCSJ.i

Sample Info: 1254-CAL5C, 185556:1

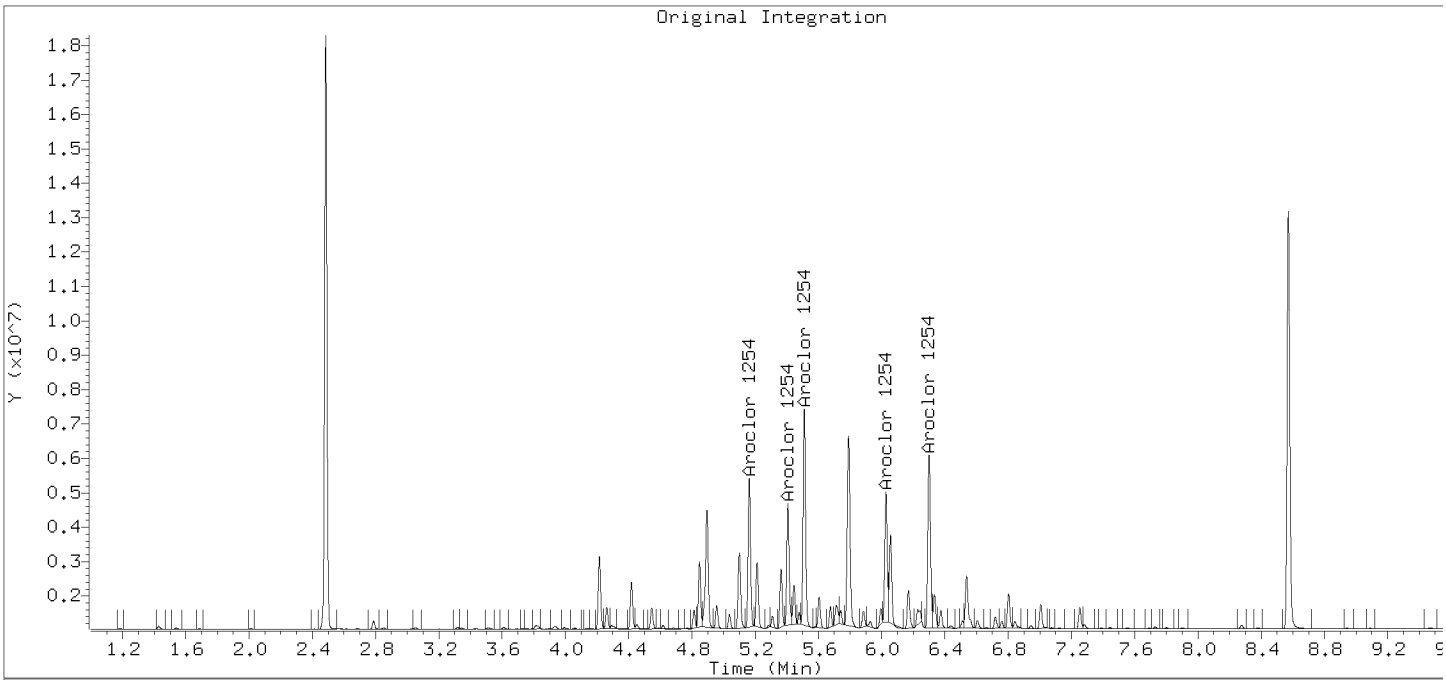
Operator: BLM

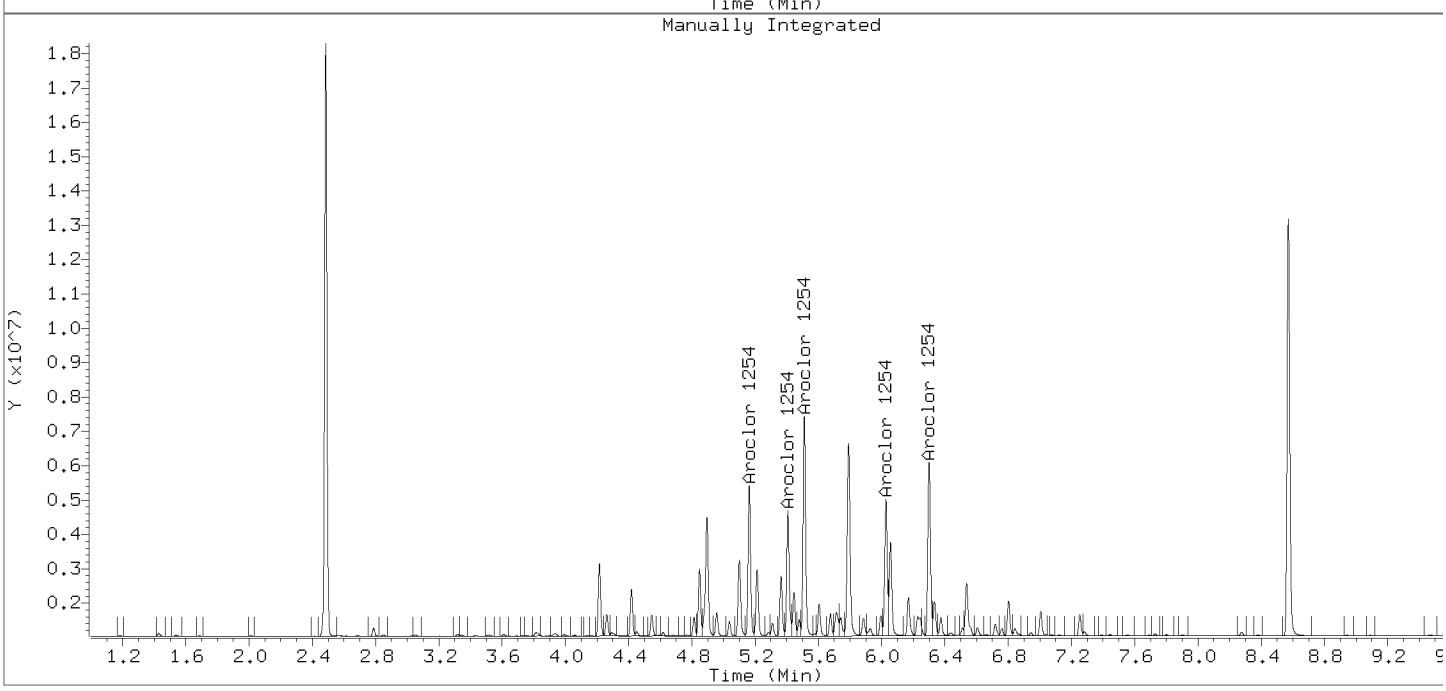
Column phase: ZB-1ms

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.

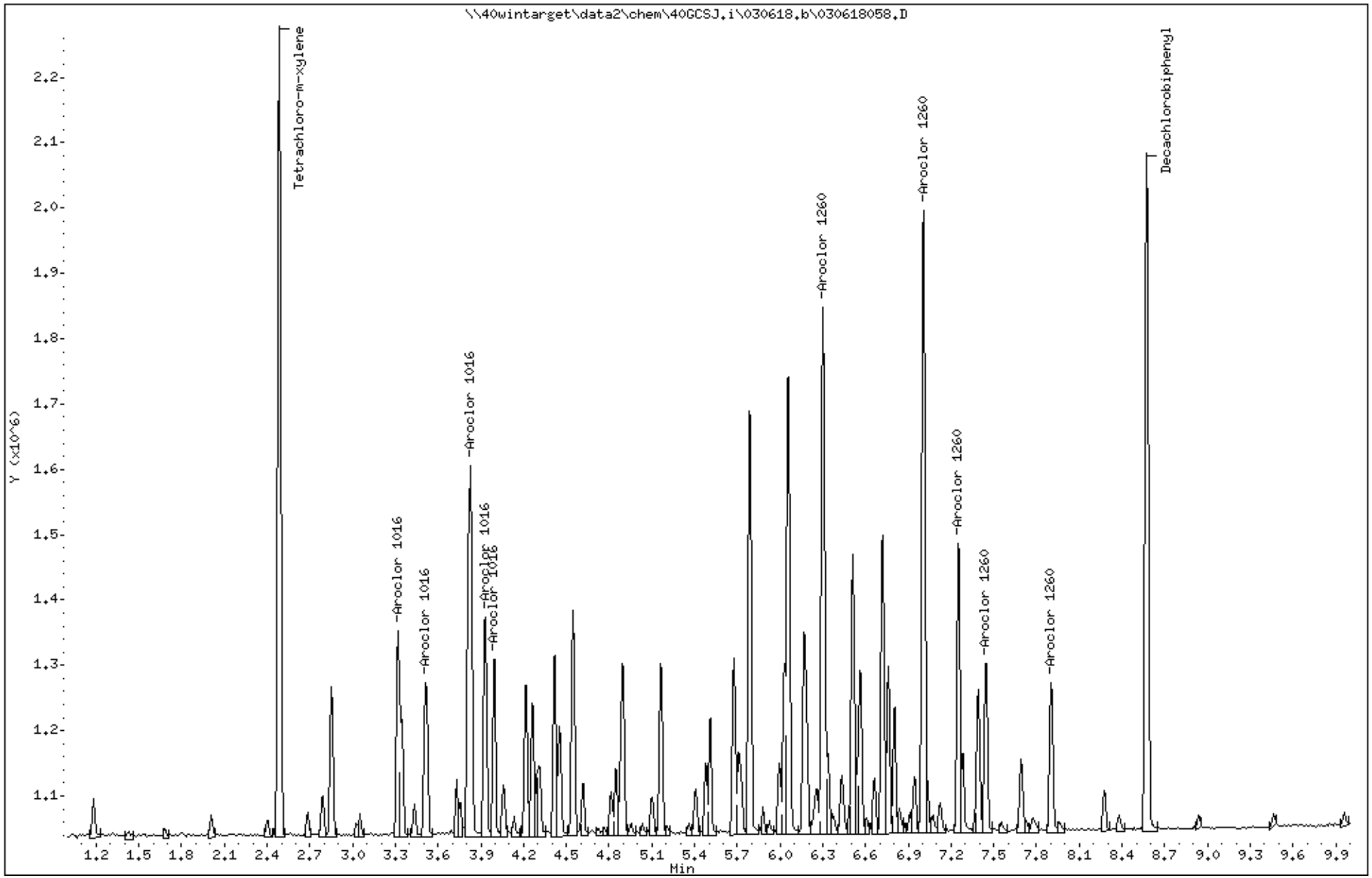
QC Flag Legend

Review Codes Legend

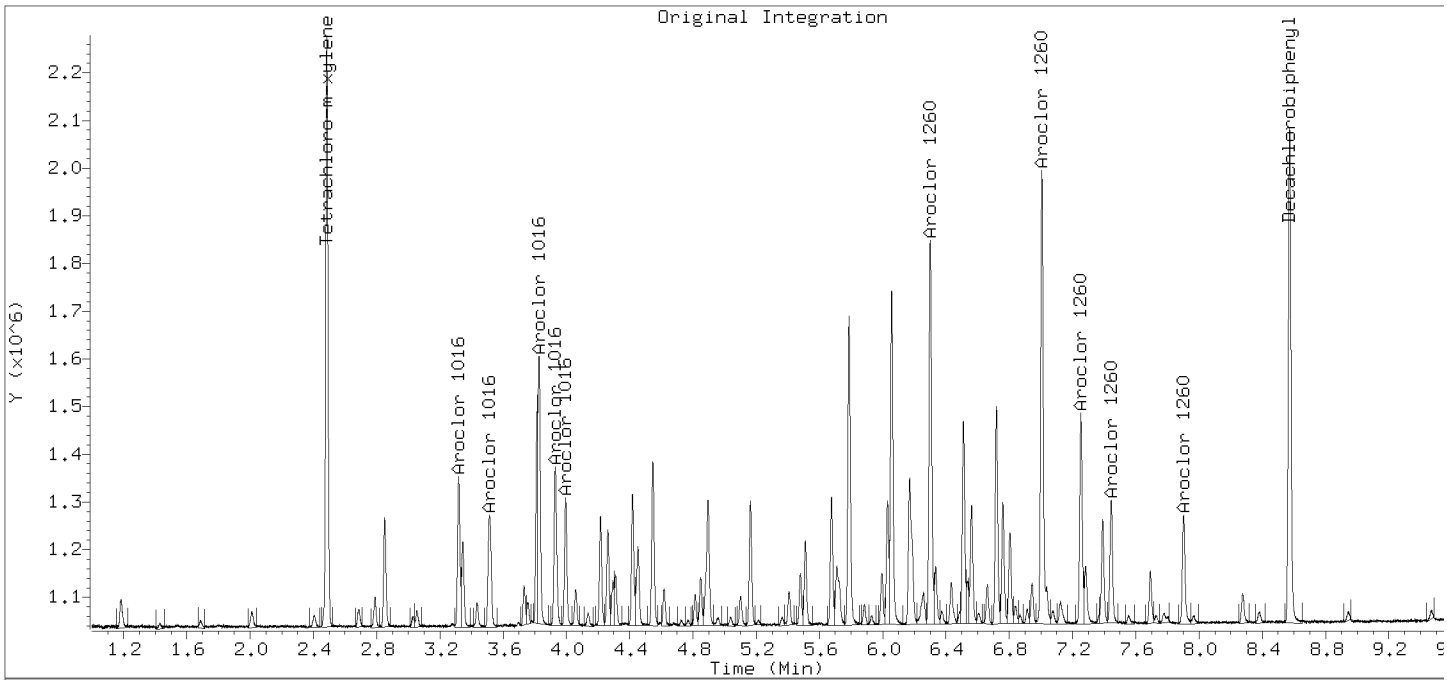
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

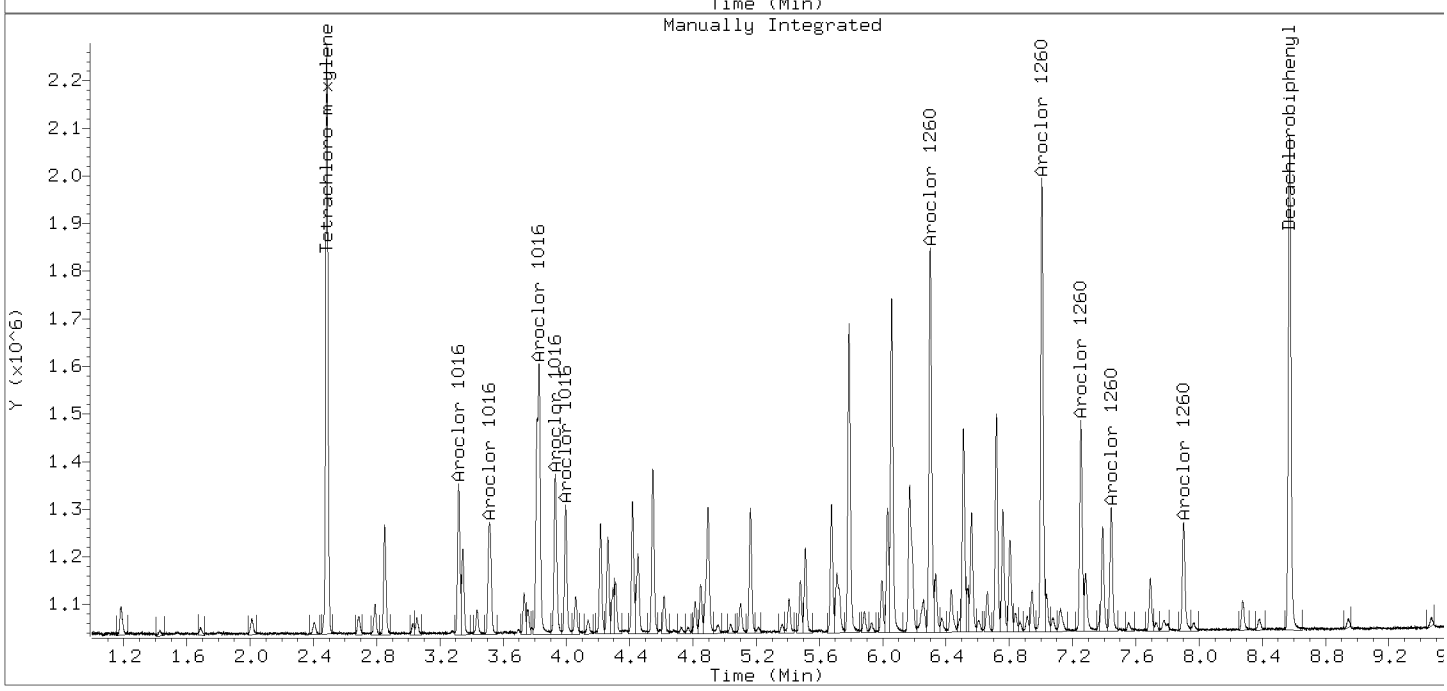
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618058.D
Date : 06-MAR-2018 18:34
Client ID: 1660-CAL1A
Sample Info: 1660-CAL1A, 188136:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

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

Total unknown % area = 57

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

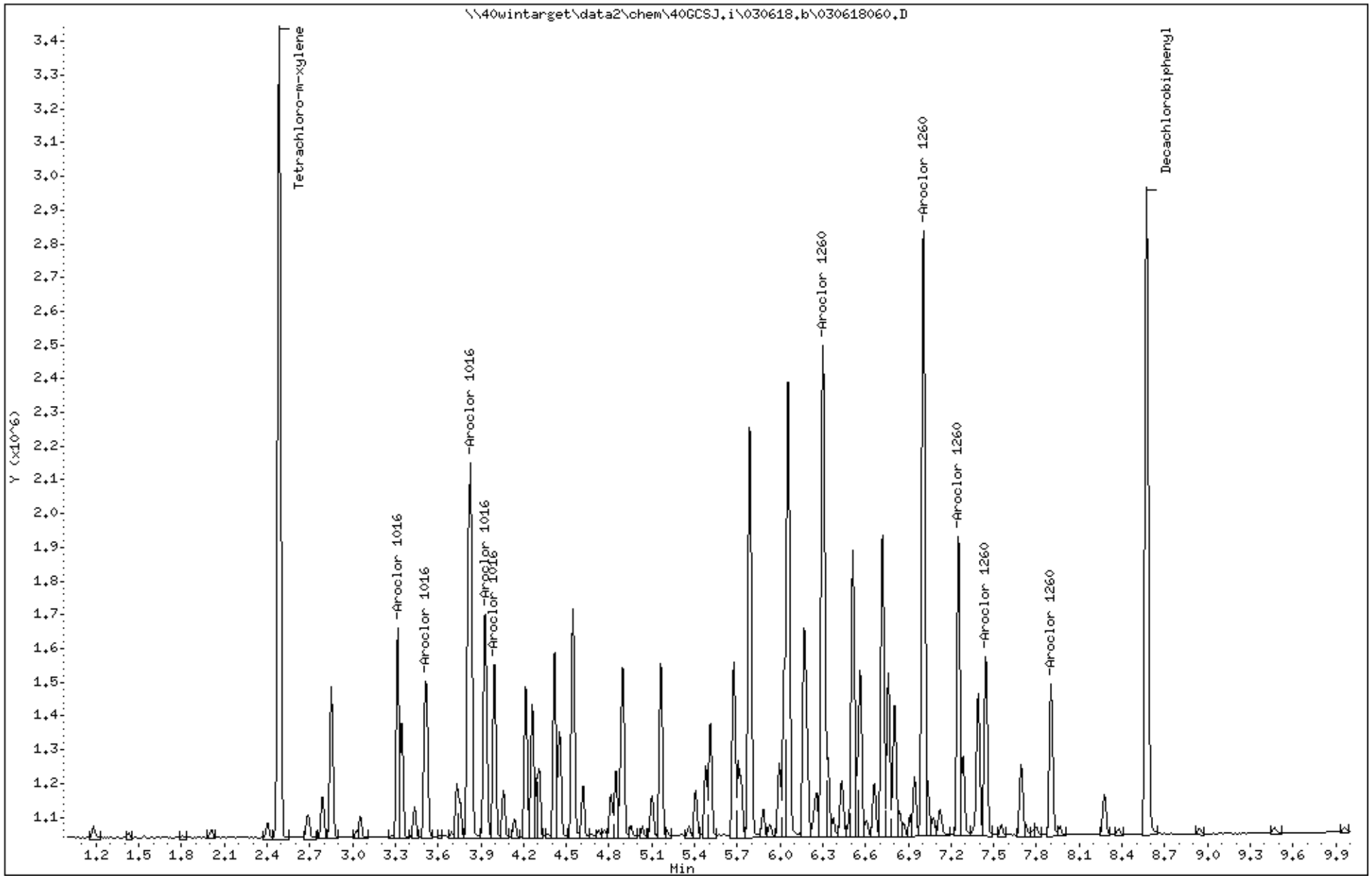
QC Flag Legend

Review Codes Legend

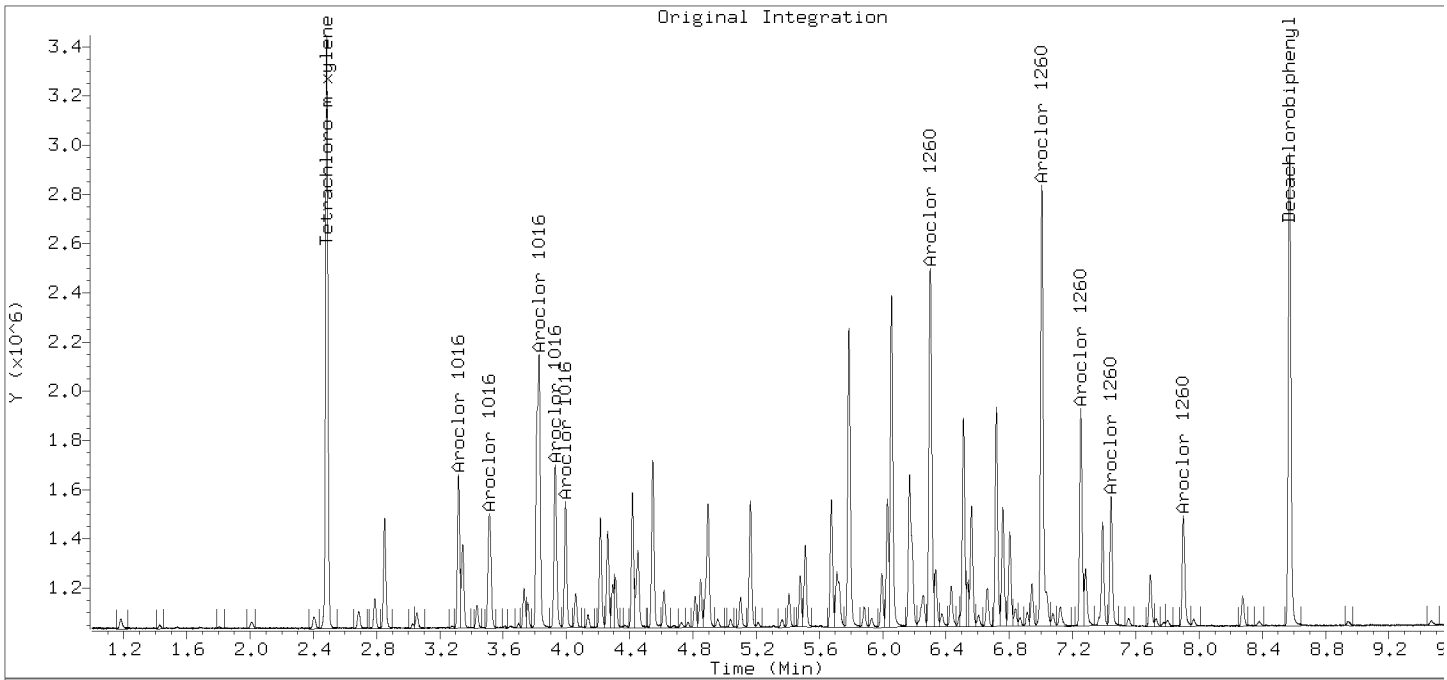
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

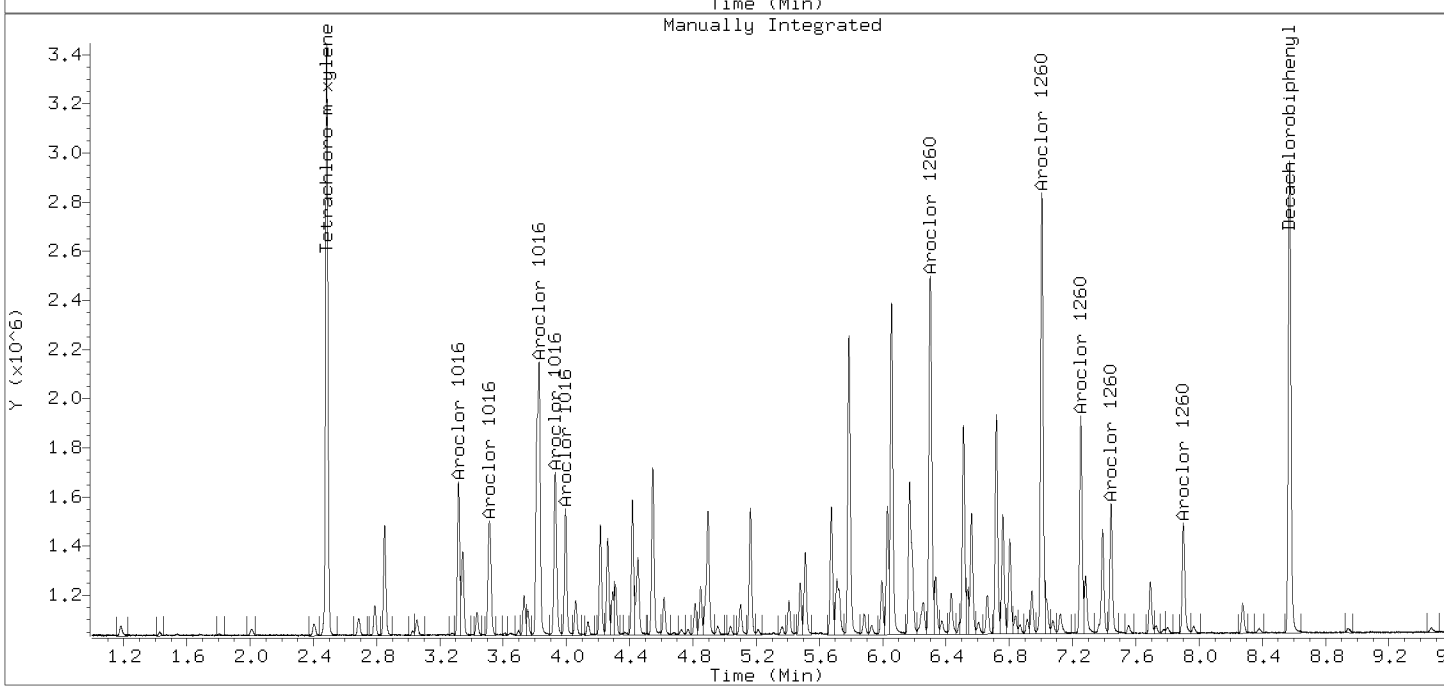
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618060.D
Date : 06-MAR-2018 18:51
Client ID: 1660-CAL2A
Sample Info: 1660-CAL2A, 185558:1

Instrument: 40GCSJ.i
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.

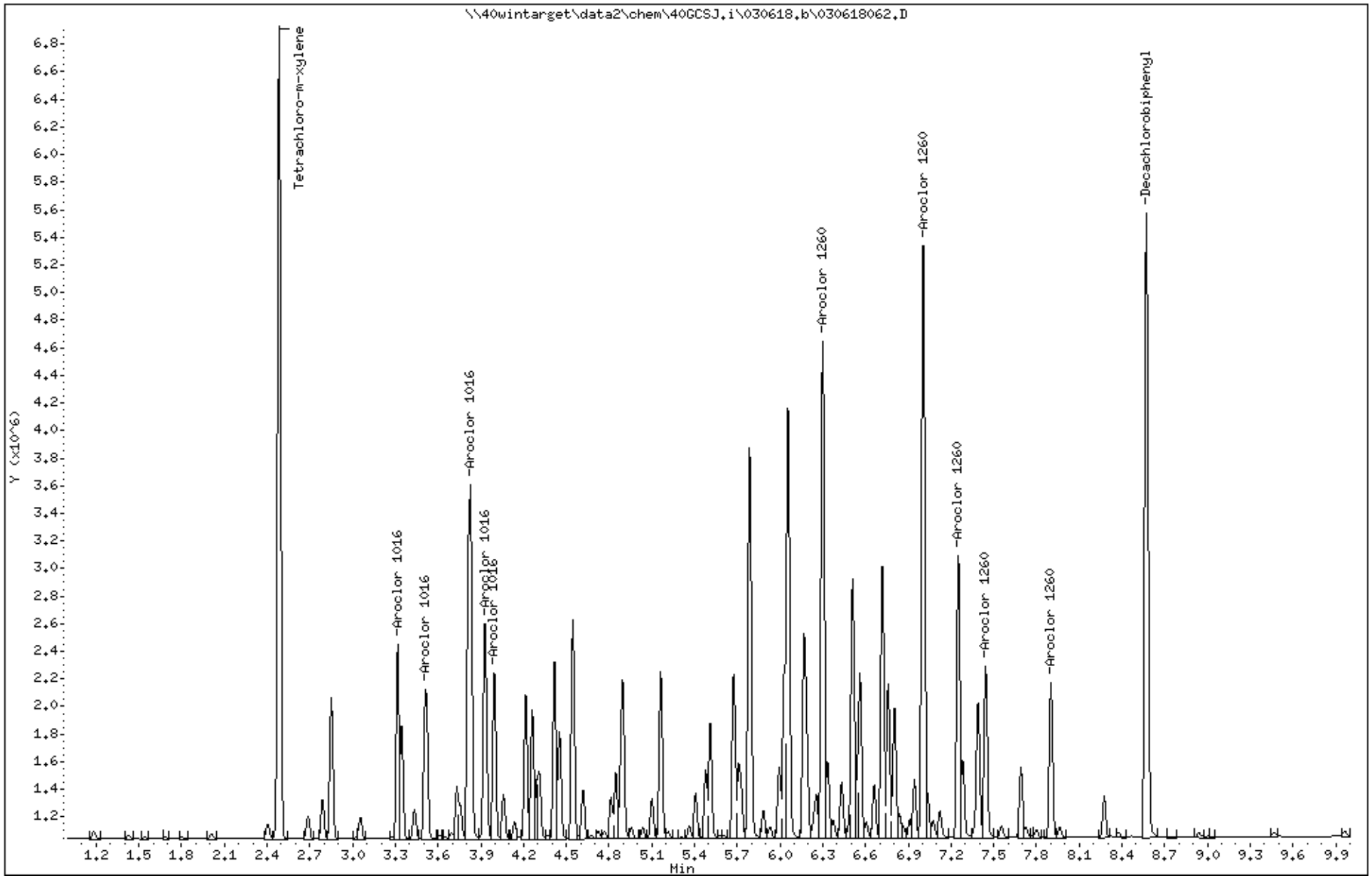
QC Flag Legend

Review Codes Legend

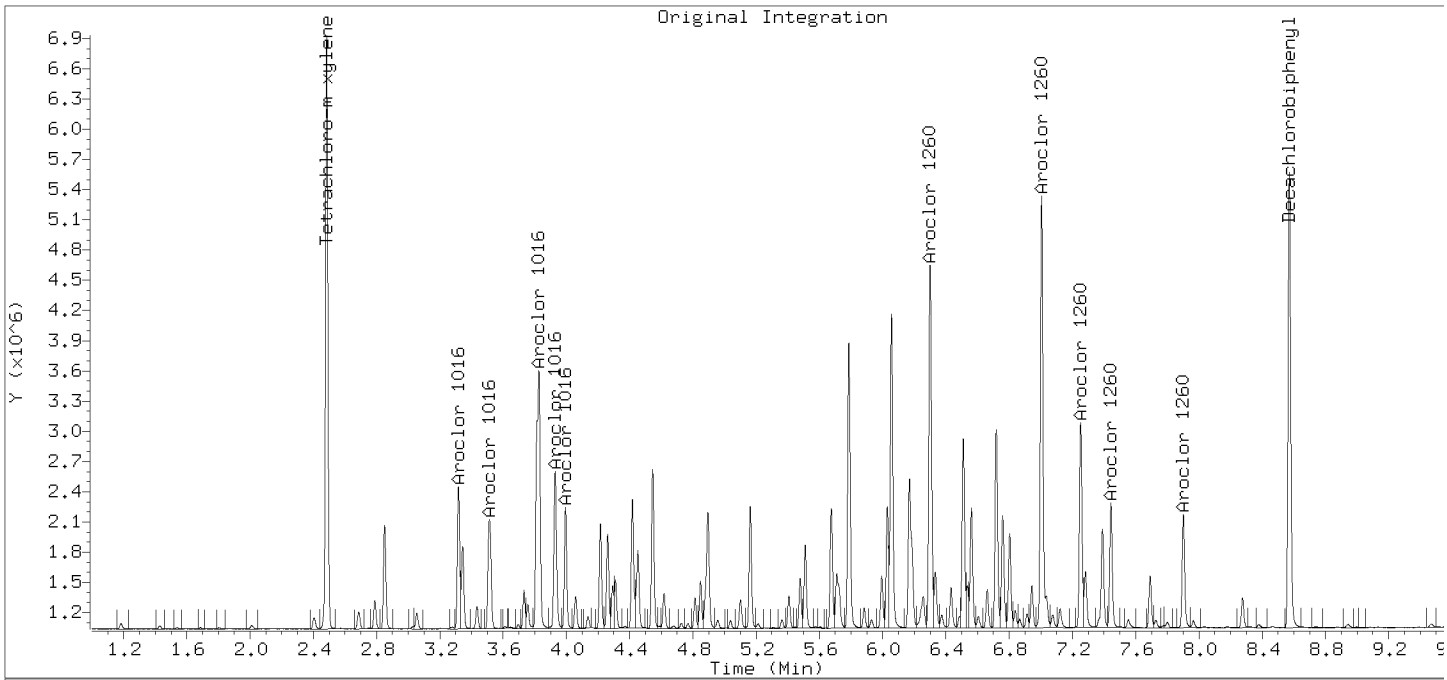
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

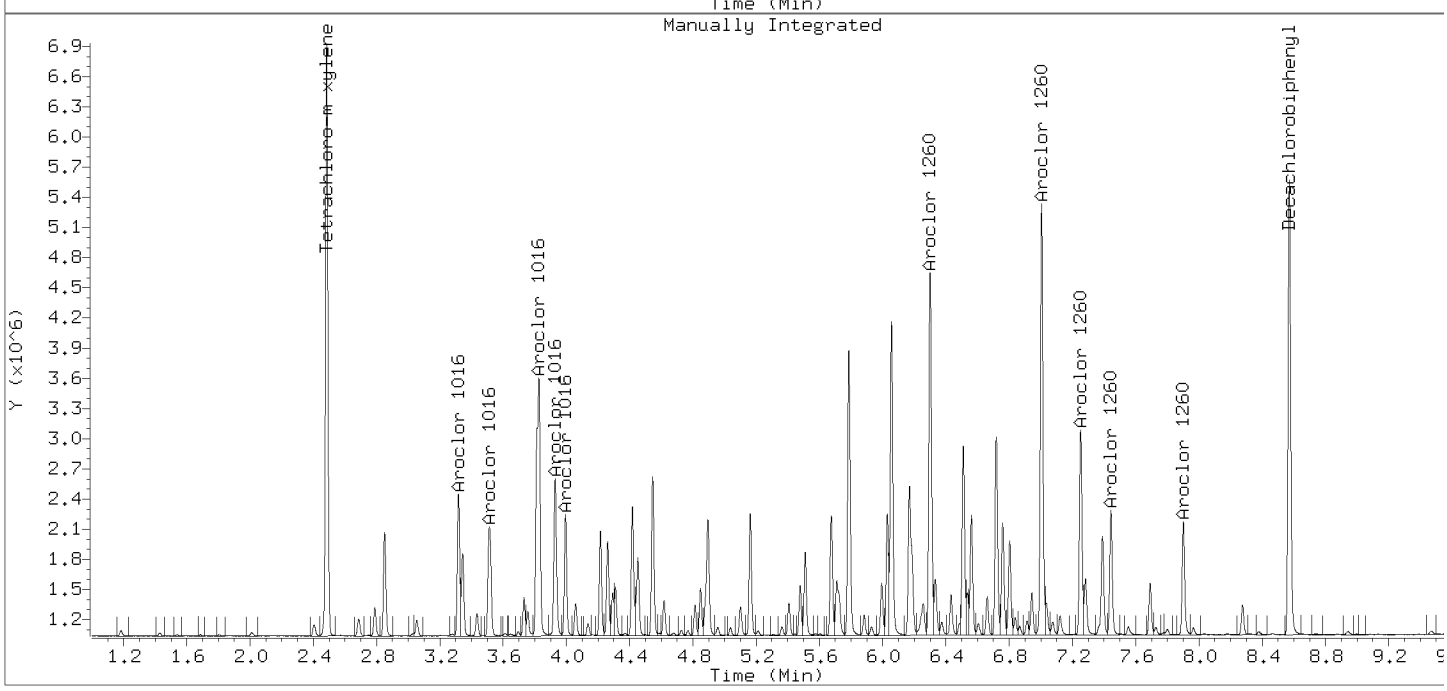
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618062.D
Date : 06-MAR-2018 19:07
Client ID: 1660-CAL3A
Sample Info: 1660-CAL3A, 185559:1

Instrument: 40GCSJ.i
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

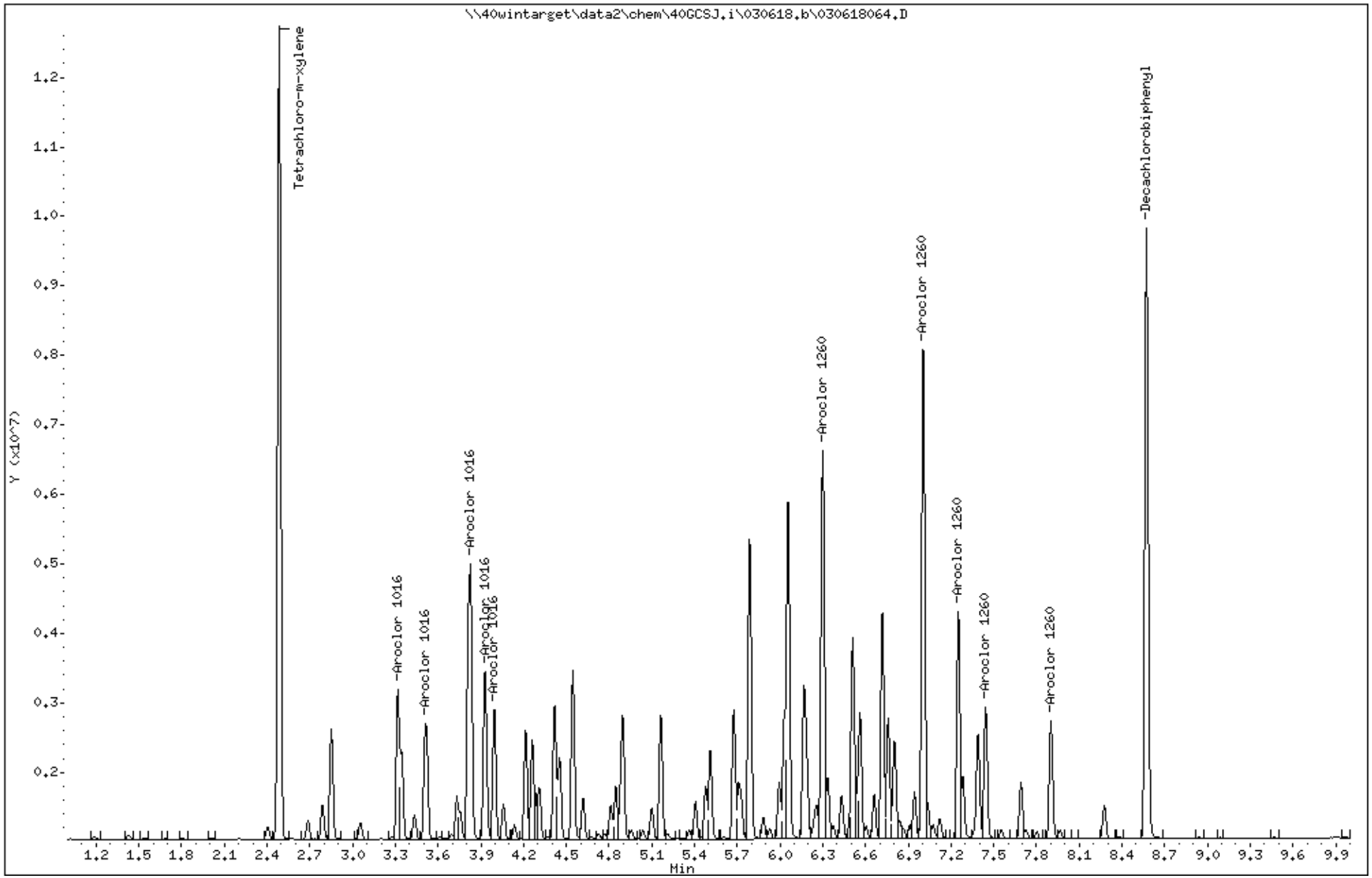
Instrument: 40GCSJ.i

Sample Info: 1660-CAL4A, 185560:1

Operator: BLM

Column phase: ZB-1ms

Column diameter: 0.18



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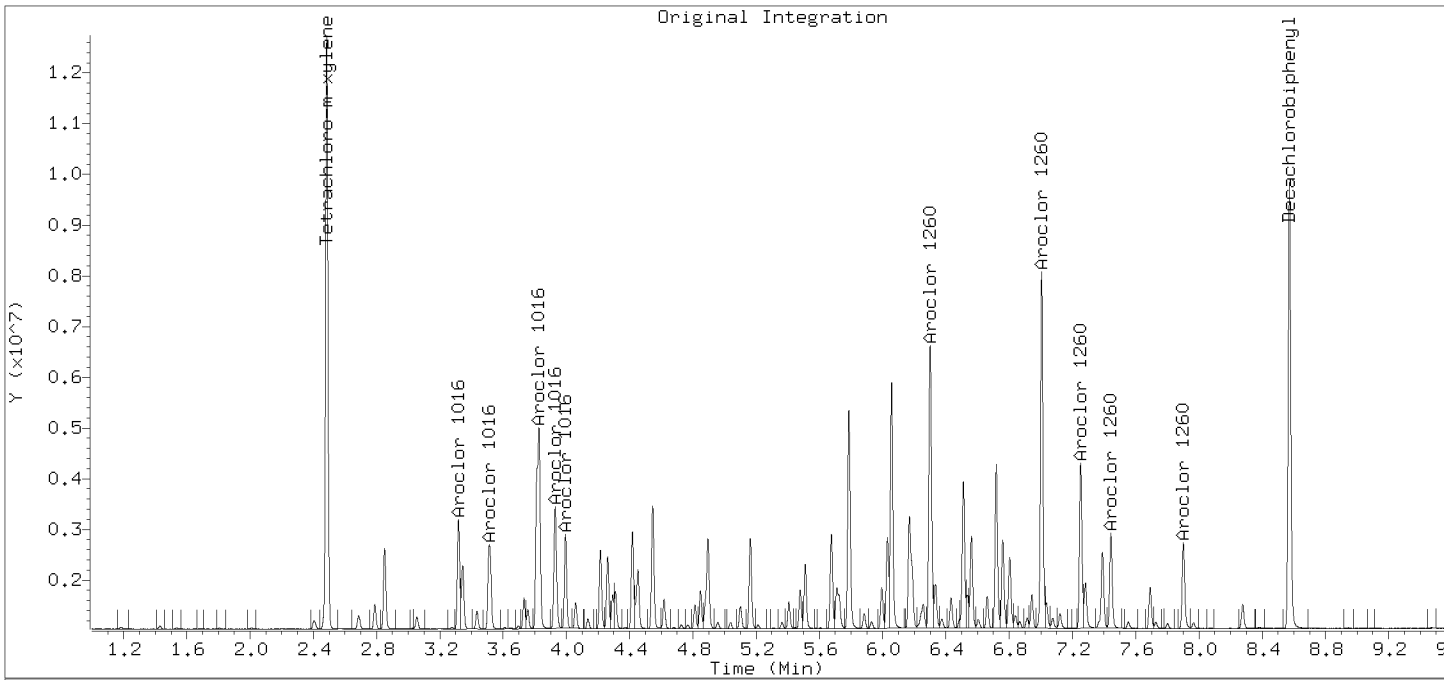
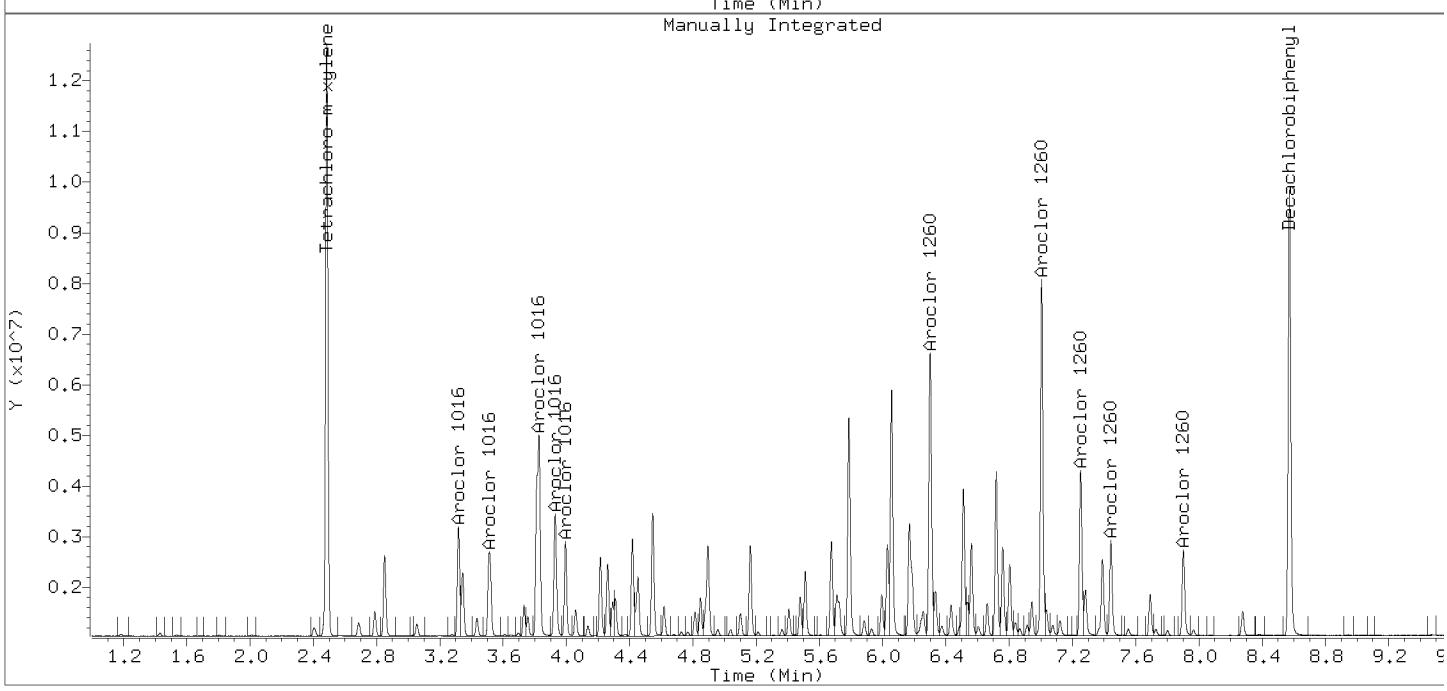
Injection Date: 06-MAR-2018 19:23 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1660-CAL4A





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	

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

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

Total unknown % area = 52

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 19:39

Client ID: 1660-CAL5A

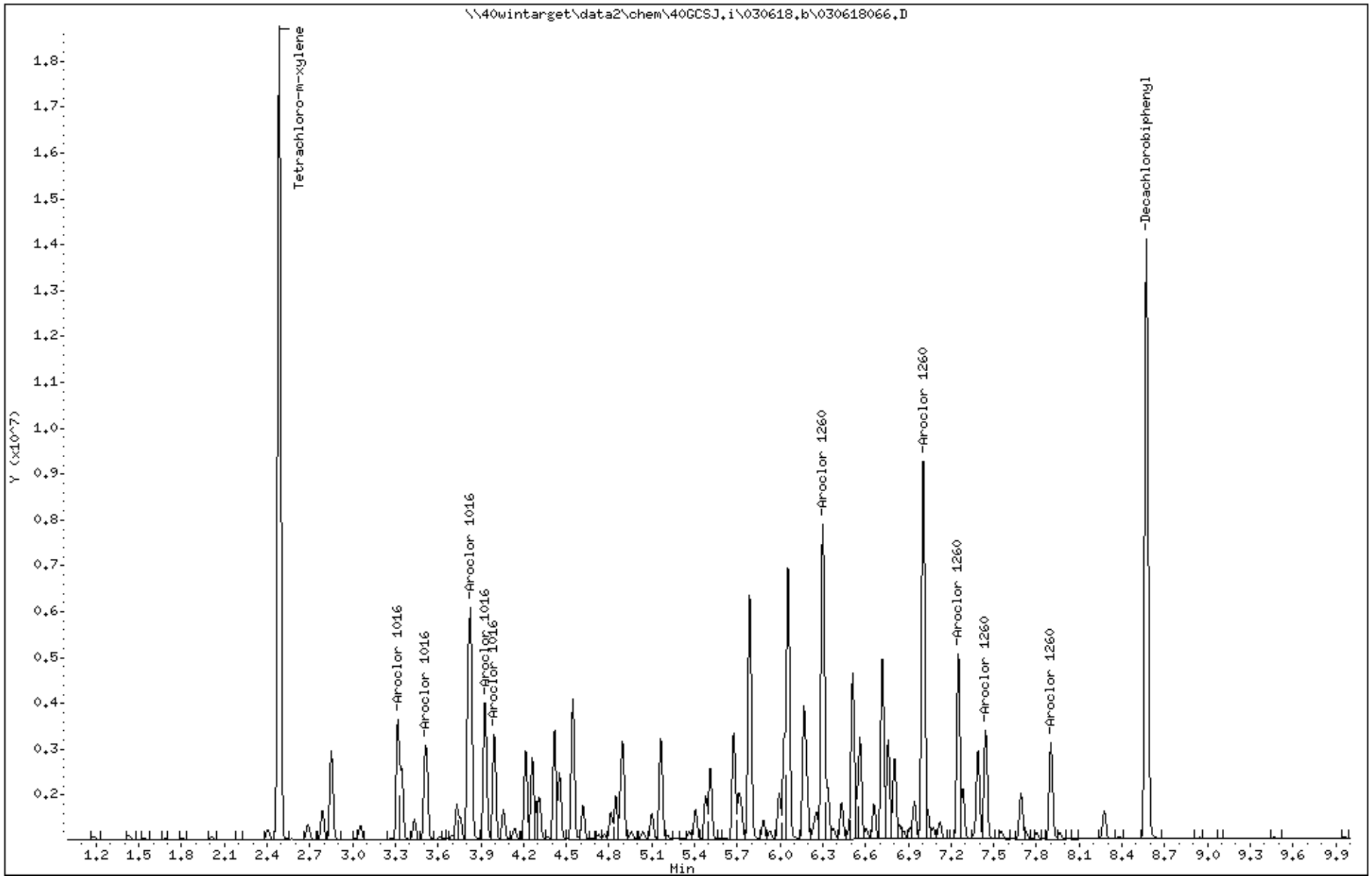
Instrument: 40GCSJ.i

Sample Info: 1660-CAL5A, 185561:1

Operator: BLM

Column phase: ZB-1ms

Column diameter: 0.18



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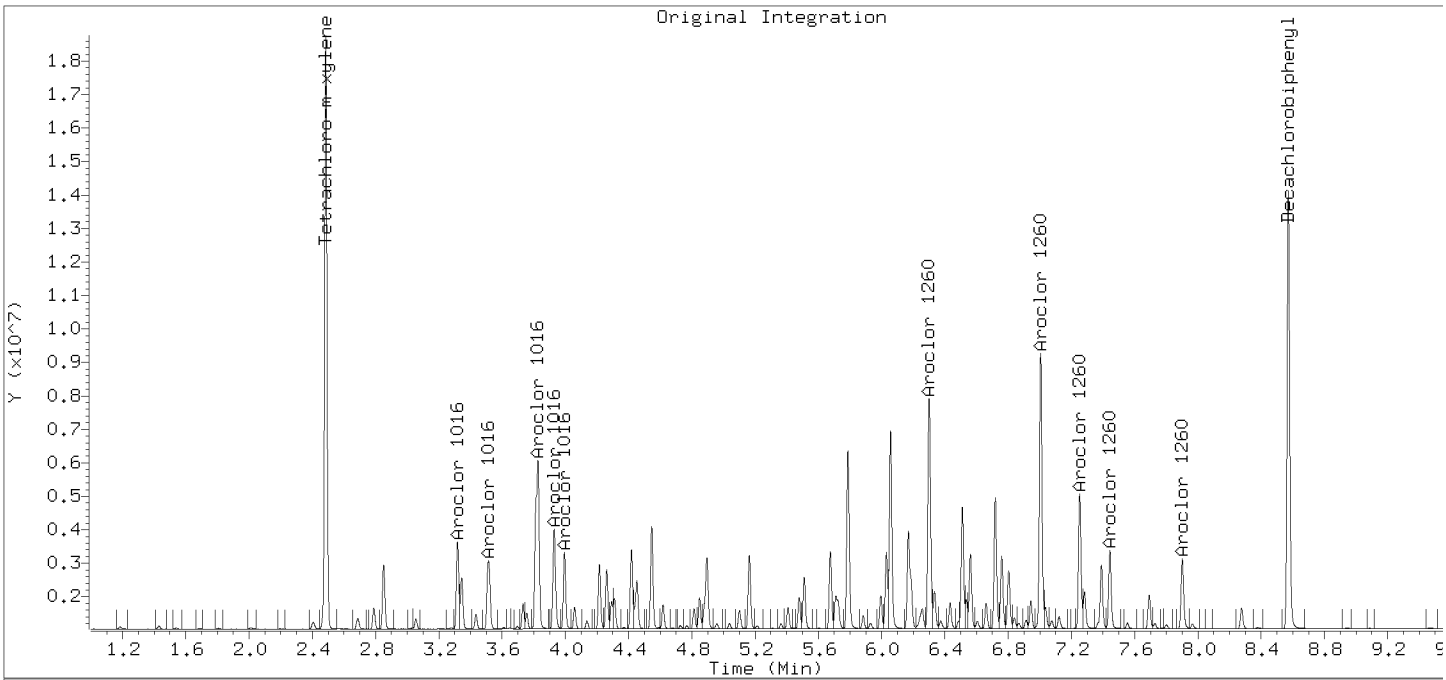
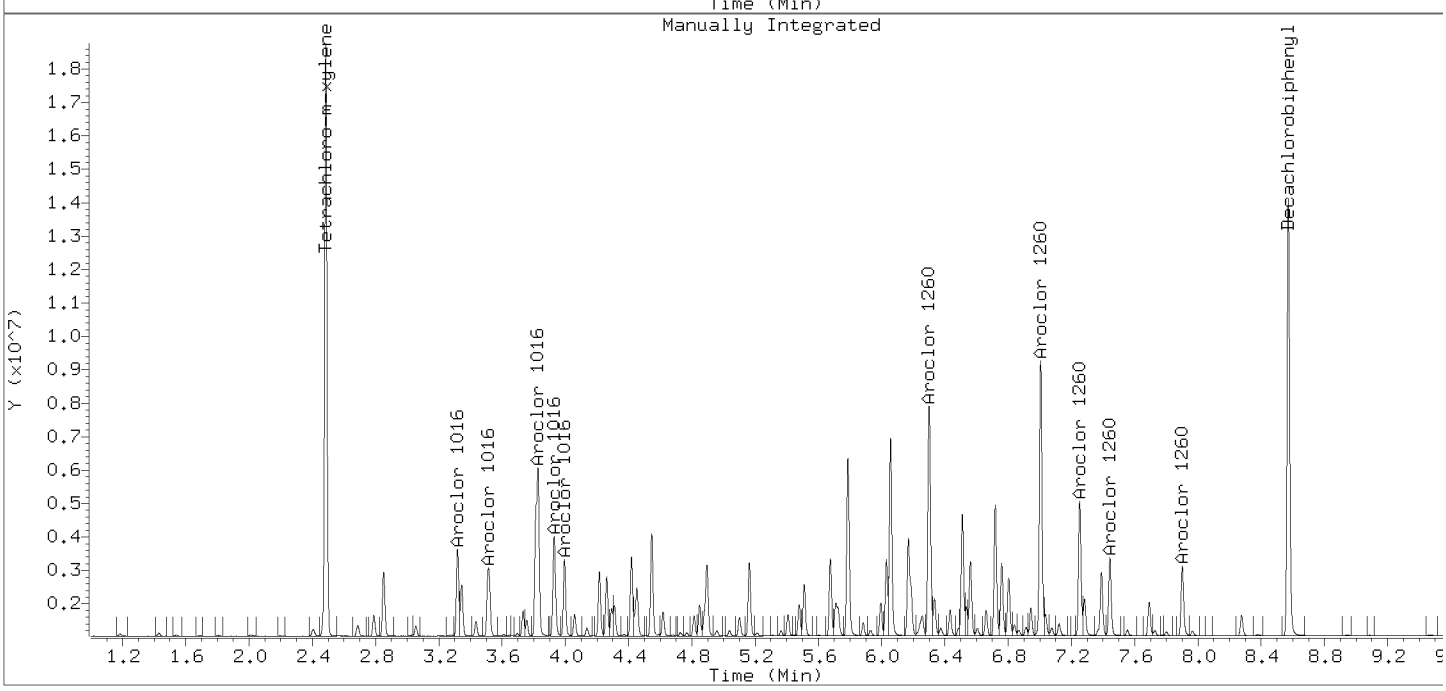
Injection Date: 06-MAR-2018 19:39 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1660-CAL5A





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.: 40157937

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.: 40157937

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.: 40157937

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.: 40157937

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.: 40157937

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.

10917201CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 04/23/2018 Time: 13:43

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

Lab File ID: 042318.B\042318004.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40157937

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1232	1	Averaged	2.851	2.817	2.885	2500024.00	2621048.00	4.8409
Aroclor 1232	2	Averaged	3.513	3.479	3.547	1339782.00	1388214.00	3.6149
Aroclor 1232	3	Averaged	3.826	3.793	3.861	3749726.00	3831434.00	2.1790
Aroclor 1232	4	Averaged	3.928	3.895	3.963	1606492.00	1648650.00	2.6242
Aroclor 1232	5	Averaged	3.994	3.961	4.029	1091876.00	1100882.00	0.8248
Decachlorobiphenyl (S)		Averaged	8.57	8.537	8.605	109559990.	105068580.	-4.0995
Tetrachloro-m-xylene		Averaged	2.485	2.45	2.518	123295106.	120073760.	-2.6127

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

SAMPLE NO.

10917200CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 04/23/2018 Time: 16:54

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

Lab File ID: 042318.B\042318016.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40157937

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1242	1	Averaged	3.318	3.284	3.352	2533198.70	2729362.00	7.7437
Aroclor 1242	2	Averaged	3.514	3.479	3.547	2520033.45	2691242.00	6.7939
Aroclor 1242	3	Averaged	3.826	3.793	3.861	7116457.95	7712822.00	8.3801
Aroclor 1242	4	Averaged	3.929	3.895	3.963	3041534.65	3296162.00	8.3717
Aroclor 1242	5	Averaged	3.994	3.961	4.029	2047746.90	2213612.00	8.0999
Decachlorobiphenyl (S)		Averaged	8.569	8.537	8.605	109559990.	114580240.	4.5822
Tetrachloro-m-xylene		Averaged	2.485	2.45	2.518	123295106.	126937440.	2.9542

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

SAMPLE NO.

10917202CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 04/23/2018 Time: 20:04

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

Lab File ID: 042318.B\042318028.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40157937

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1248	1	Averaged	4.259	4.227	4.295	2342973.85	2427222.00	3.5958
Aroclor 1248	2	Averaged	4.544	4.512	4.58	4150305.95	4258088.00	2.5970
Aroclor 1248	3	Averaged	4.811	4.778	4.846	2030080.20	2122088.00	4.5322
Aroclor 1248	4	Averaged	4.878	4.845	4.913	5037445.65	5289580.00	5.0052
Aroclor 1248	5	Averaged	5.036	5.004	5.072	3588546.15	3778842.00	5.3029
Decachlorobiphenyl (S)		Averaged	8.569	8.537	8.605	109559990.	111068000.	1.3764
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	120715660.	-2.0921

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

SAMPLE NO.

10917203CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 04/23/2018 Time: 21:39

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

Lab File ID: 042318.B\042318034.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40157937

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1254	1	Averaged	5.161	5.128	5.196	5235247.45	5336970.00	1.9430
Aroclor 1254	2	Averaged	5.405	5.374	5.442	4301054.45	4420464.00	2.7763
Aroclor 1254	3	Averaged	5.508	5.476	5.544	7766063.85	7970358.00	2.6306
Aroclor 1254	4	Averaged	6.024	5.993	6.061	4869683.55	5177766.00	6.3265
Aroclor 1254	5	Averaged	6.296	6.265	6.333	6507103.75	6807102.00	4.6103
Decachlorobiphenyl (S)		Averaged	8.568	8.537	8.605	109559990.	112775580.	2.9350
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	121523420.	-1.4369

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

SAMPLE NO.

10920097CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 04/24/2018 Time: 13:10

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

Lab File ID: 042418.B\042418004.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40157937

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	3194414.00	3.6868
Aroclor 1016	2	Averaged	3.513	3.478	3.546	3099002.40	3202620.00	3.3436
Aroclor 1016	3	Averaged	3.825	3.792	3.86	8861786.20	9109236.00	2.7923
Aroclor 1016	4	Averaged	3.928	3.895	3.963	3780223.45	3905200.00	3.3061
Aroclor 1016	5	Averaged	3.994	3.96	4.028	2603349.30	2626562.00	0.8916
Aroclor 1260	1	Averaged	6.299	6.266	6.334	8862352.50	9161228.00	3.3724
Aroclor 1260	2	Averaged	7.003	6.972	7.04	10014373.3	10461510.0	4.4649
Aroclor 1260	3	Averaged	7.25	7.217	7.285	4779803.15	5008364.00	4.7818
Aroclor 1260	4	Averaged	7.442	7.409	7.477	2915110.60	3093650.00	6.1246
Aroclor 1260	5	Averaged	7.9	7.867	7.935	2638735.95	2755840.00	4.4379
Decachlorobiphenyl (S)		Averaged	8.57	8.537	8.605	109559990.	116024120.	5.9001
Tetrachloro-m-xylene		Averaged	2.485	2.45	2.518	123295106.	126833200.	2.8696

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

SAMPLE NO.

10920098CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 04/24/2018 Time: 16:20

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

Lab File ID: 042418.B\042418016.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40157937

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	1048098.00	0.6570
Aroclor 1221	2	Averaged	2.407	2.373	2.441	547842.900	539644.000	-1.4966
Aroclor 1221	3	Averaged	2.687	2.654	2.722	1383336.70	1433726.00	3.6426
Aroclor 1221	4	Averaged	2.789	2.755	2.823	1105769.55	1110428.00	0.4213
Aroclor 1221	5	Averaged	2.85	2.817	2.885	3255397.65	3418556.00	5.0119
Decachlorobiphenyl (S)		Averaged	8.569	8.537	8.605	109559990.	113648500.	3.7318
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	122669420.	-0.5075

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

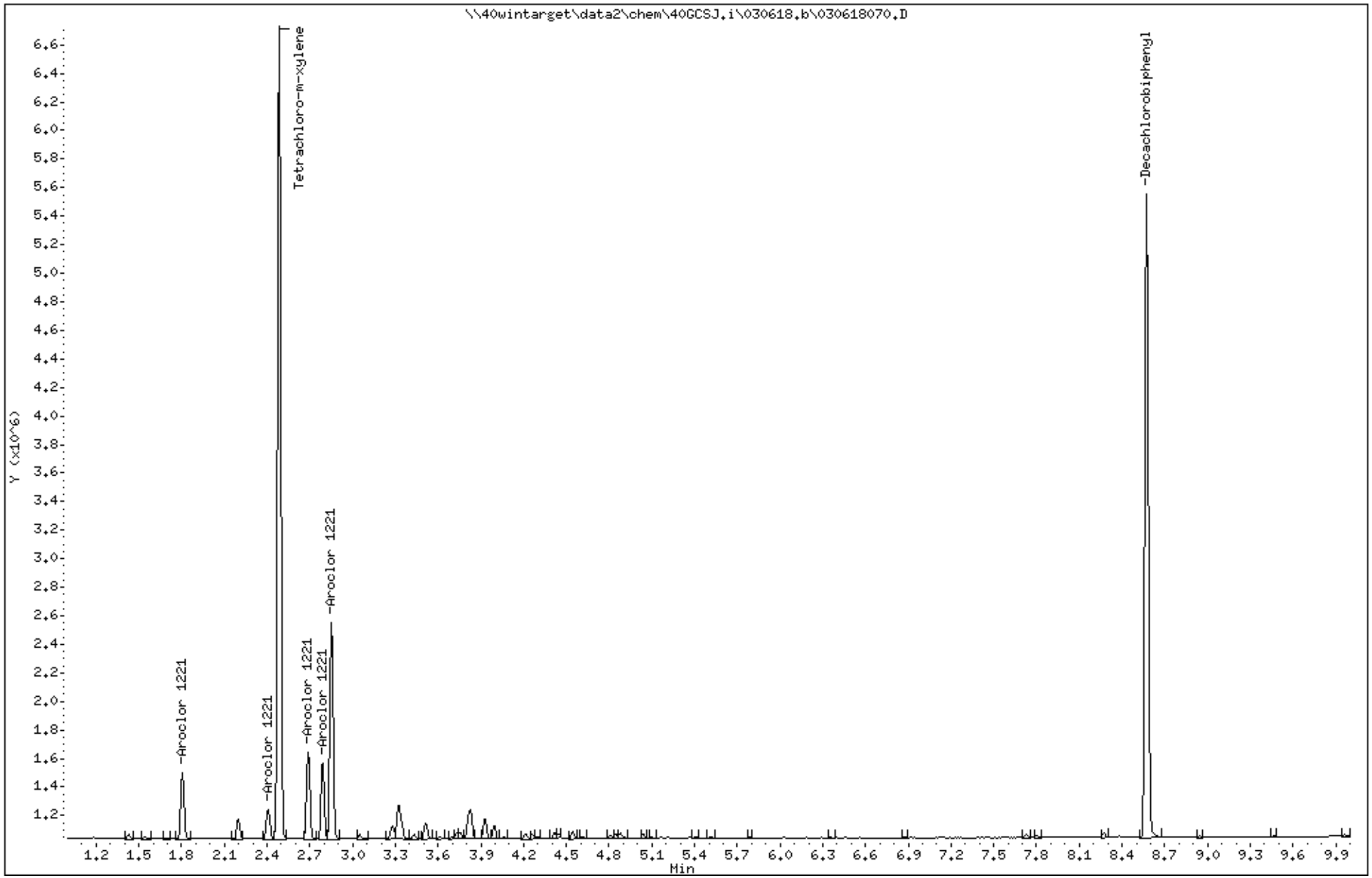
M - Compound response manually integrated.

Review Codes Legend

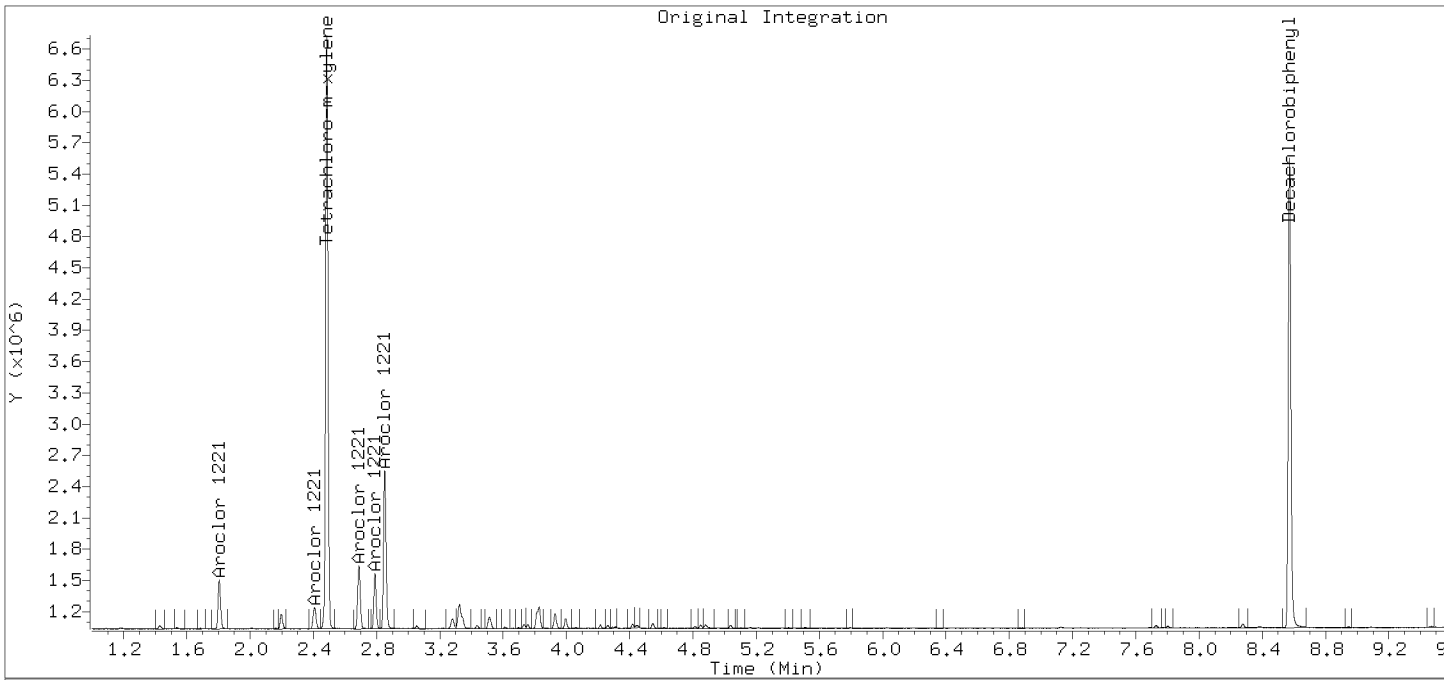
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

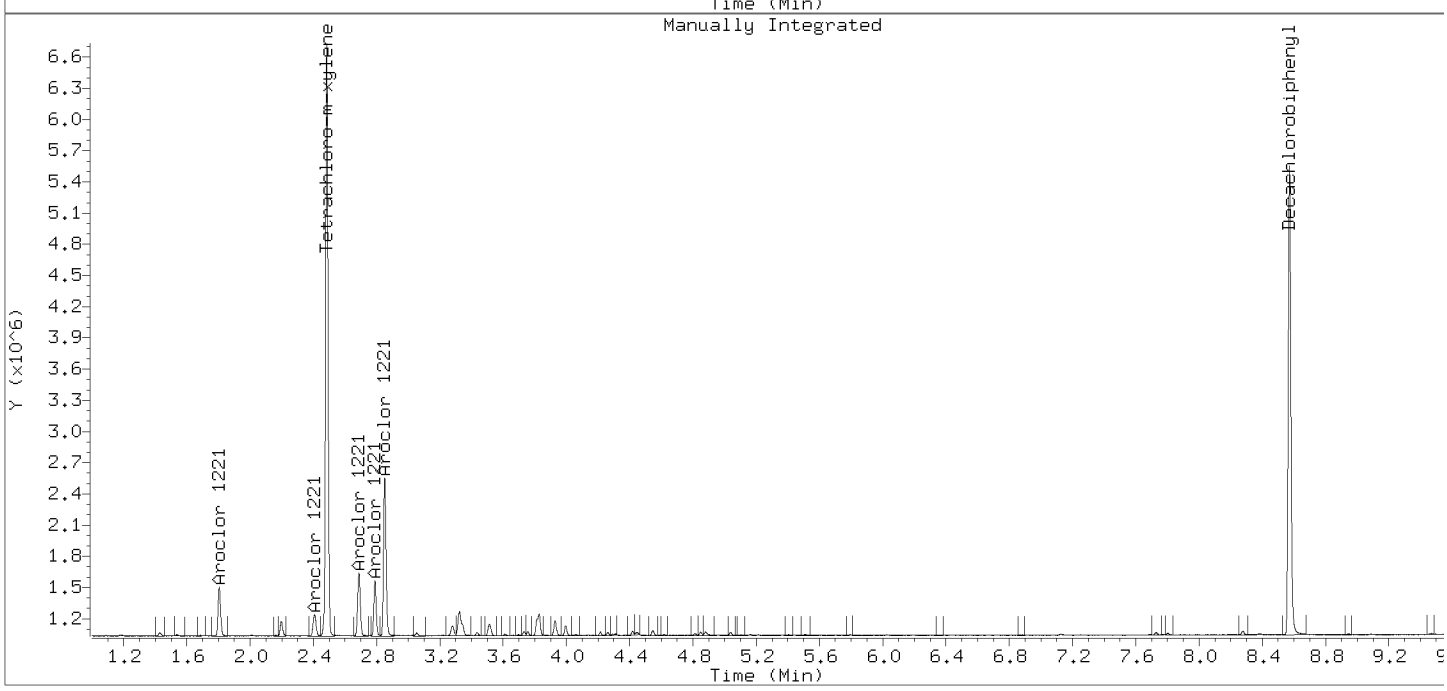
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618070.D
Date : 06-MAR-2018 20:11
Client ID: 1221-ICV
Sample Info: 1221-ICV, 188142:1

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

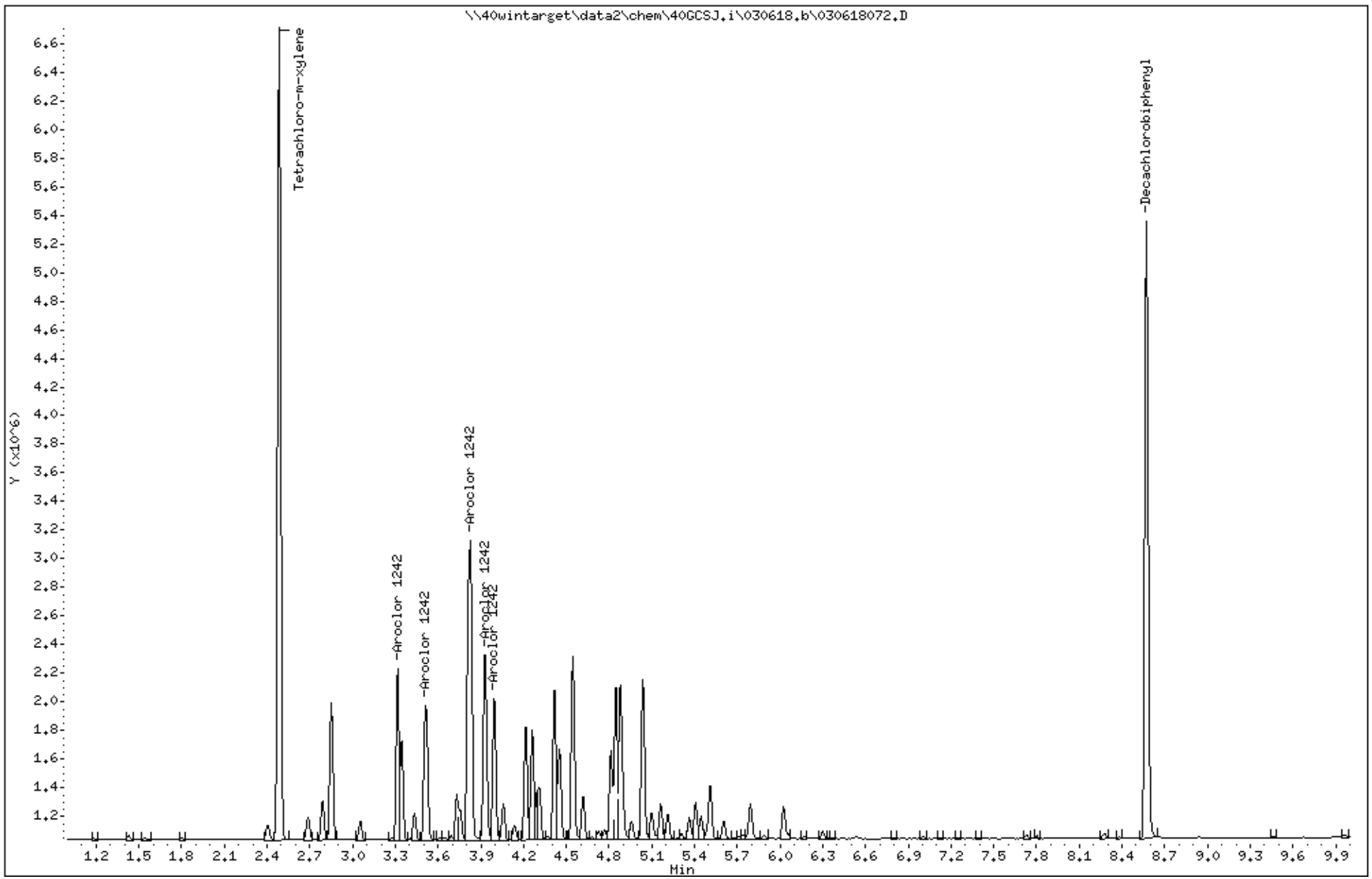
Instrument: 40GCSJ.i

Sample Info: 1242-ICV, 185562:1

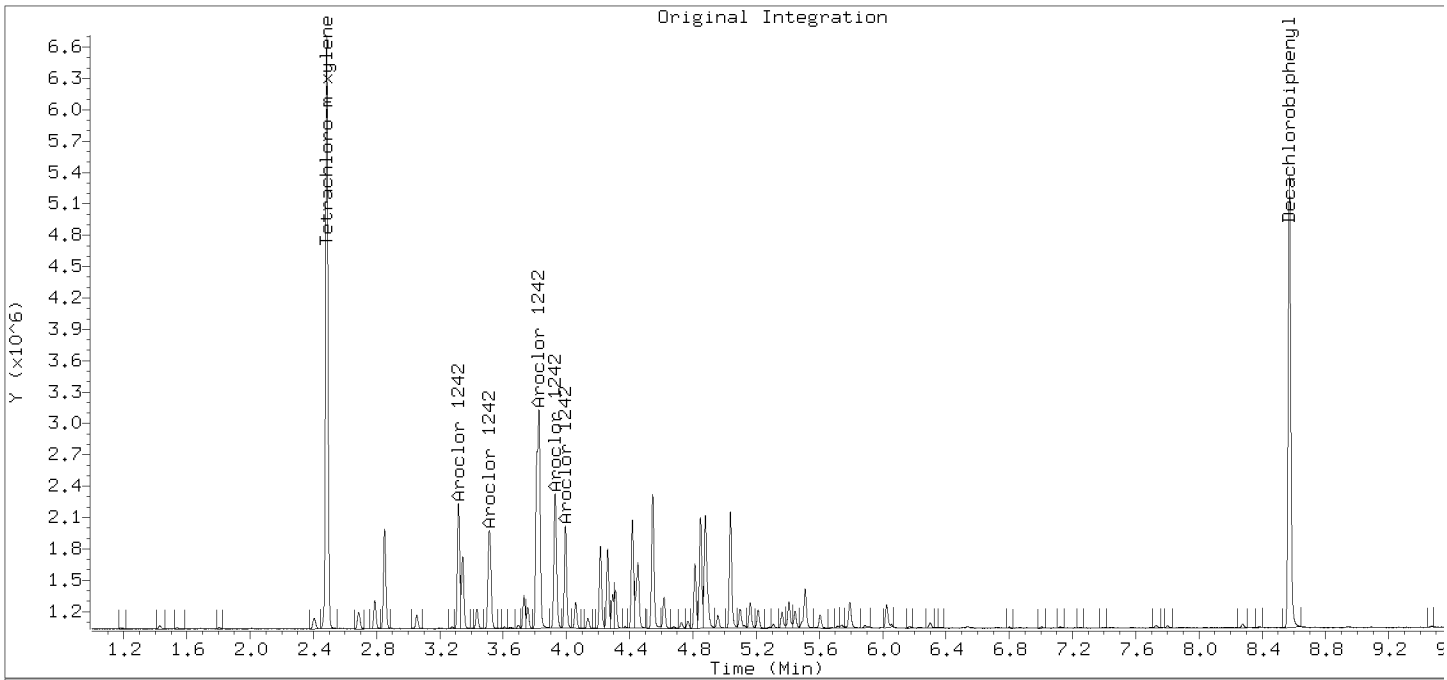
Operator: BLM

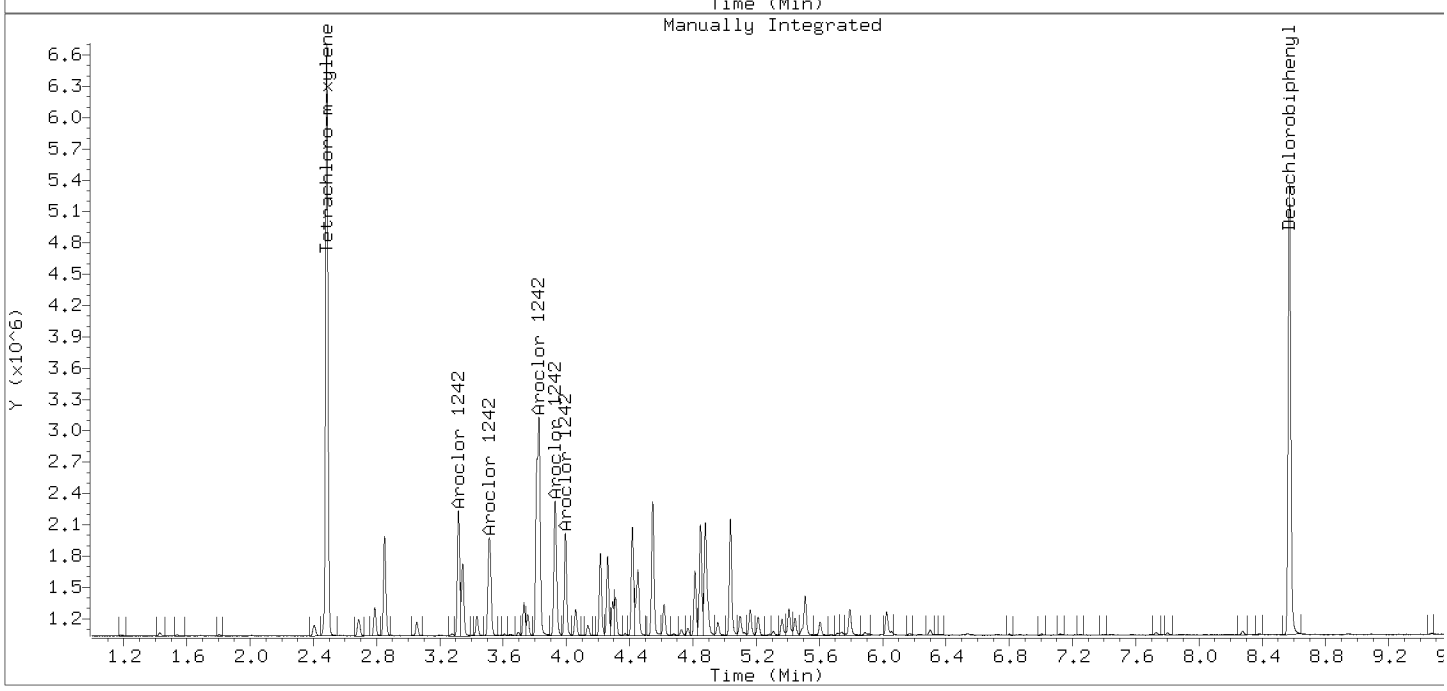
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618072.D (ManInt: AR1242.sub Orig: AR1242.sub)
Injection Date: 06-MAR-2018 20:27 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1242-ICV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1242	1280662	1287474	BA
Aroclor 1242	1280662	1287474	BA
Aroclor 1242	1280662	1287474	BA
Aroclor 1242	1280662	1287474	BA
Aroclor 1242	1280662	1287474	BA
Tetrachloro-m-xylene	5873636	5873636	
Decachlorobiphenyl	5034013	5034013	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618074.D
Lab Smp Id: 1248-ICV Client Smp ID: 1248-ICV
Inj Date : 06-MAR-2018 20:44
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-icv, 185563:1
Misc Info : 17498,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 38 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1248.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.181	17909	14420	0.805	0.04		
1.427	41300	30754	0.745	0.09		
1.534	17534	12165	0.694	0.04		
1.683	10383	10019	0.965	0.02		
2.405	14088	10428	0.740	0.03		
2.485	5899761	5544150	0.940	14.05	$ 2 Tetrachloro-m-xylene	
2.689	16668	12362	0.742	0.03		
2.788	95501	90846	0.951	0.22		
2.852	103096	93433	0.906	0.23		
3.055	53842	46986	0.873	0.12		
3.318	652092	633367	0.971	1.50		
3.344	255476	242530	0.949	0.58		
3.433	54381	45369	0.834	0.12		
3.515	528681	378059	0.715	1.22		
3.612	17192	16665	0.969	0.03		
3.733	139942	107922	0.771	0.32		
3.815	998138	1180553	1.183	2.30		
3.825	1248615	1194584	0.957	2.88		
3.931	835250	638277	0.764	1.92		
3.995	550006	533435	0.970	1.26		
4.059	343387	326192	0.950	0.79		
4.137	145276	132173	0.910	0.33		
4.215	1486323	1403883	0.945	3.43		
4.262	1208004	1159133	0.960	2.78	6 Aroclor 1248	BA
4.293	511269	526568	1.030	1.17		
4.311	543428	513963	0.946	1.25		
4.418	1823450	1718104	0.942	4.20		
4.452	908943	795006	0.875	2.09		
4.546	2136003	1914178	0.896	4.92	6 Aroclor 1248	BA
4.588	34235	33628	0.982	0.07		
4.618	485337	462281	0.952	1.12		
4.680	28053	23489	0.837	0.06		
4.728	63611	50641	0.796	0.14		
4.769	114596	110060	0.960	0.26		
4.813	1072572	1047618	0.977	2.47	6 Aroclor 1248	BA
4.848	2019974	1872521	0.927	4.66		
4.880	2628588	1729939	0.658	6.06	6 Aroclor 1248	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.958	300549	254865	0.848	0.69	
5.037	1890857	1718796	0.909	4.36	6 Aroclor 1248
5.099	658439	515140	0.782	1.51	
5.163	778429	704282	0.905	1.79	
5.212	561933	511880	0.911	1.29	
5.284	37417	36848	0.985	0.08	
5.309	124762	104101	0.834	0.28	
5.364	496549	440266	0.887	1.14	
5.408	826216	719936	0.871	1.90	
5.446	528194	462528	0.876	1.21	
5.510	1373479	1108021	0.807	3.16	
5.604	398982	348600	0.874	0.92	
5.675	36019	29954	0.832	0.08	
5.717	78189	59388	0.760	0.18	
5.739	98549	89525	0.908	0.22	
5.793	935796	748637	0.800	2.15	
5.889	98768	81563	0.826	0.22	
5.996	31650	25516	0.806	0.07	
6.024	912880	698617	0.765	2.10	
6.169	70680	48903	0.692	0.16	
6.228	45926	27843	0.606	0.10	
6.301	222697	182730	0.821	0.51	
6.335	46487	36946	0.795	0.10	
6.372	40036	31572	0.789	0.09	
6.512	15047	14089	0.936	0.03	
6.536	93754	63840	0.681	0.21	
6.607	16189	11424	0.706	0.03	
6.719	21159	16941	0.801	0.04	
6.759	10928	9914	0.907	0.02	
6.804	35912	32894	0.916	0.08	
7.005	37431	32956	0.880	0.08	
7.126	11973	10422	0.870	0.02	
7.253	25115	21545	0.858	0.05	
7.683	12978	7477	0.576	0.02	
7.730	34860	28466	0.817	0.08	
7.799	36493	21426	0.587	0.08	
7.900	14089	11492	0.816	0.03	
8.274	45874	41456	0.904	0.10	
8.380	17315	11279	0.651	0.03	
8.571	5173433	4424436	0.855	11.93	$ 12 Decachlorobiphenyl
8.940	12157	9669	0.795	0.02	
9.960	18949	14032	0.741	0.04	
	43330043	38425916		100.000	

Total unknown % area = 53

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618074.D
Lab Smp Id: 1248-ICV Client Smp ID: 1248-ICV
Inj Date : 06-MAR-2018 20:44
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-icv, 185563:1
Misc Info : 17498,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 38 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1248.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	5899761	0.05000	0.048			
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	1208003	0.50000	0.52	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	2136003	0.50000	0.51	0.00- 20.00	176.82	BA
4.813	4.812	0.001	1072571	0.50000	0.53	0.00- 20.00	88.79	BA
4.879	4.879	0.000	2628587	0.50000	0.52	0.00- 20.00	217.60	BA
5.037	5.038	-0.001	1890857	0.50000	0.53	0.00- 20.00	156.53	BA
Average of Peak Amounts =					0.52200			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	5173433	0.05000	0.047			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618074.D

Date : 06-MAR-2018 20:44

Client ID: 1248-ICV

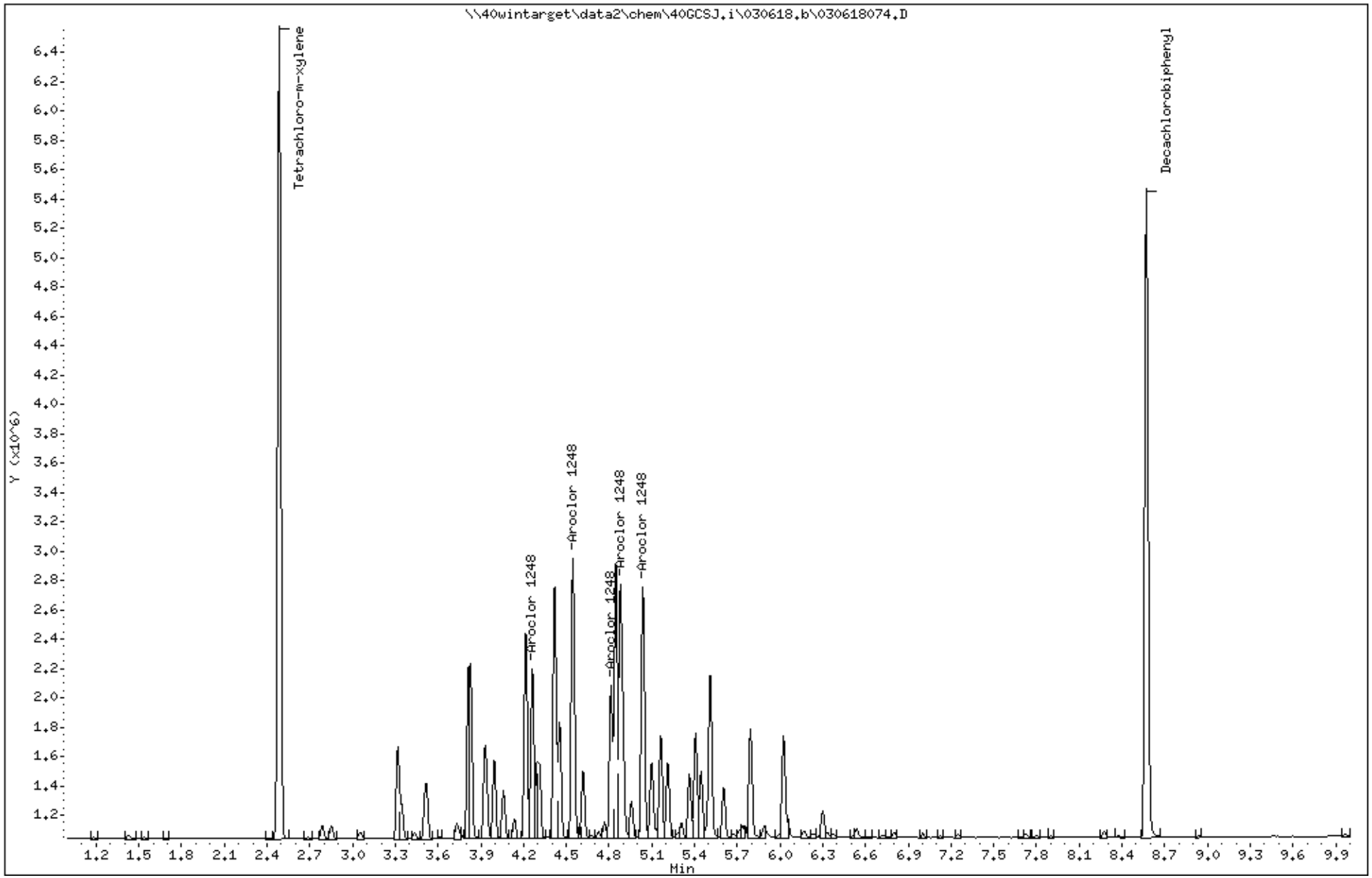
Instrument: 40GCSJ.i

Sample Info: 1248-ICV, 185563:1

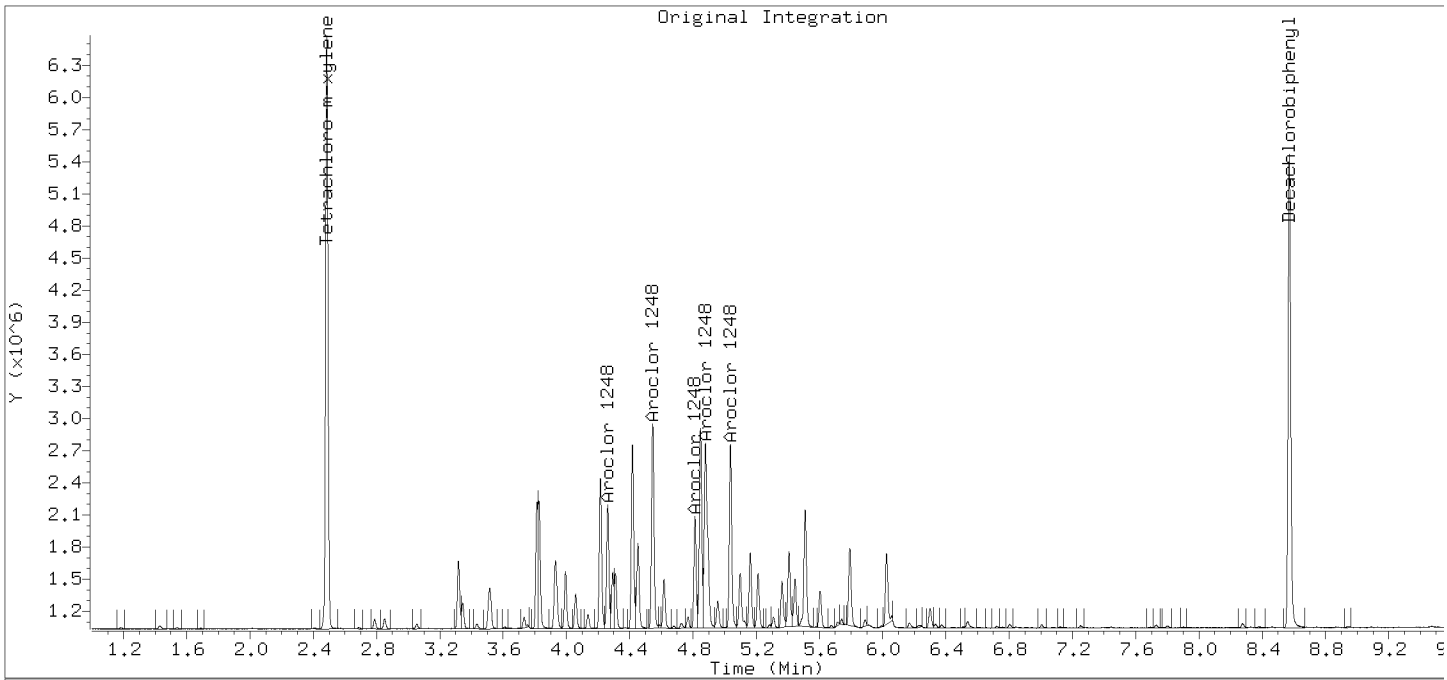
Operator: BLM

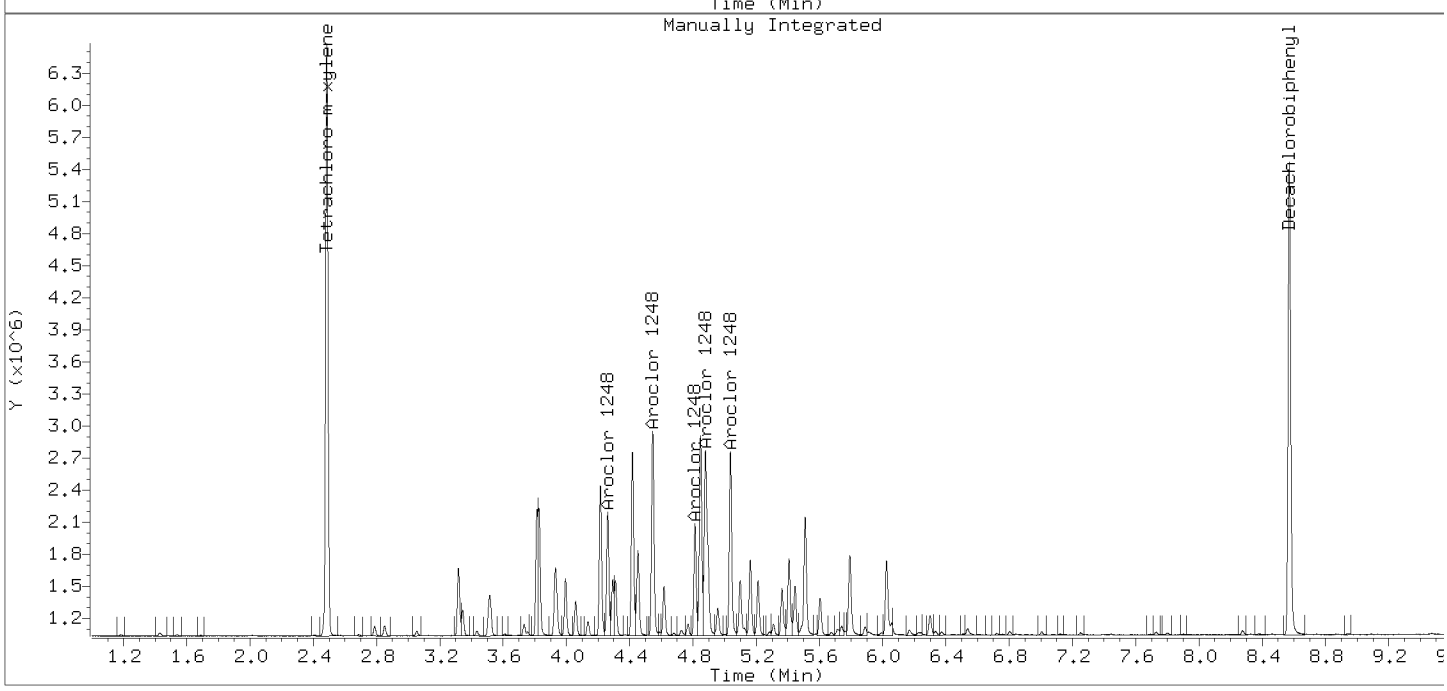
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618074.D (ManInt: AR1248.sub Orig: AR1248.sub)
Injection Date: 06-MAR-2018 20:44 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1248-ICV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1248	1202018	1208003	BA
Aroclor 1248	1202018	1208003	BA
Aroclor 1248	1202018	1208003	BA
Aroclor 1248	1202018	1208003	BA
Aroclor 1248	1202018	1208003	BA
Tetrachloro-m-xylene	5899761	5899761	
Decachlorobiphenyl	5173433	5173433	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618076.D
Lab Smp Id: 1254-ICV Client Smp ID: 1254-ICV
Inj Date : 06-MAR-2018 21:00
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-icv, 185564:1
Misc Info : 17498,AR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 39 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1254.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.181	11241	11145	0.991	0.02		
1.429	37023	29359	0.793	0.07		
1.536	18870	14547	0.771	0.03		
2.485	5956441	5624399	0.944	12.17	$ 2 Tetrachloro-m-xylene	
2.787	83932	83545	0.995	0.16		
2.847	23487	12751	0.543	0.04		
3.053	22053	16758	0.760	0.04		
3.320	24424	22137	0.906	0.04		
3.343	16533	14772	0.894	0.03		
3.511	21956	15136	0.689	0.04		
3.610	23047	18723	0.812	0.04		
3.813	73837	44648	0.605	0.14		
3.936	54806	35146	0.641	0.10		
3.991	21322	19067	0.894	0.04		
4.057	16084	14470	0.900	0.03		
4.216	1104737	1042404	0.944	2.18		
4.261	294439	287244	0.976	0.58		
4.293	55355	38898	0.703	0.10		
4.417	645490	619185	0.959	1.27		
4.453	65034	55154	0.848	0.12		
4.546	297966	280995	0.943	0.58		
4.590	13297	14947	1.124	0.02		
4.615	52626	43507	0.827	0.10		
4.682	14760	14823	1.004	0.02		
4.769	19864	18032	0.908	0.03		
4.813	255256	243907	0.956	0.50		
4.848	954635	917189	0.961	1.88		
4.895	2240553	1806193	0.806	4.42		
4.957	378746	331044	0.874	0.74		
5.039	197483	178932	0.906	0.39		
5.100	1331660	1130632	0.849	2.63		
5.163	2454299	2245562	0.915	4.84	7 Aroclor 1254	BA
5.212	1112261	987906	0.888	2.19		
5.285	62054	59649	0.961	0.12		
5.310	206656	186551	0.903	0.40		
5.363	957753	888665	0.928	1.89		
5.407	2011999	1826444	0.908	3.97	7 Aroclor 1254	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.445	683522	603976	0.884	1.35	
5.478	263671	258349	0.980	0.52	
5.510	3557061	3172502	0.892	7.02	7 Aroclor 1254
5.577	41056	36384	0.886	0.08	
5.605	496084	429134	0.865	0.98	
5.676	353874	332146	0.939	0.69	
5.711	557893	345779	0.620	1.10	
5.741	316074	271838	0.860	0.62	
5.790	3702485	2959912	0.799	7.31	
5.885	349557	271841	0.778	0.69	
5.928	191368	119957	0.627	0.37	
5.994	332278	306209	0.922	0.65	
6.027	2279656	1881319	0.825	4.50	7 Aroclor 1254
6.055	1742805	1415445	0.812	3.44	
6.169	710083	597581	0.842	1.40	
6.228	301903	298212	0.988	0.59	
6.242	317472	282700	0.890	0.62	
6.300	3175762	2557382	0.805	6.27	7 Aroclor 1254
6.335	613369	538823	0.878	1.21	
6.374	338945	280771	0.828	0.66	
6.441	98349	54990	0.559	0.19	
6.487	20933	19173	0.916	0.04	
6.510	122159	127890	1.047	0.24	
6.537	1093807	836036	0.764	2.16	
6.606	171691	137034	0.798	0.33	
6.662	39774	29158	0.733	0.07	
6.720	225492	189217	0.839	0.44	
6.760	134652	118490	0.880	0.26	
6.802	627925	538577	0.858	1.24	
6.843	186255	113960	0.612	0.36	
6.943	65536	50712	0.774	0.12	
7.006	455898	370505	0.813	0.90	
7.074	28987	20562	0.709	0.05	
7.121	17906	16606	0.927	0.03	
7.253	362457	317889	0.877	0.71	
7.281	86561	71028	0.821	0.17	
7.390	15134	15178	1.003	0.02	
7.445	25464	19955	0.784	0.05	
7.555	25575	19764	0.773	0.05	
7.692	17214	14547	0.845	0.03	
7.731	30335	26152	0.862	0.05	
7.802	25782	20334	0.789	0.05	
7.898	15405	15400	1.000	0.03	
8.277	51144	41782	0.817	0.10	
8.571	5194608	4290400	0.826	10.26	$ 12 Decachlorobiphenyl
9.963	10137	8532	0.842	0.02	
	50606079	43638597		100.000	

Total unknown % area = 51

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618076.D
Lab Smp Id: 1254-ICV Client Smp ID: 1254-ICV
Inj Date : 06-MAR-2018 21:00
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-icv, 185564:1
Misc Info : 17498,AR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 39 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1254.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	5956440	0.05000	0.048			
7 Aroclor 1254					CAS #: 11097-69-1			
5.162	5.162	0.000	2454298	0.50000	0.47	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	2011998	0.50000	0.47	0.00- 20.00	81.98	BA
5.510	5.510	0.000	3557060	0.50000	0.46	0.00- 20.00	144.93	BA
6.026	6.027	-0.001	2279656	0.50000	0.47	0.00- 20.00	92.88	BA
6.299	6.299	0.000	3175761	0.50000	0.49	0.00- 20.00	129.40	BA
Average of Peak Amounts =					0.47200			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	5194608	0.05000	0.047			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618076.D

Date : 06-MAR-2018 21:00

Client ID: 1254-ICV

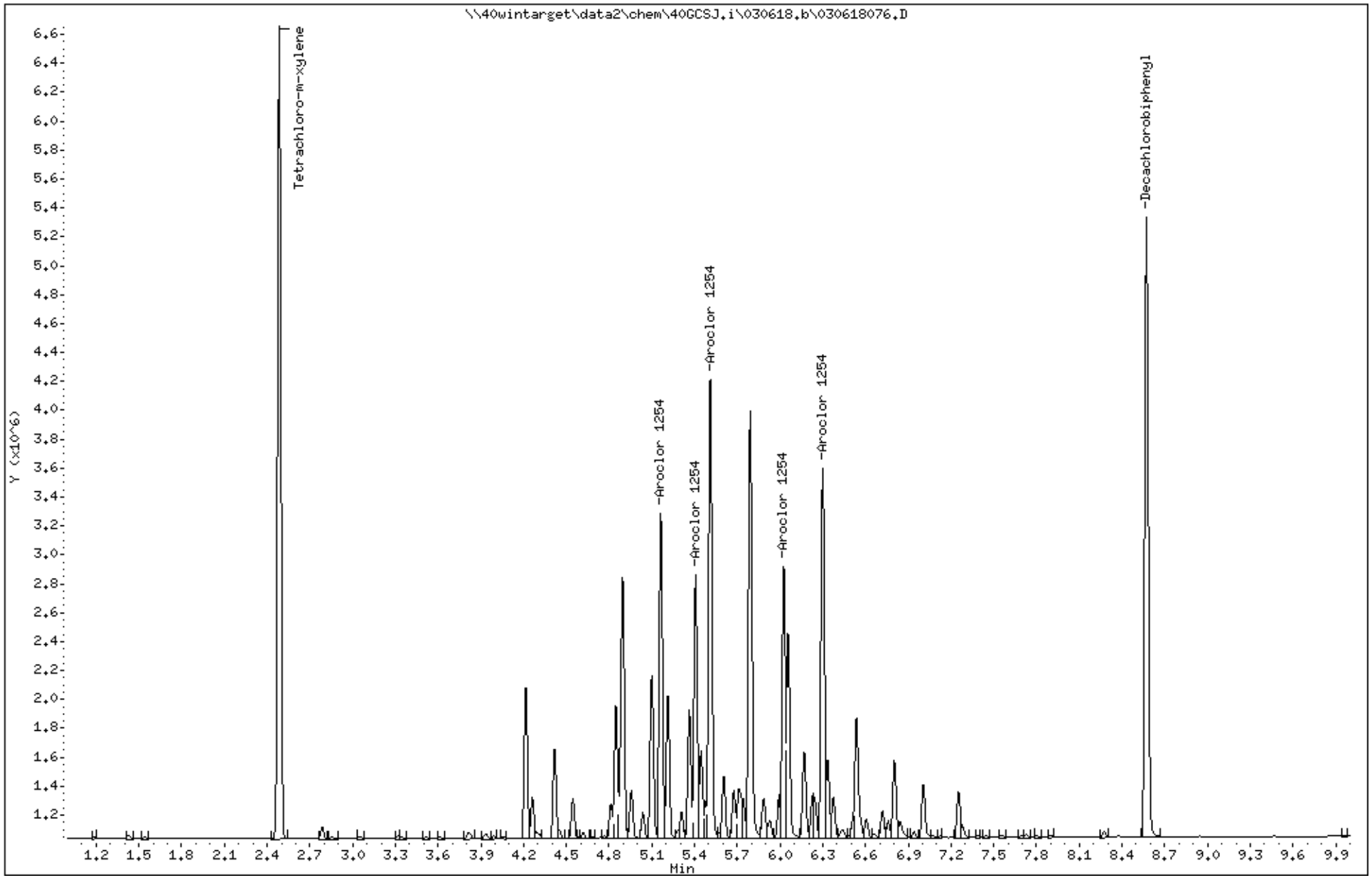
Instrument: 40GCSJ.i

Sample Info: 1254-ICV, 185564:1

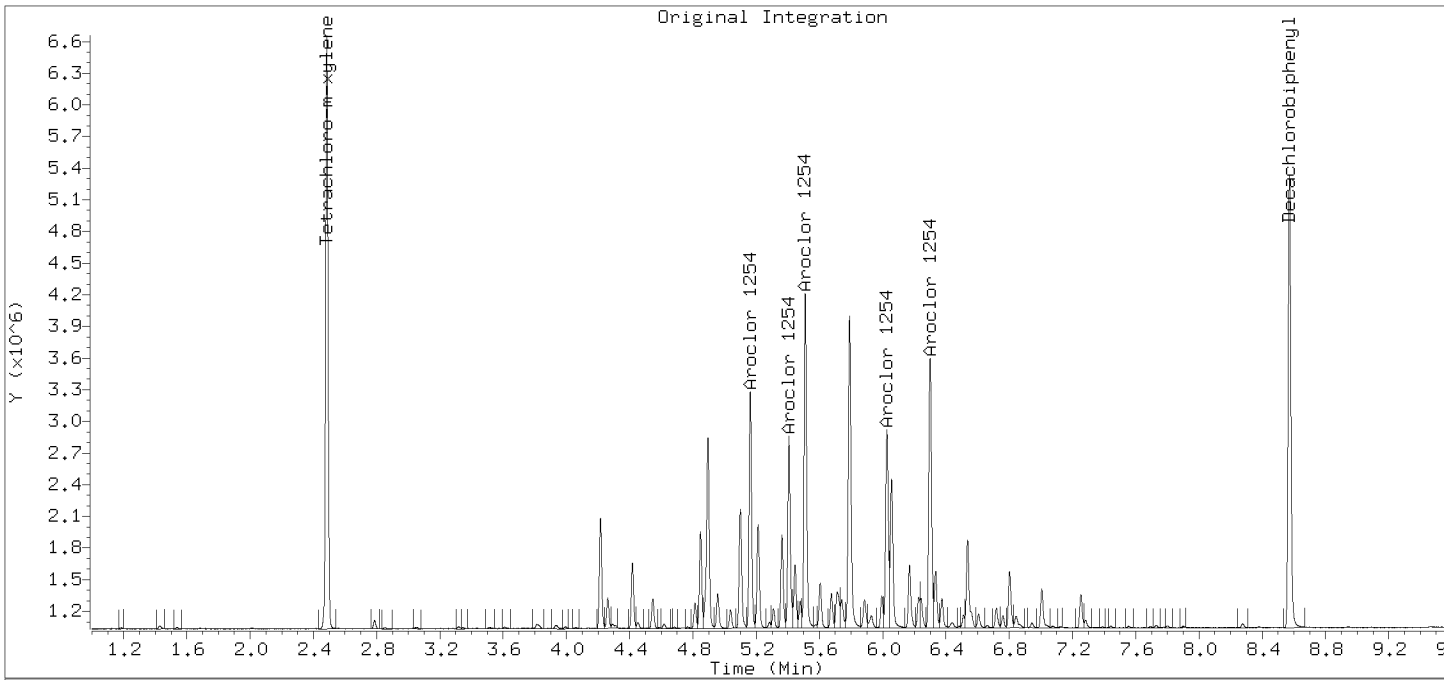
Operator: BLM

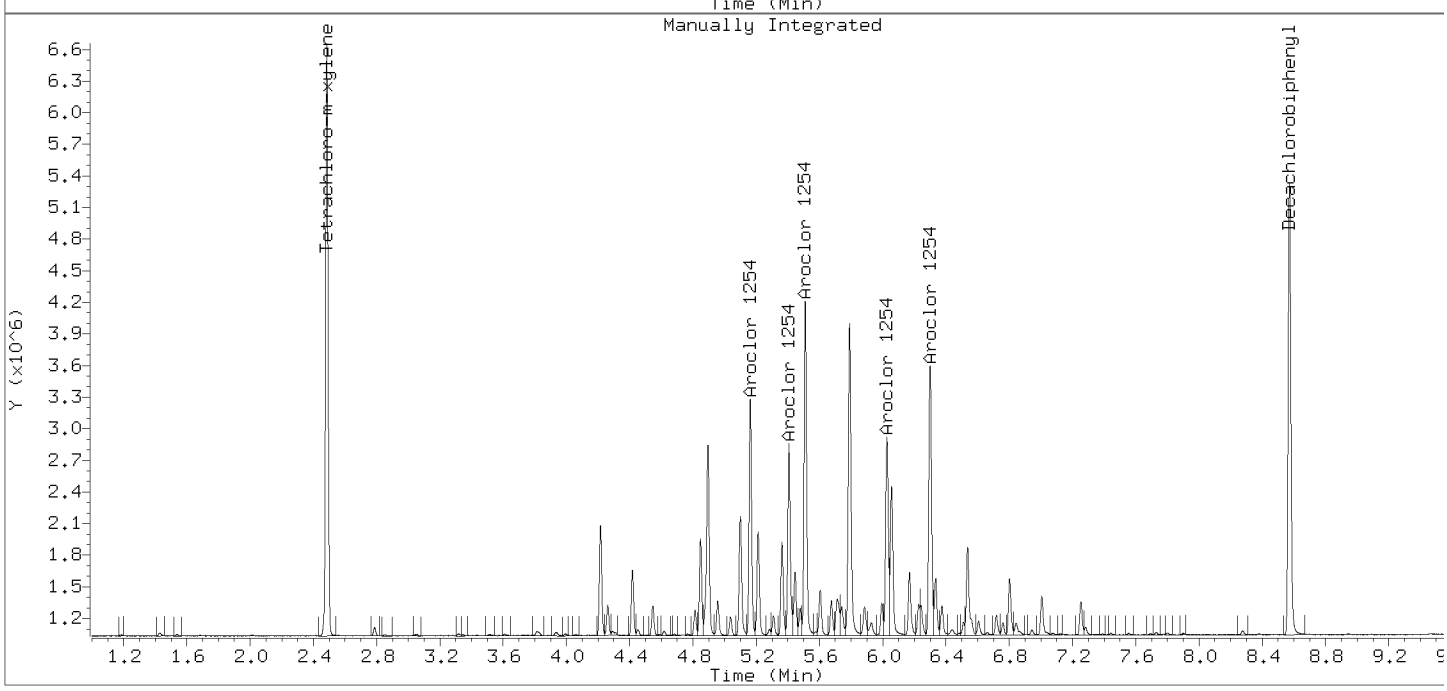
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618076.D (ManInt: AR1254.sub Orig: AR1254.sub)
Injection Date: 06-MAR-2018 21:00 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1254-ICV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1254	2444116	2454298	BA
Aroclor 1254	2444116	2454298	BA
Aroclor 1254	2444116	2454298	BA
Aroclor 1254	2444116	2454298	BA
Aroclor 1254	2444116	2454298	BA
Tetrachloro-m-xylene	5956440	5956440	
Decachlorobiphenyl	5194608	5194608	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618078.D
Lab Smp Id: 1660-ICV Client Smp ID: 1660-ICV
Inj Date : 06-MAR-2018 21:16
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-icv, 185565:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 40 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.182	21221	17184	0.810	0.02		
1.431	40838	31713	0.777	0.04		
1.536	17776	15618	0.879	0.02		
1.804	13311	13960	1.049	0.01		
2.011	10268	7617	0.742	0.01		
2.405	140776	109473	0.778	0.16		
2.484	5932090	5726918	0.965	7.56	$ 2 Tetrachloro-m-xylene	
2.687	201068	164753	0.819	0.24		
2.788	295756	279701	0.946	0.35		
2.851	1113041	1029534	0.925	1.33		
3.055	169967	158668	0.934	0.20		
3.277	24278	19456	0.801	0.02		
3.317	1575915	1463198	0.928	1.88	5 Aroclor 1016	BA
3.344	915512	854579	0.933	1.09		
3.435	250094	229311	0.917	0.29		
3.513	1583523	1159648	0.732	1.89	5 Aroclor 1016	BA
3.610	21286	19905	0.935	0.02		
3.645	25464	17411	0.684	0.03		
3.696	44251	42008	0.949	0.05		
3.732	398780	398305	0.999	0.47		
3.756	256467	255771	0.997	0.30		
3.827	4508685	2620847	0.581	5.39	5 Aroclor 1016	BA
3.929	1926630	1599827	0.830	2.30	5 Aroclor 1016	BA
3.994	1286237	1237455	0.962	1.54	5 Aroclor 1016	BA
4.058	377180	342508	0.908	0.45		
4.136	150296	140468	0.935	0.17		
4.214	1102455	1039229	0.943	1.32		
4.261	1029907	980757	0.952	1.23		
4.293	425562	439845	1.034	0.50		
4.310	540061	519083	0.961	0.64		
4.370	26189	19343	0.739	0.03		
4.417	1387264	1301927	0.938	1.66		
4.453	895338	753232	0.841	1.07		
4.545	1576424	1430306	0.907	1.88		
4.591	17433	23996	1.376	0.02		
4.618	301465	279443	0.927	0.36		
4.680	19837	14137	0.713	0.02		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.728	37013	29354	0.793	0.04	
4.768	30417	27693	0.910	0.03	
4.814	156037	149062	0.955	0.18	
4.848	239300	233617	0.976	0.28	
4.895	1221737	985481	0.807	1.46	
4.958	58840	41257	0.701	0.07	
5.037	85057	75952	0.893	0.10	
5.100	246503	215312	0.873	0.29	
5.163	1183240	1075758	0.909	1.41	
5.212	41947	29637	0.707	0.05	
5.310	13373	10637	0.795	0.01	
5.363	57749	52832	0.915	0.06	
5.407	268815	254856	0.948	0.32	
5.446	13974	15175	1.086	0.01	
5.478	527498	492186	0.933	0.63	
5.510	745390	669137	0.898	0.89	
5.576	10212	10260	1.005	0.01	
5.603	17026	12475	0.733	0.02	
5.676	1384577	1280481	0.925	1.65	
5.710	943302	526346	0.558	1.12	
5.786	3233298	2804467	0.867	3.87	
5.882	208249	189092	0.908	0.24	
5.930	96479	76874	0.797	0.11	
5.993	545401	501421	0.919	0.65	
6.029	1181491	1139915	0.965	1.41	
6.055	3616031	3141367	0.869	4.33	
6.169	2379439	1526966	0.642	2.84	
6.256	501646	311664	0.621	0.60	
6.301	4216761	3413991	0.810	5.04	8 Aroclor 1260
6.334	589361	516529	0.876	0.70	
6.373	133856	105313	0.787	0.16	
6.433	474923	416467	0.877	0.56	
6.486	96367	124001	1.287	0.11	
6.510	2278472	2020249	0.887	2.72	
6.535	319186	362341	1.135	0.38	
6.561	1371229	1239953	0.904	1.64	
6.606	126514	100966	0.798	0.15	
6.661	435030	401966	0.924	0.52	
6.718	2436948	2139504	0.878	2.91	
6.760	1379678	1221074	0.885	1.65	
6.803	1012423	886702	0.876	1.21	
6.839	204549	179535	0.878	0.24	
6.867	101951	86190	0.845	0.12	
6.915	150840	138650	0.919	0.18	
6.944	471585	431542	0.915	0.56	
7.006	5169251	4474270	0.866	6.18	8 Aroclor 1260
7.035	349824	352477	1.008	0.41	
7.076	161438	129444	0.802	0.19	
7.122	226639	191125	0.843	0.27	
7.252	2431978	2174432	0.894	2.91	8 Aroclor 1260
7.282	689708	552481	0.801	0.82	
7.391	1295375	1038752	0.802	1.55	
7.443	1492830	1281759	0.859	1.78	8 Aroclor 1260
7.554	105447	79274	0.752	0.12	
7.692	611618	562958	0.920	0.73	
7.728	153573	121839	0.793	0.18	
7.801	84844	63857	0.753	0.10	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.902	1408195	1200861	0.853	1.68	8 Aroclor 1260
7.965	99066	72839	0.735	0.11	
8.277	469900	412226	0.877	0.56	
8.379	12566	10774	0.857	0.01	
8.571	5248206	4347540	0.828	6.28	$ 12 Decachlorobiphenyl
8.945	16720	11361	0.679	0.02	
9.471	16512	10298	0.624	0.01	
	83510046	71509948		100.000	

Total unknown % area = 56

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618078.D
Lab Smp Id: 1660-ICV Client Smp ID: 1660-ICV
Inj Date : 06-MAR-2018 21:16
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-icv, 185565:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 40 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	5932090	0.05000	0.048			
5 Aroclor 1016					CAS #: 12674-11-2			
3.317	3.318	-0.001	1575914	0.50000	0.51	0.00- 20.00	100.00(M)	BA
3.512	3.512	0.000	1583522	0.50000	0.51	0.00- 20.00	100.48	BA
3.826	3.826	0.000	4508685	0.50000	0.51	0.00- 20.00	286.10	BA
3.928	3.929	-0.001	1926630	0.50000	0.51	0.00- 20.00	122.25	BA
3.994	3.994	0.000	1286237	0.50000	0.49	0.00- 20.00	81.62	BA
Average of Peak Amounts =					0.50600			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	4216761	0.50000	0.48	0.00- 20.00	100.00(M)	CO
7.005	7.006	-0.001	5169251	0.50000	0.52	0.00- 20.00	122.59	CO
7.251	7.251	0.000	2431977	0.50000	0.51	0.00- 20.00	57.67	CO
7.442	7.443	-0.001	1492830	0.50000	0.51	0.00- 20.00	35.40	CO
7.901	7.901	0.000	1408195	0.50000	0.53	0.00- 20.00	33.40	CO
Average of Peak Amounts =					0.51000			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	5248206	0.05000	0.048			

QC Flag Legend

M - Compound response manually integrated.

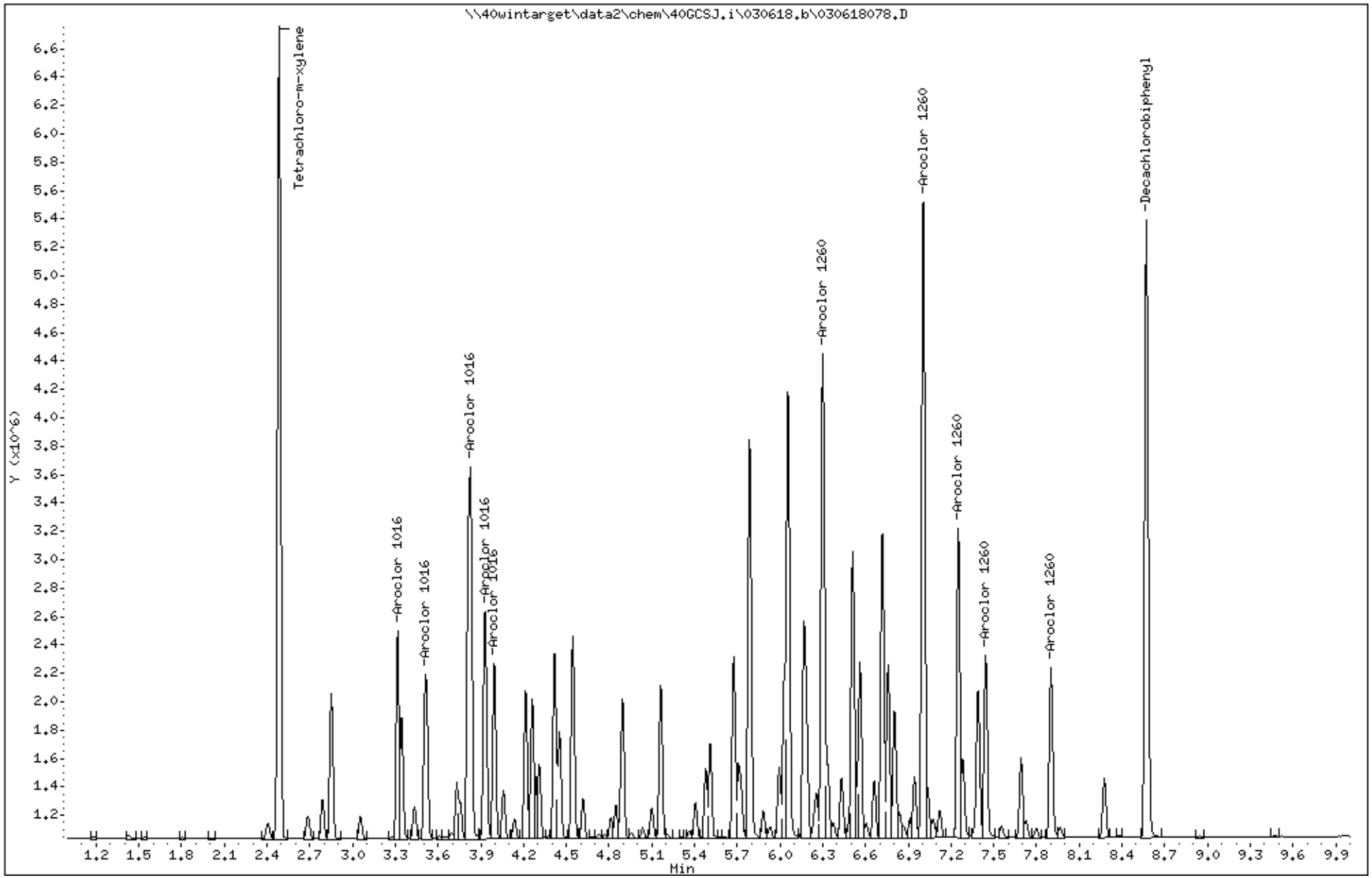
QC Flag Legend

Review Codes Legend

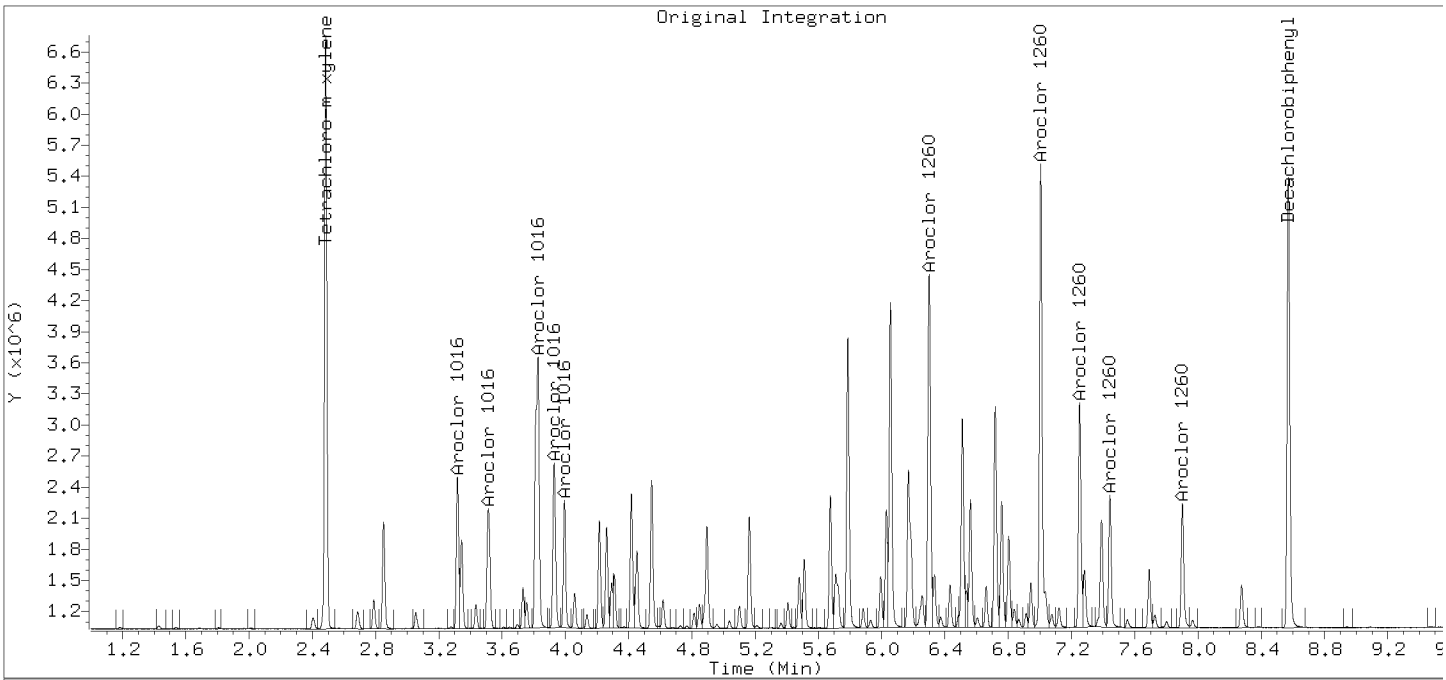
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

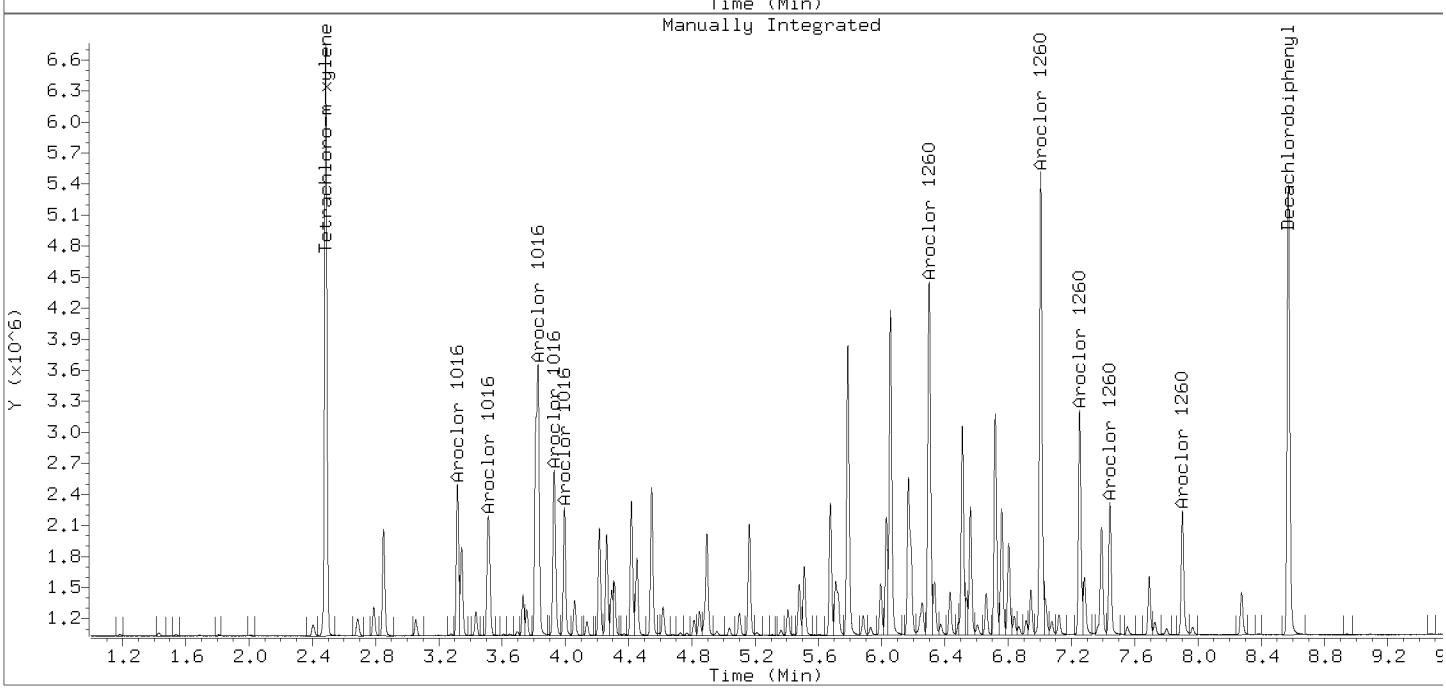
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618078.D
Date : 06-MAR-2018 21:16
Client ID: 1660-ICV
Sample Info: 1660-ICV, 185565:1

Instrument: 40GCSJ.i
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\042318.b\042318004.D
Lab Smp Id: 1232-CCV Client Smp ID: 1232-CCV
Inj Date : 23-APR-2018 13:43
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1232-ccv, 185539:1
Misc Info : 17498,AR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042318.b\pcba030618.m
Meth Date : 24-Apr-2018 13:17 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1232.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.185	59434	41595	0.700	0.21		
1.432	41309	31565	0.764	0.14		
1.537	14602	11529	0.790	0.05		
1.685	16726	16569	0.991	0.06		
1.806	305384	256142	0.839	1.10		
2.014	35252	22877	0.649	0.12		
2.197	82055	71865	0.876	0.29		
2.407	201825	147132	0.729	0.73		
2.485	6003689	5560629	0.926	22.20	$ 2 Tetrachloro-m-xylene	
2.689	444183	352723	0.794	1.61		
2.790	407324	365945	0.898	1.47		
2.851	1310525	1157201	0.883	4.75	4 Aroclor 1232	BA
3.028	16954	17492	1.032	0.06		
3.054	92237	76895	0.834	0.33		
3.281	68955	50146	0.727	0.24		
3.318	761982	665945	0.874	2.76		
3.345	420614	377221	0.897	1.52		
3.435	123063	107667	0.875	0.44		
3.514	694107	488215	0.703	2.51	4 Aroclor 1232	BA
3.609	23617	19324	0.818	0.08		
3.643	14625	10371	0.709	0.05		
3.693	26118	22135	0.848	0.09		
3.731	181840	173866	0.956	0.65		
3.756	121985	116249	0.953	0.44		
3.826	1915718	1103279	0.576	6.94	4 Aroclor 1232	BA
3.928	824326	677830	0.822	2.98	4 Aroclor 1232	BA
3.995	550442	504483	0.917	1.99	4 Aroclor 1232	BA
4.058	152403	134405	0.882	0.55		
4.136	65132	54797	0.841	0.23		
4.214	409273	374002	0.914	1.48		
4.261	394428	366711	0.930	1.42		
4.294	338464	191574	0.566	1.22		
4.418	550716	498369	0.905	1.99		
4.452	432376	315196	0.729	1.56		
4.546	711080	626884	0.882	2.57		
4.617	168646	151224	0.897	0.61		
4.677	18496	12417	0.671	0.06		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.725	38330	31683	0.827	0.13	
4.768	39288	35407	0.901	0.14	
4.813	302748	281431	0.930	1.09	
4.848	528815	494545	0.935	1.91	
4.879	707489	506132	0.715	2.56	
4.957	85292	60281	0.707	0.30	
5.038	566835	497434	0.878	2.05	
5.098	122552	88420	0.721	0.44	
5.161	133998	114760	0.856	0.48	
5.211	100055	80006	0.800	0.36	
5.308	25729	19621	0.763	0.09	
5.363	79635	69114	0.868	0.28	
5.408	140448	109697	0.781	0.50	
5.445	85945	74968	0.872	0.31	
5.510	224603	167895	0.748	0.81	
5.605	71508	56316	0.788	0.25	
5.676	16347	13137	0.804	0.05	
5.703	28085	17228	0.613	0.10	
5.740	19408	15218	0.784	0.07	
5.793	146899	102507	0.698	0.53	
5.890	16064	13835	0.861	0.05	
6.025	90744	75283	0.830	0.32	
6.169	16036	13691	0.854	0.05	
6.301	36425	30478	0.837	0.13	
6.445	15898	11137	0.701	0.05	
6.512	10230	13696	1.339	0.03	
6.721	18995	14800	0.779	0.06	
6.757	13083	8103	0.619	0.04	
6.802	9866	8600	0.872	0.03	
7.008	29566	21605	0.731	0.10	
7.127	42512	23010	0.541	0.15	
7.250	24888	13627	0.548	0.09	
7.443	10561	8929	0.845	0.03	
7.691	9462	11089	1.172	0.03	
7.728	35719	28343	0.793	0.12	
7.776	27972	20275	0.725	0.10	
7.800	32333	30065	0.930	0.11	
8.276	48869	41611	0.851	0.17	
8.377	52142	30776	0.590	0.18	
8.571	5253429	4339167	0.826	19.04	$ 12 Decachlorobiphenyl
8.939	57912	38132	0.658	0.20	
9.393	16698	14005	0.839	0.06	
9.412	22738	21631	0.951	0.08	
9.461	137857	48761	0.354	0.49	
9.957	94399	58399	0.619	0.34	
	27588316	22947317		100.000	

Total unknown % area = 40

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042318.b\042318004.D
Lab Smp Id: 1232-CCV Client Smp ID: 1232-CCV
Inj Date : 23-APR-2018 13:43
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1232-ccv, 185539:1
Misc Info : 17498,AR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042318.b\pcba030618.m
Meth Date : 24-Apr-2018 13:17 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1232.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	6003688	0.05000	0.049			
4 Aroclor 1232					CAS #: 1114-16-5			
2.851	2.851	0.000	1310524	0.50000	0.52	0.00- 20.00	100.00(M)	BA
3.513	3.513	0.000	694107	0.50000	0.52	0.00- 20.00	52.96	BA
3.826	3.827	-0.001	1915717	0.50000	0.51	0.00- 20.00	146.18	BA
3.928	3.929	-0.001	824325	0.50000	0.51	0.00- 20.00	62.90	BA
3.994	3.995	-0.001	550441	0.50000	0.50	0.00- 20.00	42.00	BA
Average of Peak Amounts =					0.51200			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	5253429	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\042318.b\042318004.D

Date : 23-APR-2018 13:43

Client ID: 1232-CCV

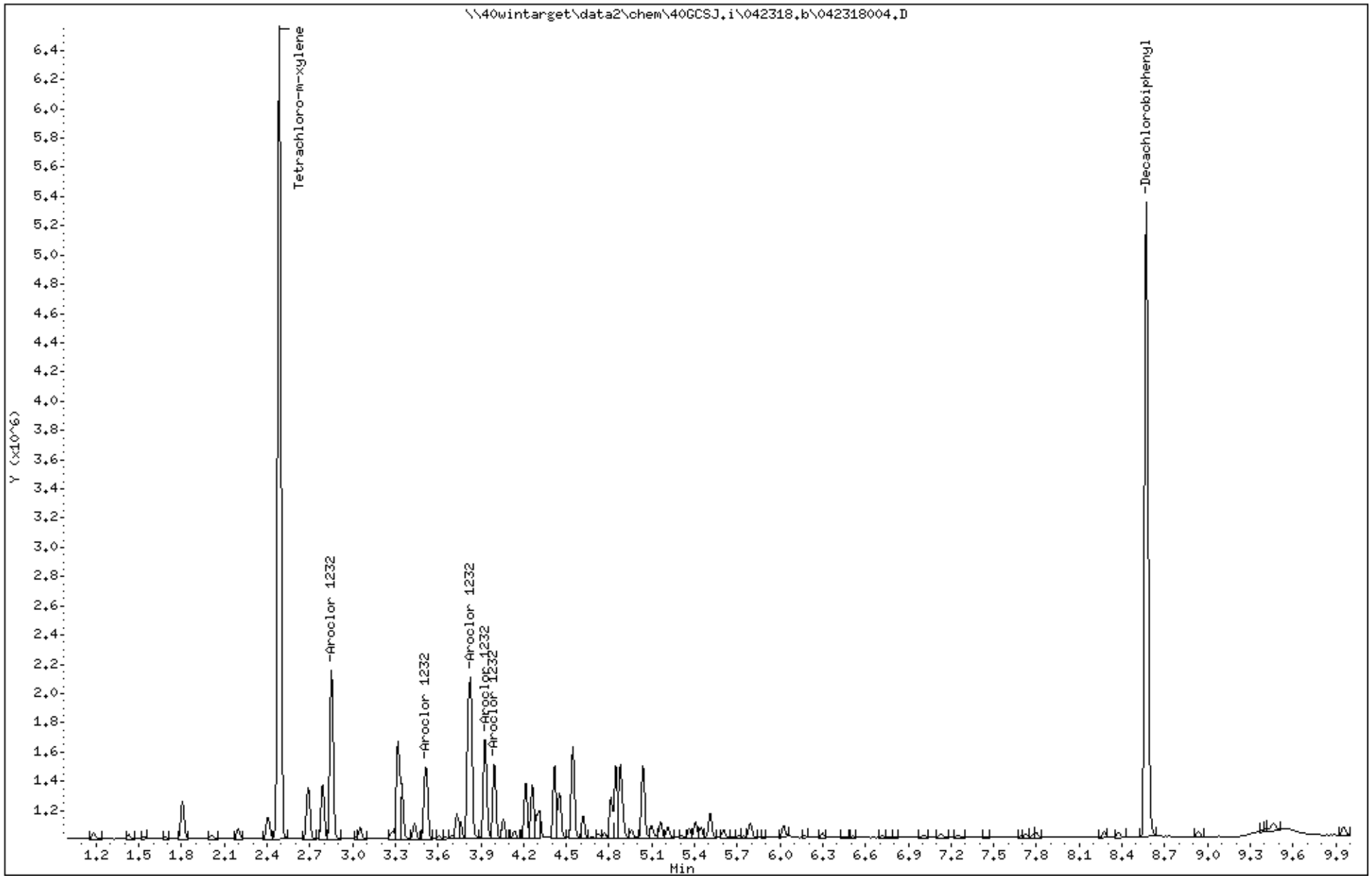
Instrument: 40GCSJ.i

Sample Info: 1232-CCV, 185539:1

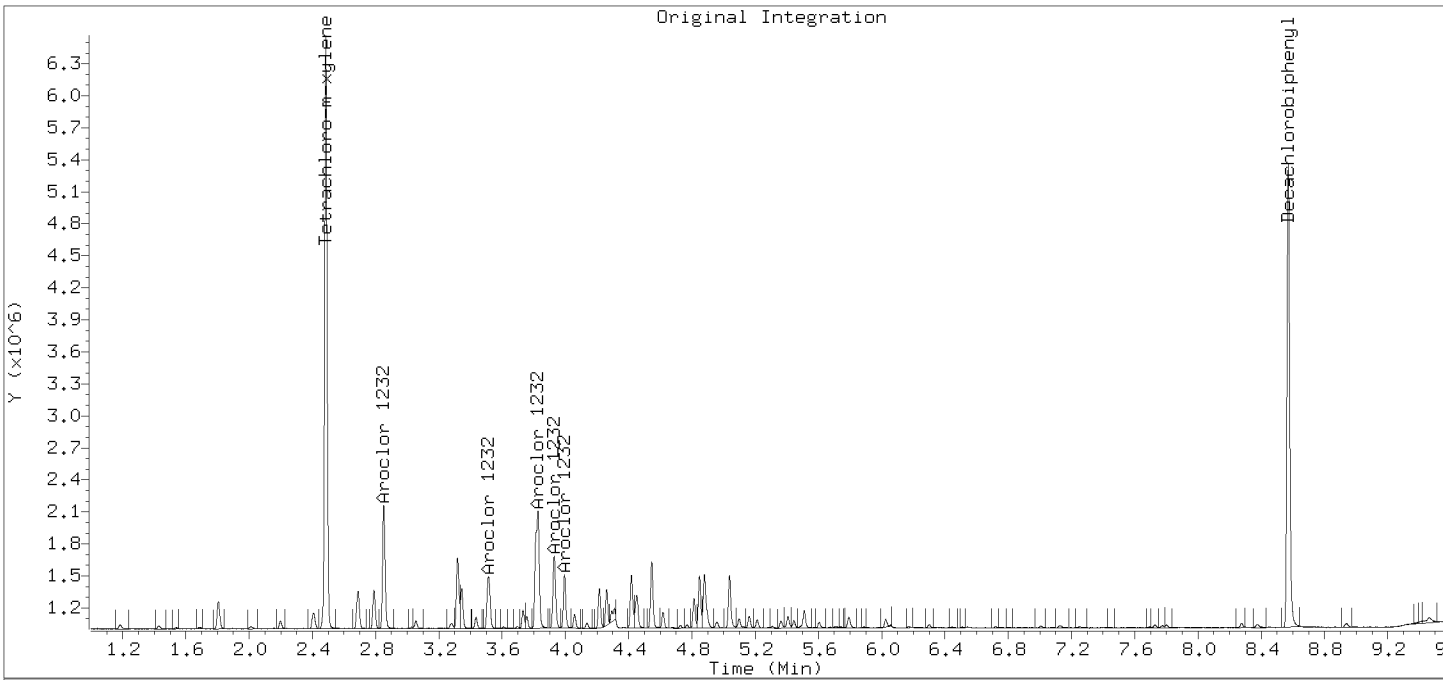
Operator: BLM

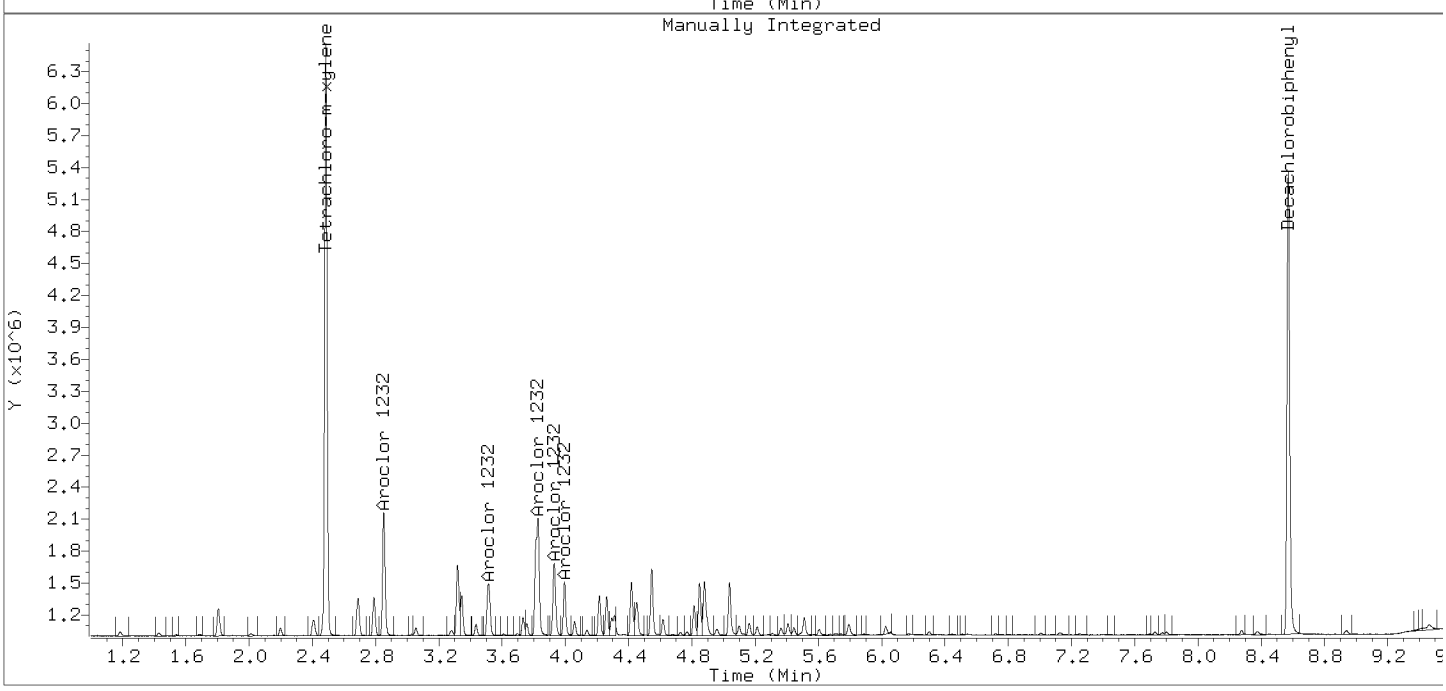
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\042318.b/042318004.D (ManInt: AR1232.sub Orig: AR1232.sub)
Injection Date: 23-APR-2018 13:43 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1232-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1232	1296817	1310524	BA
Aroclor 1232	1296817	1310524	BA
Aroclor 1232	1296817	1310524	BA
Aroclor 1232	1296817	1310524	BA
Aroclor 1232	1296817	1310524	BA
Tetrachloro-m-xylene	6003688	6003688	
Decachlorobiphenyl	5253429	5253429	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042318.b\042318016.D
Lab Smp Id: 1242-CCV Client Smp ID: 1242-CCV
Inj Date : 23-APR-2018 16:54
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-ccv, 185544:1
Misc Info : 17498,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042318.b\pcba030618.m
Meth Date : 24-Apr-2018 13:17 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 16 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1242.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.186	51248	35534	0.693	0.12		
1.430	45351	31863	0.703	0.10		
1.539	23098	14124	0.611	0.05		
1.687	21979	16009	0.728	0.05		
1.806	12554	11201	0.892	0.03		
2.008	30239	20235	0.669	0.07		
2.406	127436	92407	0.725	0.30		
2.486	6346872	5666023	0.893	15.70	$ 2 Tetrachloro-m-xylene	
2.687	190115	149149	0.785	0.45		
2.789	283795	253212	0.892	0.68		
2.851	999595	887545	0.888	2.41		
3.028	14577	14132	0.969	0.03		
3.054	150815	132583	0.879	0.36		
3.276	22242	17342	0.780	0.05		
3.318	1364682	1227175	0.899	3.29	3 Aroclor 1242	BA
3.344	786805	717679	0.912	1.89		
3.434	216543	192392	0.888	0.52		
3.514	1345622	970714	0.721	3.24	3 Aroclor 1242	BA
3.608	22128	20427	0.923	0.05		
3.645	19730	15695	0.795	0.04		
3.697	38852	37064	0.954	0.09		
3.731	333550	325885	0.977	0.80		
3.756	243049	210375	0.866	0.58		
3.826	3856411	2244141	0.582	9.29	3 Aroclor 1242	BA
3.929	1648081	1326219	0.805	3.97	3 Aroclor 1242	BA
3.994	1106806	1014109	0.916	2.66	3 Aroclor 1242	BA
4.058	330556	293296	0.887	0.79		
4.136	128118	112261	0.876	0.30		
4.214	909184	834458	0.918	2.19		
4.260	878069	826581	0.941	2.11		
4.293	369245	373934	1.013	0.89		
4.309	464404	418026	0.900	1.11		
4.372	28950	20872	0.721	0.06		
4.416	1196822	1114751	0.931	2.88		
4.452	949695	690257	0.727	2.28		
4.545	1561343	1412484	0.905	3.76		
4.617	359445	320647	0.892	0.86		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.677	29209	20292	0.695	0.07	
4.728	72614	62868	0.866	0.17	
4.768	86188	77404	0.898	0.20	
4.813	713224	673402	0.944	1.71	
4.847	1251657	1146574	0.916	3.01	
4.878	1619000	1173353	0.725	3.90	
4.957	189319	144510	0.763	0.45	
5.037	1318573	1161166	0.881	3.17	
5.098	291797	217159	0.744	0.70	
5.162	338287	297148	0.878	0.81	
5.212	257810	227055	0.881	0.62	
5.286	22801	19468	0.854	0.05	
5.308	59312	48475	0.817	0.14	
5.363	220858	174724	0.791	0.53	
5.406	362661	300998	0.830	0.87	
5.445	228901	194158	0.848	0.55	
5.509	588809	440099	0.747	1.41	
5.604	176159	146739	0.833	0.42	
5.716	42669	29405	0.689	0.10	
5.739	49222	39595	0.804	0.11	
5.792	419261	310647	0.741	1.01	
5.890	59720	36127	0.605	0.14	
5.996	12974	11839	0.913	0.03	
6.024	326182	260450	0.798	0.78	
6.056	72685	56492	0.777	0.17	
6.169	20446	17957	0.878	0.04	
6.226	18241	12972	0.711	0.04	
6.299	111072	92451	0.832	0.26	
6.332	22290	17838	0.800	0.05	
6.370	14901	13249	0.889	0.03	
6.534	46040	31936	0.694	0.11	
6.804	21985	19330	0.879	0.05	
7.006	11210	10291	0.918	0.02	
7.132	25593	13031	0.509	0.06	
7.727	23375	21740	0.930	0.05	
7.772	13150	10642	0.809	0.03	
7.800	23579	17435	0.739	0.05	
8.275	50036	42311	0.846	0.12	
8.376	22362	14816	0.663	0.05	
8.569	5729012	4748639	0.829	13.81	$ 12 Decachlorobiphenyl
8.939	20630	12372	0.600	0.04	
9.086	9744	8636	0.886	0.02	
	41471565	34436594		100.000	

Total unknown % area = 48

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042318.b\042318016.D
Lab Smp Id: 1242-CCV Client Smp ID: 1242-CCV
Inj Date : 23-APR-2018 16:54
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-ccv, 185544:1
Misc Info : 17498,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042318.b\pcba030618.m
Meth Date : 24-Apr-2018 13:17 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 16 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1242.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	6346872	0.05000	0.051			
3 Aroclor 1242					CAS #: 53469-21-9			
3.318	3.318	0.000	1364681	0.50000	0.54	0.00- 20.00	100.00(M)	BA
3.514	3.513	0.001	1345621	0.50000	0.53	0.00- 20.00	98.60	BA
3.826	3.827	-0.001	3856411	0.50000	0.54	0.00- 20.00	282.59	BA
3.929	3.929	0.000	1648081	0.50000	0.54	0.00- 20.00	120.77	BA
3.994	3.995	-0.001	1106806	0.50000	0.54	0.00- 20.00	81.10	BA
Average of Peak Amounts =					0.53800			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	5729012	0.05000	0.052			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

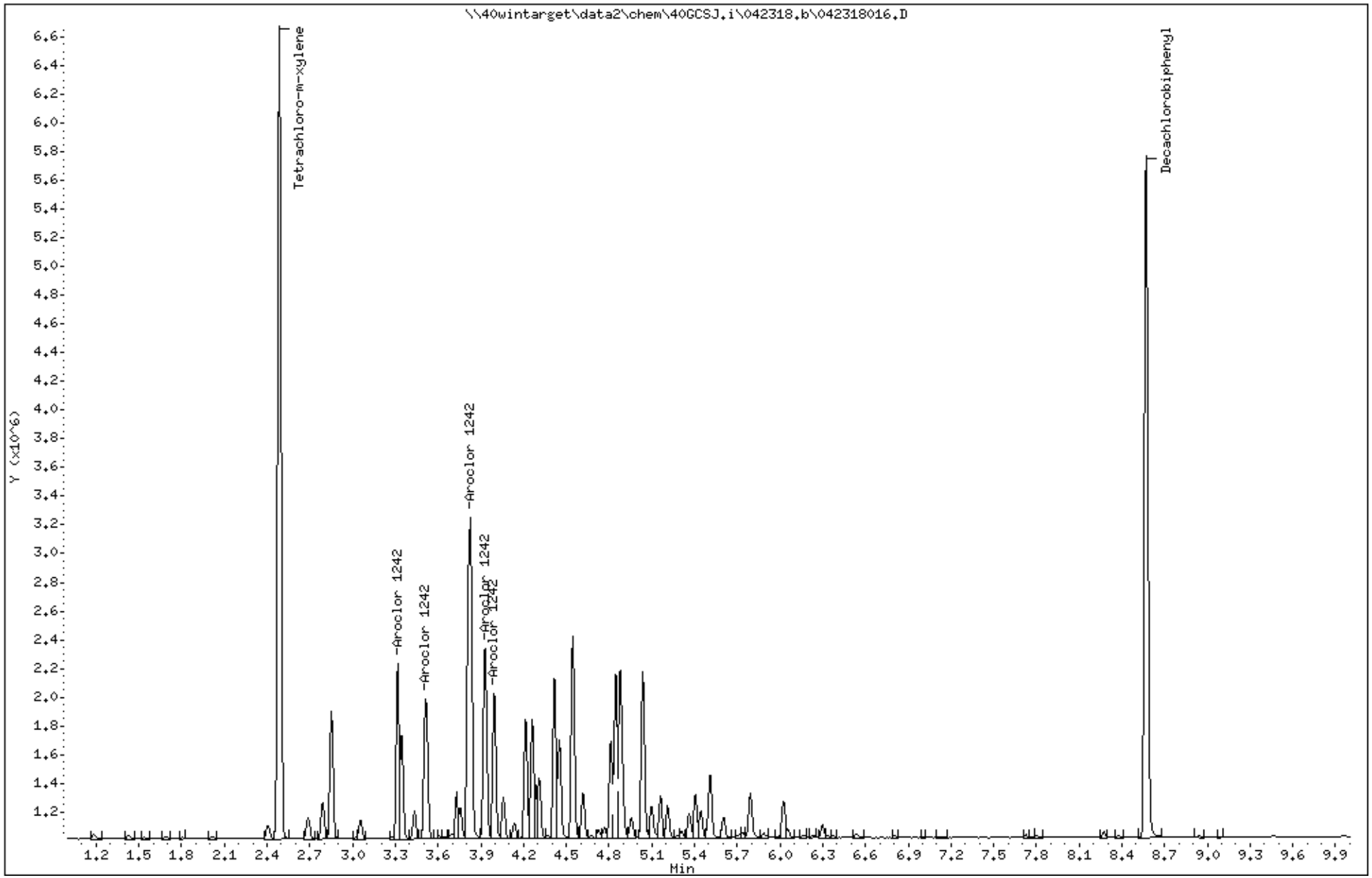
Data File: \\40wintarget\data2\chem\40GCSJ.i\042318.b\042318016.D
Date : 23-APR-2018 16:54
Client ID: 1242-CCV
Sample Info: 1242-CCV, 185544:1

Instrument: 40GCSJ.i

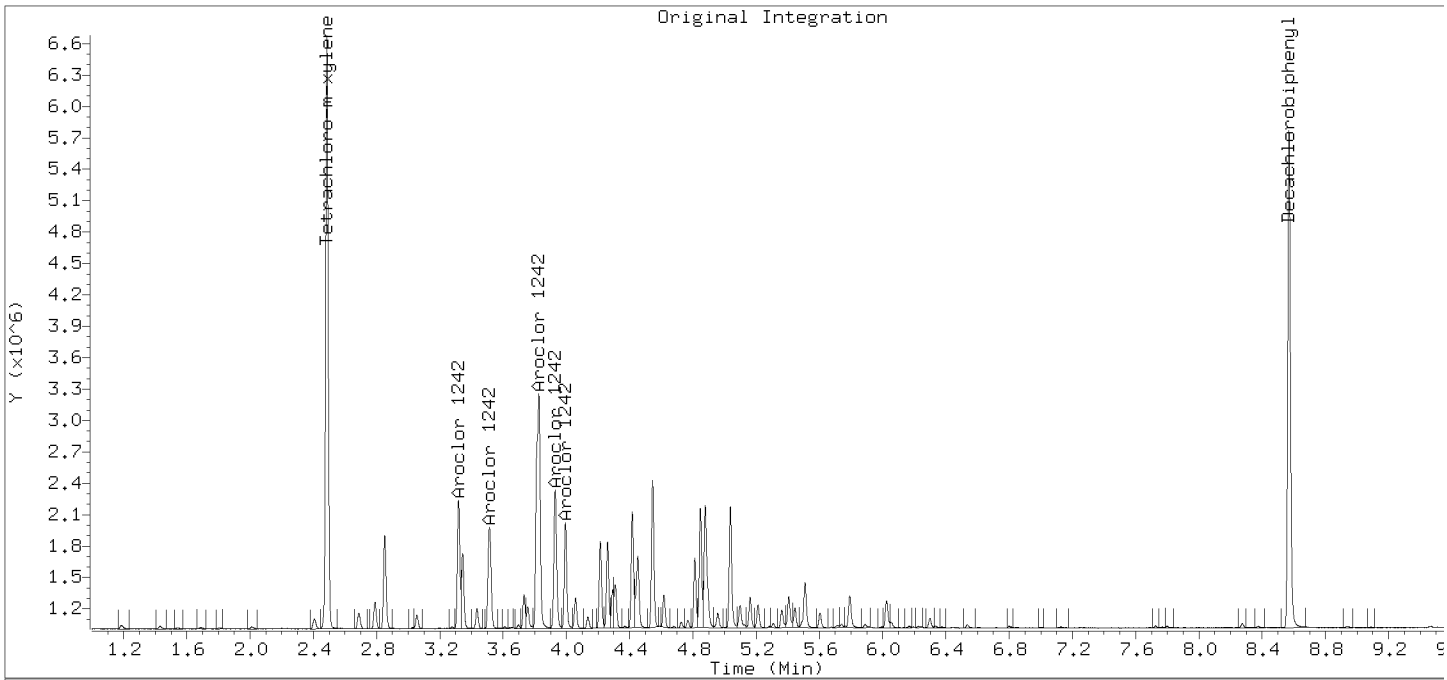
Operator: BLM

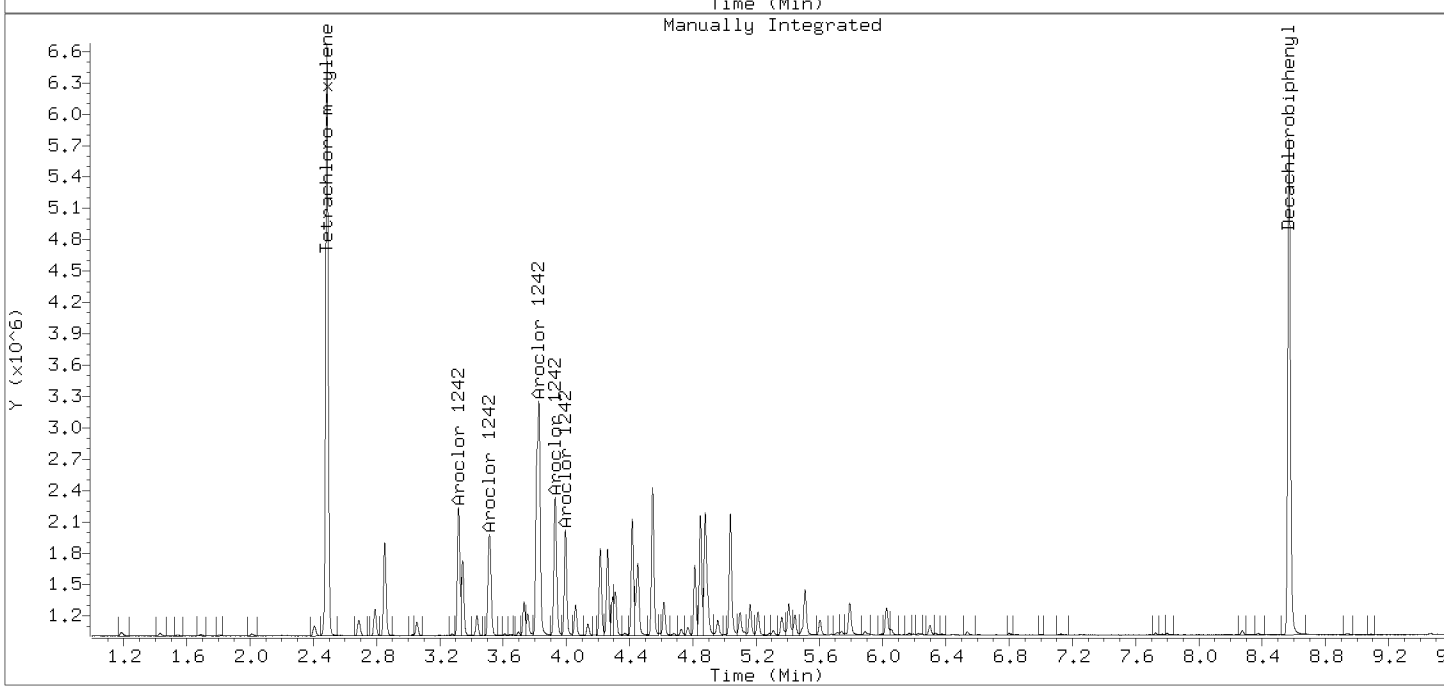
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\042318.b/042318016.D (ManInt: AR1242.sub Orig: AR1242.sub)
Injection Date: 23-APR-2018 16:54 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1242-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1242	1358675	1364681	BA
Aroclor 1242	1358675	1364681	BA
Aroclor 1242	1358675	1364681	BA
Aroclor 1242	1358675	1364681	BA
Aroclor 1242	1358675	1364681	BA
Tetrachloro-m-xylene	6346872	6346872	
Decachlorobiphenyl	5729012	5729012	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042318.b\042318028.D
Lab Smp Id: 1248-CCV Client Smp ID: 1248-CCV
Inj Date : 23-APR-2018 20:04
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-ccv, 185549:1
Misc Info : 17498,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042318.b\pcba030618.m
Meth Date : 24-Apr-2018 13:17 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 28 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1248.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.184	20715	16347	0.789	0.04		
1.430	37963	31208	0.822	0.08		
1.540	21775	14945	0.686	0.04		
1.688	19828	18217	0.919	0.04		
2.404	23853	18850	0.790	0.05		
2.484	6035784	5660839	0.938	13.74	$ 2 Tetrachloro-m-xylene	
2.686	35638	26541	0.745	0.07		
2.786	113955	106484	0.934	0.25		
2.850	191894	176653	0.921	0.42		
3.052	65641	53878	0.821	0.14		
3.318	725474	687389	0.948	1.60		
3.343	310109	283940	0.916	0.68		
3.435	65797	58599	0.891	0.14		
3.515	603762	434612	0.720	1.33		
3.610	22157	19832	0.895	0.04		
3.732	137213	133916	0.976	0.30		
3.754	70754	57046	0.806	0.15		
3.814	1019900	1248050	1.224	2.24		
3.826	1438528	1316095	0.915	3.17		
3.929	928231	708337	0.763	2.04		
3.994	609918	572708	0.939	1.34		
4.058	362958	321689	0.886	0.80		
4.136	148606	136694	0.920	0.32		
4.214	1521575	1415955	0.931	3.35		
4.260	1213612	1157286	0.954	2.67	6 Aroclor 1248	BA
4.292	519656	512401	0.986	1.14		
4.309	544407	499860	0.918	1.20		
4.416	1852106	1732001	0.935	4.08		
4.452	933570	795653	0.852	2.05		
4.545	2129044	1901929	0.893	4.69	6 Aroclor 1248	BA
4.589	28958	33248	1.148	0.06		
4.617	495703	456849	0.922	1.09		
4.679	26155	22185	0.848	0.05		
4.726	63371	51769	0.817	0.13		
4.767	114265	103797	0.908	0.25		
4.811	1061044	1023051	0.964	2.34	6 Aroclor 1248	BA
4.847	2043702	1924783	0.942	4.50		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.879	2644790	1730554	0.654	5.83	6 Aroclor 1248
4.956	313666	250969	0.800	0.69	
5.036	1889422	1721170	0.911	4.16	6 Aroclor 1248
5.098	605736	542795	0.896	1.33	
5.125	64212	69886	1.088	0.14	
5.161	793396	713953	0.900	1.75	
5.212	576786	521261	0.904	1.27	
5.283	40439	38933	0.963	0.08	
5.307	126155	107020	0.848	0.27	
5.362	498346	437809	0.879	1.09	
5.406	838326	732391	0.874	1.84	
5.445	525310	460262	0.876	1.15	
5.508	1396636	1157212	0.829	3.08	
5.603	397876	356445	0.896	0.87	
5.675	47962	39620	0.826	0.10	
5.714	90117	65251	0.724	0.19	
5.740	101321	91575	0.904	0.22	
5.791	993117	779649	0.785	2.19	
5.888	128945	79935	0.620	0.28	
5.994	26673	28878	1.083	0.05	
6.024	807909	705979	0.874	1.78	
6.055	172078	136039	0.791	0.37	
6.170	90576	57063	0.630	0.19	
6.226	54588	30922	0.566	0.12	
6.298	248844	213137	0.857	0.54	
6.330	46654	39963	0.857	0.10	
6.375	39352	29167	0.741	0.08	
6.432	17578	11973	0.681	0.03	
6.508	39809	38736	0.973	0.08	
6.534	97247	66181	0.681	0.21	
6.606	14315	10605	0.741	0.03	
6.718	39062	33746	0.864	0.08	
6.758	22957	19388	0.845	0.05	
6.800	46690	37834	0.810	0.10	
6.839	23386	13919	0.595	0.05	
7.004	78316	62981	0.804	0.17	
7.122	10639	8884	0.835	0.02	
7.250	29278	25400	0.868	0.06	
7.390	34451	30336	0.881	0.07	
7.441	42493	30080	0.708	0.09	
7.690	15015	13204	0.879	0.03	
7.725	29010	23096	0.796	0.06	
7.799	17619	16242	0.922	0.03	
7.902	31393	24739	0.788	0.06	
8.275	58253	48736	0.837	0.12	
8.378	14828	11244	0.758	0.03	
8.569	5553400	4734420	0.853	12.25	$ 12 Decachlorobiphenyl
	45332593	40133218		100.000	

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042318.b\042318028.D
Lab Smp Id: 1248-CCV Client Smp ID: 1248-CCV
Inj Date : 23-APR-2018 20:04
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-ccv, 185549:1
Misc Info : 17498,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042318.b\pcba030618.m
Meth Date : 24-Apr-2018 13:17 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 28 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1248.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	6035783	0.05000	0.049			
6 Aroclor 1248					CAS #: 12672-29-6			
4.259	4.261	-0.002	1213611	0.50000	0.52	0.00- 20.00	100.00(M)	BA
4.544	4.546	-0.002	2129044	0.50000	0.51	0.00- 20.00	175.43	BA
4.811	4.812	-0.001	1061044	0.50000	0.52	0.00- 20.00	87.43	BA
4.878	4.879	-0.001	2644790	0.50000	0.52	0.00- 20.00	217.93	BA
5.036	5.038	-0.002	1889421	0.50000	0.53	0.00- 20.00	155.69	BA
Average of Peak Amounts =					0.52000			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	5553400	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\042318.b\042318028.D

Date : 23-APR-2018 20:04

Client ID: 1248-CCV

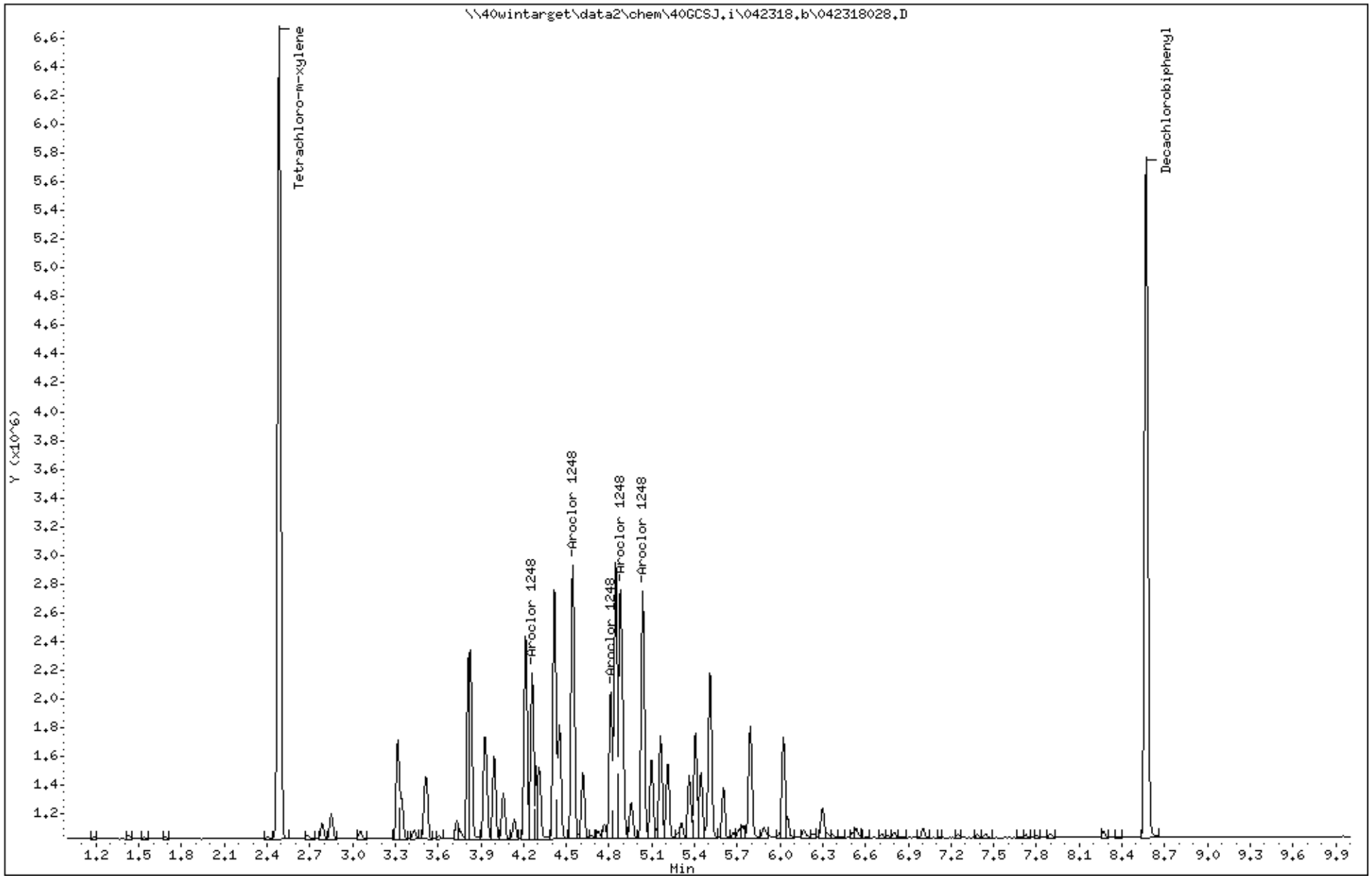
Instrument: 40GCSJ.i

Sample Info: 1248-CCV, 185549:1

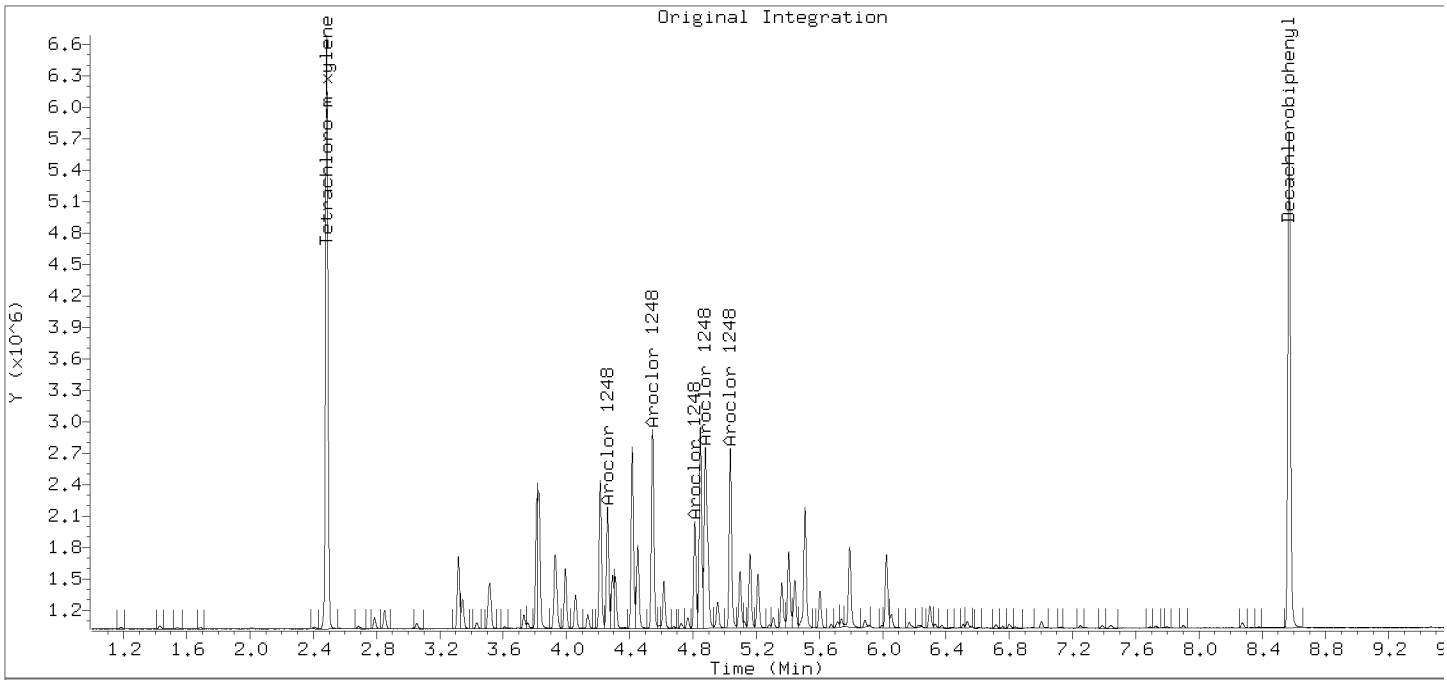
Operator: BLM

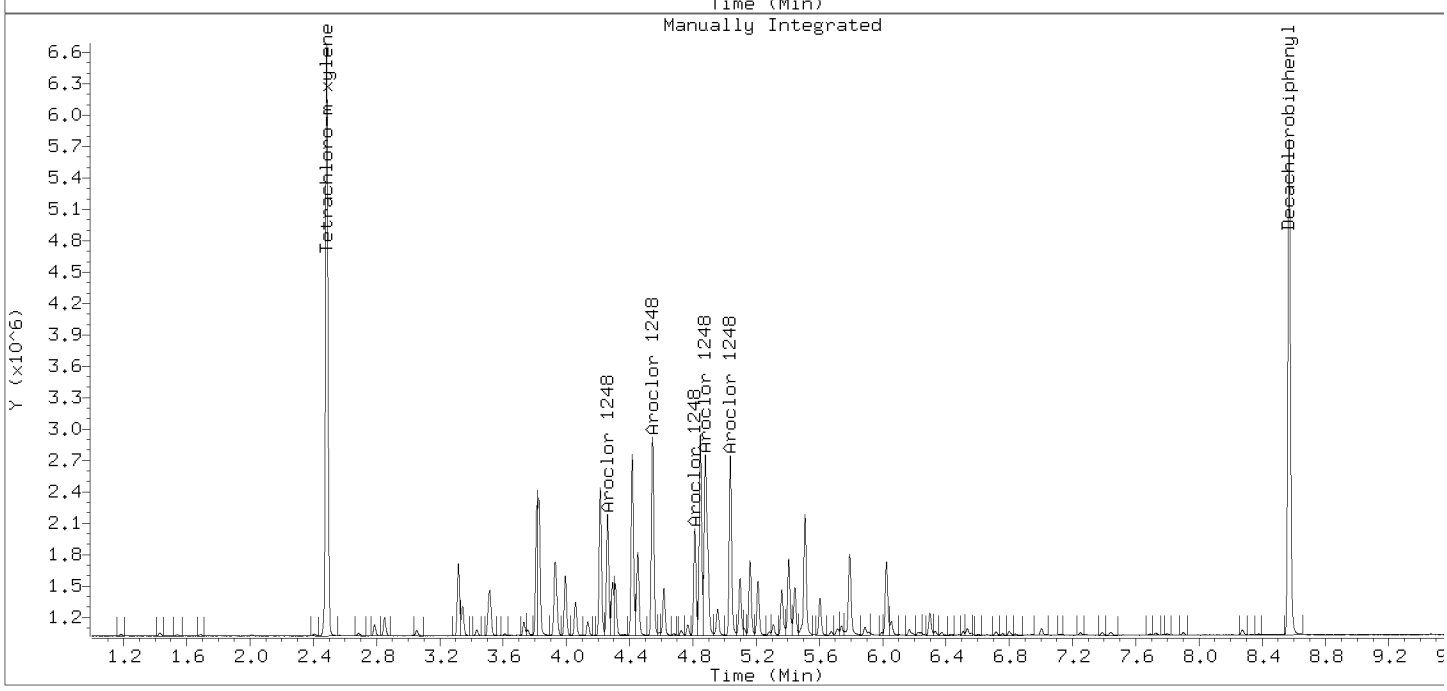
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\042318.b/042318028.D (ManInt: AR1248.sub Orig: AR1248.sub)
Injection Date: 23-APR-2018 20:04 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1248-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1248	1207190	1213611	BA
Aroclor 1248	1207190	1213611	BA
Aroclor 1248	1207190	1213611	BA
Aroclor 1248	1207190	1213611	BA
Aroclor 1248	1207190	1213611	BA
Tetrachloro-m-xylene	6035783	6035783	
Decachlorobiphenyl	5553400	5553400	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042318.b\042318034.D
Lab Smp Id: 1254-CCV Client Smp ID: 1254-CCV
Inj Date : 23-APR-2018 21:39
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-ccv, 185554:1
Misc Info : 17498,AR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042318.b\pcba030618.m
Meth Date : 24-Apr-2018 13:17 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 34 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
1.183	19305	15602	0.808	0.03		
1.431	40350	30870	0.765	0.07		
1.539	18898	14026	0.742	0.03		
1.689	16598	14528	0.875	0.03		
2.012	15559	10910	0.701	0.02		
2.484	6076171	5651806	0.930	11.49	$ 2 Tetrachloro-m-xylene	
2.786	87985	83770	0.952	0.16		
2.850	17424	17551	1.007	0.03		
3.051	23223	19558	0.842	0.04		
3.316	34734	29681	0.855	0.06		
3.345	18723	18790	1.004	0.03		
3.512	30889	21836	0.707	0.05		
3.610	20884	20513	0.982	0.03		
3.726	11846	10141	0.856	0.02		
3.814	104732	60092	0.574	0.19		
3.934	65001	43483	0.669	0.11		
3.993	32903	27477	0.835	0.06		
4.054	29554	23199	0.785	0.05		
4.131	11521	9956	0.864	0.02		
4.214	1262339	1186616	0.940	2.30		
4.260	345437	326747	0.946	0.63		
4.290	74287	51309	0.691	0.13		
4.417	768174	734212	0.956	1.40		
4.452	76663	69656	0.909	0.14		
4.545	348153	324839	0.933	0.63		
4.592	15214	15979	1.050	0.02		
4.618	62101	55762	0.898	0.11		
4.681	18919	15576	0.823	0.03		
4.766	23231	21917	0.943	0.04		
4.812	298670	285835	0.957	0.54		
4.847	1151988	1109254	0.963	2.10		
4.894	2462397	1895283	0.770	4.50		
4.956	399593	352625	0.882	0.73		
5.036	252118	233322	0.925	0.46		
5.098	1446927	1259333	0.870	2.64		
5.161	2668486	2420637	0.907	4.87	7 Aroclor 1254	BA
5.211	1225074	1097753	0.896	2.24		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.282	65753	60314	0.917	0.12	
5.307	223136	204857	0.918	0.40	
5.362	1063956	976293	0.918	1.94	
5.406	2210232	1997585	0.904	4.04	7 Aroclor 1254
5.445	761688	674953	0.886	1.39	
5.477	269613	258419	0.958	0.49	
5.509	3985180	3551261	0.891	7.28	7 Aroclor 1254
5.575	29684	32492	1.095	0.05	
5.603	566829	493250	0.870	1.03	
5.673	357855	328552	0.918	0.65	
5.710	550146	357379	0.650	1.00	
5.741	343362	286642	0.835	0.62	
5.790	4074058	3248591	0.797	7.45	
5.883	352703	278808	0.790	0.64	
5.926	189857	118852	0.626	0.34	
5.992	329813	318067	0.964	0.60	
6.025	2588884	2060924	0.796	4.73	7 Aroclor 1254
6.055	1820351	1558380	0.856	3.32	
6.167	733598	620129	0.845	1.34	
6.225	296987	296741	0.999	0.54	
6.239	335438	298496	0.890	0.61	
6.297	3403552	2832422	0.832	6.22	7 Aroclor 1254
6.332	597037	543143	0.910	1.09	
6.373	340410	287548	0.845	0.62	
6.436	83224	53107	0.638	0.15	
6.485	14798	17711	1.197	0.02	
6.509	122347	127791	1.044	0.22	
6.535	1159983	900459	0.776	2.12	
6.603	166037	137429	0.828	0.30	
6.659	31214	23583	0.756	0.05	
6.716	221600	192135	0.867	0.40	
6.757	132730	116120	0.875	0.24	
6.800	649425	570854	0.879	1.18	
6.842	177806	121399	0.683	0.32	
6.940	58554	51760	0.884	0.10	
7.003	456918	384200	0.841	0.83	
7.074	19730	16748	0.849	0.03	
7.250	367983	337737	0.918	0.67	
7.281	79923	69343	0.868	0.14	
7.387	17651	17884	1.013	0.03	
7.439	30142	23213	0.770	0.05	
7.551	28797	21324	0.740	0.05	
7.687	15628	13149	0.841	0.02	
7.726	21779	20312	0.933	0.03	
7.797	12300	11710	0.952	0.02	
7.901	24823	19403	0.782	0.04	
8.273	50828	45644	0.898	0.09	
8.374	13025	9654	0.741	0.02	
8.568	5638779	4966976	0.881	10.31	$ 12 Decachlorobiphenyl
9.086	11938	8400	0.704	0.02	
9.461	9653	7098	0.735	0.01	
	54683814	47549685		100.000	

Total unknown % area = 51

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042318.b\042318034.D
Lab Smp Id: 1254-CCV Client Smp ID: 1254-CCV
Inj Date : 23-APR-2018 21:39
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-ccv, 185554:1
Misc Info : 17498,AR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042318.b\pcba030618.m
Meth Date : 24-Apr-2018 13:17 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 34 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1254.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	6076171	0.05000	0.049			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	2668485	0.50000	0.51	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	2210232	0.50000	0.51	0.00- 20.00	82.83	BA
5.508	5.510	-0.002	3985179	0.50000	0.51	0.00- 20.00	149.34	BA
6.024	6.027	-0.003	2588883	0.50000	0.53	0.00- 20.00	97.02	BA
6.296	6.299	-0.003	3403551	0.50000	0.52	0.00- 20.00	127.55	BA
Average of Peak Amounts =					0.51600			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.568	8.571	-0.003	5638779	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\042318.b\042318034.D

Date : 23-APR-2018 21:39

Client ID: 1254-CCV

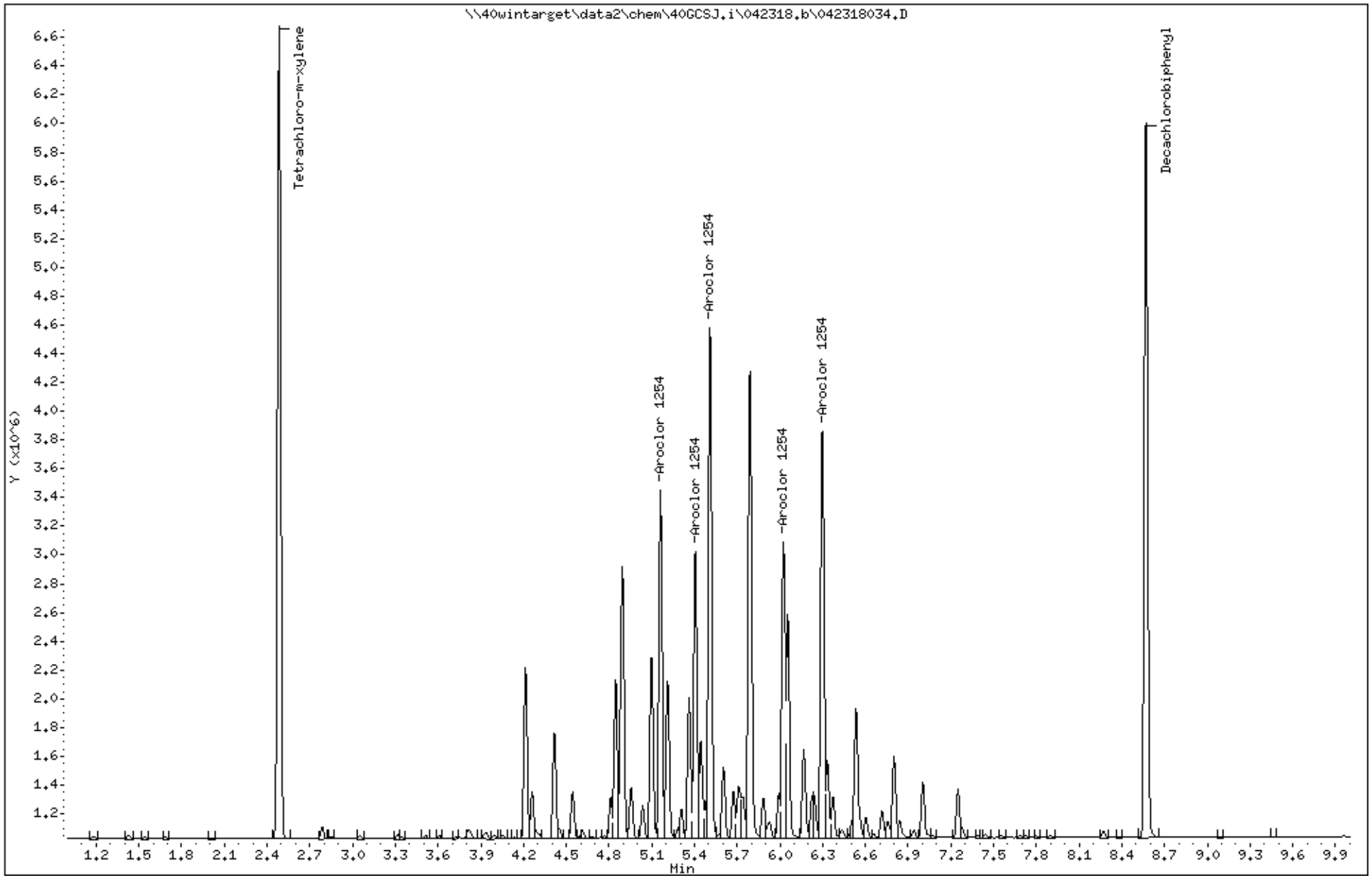
Instrument: 40GCSJ.i

Sample Info: 1254-CCV, 185554:1

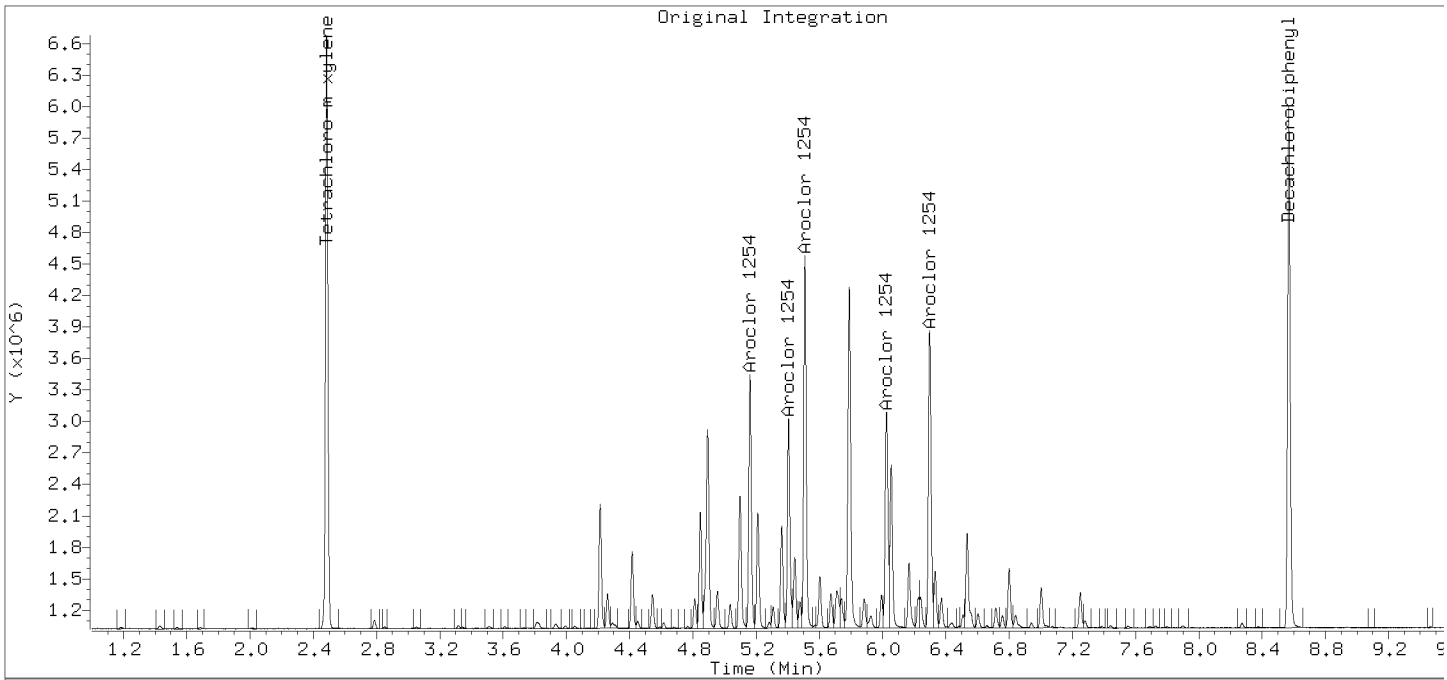
Operator: BLM

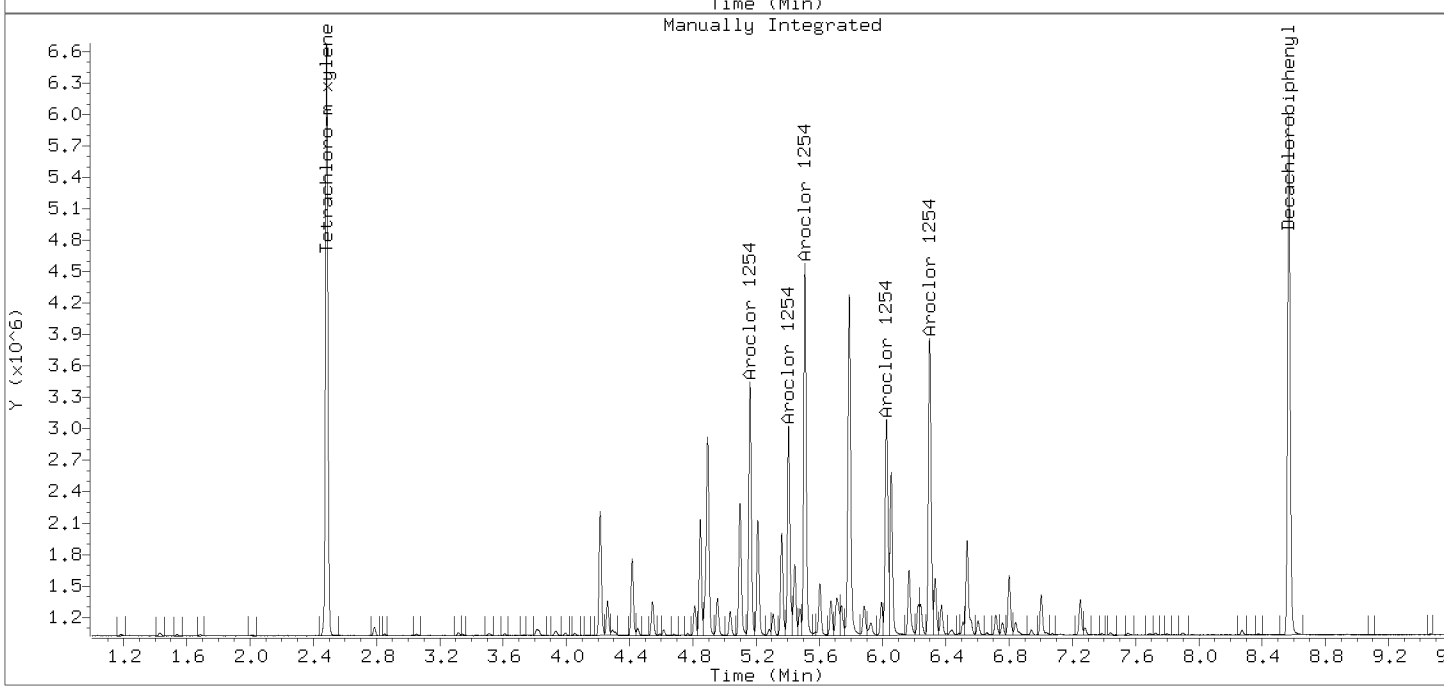
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\042318.b/042318034.D (ManInt: AR1254.sub Orig: AR1254.sub)
Injection Date: 23-APR-2018 21:39 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1254-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1254	2661063	2668485	BA
Aroclor 1254	2661063	2668485	BA
Aroclor 1254	2661063	2668485	BA
Aroclor 1254	2661063	2668485	BA
Aroclor 1254	2661063	2668485	BA
Tetrachloro-m-xylene	6076171	6076171	
Decachlorobiphenyl	5638779	5638779	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418004.D
Lab Smp Id: 1660-CCV Client Smp ID: 1660-CCV
Inj Date : 24-APR-2018 13:10
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-ccv, 185559:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042418.b\pcba030618.m
Meth Date : 25-Apr-2018 09:54 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
1.185	51263	36525	0.713	0.05		
1.429	42912	29540	0.688	0.04		
1.544	21628	15225	0.704	0.02		
1.687	25676	21176	0.825	0.02		
1.806	22832	14745	0.646	0.02		
2.009	26287	20341	0.774	0.02		
2.405	147516	108162	0.733	0.16		
2.485	6341660	5774011	0.910	7.64	$ 2 Tetrachloro-m-xylene	
2.687	210647	165375	0.785	0.23		
2.790	321375	289482	0.901	0.36		
2.852	1177142	1050543	0.892	1.32		
3.032	15162	15852	1.045	0.01		
3.055	177364	152676	0.861	0.19		
3.196	11838	7852	0.663	0.01		
3.276	29233	21021	0.719	0.03		
3.317	1597207	1446341	0.906	1.79	5 Aroclor 1016	BA
3.344	936110	836261	0.893	1.05		
3.434	258751	228335	0.882	0.29		
3.514	1601310	1133584	0.708	1.80	5 Aroclor 1016	BA
3.609	24464	21516	0.879	0.02		
3.696	45276	42781	0.945	0.05		
3.732	403574	400455	0.992	0.45		
3.756	267430	250221	0.936	0.30		
3.826	4554618	2610053	0.573	5.12	5 Aroclor 1016	BA
3.928	1952601	1594416	0.817	2.19	5 Aroclor 1016	BA
3.994	1313282	1224689	0.933	1.47	5 Aroclor 1016	BA
4.058	384425	344250	0.895	0.43		
4.136	147712	134432	0.910	0.16		
4.215	1154839	1077859	0.933	1.29		
4.260	1037759	965910	0.931	1.16		
4.293	426817	438535	1.027	0.48		
4.309	543104	504962	0.930	0.61		
4.371	39029	24685	0.632	0.04		
4.417	1446208	1312704	0.908	1.62		
4.452	1034582	815053	0.788	1.16		
4.545	1838095	1637836	0.891	2.06		
4.617	412598	381792	0.925	0.46		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.679	26710	21421	0.802	0.03	
4.724	67609	55264	0.817	0.07	
4.769	58170	52567	0.904	0.06	
4.813	327354	312011	0.953	0.36	
4.847	517268	492795	0.953	0.58	
4.894	1659096	1184426	0.714	1.86	
4.957	107274	83539	0.779	0.12	
5.036	95923	82519	0.860	0.10	
5.100	348626	296285	0.850	0.39	
5.162	1368906	1243529	0.908	1.53	
5.211	61514	52341	0.851	0.06	
5.307	16106	15663	0.972	0.01	
5.362	92745	84940	0.916	0.10	
5.406	390722	335970	0.860	0.43	
5.477	543289	515351	0.949	0.61	
5.510	944154	842058	0.892	1.06	
5.605	22104	16094	0.728	0.02	
5.675	1393033	1305999	0.938	1.56	
5.710	1007781	571164	0.567	1.13	
5.786	3437383	2939521	0.855	3.86	
5.883	232858	205089	0.881	0.26	
5.928	114156	92105	0.807	0.12	
5.994	580489	552818	0.952	0.65	
6.029	1312477	1272605	0.970	1.47	
6.055	3799994	3297927	0.868	4.27	
6.169	2438534	1564237	0.641	2.74	
6.255	557323	324718	0.583	0.62	
6.299	4580615	3752062	0.819	5.15	8 Aroclor 1260
6.334	674241	592843	0.879	0.75	
6.374	173436	136102	0.785	0.19	
6.431	485860	414505	0.853	0.54	
6.487	97257	129393	1.330	0.10	
6.509	2291271	2033638	0.888	2.57	
6.534	406973	446197	1.096	0.45	
6.560	1419057	1250846	0.881	1.59	
6.604	154717	119213	0.771	0.17	
6.660	443802	412116	0.929	0.49	
6.718	2430754	2188467	0.900	2.73	
6.758	1369681	1181549	0.863	1.54	
6.803	1118422	985691	0.881	1.25	
6.837	214121	178441	0.833	0.24	
6.866	109924	95689	0.871	0.12	
6.912	156186	138034	0.884	0.17	
6.942	483812	432716	0.894	0.54	
7.004	5230756	4668544	0.893	5.88	8 Aroclor 1260
7.034	366899	354365	0.966	0.41	
7.075	172607	133205	0.772	0.19	
7.121	250252	203197	0.812	0.28	
7.250	2504182	2177913	0.870	2.81	8 Aroclor 1260
7.282	731363	587459	0.803	0.82	
7.389	1280984	1055957	0.824	1.44	
7.442	1546826	1316158	0.851	1.73	8 Aroclor 1260
7.553	106343	81173	0.763	0.11	
7.690	615922	541042	0.878	0.69	
7.727	99046	80167	0.809	0.11	
7.773	18071	16738	0.926	0.02	
7.800	77462	62385	0.805	0.08	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.900	1377920	1165036	0.846	1.54	8 Aroclor 1260
7.963	102222	75504	0.739	0.11	
8.275	362170	307838	0.850	0.40	
8.374	22752	16362	0.719	0.02	
8.571	5801206	4934735	0.851	6.52	$ 12 Decachlorobiphenyl
8.938	28797	16993	0.590	0.03	
9.530	10018	7623	0.761	0.01	
9.959	23344	14142	0.606	0.02	
	88903193	75266190		100.000	

Total unknown % area = 56

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418004.D
Lab Smp Id: 1660-CCV Client Smp ID: 1660-CCV
Inj Date : 24-APR-2018 13:10
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-ccv, 185559:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042418.b\pcba030618.m
Meth Date : 25-Apr-2018 09:54 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	6341660	0.05000	0.051			
5 Aroclor 1016					CAS #: 12674-11-2			
3.317	3.318	-0.001	1597207	0.50000	0.52	0.00- 20.00	100.00(M)	BA
3.513	3.512	0.001	1601310	0.50000	0.52	0.00- 20.00	100.26	BA
3.825	3.826	-0.001	4554618	0.50000	0.51	0.00- 20.00	285.16	BA
3.928	3.929	-0.001	1952600	0.50000	0.52	0.00- 20.00	122.25	BA
3.994	3.994	0.000	1313281	0.50000	0.50	0.00- 20.00	82.22	BA
Average of Peak Amounts =					0.51400			
8 Aroclor 1260					CAS #: 11096-82-5			
6.299	6.300	-0.001	4580614	0.50000	0.52	0.00- 20.00	100.00(M)	BA
7.003	7.006	-0.003	5230755	0.50000	0.52	0.00- 20.00	114.19	BA
7.250	7.251	-0.001	2504182	0.50000	0.52	0.00- 20.00	54.67	BA
7.442	7.443	-0.001	1546825	0.50000	0.53	0.00- 20.00	33.77	BA
7.900	7.901	-0.001	1377920	0.50000	0.52	0.00- 20.00	30.08	BA
Average of Peak Amounts =					0.52200			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	5801206	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\042418.b\042418004.D

Date : 24-APR-2018 13:10

Client ID: 1660-CCV

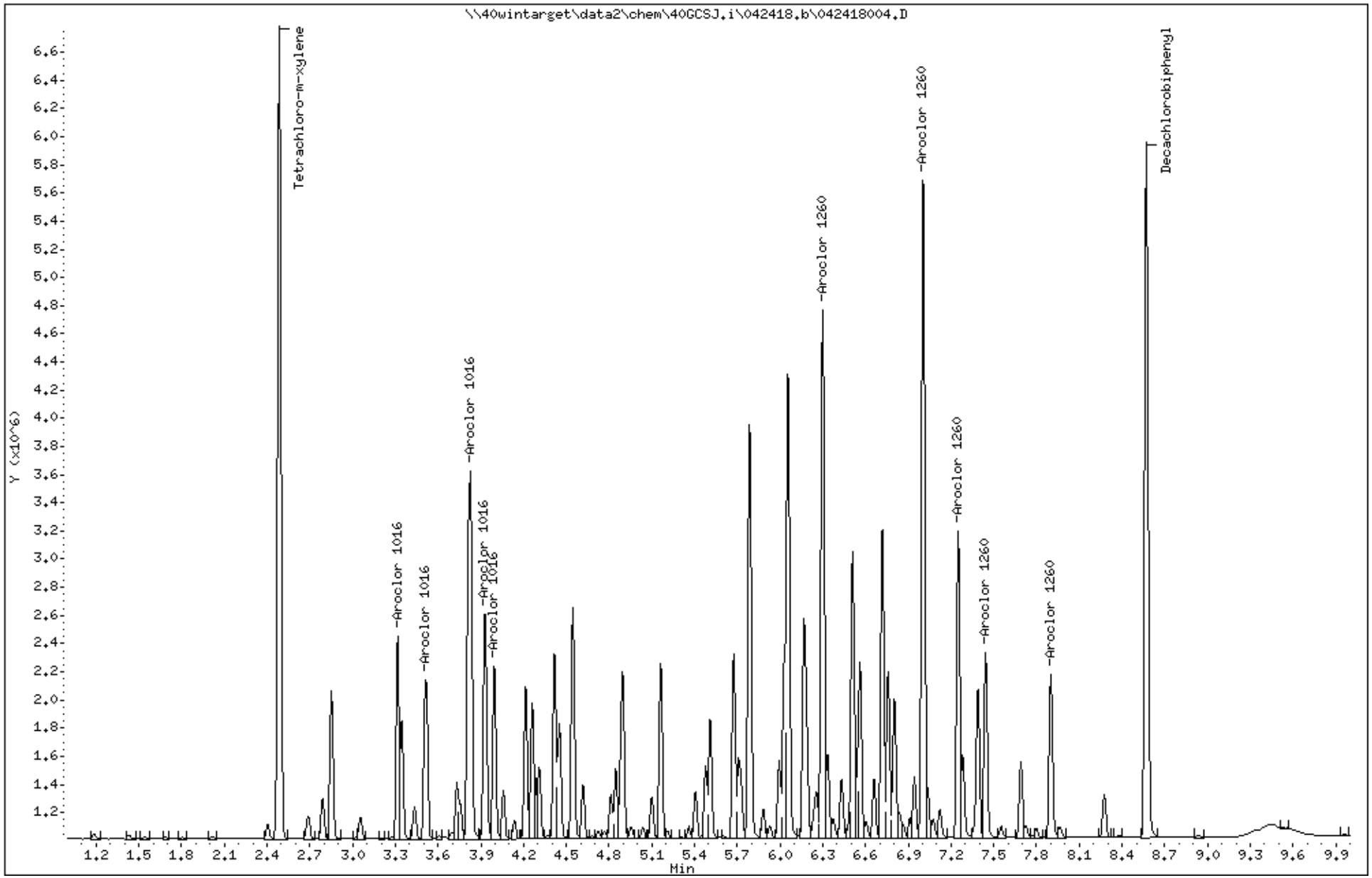
Instrument: 40GCSJ.i

Sample Info: 1660-CCV, 185559:1

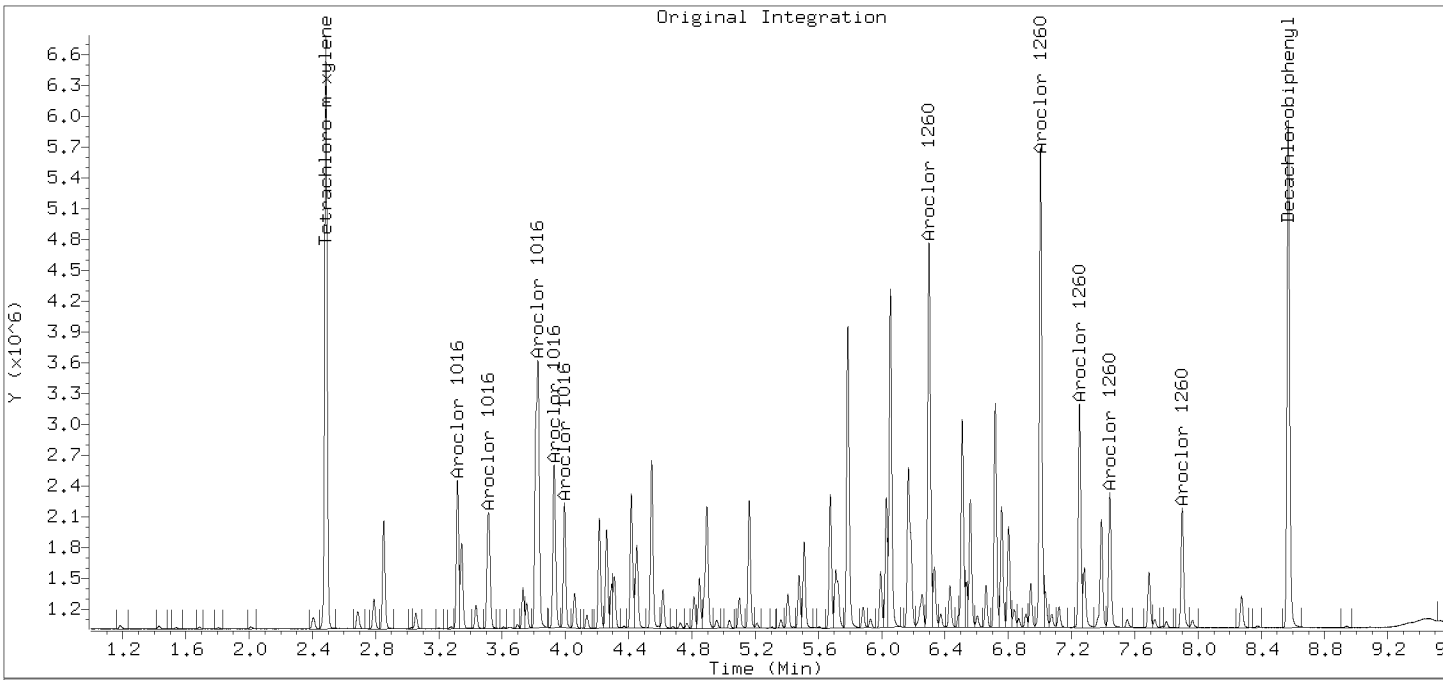
Operator: BLM

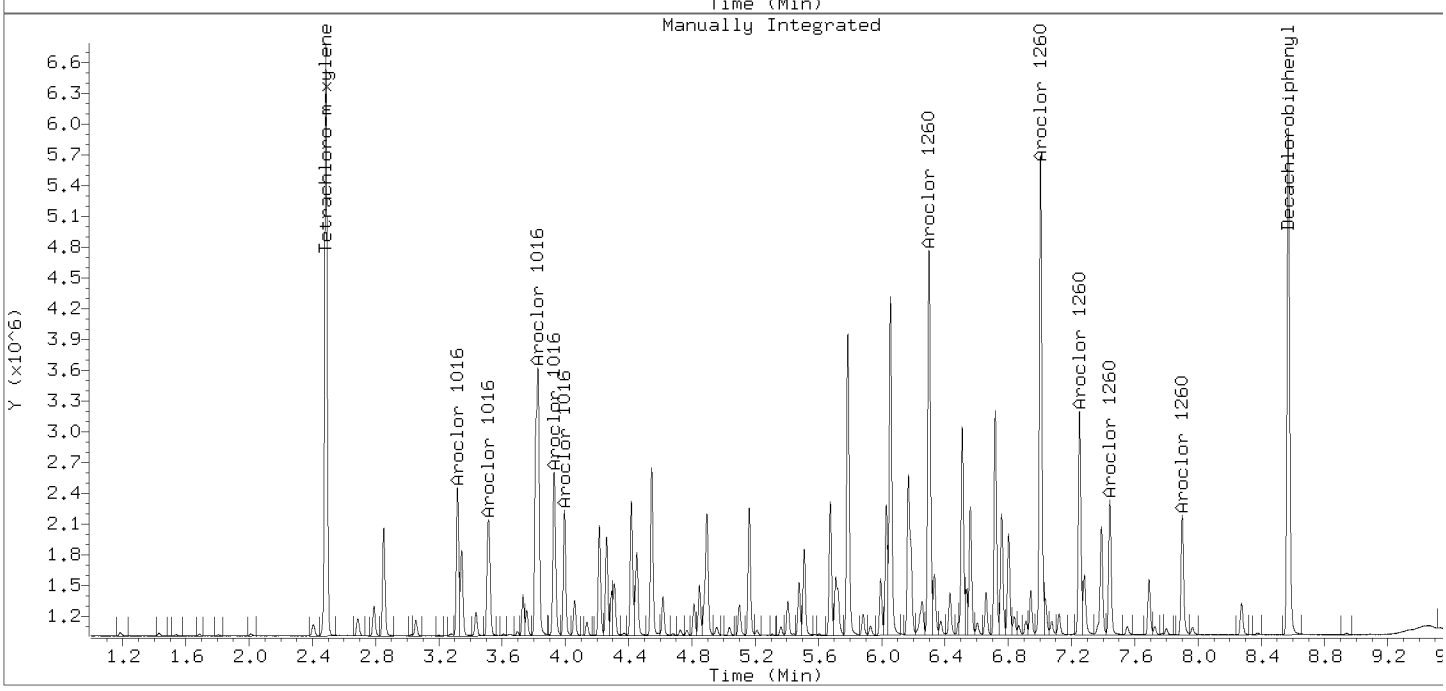
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\042418.b/042418004.D (ManInt: AR1660.sub Orig: AR1660.sub)
Injection Date: 24-APR-2018 13:10 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1660-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1587296	1597207	BA
Aroclor 1016	1587296	1597207	BA
Aroclor 1016	1587296	1597207	BA
Aroclor 1016	1587296	1597207	BA
Aroclor 1016	1587296	1597207	BA
Aroclor 1260	4560932	4580614	BA
Aroclor 1260	4560932	4580614	BA
Aroclor 1260	4560932	4580614	BA
Aroclor 1260	4560932	4580614	BA
Aroclor 1260	4560932	4580614	BA
Tetrachloro-m-xylene	6341660	6341660	
Decachlorobiphenyl	5801206	5801206	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418016.D
Lab Smp Id: 1221-CCV Client Smp ID: 1221-CCV
Inj Date : 24-APR-2018 16:20
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-ccv, 185538:1
Misc Info : 17498,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042418.b\pcba030618.m
Meth Date : 25-Apr-2018 13:57 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 16 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1221.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS	REVIEW CODE
1.185	43519	29331	0.674	0.24			
1.429	38501	29474	0.766	0.21			
1.539	14815	12375	0.835	0.08			
1.685	22525	16883	0.750	0.12			
1.805	524050	422557	0.806	2.89		1 Aroclor 1221	BA
2.011	31272	18861	0.603	0.17			
2.196	174322	135830	0.779	0.96			
2.408	269823	194387	0.720	1.49		1 Aroclor 1221	BA
2.485	6133471	5590080	0.911	34.16	$	2 Tetrachloro-m-xylene	BA
2.688	716864	576784	0.805	3.96		1 Aroclor 1221	BA
2.789	555215	507864	0.915	3.07		1 Aroclor 1221	BA
2.851	1709278	1472860	0.862	9.45		1 Aroclor 1221	BA
3.030	15213	14096	0.927	0.08			
3.054	40056	30893	0.771	0.22			
3.279	125555	94194	0.750	0.69			
3.324	397716	231413	0.582	2.19			
3.433	30976	29506	0.953	0.17			
3.512	145854	107149	0.735	0.80			
3.610	22786	21753	0.955	0.12			
3.697	13205	13893	1.052	0.07			
3.730	40935	42154	1.030	0.22			
3.757	51097	38697	0.757	0.28			
3.826	353468	209599	0.593	1.95			
3.929	165763	137023	0.827	0.91			
3.994	108355	99540	0.919	0.59			
4.053	34330	24484	0.713	0.18			
4.138	9908	7288	0.736	0.05			
4.214	34346	34037	0.991	0.18			
4.260	28434	28323	0.996	0.15			
4.291	21218	13590	0.641	0.11			
4.417	36924	37580	1.018	0.20			
4.443	23539	17702	0.752	0.13			
4.544	57798	49908	0.863	0.31			
4.615	16666	13905	0.834	0.09			
4.812	25028	23813	0.951	0.13			
4.848	39250	35163	0.896	0.21			
4.877	59995	42305	0.705	0.33			

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.036	35194	32597	0.926	0.19	
5.097	10273	8657	0.843	0.05	
5.211	9688	9351	0.965	0.05	
5.508	17551	11860	0.676	0.09	
5.700	11017	9575	0.869	0.06	
6.197	13708	10576	0.772	0.07	
6.447	14733	9581	0.650	0.08	
7.728	21978	21348	0.971	0.12	
7.778	17859	13569	0.760	0.09	
7.803	17744	13281	0.748	0.09	
8.274	49669	43376	0.873	0.27	
8.376	20472	15674	0.766	0.11	
8.570	5682426	4747181	0.835	31.42	$ 12 Decachlorobiphenyl
8.930	9303	7032	0.756	0.05	
9.466	18833	12262	0.651	0.10	
	18082516	15371214		100.000	

Total unknown % area = 14

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418016.D
Lab Smp Id: 1221-CCV Client Smp ID: 1221-CCV
Inj Date : 24-APR-2018 16:20
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-ccv, 185538:1
Misc Info : 17498,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042418.b\pcba030618.m
Meth Date : 25-Apr-2018 13:57 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	6133471	0.05000	0.050		(M)	BA
1 Aroclor 1221					CAS #: 11104-28-2			
1.804	1.804	0.000	524049	0.50000	0.50	0.00- 20.00	100.00(M)	BA
2.407	2.407	0.000	269822	0.50000	0.49	0.00- 20.00	51.49	BA
2.687	2.688	-0.001	716863	0.50000	0.52	0.00- 20.00	136.79	BA
2.789	2.789	0.000	555214	0.50000	0.50	0.00- 20.00	105.95	BA
2.850	2.851	-0.001	1709278	0.50000	0.52	0.00- 20.00	326.17	BA
Average of Peak Amounts =					0.50600			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	5682425	0.05000	0.052			

QC Flag Legend

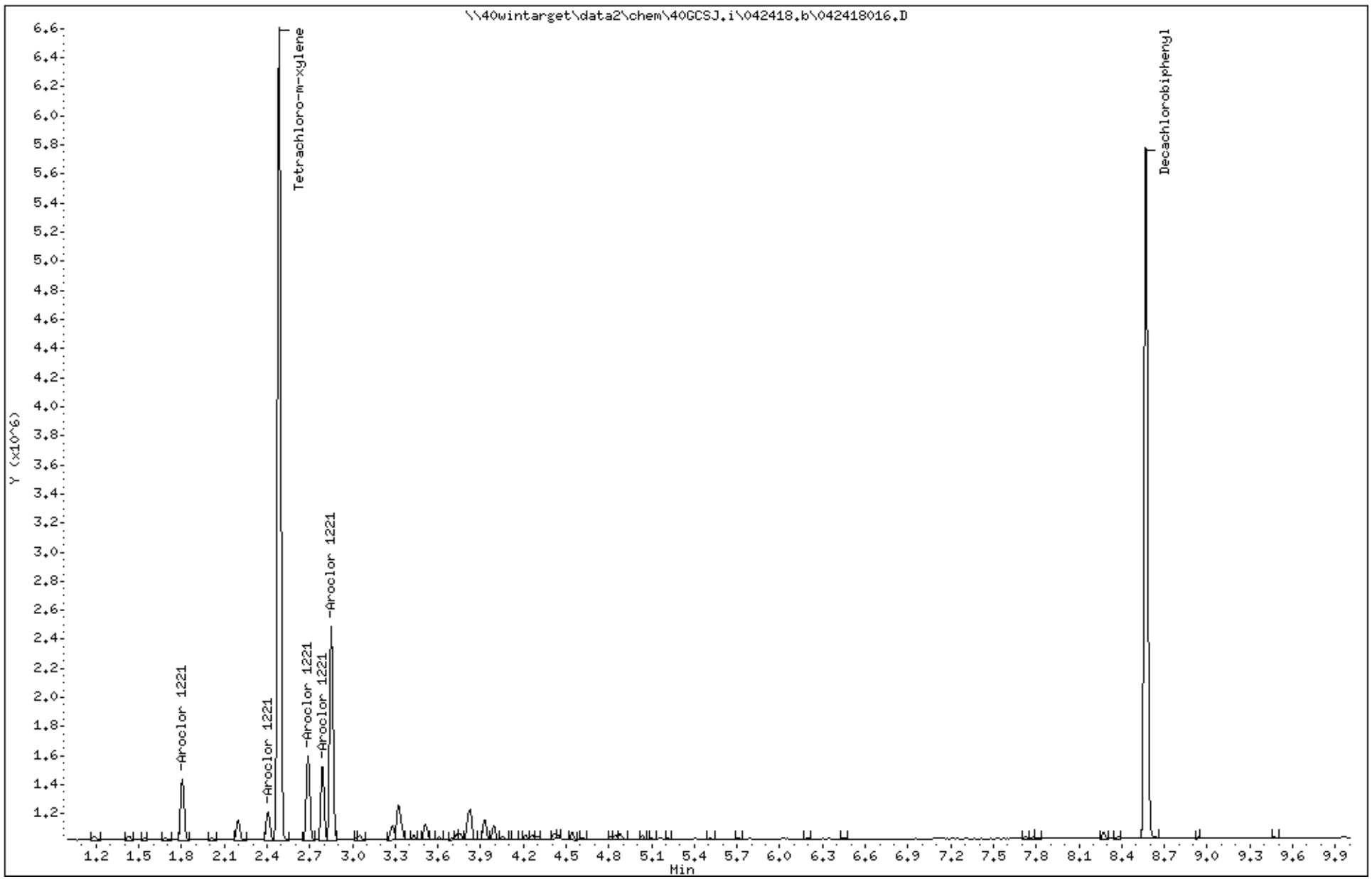
M - Compound response manually integrated.

Review Codes Legend

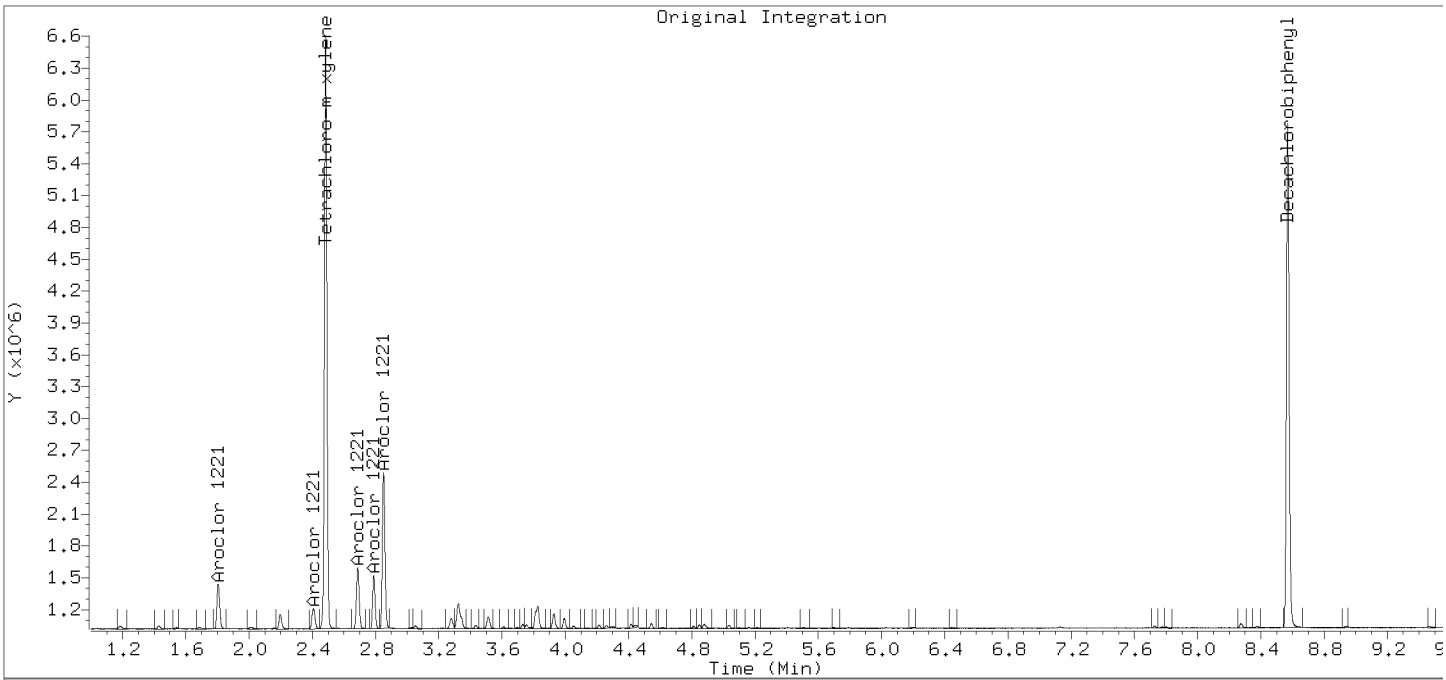
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:

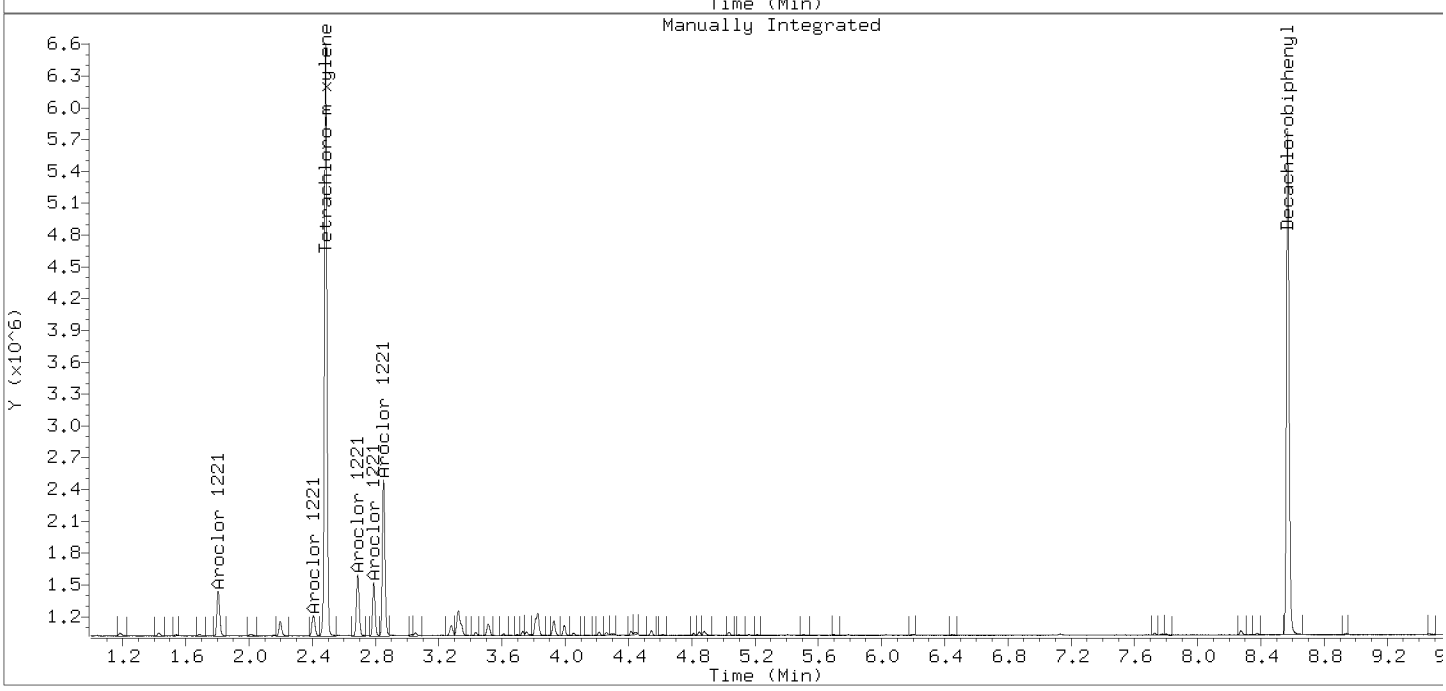
Data File: \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418016.D
Date : 24-APR-2018 16:20
Client ID: 1221-CCV
Sample Info: 1221-CCV, 185538:1

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\042418.b/042418016.D (ManInt: AR1221.sub Orig: AR1221.sub)
Injection Date: 24-APR-2018 16:20 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1221-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1221	517379	524049	BA
Aroclor 1221	517379	524049	BA
Aroclor 1221	517379	524049	BA
Aroclor 1221	517379	524049	BA
Aroclor 1221	517379	524049	BA
Tetrachloro-m-xylene	6122648	6133471	BA
Decachlorobiphenyl	5682425	5682425	

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.: 40157937

Date Extracted: 04/20/2018 07:02

Lab Sample ID: 1676397

Date Analyzed: 04/23/2018 14:15

Lab File ID: 042318.B\042318006.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\042318.b\042318006.D
Lab Smp Id: 1676397 Client Smp ID: MB
Inj Date : 23-APR-2018 14:15
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1676397,
Misc Info : 17718,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042318.b\pcba030618.m
Meth Date : 24-Apr-2018 13:17 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
1.184	44118	37120	0.841	0.25		
1.689	18162	16896	0.930	0.10		
2.010	33242	22121	0.665	0.19		
2.485	7327394	7013983	0.957	43.13	$ 2 Tetrachloro-m-xylene	
2.788	15002	12743	0.849	0.08		
2.859	12590	10512	0.835	0.07		
3.031	15364	12278	0.799	0.09		
3.995	11907	10806	0.908	0.07		
5.448	9893	6595	0.667	0.05		
6.349	9803	9093	0.928	0.05		
6.445	10512	7616	0.725	0.06		
7.122	34863	23883	0.685	0.20		
7.692	13483	13114	0.973	0.07		
7.727	55016	48325	0.878	0.32		
7.773	15067	13165	0.874	0.08		
7.799	55518	42838	0.772	0.32		
8.274	86625	71405	0.824	0.50		
8.378	28410	17864	0.629	0.16		
8.571	9138731	7895671	0.864	53.94	$ 12 Decachlorobiphenyl	
8.943	26485	16557	0.625	0.15		
9.461	11655	9621	0.825	0.06		
9.954	11850	8374	0.707	0.06		
	16985692	15320580		100.000		

Total unknown % area = 2.9

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042318.b\042318006.D
Lab Smp Id: 1676397 Client Smp ID: MB
Inj Date : 23-APR-2018 14:15
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1676397,
Misc Info : 17718,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042318.b\pcba030618.m
Meth Date : 24-Apr-2018 13:17 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		
2.484	2.484	0.000	7327393	0.05943	30			(R)
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).

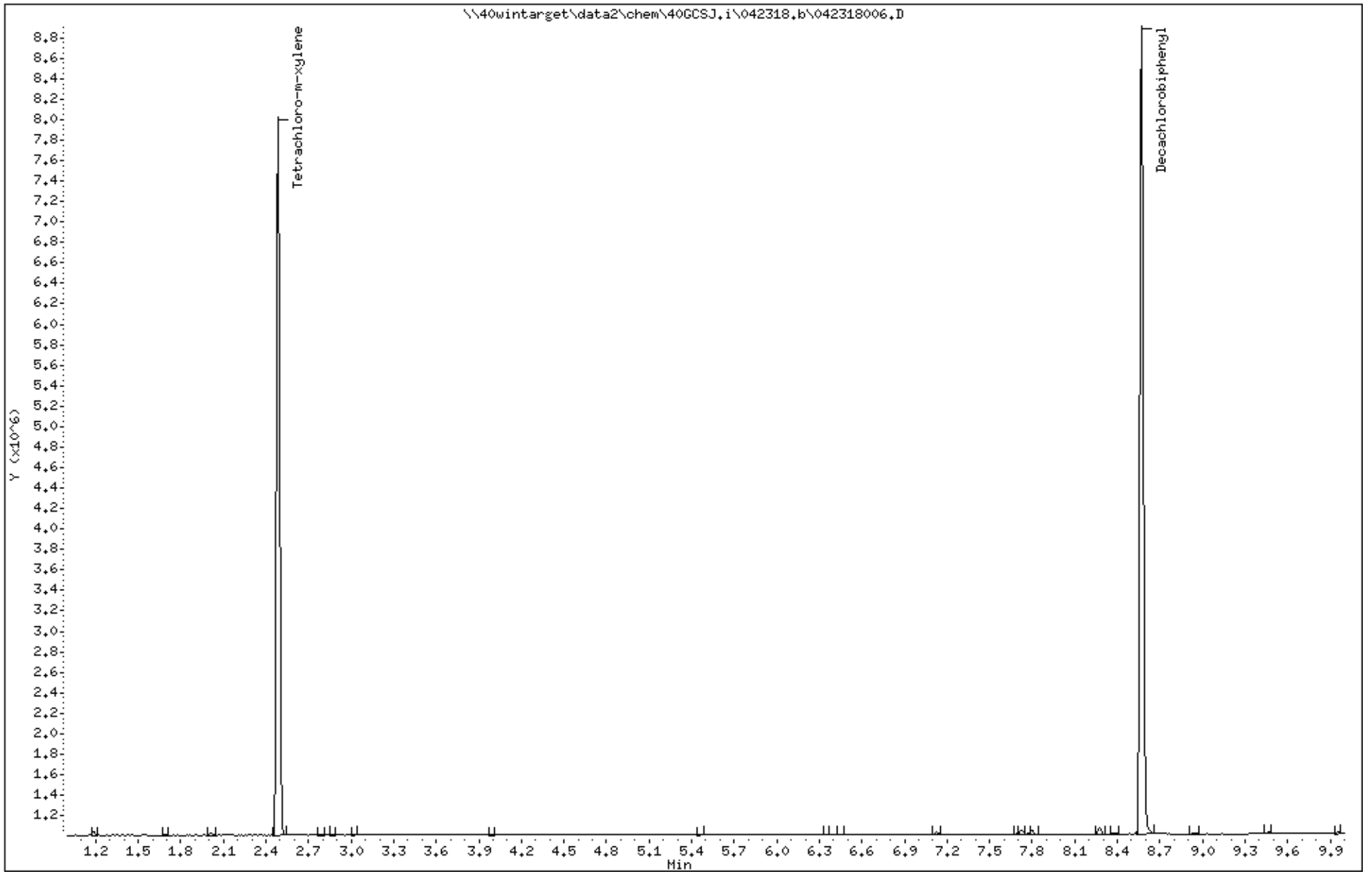
$ 12 Decachlorobiphenyl CAS #: 2051-24-3

8.570	8.571	-0.001	9138731	0.08341	42			

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\40wintarget\data2\chem\40GCSJ.i\042318.b\042318006.D
Date : 23-APR-2018 14:15
Client ID: MB
Instrument: 40GCSJ.i
Sample Info: 1676397,
Volume Injected (uL): 1.0
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\042318.b/042318006.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 23-APR-2018 14:15 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1676397

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	7327393	7327393	
Decachlorobiphenyl	9138731	9138731	

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.: 40157937

Date Extracted: 04/20/2018 07:02

Lab Sample ID: 1676398

Date Analyzed: 04/23/2018 14:31

Lab File ID: 042318.B\042318007.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)	289	
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\042318.b\042318007.D
Lab Smp Id: 1676398 Client Smp ID: MBLCS
Inj Date : 23-APR-2018 14:31
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1676398,
Misc Info : 17718,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042318.b\pcba030618.m
Meth Date : 24-Apr-2018 13:17 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
1.186	68507	52405	0.765	0.13		
1.429	10888	8904	0.818	0.02		
1.536	12075	9279	0.768	0.02		
1.686	25381	19771	0.779	0.05		
1.805	12934	13698	1.059	0.02		
2.009	38779	27844	0.718	0.07		
2.405	136853	105097	0.768	0.27		
2.485	9478224	8925291	0.942	18.88	$ 2 Tetrachloro-m-xylene	
2.686	203003	164628	0.811	0.40		
2.789	245483	223683	0.911	0.48		
2.851	1098657	985003	0.897	2.18		
3.028	18390	21379	1.163	0.03		
3.055	149563	132614	0.887	0.29		
3.277	25517	20811	0.816	0.05		
3.317	1456822	1326237	0.910	2.90	3 Aroclor 1242	BA
3.344	827106	765567	0.926	1.64		
3.433	230511	207428	0.900	0.45		
3.513	1444476	1025928	0.710	2.87	3 Aroclor 1242	BA
3.647	28387	17363	0.612	0.05		
3.698	42781	40490	0.946	0.08		
3.732	377757	364466	0.965	0.75		
3.756	247149	233715	0.946	0.49		
3.826	4077668	2359062	0.579	8.12	3 Aroclor 1242	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.928	1774414	1451207	0.818	3.53	3 Aroclor 1242
3.994	1191138	1113079	0.934	2.37	3 Aroclor 1242
4.058	334712	299339	0.894	0.66	
4.135	142630	119102	0.835	0.28	
4.215	993749	920427	0.926	1.98	
4.261	940933	875214	0.930	1.87	
4.293	382820	391483	1.023	0.76	
4.309	465480	441071	0.948	0.92	
4.370	39061	26446	0.677	0.07	
4.417	1304876	1208015	0.926	2.60	
4.452	1000871	738898	0.738	1.99	
4.545	1657000	1462330	0.883	3.30	
4.617	383313	335130	0.874	0.76	
4.678	31525	21304	0.676	0.06	
4.727	80846	67414	0.834	0.16	
4.768	88803	80071	0.902	0.17	
4.813	741040	705553	0.952	1.47	
4.847	1317715	1221973	0.927	2.62	
4.878	1703757	1220835	0.717	3.39	
4.958	194614	146927	0.755	0.38	
5.037	1374299	1212444	0.882	2.73	
5.099	301123	226167	0.751	0.60	
5.161	335344	290160	0.865	0.66	
5.212	248843	213354	0.857	0.49	
5.283	23110	19372	0.838	0.04	
5.308	58059	48104	0.829	0.11	
5.363	211104	178967	0.848	0.42	
5.407	356615	293475	0.823	0.71	
5.446	225860	188570	0.835	0.45	
5.509	561531	429905	0.766	1.11	
5.604	174935	145781	0.833	0.34	
5.675	17954	16632	0.926	0.03	
5.715	43556	28846	0.662	0.08	
5.739	60215	38508	0.640	0.11	
5.792	353406	278080	0.787	0.70	
5.888	55087	32452	0.589	0.10	
6.025	339251	242290	0.714	0.67	
6.167	25340	19961	0.788	0.05	
6.230	13458	9416	0.700	0.02	
6.299	67958	58891	0.867	0.13	
6.449	19336	12263	0.634	0.03	
6.510	13731	13758	1.002	0.02	
6.536	33967	22433	0.660	0.06	
6.715	14461	10655	0.737	0.02	
6.803	15717	12373	0.787	0.03	
6.863	9462	6550	0.692	0.01	
7.006	22805	18520	0.812	0.04	
7.124	39741	26021	0.655	0.07	
7.253	13242	10156	0.767	0.02	
7.385	12445	9056	0.728	0.02	
7.439	10712	9824	0.917	0.02	
7.692	11442	13319	1.164	0.02	
7.725	52203	44500	0.852	0.10	
7.776	15505	14581	0.940	0.03	
7.800	46093	42977	0.932	0.09	
8.273	97170	77845	0.801	0.19	
8.377	32410	23183	0.715	0.06	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
8.569	9776657	8279041	0.847	19.90	$ 12 Decachlorobiphenyl
8.937	26471	18012	0.680	0.05	
9.467	25645	17152	0.669	0.05	
9.957	24019	15621	0.650	0.04	
	50186493	42565696		100.000	

Total unknown % area = 41

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042318.b\042318007.D
Lab Smp Id: 1676398 Client Smp ID: MBLCS
Inj Date : 23-APR-2018 14:31
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1676398,
Misc Info : 17718,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042318.b\pcba030618.m
Meth Date : 24-Apr-2018 13:17 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			
2.484	2.484	0.000	9478224	0.07687	38			
3 Aroclor 1242					CAS #: 53469-21-9			
3.317	3.318	-0.001	1456822	0.57509	290	0.00- 20.00	100.00(M)	BA
3.513	3.513	0.000	1444476	0.57320	290	0.00- 20.00	99.15	BA
3.826	3.827	-0.001	4077668	0.57299	290	0.00- 20.00	279.90	BA
3.928	3.929	-0.001	1774414	0.58339	290	0.00- 20.00	121.80	BA
3.994	3.995	-0.001	1191137	0.58168	290	0.00- 20.00	81.76	BA
Average of Peak Concentrations =					290			

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

4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

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5 Aroclor 1016 CAS #: 12674-11-2

Operator disabled compound identification.

---

6 Aroclor 1248 CAS #: 12672-29-6

Operator disabled compound identification.

---

7 Aroclor 1254 CAS #: 11097-69-1

Operator disabled compound identification.

---

8 Aroclor 1260 CAS #: 11096-82-5

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

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

8.569	8.571	-0.002	9776657	0.08924	45	

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\042318.b\042318007.D

Date : 23-APR-2018 14:31

Client ID: MBLCS

Instrument: 40GCSJ.i

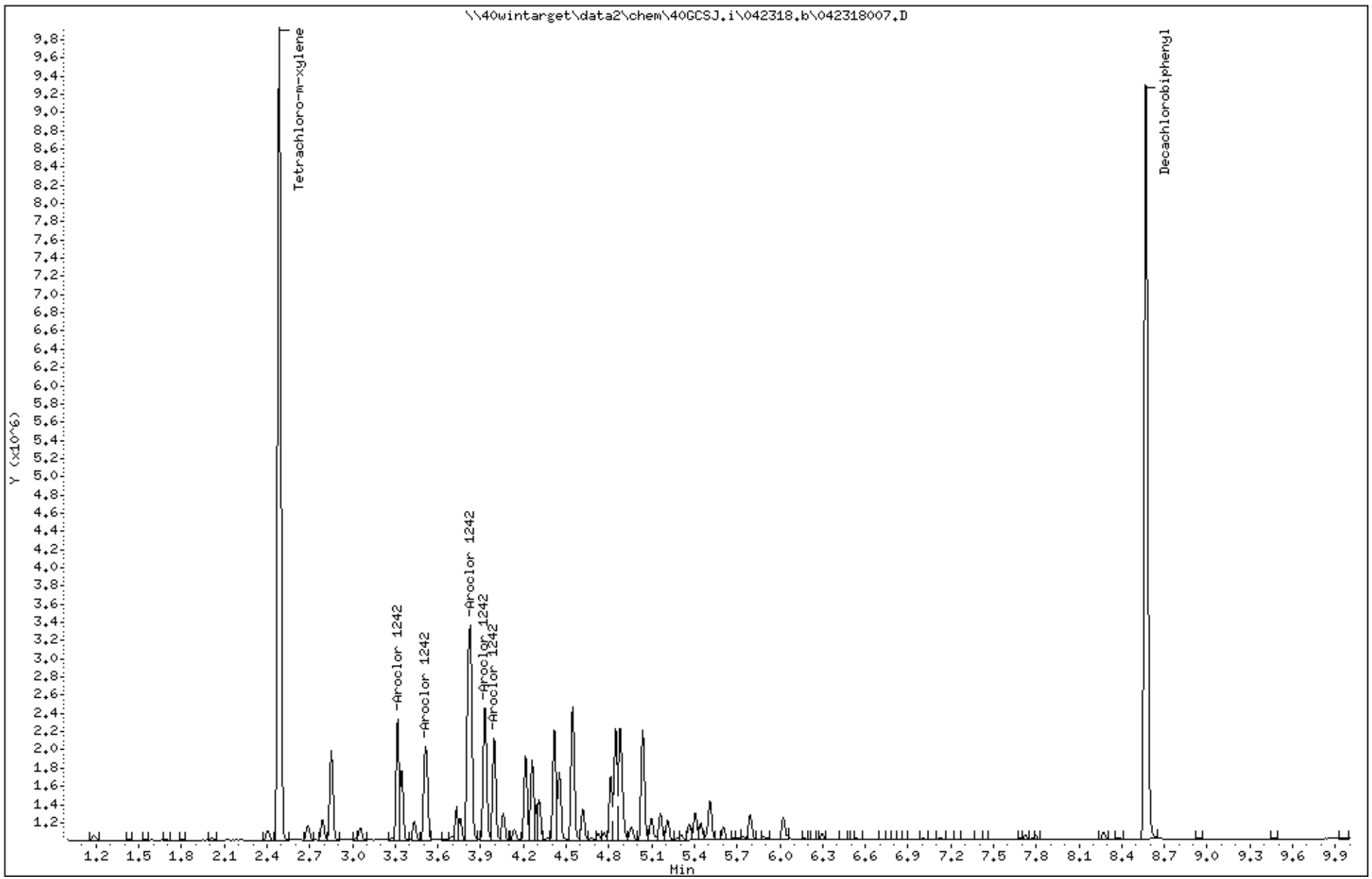
Sample Info: 1676398,

Volume Injected (uL): 1.0

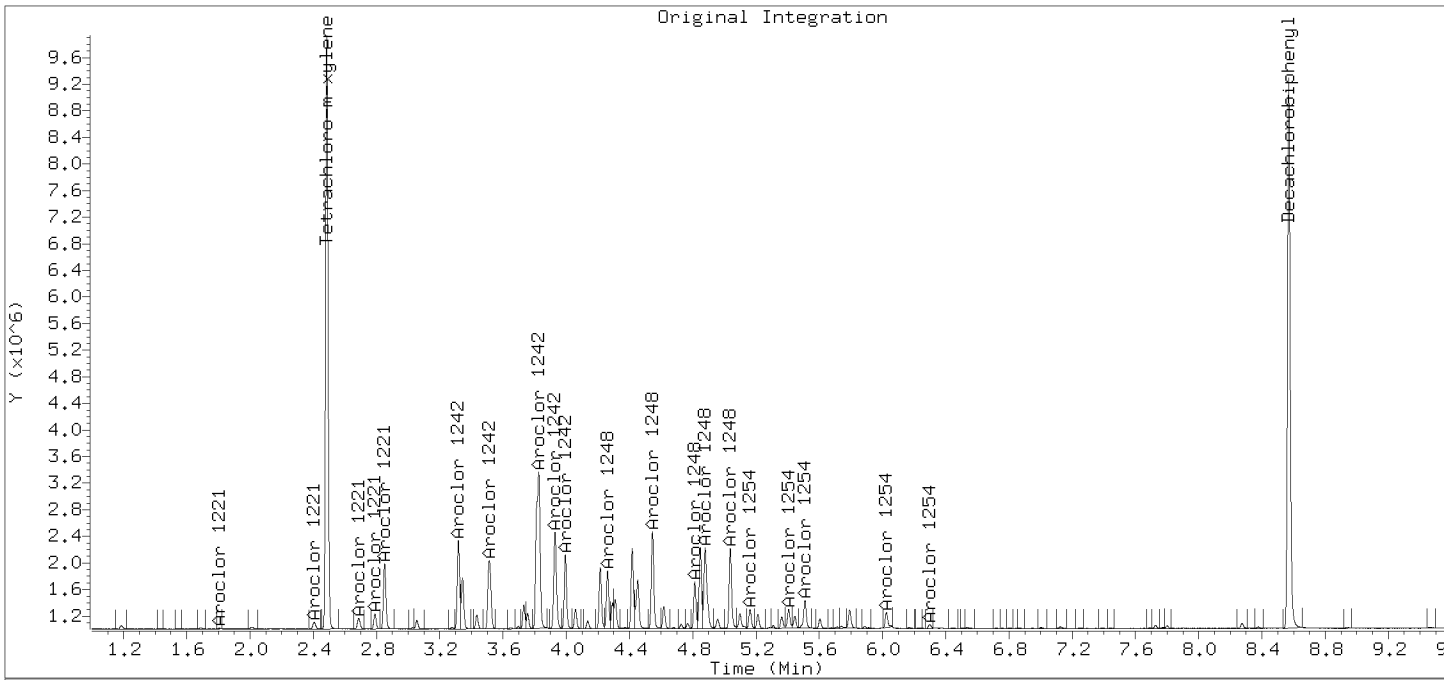
Operator: BLM

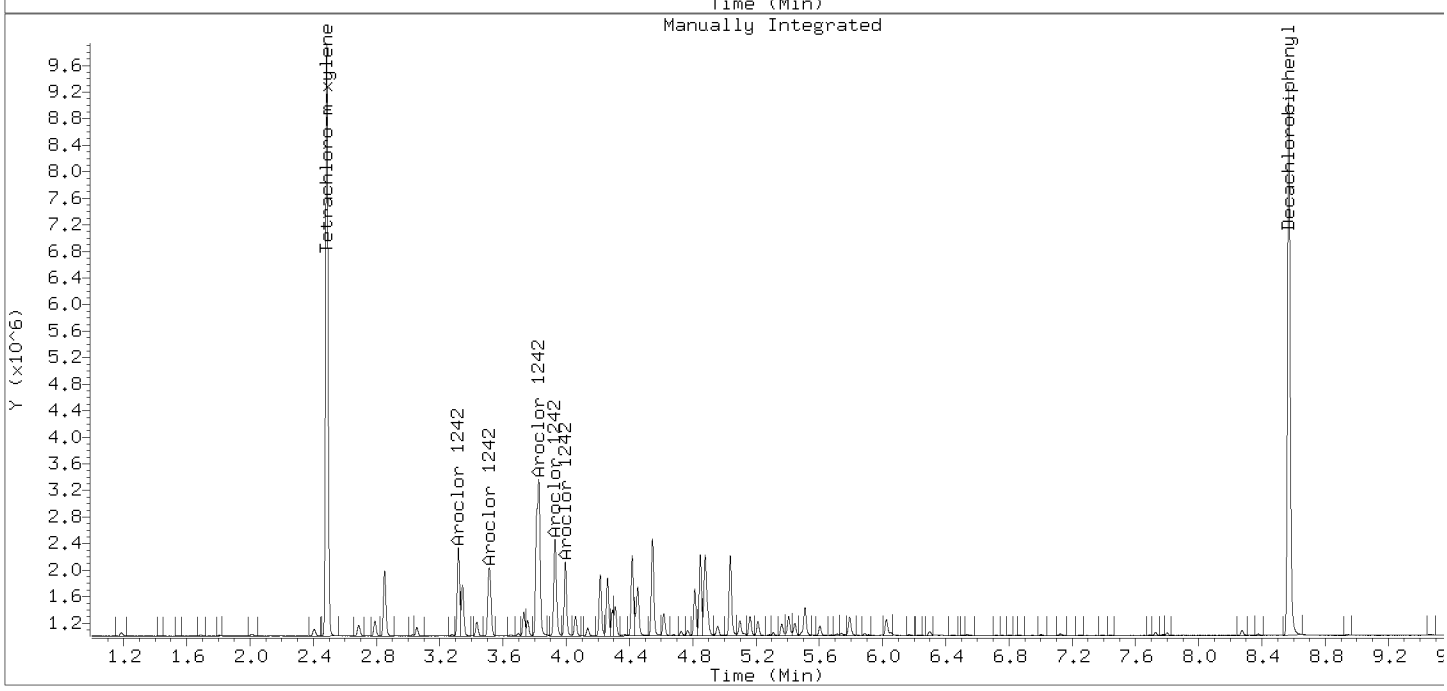
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\042318.b/042318007.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 23-APR-2018 14:31 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1676398





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1451244	0	
Aroclor 1016	1451244	0	
Aroclor 1016	1451244	0	
Aroclor 1016	1451244	0	
Aroclor 1016	1451244	0	
Aroclor 1221	12933	0	
Aroclor 1221	12933	0	
Aroclor 1221	12933	0	
Aroclor 1221	12933	0	
Aroclor 1221	12933	0	
Aroclor 1232	1085816	0	
Aroclor 1232	1085816	0	
Aroclor 1232	1085816	0	
Aroclor 1232	1085816	0	

Aroclor 1232	1085816	0	
Aroclor 1242	1451244	1456822	BA
Aroclor 1242	1451244	1456822	BA
Aroclor 1242	1451244	1456822	BA
Aroclor 1242	1451244	1456822	BA
Aroclor 1242	1451244	1456822	BA
Aroclor 1248	929596	0	
Aroclor 1248	929596	0	
Aroclor 1248	929596	0	
Aroclor 1248	929596	0	
Aroclor 1248	929596	0	
Aroclor 1254	314736	0	
Aroclor 1254	314736	0	
Aroclor 1254	314736	0	
Aroclor 1254	314736	0	
Aroclor 1254	314736	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Tetrachloro-m-xylene	9478224	9478224	
Decachlorobiphenyl	9776657	9776657	

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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: 10/04/2017 14:05
Matrix: Tissue SDG No.: 40157937
Date Extracted: 04/20/2018 07:02
Lab Sample ID: 1676399
Date Analyzed: 04/24/2018 14:29
Lab File ID: 042418.B\042418009.D
Initial wt/vol: 10.0381 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)	233	
11141-16-5	PCB-1232 (Aroclor 1232)	<34.1	U
53469-21-9	PCB-1242 (Aroclor 1242)	526	
12672-29-6	PCB-1248 (Aroclor 1248)	850	
11097-69-1	PCB-1254 (Aroclor 1254)	394	
11096-82-5	PCB-1260 (Aroclor 1260)	82.4	J

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418009.D
Lab Smp Id: 1676399 Client Smp ID: TD1-170828-01-GOSH-
Inj Date : 24-APR-2018 14:29
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1676399 x3,
Misc Info : 17718,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042418.b\pcba030618.m
Meth Date : 25-Apr-2018 09:54 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 9 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	10.038	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.159	15607	11700	0.750	0.02		
1.686	16178	12730	0.787	0.02		
1.770	17410	14798	0.850	0.02		
1.805	22222	11765	0.529	0.03	1 Aroclor 1221	BA
2.408	198406	146462	0.738	0.33	1 Aroclor 1221	BA
2.485	4138380	3849493	0.930	7.52	$ 2 Tetrachloro-m-xylene	BA
2.687	121833	86047	0.706	0.20	1 Aroclor 1221	BA
2.790	143884	119104	0.828	0.24	1 Aroclor 1221	BA
2.851	577729	504460	0.873	0.97	1 Aroclor 1221	BA
2.977	37608	34231	0.910	0.06		
2.989	57373	55473	0.967	0.09		
3.020	106951	105657	0.988	0.18		
3.055	257897	231263	0.897	0.43		
3.278	14116	11922	0.845	0.02		
3.318	789238	738885	0.936	1.32	3 Aroclor 1242	
3.344	520577	466216	0.896	0.87		
3.435	300289	258402	0.861	0.50		
3.517	901711	652581	0.724	1.51	3 Aroclor 1242	
3.648	40790	30843	0.756	0.06		
3.696	26162	24354	0.931	0.04		
3.732	298098	294990	0.990	0.50		
3.756	185641	172929	0.932	0.31		
3.827	2846665	1709274	0.600	4.79	3 Aroclor 1242	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.930	1026260	766838	0.747	1.72	3 Aroclor 1242
3.994	773173	721696	0.933	1.30	3 Aroclor 1242
4.058	339071	272297	0.803	0.57	
4.137	113242	91570	0.809	0.19	
4.215	1690825	1540089	0.911	2.84	
4.260	1707550	1577115	0.924	2.87	6 Aroclor 1248
4.292	1699298	1223742	0.720	2.86	
4.348	202727	171383	0.845	0.34	
4.417	1475153	1350762	0.916	2.48	
4.451	1144269	934900	0.817	1.92	
4.546	1944526	1755838	0.903	3.27	6 Aroclor 1248
4.590	84424	78013	0.924	0.14	
4.617	401917	337559	0.840	0.67	
4.680	96321	74654	0.775	0.16	
4.728	156025	101285	0.649	0.26	
4.767	254750	235097	0.923	0.42	
4.812	1239413	1187065	0.958	2.08	6 Aroclor 1248
4.848	1331497	1227557	0.922	2.24	
4.878	2832922	1911943	0.675	4.77	6 Aroclor 1248
4.957	427779	357647	0.836	0.72	
5.036	1702107	1562425	0.918	2.86	6 Aroclor 1248
5.100	782803	619041	0.791	1.31	
5.162	1475422	1298981	0.880	2.48	7 Aroclor 1254
5.212	1397007	1151090	0.824	2.35	
5.282	112775	101800	0.903	0.18	
5.309	252059	196769	0.781	0.42	
5.362	544633	469202	0.862	0.91	
5.405	1084325	951758	0.878	1.82	7 Aroclor 1254
5.447	1039470	822313	0.791	1.75	
5.486	96692	120924	1.251	0.16	
5.509	1953985	1647405	0.843	3.29	7 Aroclor 1254
5.576	64616	55357	0.857	0.10	
5.604	379432	306872	0.809	0.63	
5.675	280532	236209	0.842	0.47	
5.712	235429	160288	0.681	0.39	
5.741	338202	235839	0.697	0.56	
5.790	2316517	1711848	0.739	3.90	
5.888	262823	153144	0.583	0.44	
5.931	112428	85685	0.762	0.18	
5.962	75404	65816	0.873	0.12	
5.993	309782	283193	0.914	0.52	
6.024	1178032	1047421	0.889	1.98	7 Aroclor 1254
6.055	1389323	1125024	0.810	2.33	
6.168	372423	243505	0.654	0.62	
6.226	138394	141454	1.022	0.23	
6.241	209335	156270	0.747	0.35	
6.299	1882324	1528969	0.812	3.16	7 Aroclor 1254
6.332	255414	216048	0.846	0.43	
6.373	144508	98471	0.681	0.24	
6.430	170834	99460	0.582	0.28	
6.481	29660	29135	0.982	0.04	
6.509	390068	335180	0.859	0.65	
6.535	426400	376578	0.883	0.71	
6.559	170643	137751	0.807	0.28	
6.603	116497	71414	0.613	0.19	
6.660	71684	45999	0.642	0.12	
6.717	216454	164041	0.758	0.36	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.757	191252	144351	0.755	0.32	
6.801	275944	228284	0.827	0.46	
6.840	145721	77681	0.533	0.24	
6.910	29015	23206	0.800	0.04	
6.941	265105	229706	0.866	0.44	
7.003	488793	434735	0.889	0.82	8 Aroclor 1260
7.033	61273	47055	0.768	0.10	
7.072	17271	14689	0.850	0.02	
7.122	42364	25383	0.599	0.07	
7.249	256918	227825	0.887	0.43	8 Aroclor 1260
7.282	124980	80415	0.643	0.21	
7.342	55277	28484	0.515	0.09	
7.389	121829	114402	0.939	0.20	
7.441	192964	137122	0.711	0.32	8 Aroclor 1260
7.547	32390	23850	0.736	0.05	
7.609	26528	16332	0.616	0.04	
7.663	19195	21350	1.112	0.03	
7.693	56226	46189	0.821	0.09	
7.727	55772	39491	0.708	0.09	
7.762	32926	21704	0.659	0.05	
7.812	73392	43692	0.595	0.12	
7.900	136478	97182	0.712	0.22	8 Aroclor 1260
7.964	29199	16724	0.573	0.04	
8.048	31774	22800	0.718	0.05	
8.274	87491	72111	0.824	0.14	
8.571	3924789	3380938	0.861	6.60	$ 12 Decachlorobiphenyl
8.725	16370	14301	0.874	0.02	
9.056	17744	13432	0.757	0.02	
9.167	17202	15683	0.912	0.02	
	59380521	49172425		100.000	

Total unknown % area = 43

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418009.D
Lab Smp Id: 1676399 Client Smp ID: TD1-170828-01-GOSH-
Inj Date : 24-APR-2018 14:29
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1676399 x3,
Misc Info : 17718,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042418.b\pcba030618.m
Meth Date : 25-Apr-2018 09:54 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 9 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	10.038	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	22222	0.02134	32	0.00- 20.00	100.00(M)	BA
2.408	2.407	0.001	198405	0.36216	540	0.00- 20.00	892.83	BA
2.687	2.688	-0.001	121833	0.08807	130	0.00- 20.00	548.25	BA
2.790	2.789	0.001	143884	0.13012	190	0.00- 20.00	647.48	BA
2.851	2.851	0.000	577728	0.17747	260	0.00- 20.00	2599.80	BA
Average of Peak Concentrations =					230			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	4138379	0.03356	50		(M)	BA
3 Aroclor 1242					CAS #: 53469-21-9			
3.317	3.318	-0.001	789237	0.31156	460	0.00- 20.00	100.00(RM)	
3.516	3.513	0.003	885575	0.35141	520	0.00- 20.00	112.21	
3.827	3.827	0.000	2821605	0.39649	590	0.00- 20.00	357.51	
3.929	3.929	0.000	1007136	0.33113	490	0.00- 20.00	127.61	
3.994	3.995	-0.001	755020	0.36871	550	0.00- 20.00	95.66	
Average of Peak Concentrations =					520			

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	1707550	0.72880	1100	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1944525	0.46853	700	0.00- 20.00	113.88	BA
4.812	4.812	0.000	1239412	0.61052	910	0.00- 20.00	72.58	BA
4.878	4.879	-0.001	2832921	0.56237	840	0.00- 20.00	165.91	BA
5.036	5.038	-0.002	1702107	0.47432	710	0.00- 20.00	99.68	BA
Average of Peak Concentrations =					850			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	1475422	0.28182	420	0.00- 20.00	100.00(M)	CO
5.404	5.408	-0.004	1084324	0.25211	380	0.00- 20.00	73.49	CO
5.509	5.510	-0.001	1953985	0.25161	380	0.00- 20.00	132.44	CO
6.024	6.027	-0.003	1178032	0.24191	360	0.00- 20.00	79.84	CO
6.298	6.299	-0.001	1882324	0.28927	430	0.00- 20.00	127.58	CO
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
7.003	7.006	-0.003	488793	0.04881	73	0.00- 20.00	25.97	BA
7.249	7.251	-0.002	256918	0.05375	80	0.00- 20.00	13.65	BA
7.441	7.443	-0.002	192964	0.06619	99	0.00- 20.00	10.25	BA
7.900	7.901	-0.001	136478	0.05172	77	0.00- 20.00	7.25	BA
Average of Peak Concentrations =					82			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	3924789	0.03582	54			

QC Flag Legend

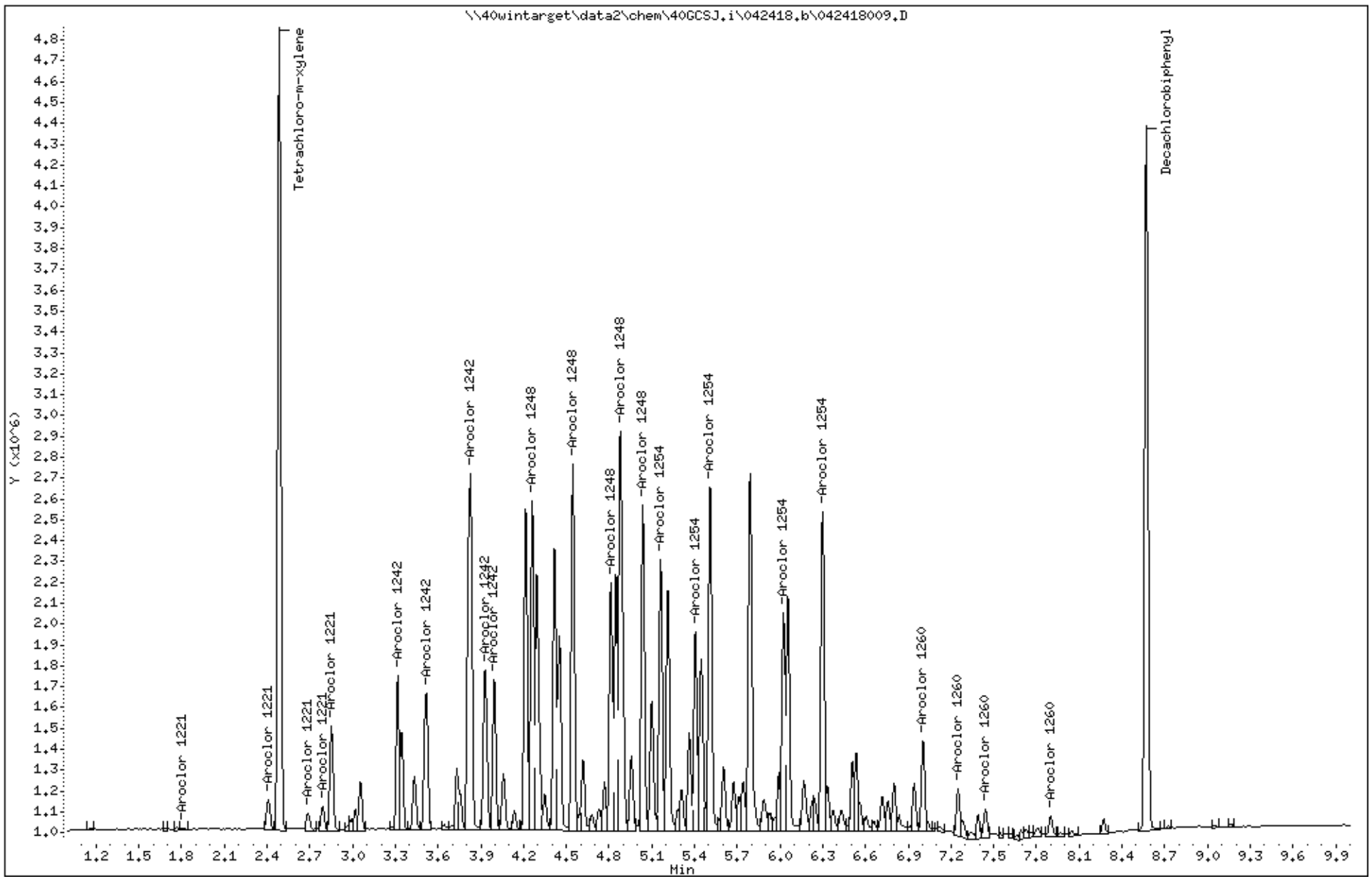
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Review Codes Legend

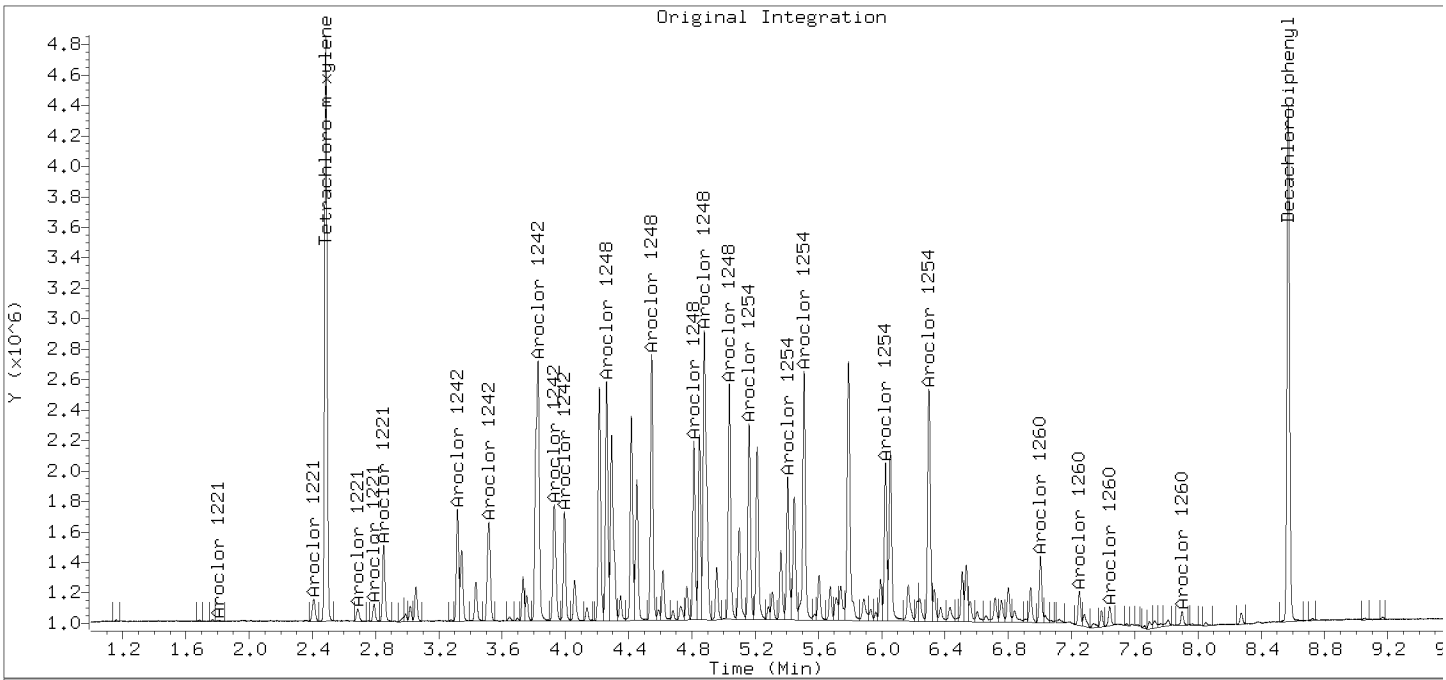
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

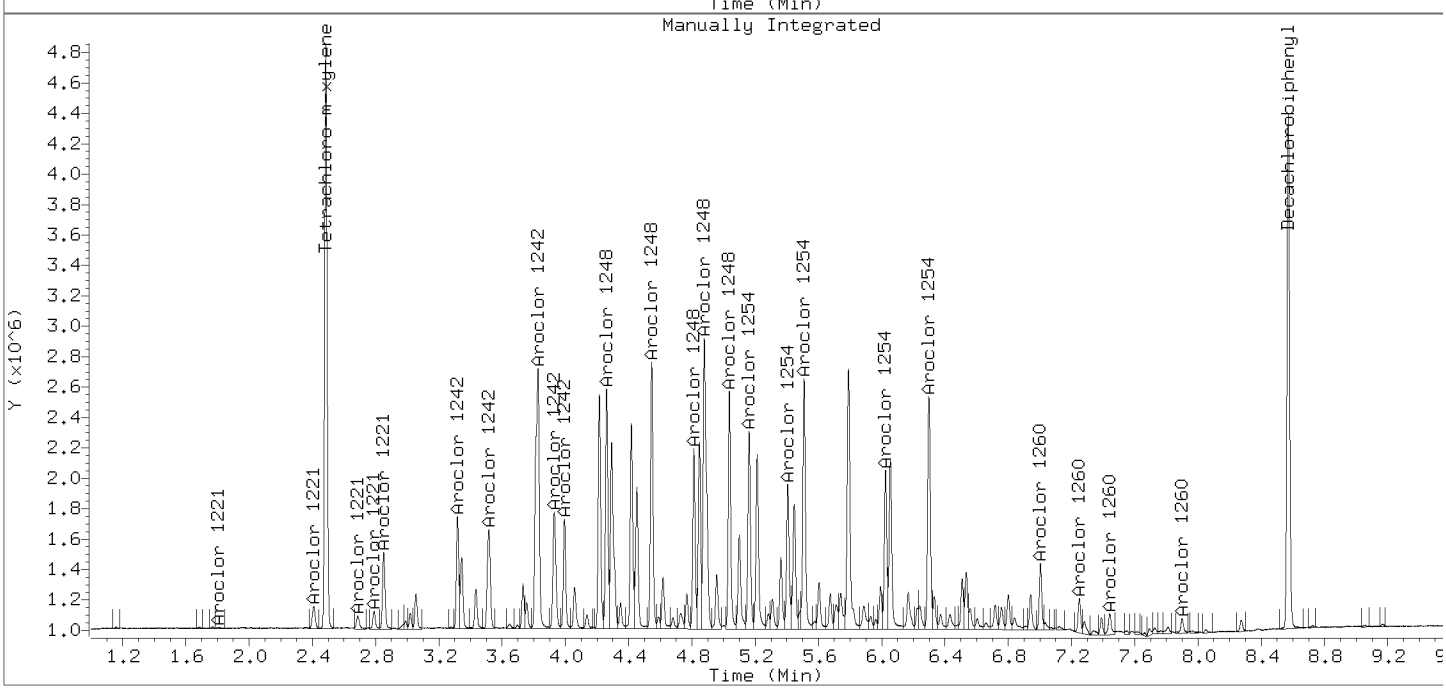
Data File: \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418009.D
Date : 24-APR-2018 14:29
Client ID: TD1-170828-01-GOSH-
Sample Info: 1676399 x3,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\042418.b/042418009.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 24-APR-2018 14:29 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1676399





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	783905	0	
Aroclor 1016	783905	0	
Aroclor 1016	783905	0	
Aroclor 1016	783905	0	
Aroclor 1016	783905	0	
Aroclor 1221	17765	22222	BA
Aroclor 1221	17765	22222	BA
Aroclor 1221	17765	22222	BA
Aroclor 1221	17765	22222	BA
Aroclor 1221	17765	22222	BA
Aroclor 1232	556813	0	
Aroclor 1232	556813	0	
Aroclor 1232	556813	0	
Aroclor 1232	556813	0	

Aroclor 1232	556813	0	
Aroclor 1242	783905	789237	
Aroclor 1242	783905	789237	
Aroclor 1242	783905	789237	
Aroclor 1242	783905	789237	
Aroclor 1242	783905	789237	
Aroclor 1248	1691112	1707550	BA
Aroclor 1248	1691112	1707550	BA
Aroclor 1248	1691112	1707550	BA
Aroclor 1248	1691112	1707550	BA
Aroclor 1248	1691112	1707550	BA
Aroclor 1254	1426759	1475422	CO
Aroclor 1254	1426759	1475422	CO
Aroclor 1254	1426759	1475422	CO
Aroclor 1254	1426759	1475422	CO
Aroclor 1254	1426759	1475422	CO
Aroclor 1260	1862225	0	BA
Aroclor 1260	1862225	0	BA
Aroclor 1260	1862225	0	BA
Aroclor 1260	1862225	0	BA
Aroclor 1260	1862225	0	BA
Tetrachloro-m-xylene	4114233	4138379	BA
Decachlorobiphenyl	3924789	3924789	

==========

SAMPLE NO.

DUP

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTION M

Date Received: 10/04/2017 14:05

Matrix: Tissue SDG No.: 40157937

Date Extracted: 04/20/2018 07:02

Lab Sample ID: 1676400

Date Analyzed: 04/23/2018 21:23

Lab File ID: 042318.B\042318033.D

Initial wt/vol: 10.0218 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)	116	
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)	607	
11097-69-1	PCB-1254 (Aroclor 1254)	351	
11096-82-5	PCB-1260 (Aroclor 1260)	76.0	J

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042318.b\042318033.D
Lab Smp Id: 1676400 Client Smp ID: TD1-170828-01-GOSH-
Inj Date : 23-APR-2018 21:23
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1676400 x2,
Misc Info : 17718,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042318.b\pcba030618.m
Meth Date : 24-Apr-2018 13:17 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 33 QC Sample: FIELDDUP
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	10.022	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.026	9957	8066	0.810	0.01		
1.161	21800	16420	0.753	0.03		
1.432	10649	7632	0.717	0.01		
1.769	24816	23744	0.957	0.03		
2.410	199315	153766	0.771	0.29	1 Aroclor 1221	BA
2.485	5938513	5481476	0.923	9.35	$ 2 Tetrachloro-m-xylene	BA
2.685	25244	15407	0.610	0.03	1 Aroclor 1221	BA
2.792	50379	32404	0.643	0.07	1 Aroclor 1221	BA
2.851	119798	79136	0.661	0.17	1 Aroclor 1221	BA
2.990	137120	83302	0.608	0.20		
3.019	154901	151152	0.976	0.23		
3.056	293183	260956	0.890	0.43		
3.318	227298	211214	0.929	0.33		
3.345	237894	223402	0.939	0.35		
3.434	283232	258107	0.911	0.42		
3.519	423219	355866	0.841	0.63		
3.644	41467	33501	0.808	0.06		
3.731	207302	204040	0.984	0.30		
3.755	117066	107467	0.918	0.17		
3.827	1584869	1050254	0.663	2.36		
3.936	374441	262106	0.700	0.55		
3.993	397132	368620	0.928	0.59		
4.059	275708	220521	0.800	0.41		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.135	82888	62375	0.753	0.12	
4.214	1914919	1716079	0.896	2.85	
4.260	1930563	1815878	0.941	2.87	6 Aroclor 1248
4.292	1987863	1529456	0.769	2.96	
4.348	252380	237021	0.939	0.37	
4.417	1395393	1274606	0.913	2.07	
4.452	1042757	931466	0.893	1.55	
4.545	1885148	1748834	0.928	2.80	6 Aroclor 1248
4.589	106413	97515	0.916	0.15	
4.617	325104	280229	0.862	0.48	
4.681	113217	92665	0.818	0.16	
4.733	170079	105648	0.621	0.25	
4.767	311778	291339	0.934	0.46	
4.812	1381048	1282971	0.929	2.05	6 Aroclor 1248
4.847	1170282	1092857	0.934	1.74	
4.879	3161500	2109473	0.667	4.70	6 Aroclor 1248
4.956	490635	420707	0.857	0.73	
5.036	1634627	1502096	0.919	2.43	6 Aroclor 1248
5.100	959577	800100	0.834	1.42	
5.161	1947494	1683664	0.865	2.90	7 Aroclor 1254
5.213	1856211	1531044	0.825	2.76	
5.282	149229	135130	0.906	0.22	
5.309	315527	257482	0.816	0.46	
5.362	679083	596580	0.879	1.01	
5.406	1397548	1220306	0.873	2.08	7 Aroclor 1254
5.447	1378373	1148013	0.833	2.05	
5.482	125660	143053	1.138	0.18	
5.509	2502596	2129532	0.851	3.72	7 Aroclor 1254
5.575	96549	71614	0.742	0.14	
5.603	450099	361431	0.803	0.67	
5.674	377323	325300	0.862	0.56	
5.711	325462	220187	0.677	0.48	
5.740	454261	325557	0.717	0.67	
5.789	2940245	2417243	0.822	4.37	
5.886	341737	202948	0.594	0.50	
5.929	155506	120271	0.773	0.23	
5.963	112352	104290	0.928	0.16	
5.993	436276	412260	0.945	0.64	
6.023	1585274	1386404	0.875	2.36	7 Aroclor 1254
6.055	1931050	1645970	0.852	2.87	
6.167	516023	345770	0.670	0.76	
6.226	208885	201320	0.964	0.31	
6.241	282012	222103	0.788	0.41	
6.298	2696610	2235402	0.829	4.01	7 Aroclor 1254
6.331	350442	303131	0.865	0.52	
6.372	200298	137082	0.684	0.29	
6.431	228973	144949	0.633	0.34	
6.509	571471	486872	0.852	0.85	
6.534	629860	563170	0.894	0.93	
6.559	233613	198372	0.849	0.34	
6.604	139385	105114	0.754	0.20	
6.659	103421	63582	0.615	0.15	
6.717	308697	241461	0.782	0.45	
6.757	266307	208720	0.784	0.39	
6.799	406038	339474	0.836	0.60	
6.839	176982	112647	0.636	0.26	
6.907	43314	32532	0.751	0.06	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.940	398833	340645	0.854	0.59	
7.002	712066	657140	0.923	1.06	8 Aroclor 1260
7.033	56341	67351	1.195	0.08	
7.123	53580	30882	0.576	0.07	
7.249	367088	321488	0.876	0.54	8 Aroclor 1260
7.280	155457	111026	0.714	0.23	
7.341	57118	33178	0.581	0.08	
7.388	167773	153349	0.914	0.24	
7.442	262414	192945	0.735	0.39	8 Aroclor 1260
7.492	72786	31330	0.430	0.10	
7.546	45027	31815	0.707	0.06	
7.581	41458	24031	0.580	0.06	
7.664	20232	24862	1.229	0.03	
7.691	61996	57663	0.930	0.09	
7.727	66474	47809	0.719	0.09	
7.764	38808	22609	0.583	0.05	
7.809	96277	59611	0.619	0.14	
7.874	26925	17632	0.655	0.04	
7.899	176414	138836	0.787	0.26	8 Aroclor 1260
7.961	50174	20521	0.409	0.07	
8.049	37059	29976	0.809	0.05	
8.273	122688	107954	0.880	0.18	
8.377	17583	12518	0.712	0.02	
8.569	5586817	4955700	0.887	8.31	$ 12 Decachlorobiphenyl
8.724	23510	20358	0.866	0.03	
9.052	19589	17968	0.917	0.02	
9.166	28669	25407	0.886	0.04	
	67154824	56934458		100.000	

Total unknown % area = 50

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042318.b\042318033.D
Lab Smp Id: 1676400 Client Smp ID: TD1-170828-01-GOSH-
Inj Date : 23-APR-2018 21:23
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1676400 x2,
Misc Info : 17718,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042318.b\pcba030618.m
Meth Date : 24-Apr-2018 13:17 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 33 QC Sample: FIELDDUP
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	10.022	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	199315	0.36382	360	0.00- 20.00	0.00	BA
2.685	2.688	-0.003	25243	0.01825	18	0.00- 20.00	0.00	BA
2.791	2.789	0.002	50379	0.04556	45	0.00- 20.00	0.00	BA
2.850	2.851	-0.001	119798	0.03680	37	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					120			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	5938513	0.04817	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	1930563	0.82398	820	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1885148	0.45422	450	0.00- 20.00	97.65	BA
4.812	4.812	0.000	1381048	0.68029	680	0.00- 20.00	71.54	BA
4.878	4.879	-0.001	3161500	0.62760	630	0.00- 20.00	163.76	BA
5.036	5.038	-0.002	1634626	0.45551	450	0.00- 20.00	84.67	BA
Average of Peak Concentrations =					610			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	1947494	0.37200	370	0.00- 20.00	100.00(M)	CO
5.406	5.408	-0.002	1397548	0.32493	320	0.00- 20.00	71.76	CO
5.509	5.510	-0.001	2502596	0.32225	320	0.00- 20.00	128.50	CO
6.022	6.027	-0.005	1585274	0.32554	320	0.00- 20.00	81.40	CO
6.297	6.299	-0.002	2696610	0.41441	410	0.00- 20.00	138.47	CO
Average of Peak Concentrations =					350			
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
7.002	7.006	-0.004	712065	0.07110	71	0.00- 20.00	28.46	CO
7.249	7.251	-0.002	367088	0.07680	77	0.00- 20.00	13.61	CO
7.441	7.443	-0.002	262414	0.09002	90	0.00- 20.00	9.73	CO
7.899	7.901	-0.002	176414	0.06686	67	0.00- 20.00	6.54	CO
Average of Peak Concentrations =					76			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.568	8.571	-0.003	5586817	0.05099	51			

QC Flag Legend

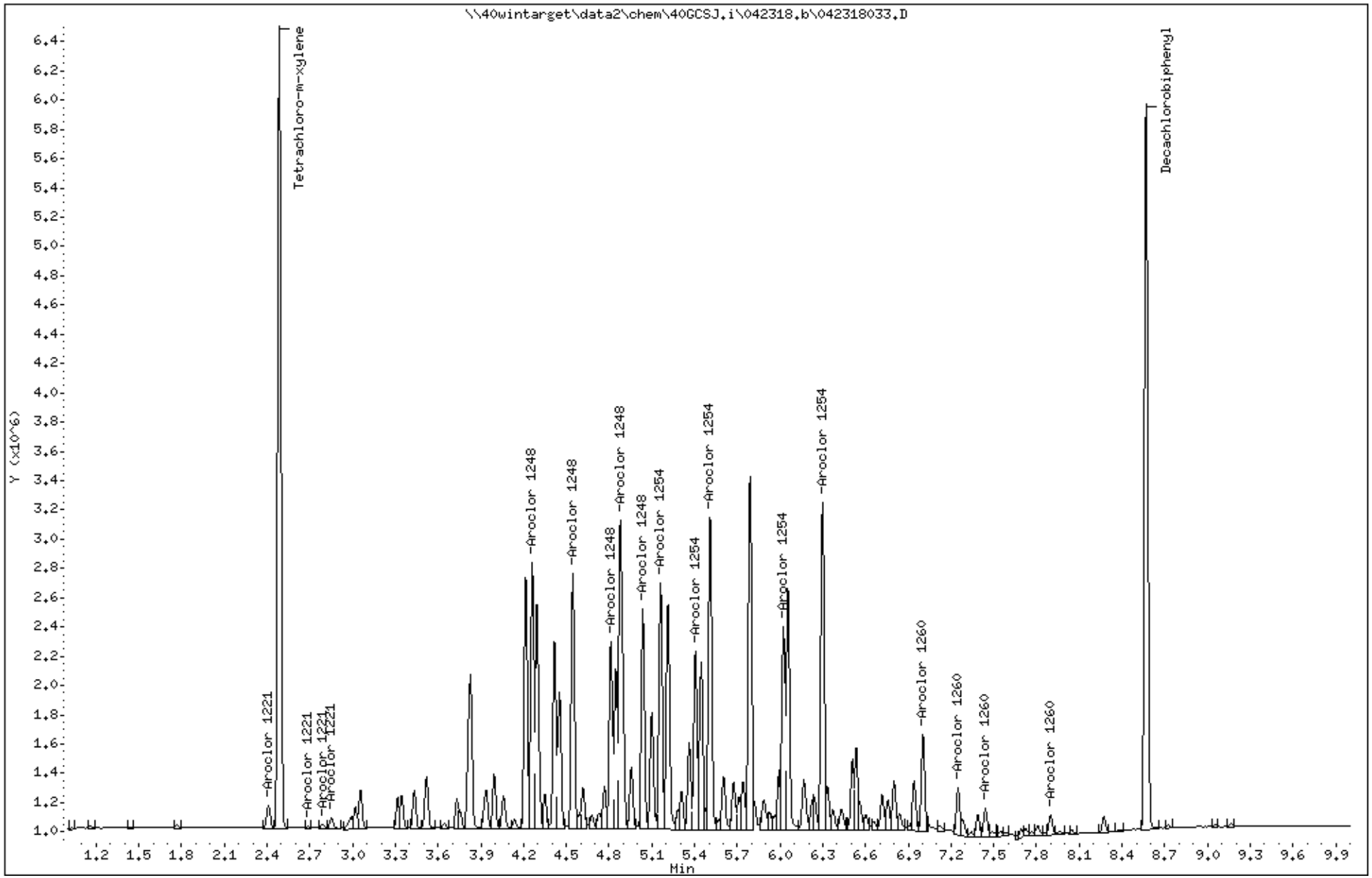
M - Compound response manually integrated.

Review Codes Legend

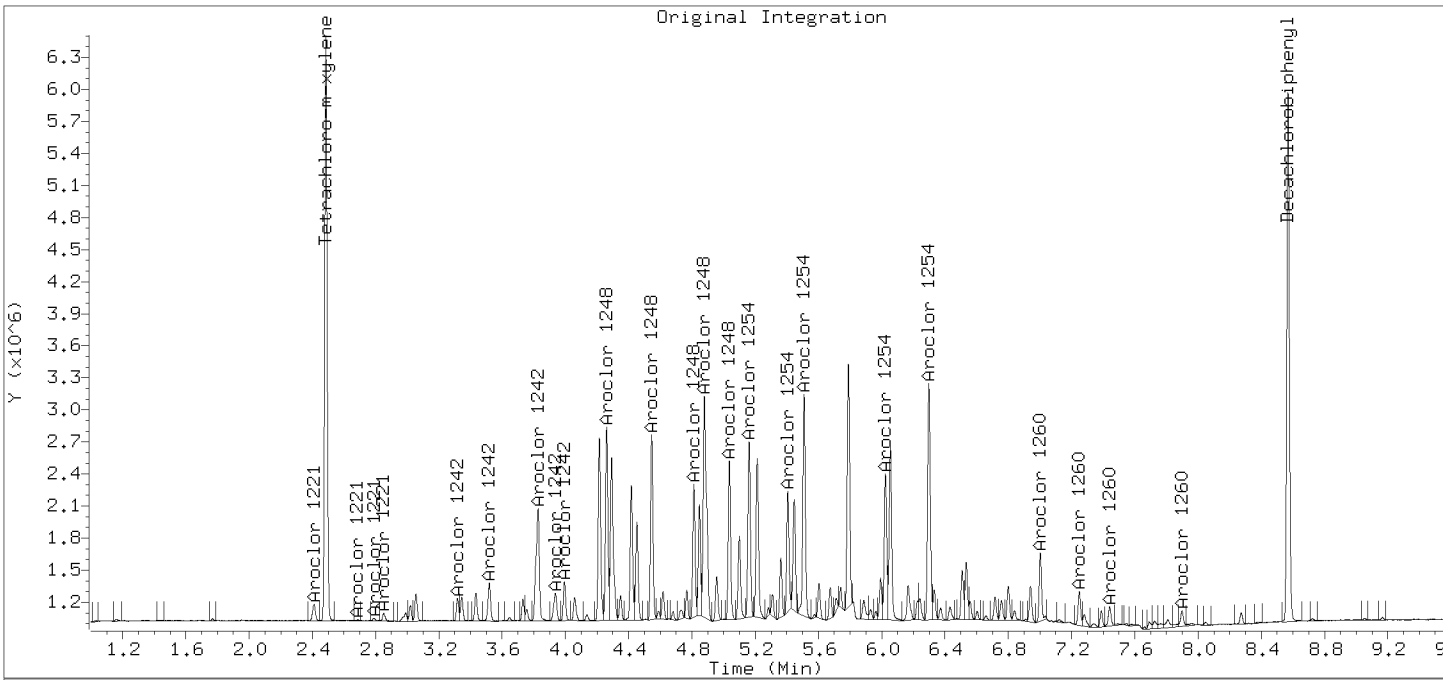
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

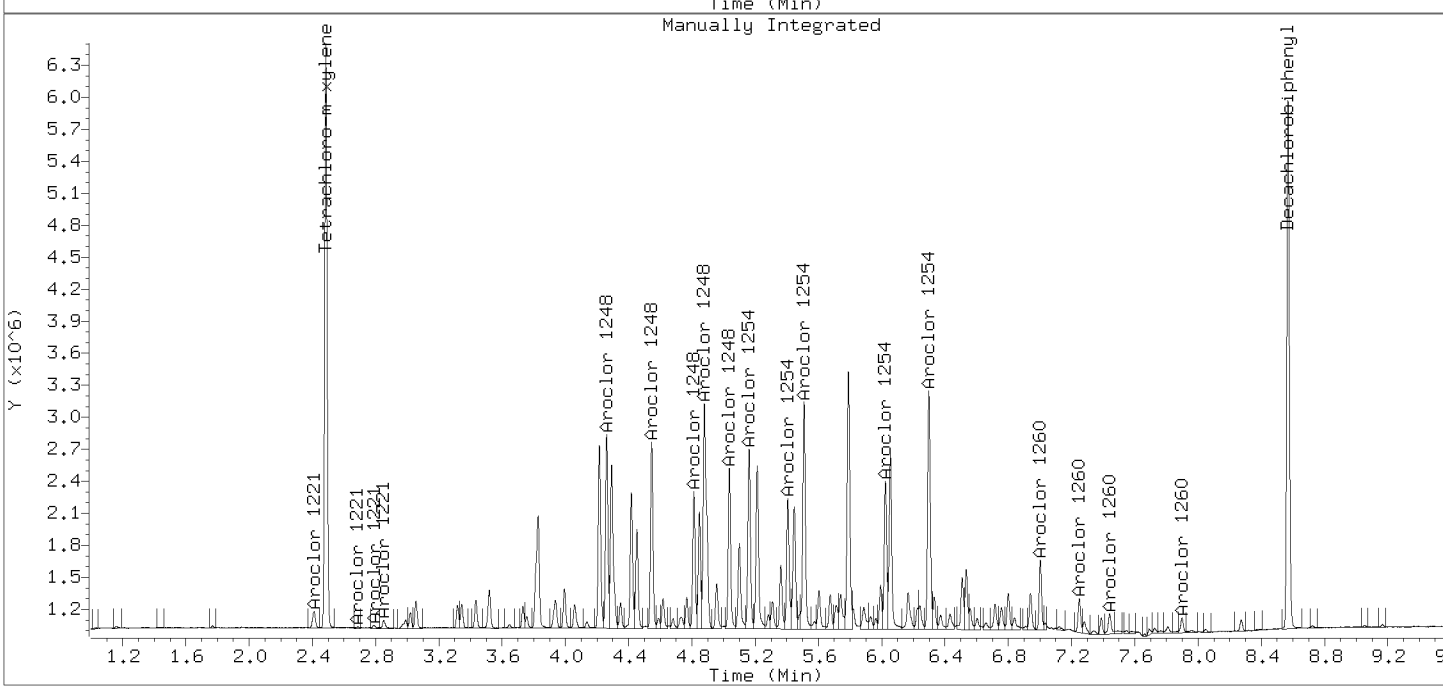
Data File: \\40wintarget\data2\chem\40GCSJ.i\042318.b\042318033.D
Date : 23-APR-2018 21:23
Client ID: TD1-170828-01-GOSH-
Sample Info: 1676400 x2,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\042318.b/042318033.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 23-APR-2018 21:23 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1676400





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	227297	0	
Aroclor 1016	227297	0	
Aroclor 1016	227297	0	
Aroclor 1016	227297	0	
Aroclor 1016	227297	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	103805	0	
Aroclor 1232	103805	0	
Aroclor 1232	103805	0	
Aroclor 1232	103805	0	

Aroclor 1232	103805	0	
Aroclor 1242	227297	0	
Aroclor 1242	227297	0	
Aroclor 1242	227297	0	
Aroclor 1242	227297	0	
Aroclor 1242	227297	0	
Aroclor 1248	1908563	1930563	BA
Aroclor 1248	1908563	1930563	BA
Aroclor 1248	1908563	1930563	BA
Aroclor 1248	1908563	1930563	BA
Aroclor 1248	1908563	1930563	BA
Aroclor 1254	1813668	1947494	CO
Aroclor 1254	1813668	1947494	CO
Aroclor 1254	1813668	1947494	CO
Aroclor 1254	1813668	1947494	CO
Aroclor 1254	1813668	1947494	CO
Aroclor 1260	2619262	0	CO
Aroclor 1260	2619262	0	CO
Aroclor 1260	2619262	0	CO
Aroclor 1260	2619262	0	CO
Aroclor 1260	2619262	0	CO
Tetrachloro-m-xylene	5919443	5938513	BA
Decachlorobiphenyl	5586817	5586817	

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Prep Log Report

Batch Information: OEXT 286580 PCB-B

Template Version: F-GB-O-113-Rev.05 (22Mar2018)

Prep Method	EPA 3541	Analysis Method	EPA 8082A Mod	Extracted By	ETB	Extracted Date/Time	04/20/2018 07:02:59:430
Spiked By	ETB	Spiked By Date/Time	04/20/2018 07:03:04:030	Witnessed By	AMC	Witnessed By Date/Time	04/20/2018 07:03:04:030
Instrument	40BALL	Conc. Temp #1	40	Conc. Temp #2	40	Methylene Chloride	None Added
Hexane/Acetone 1:1	194436	Hexane	192551	Sodium Sulfate	193625	Florisil	186910
3620B Date/Initials	04/23/18 ETB	H2SO4 - Conc.	179362	Acid 3665A Date/Initials	04/23/18 ETB	Tuna	None Added
Reviewed By	BLM	Reviewed By Date	04/24/2018 13:20	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	**1676397**	10	5	3		193230 (.25)	
8082A TNYP	LCS	**1676398**	10	5	3		193230 (.25)	192096 (.125)
8082A TNYP	PS	**40157937001**	7.5546	5	3		193230 (.25)	
8082A TNYP	PS	**40157937002**	6.8751	5	3		193230 (.25)	
8082A TNYP	PS	**40157937003**	8.302	5	3		193230 (.25)	
8082A TNYP	PS	**40157937004**	10.0007	5	3		193230 (.25)	
8082A TNYP	PS	**40157937005**	10.0175	5	3		193230 (.25)	
8082A TNYP	PS	**40157937006**	10.0036	5	3		193230 (.25)	
8082A TNYP	PS	**40157937007**	9.9924	5	3		193230 (.25)	
8082A TNYP	PS	**40157937008**	10.0338	5	3		193230 (.25)	
8082A TNYP	PS	**40157937009**	9.9831	5	3		193230 (.25)	
8082A TNYP	PS	**40157937010**	10.0232	5	3		193230 (.25)	
8082A TNYP	PS	**40157937011**	9.987	5	3		193230 (.25)	
8082A TNYP	PS	**40157937012**	10.0097	5	3		193230 (.25)	
8082A TNYP	PS	**40157937013**	7.9251	5	3		193230 (.25)	
8082A TNYP	PS	**40157937014**	9.9813	5	3		193230 (.25)	

Prep Log Report

QC Rule	Sample Type	Lab Sample ID	Initial Weight (g)	Final Volume (mL)	Volume Delivered (mL)	Sample Notes	8081-SS (mL)	AR1242-SPK (mL)
8082A TNYP	PS	**40157937015**	4.7352	5	3		193230 (.25)	
8082A TNYP	PS	**40157937016**	9.4055	5	3		193230 (.25)	
8082A TNYP	PS	**40157937017**	7.7499	5	3		193230 (.25)	
8082A TNYP	PS	**40157937018**	9.9711	5	3		193230 (.25)	
8082A TNYP	PS	**40157937019**	9.9762	5	3		193230 (.25)	
8082A TNYP	RQS	**40157937020**	9.9997	5	3		193230 (.25)	
8082A TNYP	MS	**1676399**	10.0381	5	3		193230 (.25)	192096 (.125)
8082A TNYP	DUP	**1676400**	10.0218	5	3		193230 (.25)	

Standard Notes:

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

```
   Sequence Name: C:\msdchem\1\sequence\042318.s
         Comment:
        Operator:
       Data Path: C:\MSDCHEM\1\DATA\042318\
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  1676397MB
     Datafile          --------
     Method            SCREEN2014
 4) Sample          4  1676398LCS
     Datafile          --------
     Method            SCREEN2014
 5) RearSamp        5  40157937-001 x3
     Datafile          --------
     Method            SCREEN2014
 6) Sample          6  40157937-002 x3
     Datafile          --------
     Method            SCREEN2014
 7) RearSamp        7  40157937-003 x3
     Datafile          --------
     Method            SCREEN2014
 8) Sample          8  40157937-004 x4
     Datafile          --------
     Method            SCREEN2014
 9) RearSamp        9  40157937-005 x4
     Datafile          --------
     Method            SCREEN2014
10) Sample         10  40157937-006 x4
     Datafile          --------
     Method            SCREEN2014
11) RearSamp       11  40157937-007 x3
     Datafile          --------
     Method            SCREEN2014
12) Sample         12  40157937-008 x5
     Datafile          --------
     Method            SCREEN2014
13) RearSamp       13  40157937-009 x3
     Datafile          --------
     Method            SCREEN2014
14) Sample         14  40157937-010 x5
     Datafile          --------
     Method            SCREEN2014
15) RearSamp       15  40157937-011 x2
     Datafile          --------
     Method            SCREEN2014
16) Sample         16  40157937-012 x2
     Datafile          --------
     Method            SCREEN2014
17) RearSamp       17  40157937-013 —
     Datafile          --------
     Method            SCREEN2014
18) Sample         18  40157937-014 x3
     Datafile          --------
     Method            SCREEN2014
19) RearSamp       19  40157937-015 x10
     Datafile          --------

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GE BIOTA

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```
      Method                SCREEN2014
20) Sample          20  40157937-016 x5
      Datafile              --------
      Method                SCREEN2014
21) RearSamp        21  40157937-017 —
      Datafile              --------
      Method                SCREEN2014
22) Sample          22  40157937-018 x5
      Datafile              --------
      Method                SCREEN2014
23) RearSamp        23  40157937-019 x15
      Datafile              --------
      Method                SCREEN2014
24) Sample          24  40157937-020P x2
      Datafile              --------
      Method                SCREEN2014
25) RearSamp        25  1676399MS x2
      Datafile              --------
      Method                SCREEN2014
26) Sample          26  1676400DUP x2
      Datafile              --------
      Method                SCREEN2014
```

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Signed 4/24/18 Date Signed 4/24/18 Date

```
   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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```
      Datafile          030618019
      Method            GEBIOTA2017
21) Sample        11    HEXANE
      Datafile          030618020
      Method            GEBIOTA2017
22) RearSamp      13    1242-CAL2B,185543:1,17499,NSA
      Datafile          030618021
      Method            GEBIOTA2017
23) Sample        12    1242-CAL1B,188132:1,17498,NSA
      Datafile          030618022
      Method            GEBIOTA2017
24) RearSamp      14    1242-CAL3B,185544:1,17499,NSA
      Datafile          030618023
      Method            GEBIOTA2017
25) Sample        13    1242-CAL2B,185543:1,17498,NSA
      Datafile          030618024
      Method            GEBIOTA2017
26) RearSamp      15    1242-CAL4B,185545:1,17499,NSA
      Datafile          030618025
      Method            GEBIOTA2017
27) Sample        14    1242-CAL3B,185544:1,17498,NSA
      Datafile          030618026
      Method            GEBIOTA2017
28) RearSamp      16    1242-CAL5B,185546:1,17499,NSA
      Datafile          030618027
      Method            GEBIOTA2017
29) Sample        15    1242-CAL4B,185545:1,17498,NSA
      Datafile          030618028
      Method            GEBIOTA2017
30) RearSamp      17    HEXANE
      Datafile          030618029
      Method            GEBIOTA2017
31) Sample        16    1242-CAL5B,185546:1,17498,NSA
      Datafile          030618030
      Method            GEBIOTA2017
32) RearSamp      18    1248-CAL1D,188134:1,17499,NSA
      Datafile          030618031
      Method            GEBIOTA2017
33) Sample        17    HEXANE
      Datafile          030618032
      Method            GEBIOTA2017
34) RearSamp      19    1248-CAL2D,185548:1,17499,NSA
      Datafile          030618033
      Method            GEBIOTA2017
35) Sample        18    1248-CAL1D,188134:1,17498,NSA
      Datafile          030618034
      Method            GEBIOTA2017
36) RearSamp      20    1248-CAL3D,185549:1,17499,NSA
      Datafile          030618035
      Method            GEBIOTA2017
37) Sample        19    1248-CAL2D,185548:1,17498,NSA
      Datafile          030618036
      Method            GEBIOTA2017
38) RearSamp      21    1248-CAL4D,185550:1,17499,NSA
      Datafile          030618037
      Method            GEBIOTA2017
39) Sample        20    1248-CAL3D,185549:1,17498,NSA
      Datafile          030618038
      Method            GEBIOTA2017
40) RearSamp      22    1248-CAL5D,185551:1,17499,NSA
      Datafile          030618039
      Method            GEBIOTA2017
41) Sample        21    1248-CAL4D,185550:1,17498,NSA
      Datafile          030618040
      Method            GEBIOTA2017
42) RearSamp      23    HEXANE
      Datafile          030618041
      Method            GEBIOTA2017
43) Sample        22    1248-CAL5D,185551:1,17498,NSA
      Datafile          030618042
      Method            GEBIOTA2017

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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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Bryan Meyer — Signed — 3/7/18 Date

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```
      Method                GEBIOTA2017
67) Sample          34  1660-CAL5A,185561:1,17498,AR1
      Datafile            030618066
      Method              GEBIOTA2017
68) RearSamp        36  1221-ICV,188142:1,17499,AR122
      Datafile            030618067
      Method              GEBIOTA2017
69) Sample          35  HEXANE
      Datafile            030618068
      Method              GEBIOTA2017
70) RearSamp        37  1242-ICV,185562:1,17499,AR124 OK
      Datafile            030618069
      Method              GEBIOTA2017
71) Sample          36  1221-ICV,188142:1,17498,AR122 OK
      Datafile            030618070
      Method              GEBIOTA2017
72) RearSamp        38  1248-ICV,185563:1,17499,AR124 OK
      Datafile            030618071
      Method              GEBIOTA2017
73) Sample          37  1242-ICV,185562:1,17498,AR124 OK
      Datafile            030618072
      Method              GEBIOTA2017
74) RearSamp        39  1254-ICV,185564:1,17499,AR125 OK
      Datafile            030618073
      Method              GEBIOTA2017
75) Sample          38  1248-ICV,185563:1,17498,AR124 OK
      Datafile            030618074
      Method              GEBIOTA2017
76) RearSamp        40  1660-ICV,185565:1,17499,AR166 OK
      Datafile            030618075
      Method              GEBIOTA2017
77) Sample          39  1254-ICV,185564:1,17498,AR125 OK
      Datafile            030618076
      Method              GEBIOTA2017
78) RearSamp        41  1221-CRDL,188138:1,17499,RL12 OK
      Datafile            030618077
      Method              GEBIOTA2017
79) Sample          40  1660-ICV,185565:1,17498,AR166 OK
      Datafile            030618078
      Method              GEBIOTA2017
80) RearSamp        42  1242-CRDL,188132:1,17499,RL12 OK
      Datafile            030618079
      Method              GEBIOTA2017
81) Sample          41  1221-CRDL,188138:1,17498,RL12 OK
      Datafile            030618080
      Method              GEBIOTA2017
82) RearSamp        43  1248-CRDL,188134:1,17499,RL12 OK
      Datafile            030618081
      Method              GEBIOTA2017
83) Sample          42  1242-CRDL,188132:1,17498,RL12 OK
      Datafile            030618082
      Method              GEBIOTA2017
84) RearSamp        44  1254-CRDL,188135:1,17499,RL12 OK
      Datafile            030618083
      Method              GEBIOTA2017
85) Sample          43  1248-CRDL,188134:1,17498,RL12 OK
      Datafile            030618084
      Method              GEBIOTA2017
86) RearSamp        45  1660-CRDL,188136:1,17499,RL16 OK
      Datafile            030618085
      Method              GEBIOTA2017
87) Sample          44  1254-CRDL,188135:1,17498,RL12 OK
      Datafile            030618086
      Method              GEBIOTA2017
88) RearSamp        46  HEXANE
      Datafile            030618087
      Method              GEBIOTA2017
89) Sample          45  1660-CRDL,188136:1,17498,RL16 OK
      Datafile            030618088
      Method              GEBIOTA2017

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```
     Sequence Name: C:\msdchem\1\sequence\042318.s
           Comment:
          Operator: BLM
         Data Path: C:\MSDCHEM\1\DATA\042318\
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          042318001
     Method            GEBIOTA2017
 2) Sample          2  HEXANE
     Datafile          042318002
     Method            GEBIOTA2017
 3) Sample          3  HEXANE
     Datafile          042318003
     Method            GEBIOTA2017
 4) Sample          4  1232-CCV,185539:1,17498,AR123 OK
     Datafile          042318004
     Method            GEBIOTA2017
 5) Sample          5  1232-CCV,185539:1,17498,AR123 OK
     Datafile          042318005
     Method            GEBIOTA2017
 6) Sample          6  1676397,,17718,BIOTA
     Datafile          042318006
     Method            GEBIOTA2017
 7) Sample          7  1676398,,17718,BIOTA
     Datafile          042318007
     Method            GEBIOTA2017
 8) Sample          8  40157937001 x3,,17718,BIOTA
     Datafile          042318008
     Method            GEBIOTA2017
 9) Sample          9  40157937002 x3,,17718,BIOTA
     Datafile          042318009
     Method            GEBIOTA2017
10) Sample         10  40157937003 x3,,17718,BIOTA RS
     Datafile          042318010
     Method            GEBIOTA2017
11) Sample         11  40157937004 x4,,17718,BIOTA
     Datafile          042318011
     Method            GEBIOTA2017
12) Sample         12  40157937005 x4,,17718,BIOTA
     Datafile          042318012
     Method            GEBIOTA2017
13) Sample         13  40157937006 x4,,17718,BIOTA
     Datafile          042318013
     Method            GEBIOTA2017
14) Sample         14  40157937007 x3,,17718,BIOTA
     Datafile          042318014
     Method            GEBIOTA2017
15) Sample         15  40157937008 x5,,17718,BIOTA
     Datafile          042318015
     Method            GEBIOTA2017
16) Sample         16  1242-CCV,185544:1,17498,AR124 OK
     Datafile          042318016
     Method            GEBIOTA2017
17) Sample         17  1242-CCV,185544:1,17498,AR124 OK
     Datafile          042318017
     Method            GEBIOTA2017
18) Sample         18  40157937009 x3,,17718,BIOTA RS
     Datafile          042318018
     Method            GEBIOTA2017
19) Sample         19  40157937010 x5,,17718,BIOTA
     Datafile          042318019

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```
      Method                GEBIOTA2017
20) Sample          20  40157937011 x2,,17718,BIOTA
      Datafile              042318020
      Method                GEBIOTA2017
21) Sample          21  40157937012 x2,,17718,BIOTA
      Datafile              042318021
      Method                GEBIOTA2017
22) Sample          22  40157937013,,17718,BIOTA RS
      Datafile              042318022
      Method                GEBIOTA2017
23) Sample          23  40157937014 x3,,17718,BIOTA
      Datafile              042318023
      Method                GEBIOTA2017
24) Sample          24  40157937015 x10,,17718,BIOTA
      Datafile              042318024
      Method                GEBIOTA2017
25) Sample          25  40157937016 x5,,17718,BIOTA
      Datafile              042318025
      Method                GEBIOTA2017
26) Sample          26  40157937017,,17718,BIOTA
      Datafile              042318026
      Method                GEBIOTA2017
27) Sample          27  40157937018 x5,,17718,BIOTA
      Datafile              042318027
      Method                GEBIOTA2017
28) Sample          28  1248-CCV,185549:1,17498,AR124 OK
      Datafile              042318028
      Method                GEBIOTA2017
29) Sample          29  1248-CCV,185549:1,17498,AR124 OK
      Datafile              042318029
      Method                GEBIOTA2017
30) Sample          30  40157937019 x15,,17718,BIOTA
      Datafile              042318030
      Method                GEBIOTA2017
31) Sample          31  40157937020 x2,,17718,BIOTA
      Datafile              042318031
      Method                GEBIOTA2017
32) Sample          32  1676399 x2,,17718,BIOTA RS
      Datafile              042318032
      Method                GEBIOTA2017
33) Sample          33  1676400 x2,,17718,BIOTA
      Datafile              042318033
      Method                GEBIOTA2017
34) Sample          34  1254-CCV,185554:1,17498,AR125 OK
      Datafile              042318034
      Method                GEBIOTA2017
35) Sample          35  1254-CCV,185554:1,17498,AR125 OK
      Datafile              042318035
      Method                GEBIOTA2017
```

GCSV 17718 HBN: 286730
Screened: 40GCSI 4/23/18

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Signed 4/24/18 Date

Signed 4/24/18 Date

```
     Sequence Name: C:\msdchem\1\sequence\042418.s
           Comment:
          Operator: BLM
         Data Path: C:\MSDCHEM\1\DATA\042418\
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          042418001
     Method            GEBIOTA2017
 2) Sample          2  HEXANE
     Datafile          042418002
     Method            GEBIOTA2017
 3) Sample          3  HEXANE
     Datafile          042418003
     Method            GEBIOTA2017
 4) Sample          4  1660-CCV,185559:1,17498,AR166 ok
     Datafile          042418004
     Method            GEBIOTA2017
 5) Sample          5  1660-CCV,185559:1,17498,AR166 ok
     Datafile          042418005
     Method            GEBIOTA2017
 6) Sample          6  40157937003 x4,,17718,BIOTA
     Datafile          042418006
     Method            GEBIOTA2017
 7) Sample          7  40157937009 x4,,17718,BIOTA
     Datafile          042418007
     Method            GEBIOTA2017
 8) Sample          8  40157937013 x2,,17718,BIOTA
     Datafile          042418008
     Method            GEBIOTA2017
 9) Sample          9  1676399 x3,,17718,BIOTA
     Datafile          042418009
     Method            GEBIOTA2017
10) Sample         10  1677350,,17723,BIOTA
     Datafile          042418010
     Method            GEBIOTA2017
11) Sample         11  1677351,,17723,BIOTA
     Datafile          042418011
     Method            GEBIOTA2017
12) Sample         12  40158010001 x5,,17723,BIOTA RS
     Datafile          042418012
     Method            GEBIOTA2017
13) Sample         13  40158010002,,17723,BIOTA
     Datafile          042418013
     Method            GEBIOTA2017
14) Sample         14  40158010003,,17723,BIOTA
     Datafile          042418014
     Method            GEBIOTA2017
15) Sample         15  40158010004,,17723,BIOTA
     Datafile          042418015
     Method            GEBIOTA2017
16) Sample         16  1221-CCV,185538:1,17498,AR122 ok
     Datafile          042418016
     Method            GEBIOTA2017
17) Sample         17  1221-CCV,185538:1,17498,AR122 ok
     Datafile          042418017
     Method            GEBIOTA2017
18) Sample         18  40158010005,,17723,BIOTA
     Datafile          042418018
     Method            GEBIOTA2017
19) Sample         19  40158010006,,17723,BIOTA
     Datafile          042418019

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```

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Read and Understood By

Bryan Meyer — Signed — 4/25/18 — Date

Jim O'Connor — Signed — 4-25-18 — Date

```
      Method              GEBIOTA2017
20) Sample          20  40158010007,,17723,BIOTA
      Datafile            042418020
      Method              GEBIOTA2017
21) Sample          21  40158010008,,17723,BIOTA
      Datafile            042418021
      Method              GEBIOTA2017
22) Sample          22  40158010009,,17723,BIOTA
      Datafile            042418022
      Method              GEBIOTA2017
23) Sample          23  40158010010,,17723,BIOTA
      Datafile            042418023
      Method              GEBIOTA2017
24) Sample          24  40158010011,,17723,BIOTA
      Datafile            042418024
      Method              GEBIOTA2017
25) Sample          25  40158010012,,17723,BIOTA
      Datafile            042418025
      Method              GEBIOTA2017
26) Sample          26  40158010013,,17723,BIOTA
      Datafile            042418026
      Method              GEBIOTA2017
27) Sample          27  40158010014,,17723,BIOTA
      Datafile            042418027
      Method              GEBIOTA2017
28) Sample          28  1232-CCV,185539:1,17498,AR123 ok
      Datafile            042418028
      Method              GEBIOTA2017
29) Sample          29  1232-CCV,185539:1,17498,AR123 ok
      Datafile            042418029
      Method              GEBIOTA2017
30) Sample          30  40158010015,,17723,BIOTA
      Datafile            042418030
      Method              GEBIOTA2017
31) Sample          31  40158010016,,17723,BIOTA
      Datafile            042418031
      Method              GEBIOTA2017
32) Sample          32  40158010017,,17723,BIOTA
      Datafile            042418032
      Method              GEBIOTA2017
33) Sample          33  40158010018,,17723,BIOTA
      Datafile            042418033
      Method              GEBIOTA2017
34) Sample          34  40158010019,,17723,BIOTA
      Datafile            042418034
      Method              GEBIOTA2017
35) Sample          35  40158010020,,17723,BIOTA
      Datafile            042418035
      Method              GEBIOTA2017
36) Sample          36  1677352,,17723,BIOTA
      Datafile            042418036
      Method              GEBIOTA2017
37) Sample          37  1677353,,17723,BIOTA
      Datafile            042418037
      Method              GEBIOTA2017
38) Sample          38  1242-CCV,185544:1,17498,AR124 ok
      Datafile            042418038
      Method              GEBIOTA2017
39) Sample          39  1242-CCV,185544:1,17498,AR124 ok
      Datafile            042418039
      Method              GEBIOTA2017
```

GCSV Batch 17723 Screened 40GCSI 4/24/18

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BLM 4/25/18

Continued on Page —

Read and Understood By

Bryan Mayfield — Signed — 4/25/18 — Date

Jim O'Connor — Signed — 4-25-18 — Date

Standard Log Report

Standards Log Information for Standard #194436

WORKING STANDARD

Created By:	ETB	**Volume of Standard:**	4 L	**Lot ID:**	NA
Create Date:	04/20/2018	**Manufacturer:**	N/A	**Part ID:**	N/A
Expire Date:	10/20/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	RGNT498

Notes:

Hexane/Acetone 1:1 By AMC

Compound Name and Concentration for Standard #194436

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

Composed of Information for Standard #194436

Composed of Standard Seq	Volume	Units
192551	2000	mL
190946	2000	mL

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			

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 #190946

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 #190946

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			

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

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

Standard Log Report

Standards Log Information for Standard #185554

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	200 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-CAL3

Notes:

1254 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185554

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1254 (Aroclor 1254)	.5 ug/mL	Tetrachloro-m-xylene (S)	.05 ug/mL

Composed of Information for Standard #185554

Composed of Standard Seq	Volume	Units
185530	1000	uL
185524	1000	uL
184640	198	mL

Standard Log Report

Standards Log Information for Standard #185553

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-CAL2

Notes:

1254 Cal 2 Std @ 0.2 ug/mL

Compound Name and Concentration for Standard #185553

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.02 ug/mL	Hexanes	ug/mL
PCB-1254 (Aroclor 1254)	.2 ug/mL	Tetrachloro-m-xylene (S)	.02 ug/mL

Composed of Information for Standard #185553

Composed of Standard Seq	Volume	Units
185530	200	uL
185524	200	uL
184640	99.6	mL

Standard Log Report

Standards Log Information for Standard #185551

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-CAL5

Notes:

1248 Cal 5 Std @ 1.0 ug/mL

Compound Name and Concentration for Standard #185551

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.15 ug/mL	Hexanes	ug/mL
PCB-1248 (Aroclor 1248)	1 ug/mL	Tetrachloro-m-xylene (S)	.15 ug/mL

Composed of Information for Standard #185551

Composed of Standard Seq	Volume	Units
185529	1	mL
185524	1500	uL
184640	97.5	mL

Standard Log Report

Standards Log Information for Standard #185550

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-CAL4

Notes:

1248 Cal 4 Std @ 0.8 ug/mL

Compound Name and Concentration for Standard #185550

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.1 ug/mL	Hexanes	ug/mL
PCB-1248 (Aroclor 1248)	.8 ug/mL	Tetrachloro-m-xylene (S)	.1 ug/mL

Composed of Information for Standard #185550

Composed of Standard Seq	Volume	Units
185529	800	uL
185524	1	mL
184640	98.2	mL

Standard Log Report

Standards Log Information for Standard #185549

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-CAL3

Notes:

1248 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185549

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1248 (Aroclor 1248)	.5 ug/mL	Tetrachloro-m-xylene (S)	.05 ug/mL

Composed of Information for Standard #185549

Composed of Standard Seq	Volume	Units
185529	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185548

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-CAL2

Notes:

1248 Cal 2 Std @ 0.2 ug/mL

Compound Name and Concentration for Standard #185548

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.02 ug/mL	Hexanes	ug/mL
PCB-1248 (Aroclor 1248)	.2 ug/mL	Tetrachloro-m-xylene (S)	.02 ug/mL

Composed of Information for Standard #185548

Composed of Standard Seq	Volume	Units
185529	200	uL
185524	200	uL
184640	99.6	mL

Standard Log Report

Standards Log Information for Standard #185546

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-CAL5

Notes:

1242 Cal 5 Std @ 1.0 ug/mL

Compound Name and Concentration for Standard #185546

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.15 ug/mL	Hexanes	ug/mL
PCB-1242 (Aroclor 1242)	1 ug/mL	PCB-1242 (Aroclor 1242)	1 ug/mL
PCB-1242 (Aroclor 1242)-6	1 ug/mL	PCB-1242 (Aroclor 1242)-7	1 ug/mL
PCB-1242 (Aroclor 1242)-8	1 ug/mL	PCB-1242 (Aroclor 1242)-9	1 ug/mL
Tetrachloro-m-xylene (S)	.15 ug/mL		

Composed of Information for Standard #185546

Composed of Standard Seq	Volume	Units
185528	1000	uL
185524	1500	uL
184640	97.5	mL

Standard Log Report

Standards Log Information for Standard #185545

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-CAL4

Notes:

1242 Cal 4 Std @ 0.8 ug/mL

Compound Name and Concentration for Standard #185545

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.1 ug/mL	Hexanes	ug/mL
PCB-1242 (Aroclor 1242)	.8 ug/mL	PCB-1242 (Aroclor 1242)	.8 ug/mL
PCB-1242 (Aroclor 1242)-6	.8 ug/mL	PCB-1242 (Aroclor 1242)-7	.8 ug/mL
PCB-1242 (Aroclor 1242)-8	.8 ug/mL	PCB-1242 (Aroclor 1242)-9	.8 ug/mL
Tetrachloro-m-xylene (S)	.1 ug/mL		

Composed of Information for Standard #185545

Composed of Standard Seq	Volume	Units
185528	800	uL
185524	1000	uL
184640	98.2	mL

Standard Log Report

Standards Log Information for Standard #185544

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	200 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-CAL3

Notes:

1242 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185544

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1242 (Aroclor 1242)	.5 ug/mL	PCB-1242 (Aroclor 1242)	.5 ug/mL
PCB-1242 (Aroclor 1242)-6	.5 ug/mL	PCB-1242 (Aroclor 1242)-7	.5 ug/mL
PCB-1242 (Aroclor 1242)-8	.5 ug/mL	PCB-1242 (Aroclor 1242)-9	.5 ug/mL
Tetrachloro-m-xylene (S)	.05 ug/mL		

Composed of Information for Standard #185544

Composed of Standard Seq	Volume	Units
185528	1000	uL
185524	1000	uL
184640	198	mL

Standard Log Report

Standards Log Information for Standard #185543

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-CAL2

Notes:

1242 Cal 2 Std @ 0.2 ug/mL

Compound Name and Concentration for Standard #185543

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.02 ug/mL	Hexanes	ug/mL
PCB-1242 (Aroclor 1242)	.2 ug/mL	PCB-1242 (Aroclor 1242)	.2 ug/mL
PCB-1242 (Aroclor 1242)-6	.2 ug/mL	PCB-1242 (Aroclor 1242)-7	.2 ug/mL
PCB-1242 (Aroclor 1242)-8	.2 ug/mL	PCB-1242 (Aroclor 1242)-9	.2 ug/mL
Tetrachloro-m-xylene (S)	.02 ug/mL		

Composed of Information for Standard #185543

Composed of Standard Seq	Volume	Units
185528	200	uL
185524	200	uL
184640	99.6	mL

Standard Log Report

Standards Log Information for Standard #185539

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1232-CAL3

Notes:

1232 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185539

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1232 (Aroclor 1232)	.5 ug/mL	Tetrachloro-m-xylene (S)	.05 ug/mL

Composed of Information for Standard #185539

Composed of Standard Seq	Volume	Units
185527	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185538

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1221-CAL3

Notes:

1221 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185538

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1221 (Aroclor 1221)	.5 ug/mL	PCB-1221 (Aroclor 1221)-1	.5 ug/mL
PCB-1221 (Aroclor 1221)-2	.5 ug/mL	PCB-1221 (Aroclor 1221)-3	.5 ug/mL
PCB-1221 (Aroclor 1221)-4	.5 ug/mL	PCB-1232 (Aroclor 1232)-5	.5 ug/mL
Tetrachloro-m-xylene (S)	.05 ug/mL		

Composed of Information for Standard #185538

Composed of Standard Seq	Volume	Units
185526	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185537

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	08/09/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-STK

Notes:

1660 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185537

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1016 (Aroclor 1016)	100 ug/mL
PCB-1260 (Aroclor 1260)	100 ug/mL		

Composed of Information for Standard #185537

Composed of Standard Seq	Volume	Units
184640	9	mL
175600	1	mL

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

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		

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

Standard Log Report

Standards Log Information for Standard #179368

STOCK STANDARD

Created By:	MRN	**Volume of Standard:**	4 L	**Lot ID:**	405532
Create Date:	10/02/2017	**Manufacturer:**	Burdick & Jackson	**Part ID:**	010-4
Expire Date:	01/08/2019	**Manufacturer Lot ID:**	DS490	**Standard ID:**	RGNT036

Notes:

Acetone - 4L container

Compound Name and Concentration for Standard #179368

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL		

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

Standard Log Report

Standards Log Information for Standard #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		

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

Standard Log Report

Standards Log Information for Standard #173676

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405385
Create Date:	07/17/2017	**Manufacturer:**	O2Si	**Part ID:**	030276-15
Expire Date:	01/14/2020	**Manufacturer Lot ID:**	296389	**Standard ID:**	1248-STK

Notes:

1248 ICV STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173676

Compound Name	Concentration	Compound Name	Concentration
PCB-1248 (Aroclor 1248)	1000 ug/mL		

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

Standard Log Report

Standards Log Information for Standard #173674

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405384
Create Date:	07/17/2017	**Manufacturer:**	O2Si	**Part ID:**	030275-03
Expire Date:	03/20/2027	**Manufacturer Lot ID:**	302979	**Standard ID:**	1242-STK

Notes:

1242 ICV STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173674

Compound Name	Concentration	Compound Name	Concentration
PCB-1242 (Aroclor 1242)	1000 ug/mL		

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		

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

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		

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

Standard Log Report

Standards Log Information for Standard #81340

INDIVIDUAL STANDARD

Created By:	CAC	**Volume of Standard:**	1 mL	**Lot ID:**	403271
Create Date:	04/22/2014	**Manufacturer:**	O2SI	**Part ID:**	030275-07
Expire Date:	04/15/2024	**Manufacturer Lot ID:**	226760	**Standard ID:**	1242-STK

Notes:

1242 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #81340

Compound Name	Concentration	Compound Name	Concentration
PCB-1242 (Aroclor 1242)	1000 ug/mL		

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

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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)

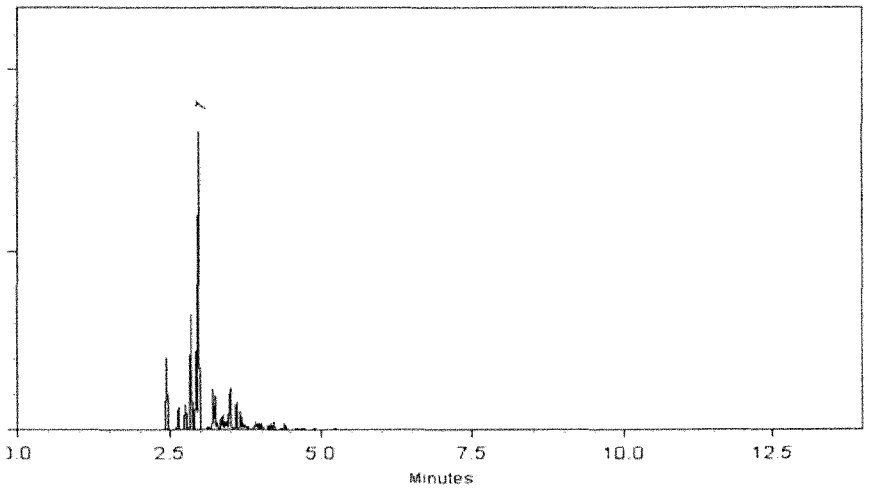
Carrier Gas:
helium-constant pressure 20 psi.

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)

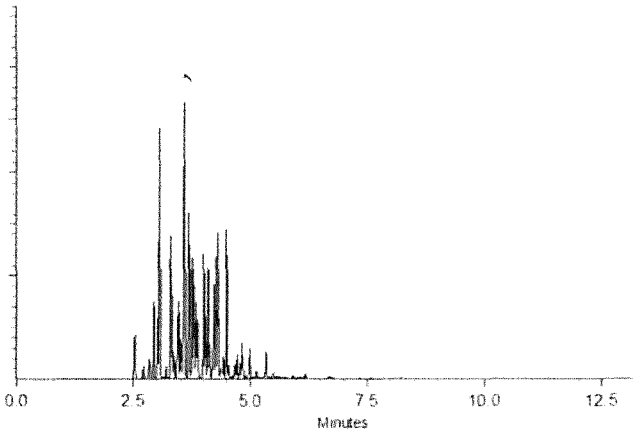
Carrier Gas:
helium-constant pressure 20 psi.

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
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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)

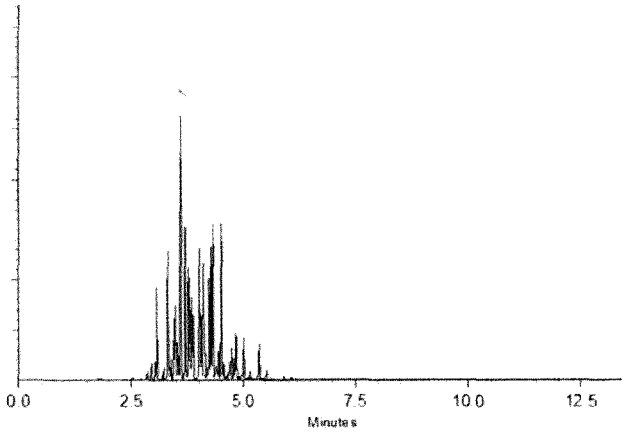
Carrier Gas:
helium-constant pressure 20 psi.

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)

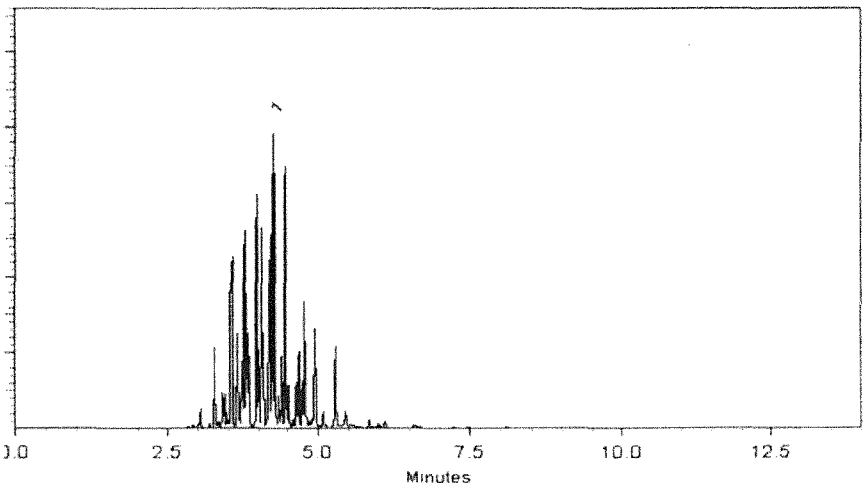
Carrier Gas:
helium-constant pressure 20 psi.

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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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32011 **Lot No.:** A0125350

Description : Aroclor® 1254 Standard

Aroclor® 1254 Standard 1,000 µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2023 **Storage:** 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1254		1,005.6 µg/mL	+/- 5.9014	µg/mL	Gravimetric
	CAS # 11097-69-1	(Lot 124-191-B)		+/- 31.8715	µg/mL	Unstressed
	Purity ----%			+/- 41.6347	µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

405372
REC.07/06/17 BY BDS
Exp. __/__/__ By __

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

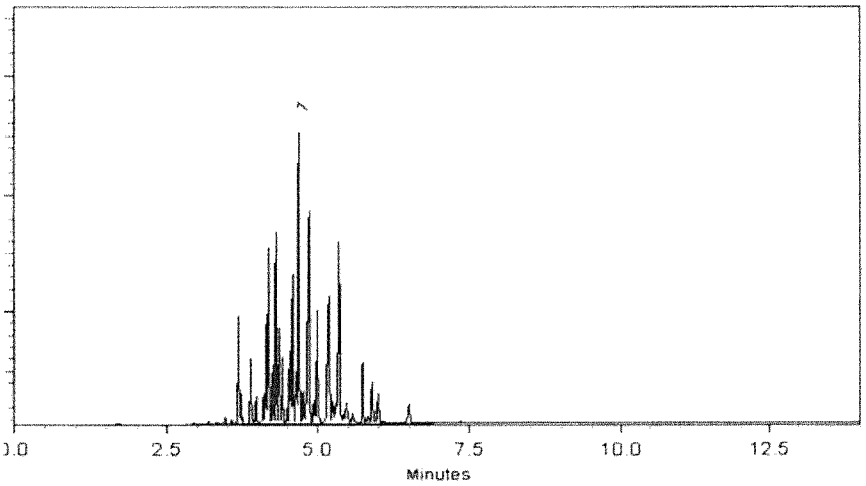
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

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

Jennifer Pollino - Operations Tech-ARM QC **Date Passed:** 13-Mar-2017

Manufactured under Restek's ISO 9001:2008
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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. : 32039 **Lot No.:** A0124547

Description : Aroclor® 1016/1260 Mix

Aroclor® 1016/1260 Mix 1,000 µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2023 **Storage:** 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1016		1,002.0 µg/mL	+/- 5.8392	µg/mL	Gravimetric
	CAS # 12674-11-2	(Lot W-125-04)		+/- 31.7498	µg/mL	Unstressed
	Purity ----%			+/- 41.4799	µg/mL	Stressed
2	Aroclor 1260		1,002.2 µg/mL	+/- 5.8403	µg/mL	Gravimetric
	CAS # 11096-82-5	(Lot W-129-06)		+/- 31.7561	µg/mL	Unstressed
	Purity ----%			+/- 41.4881	µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

405375
REC. 07/06/17 BY BDS
Exp. --/--/-- By --
Open / / By

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

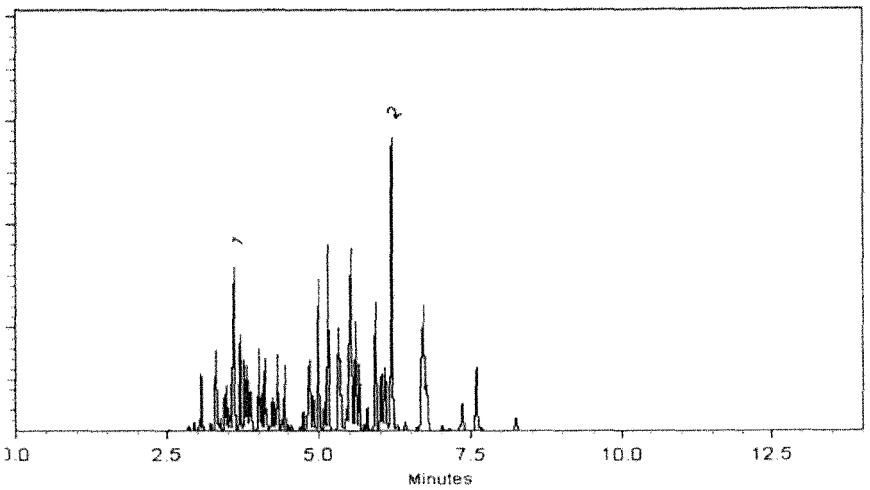
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Cathleen Soltis - Mix Technician

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

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 01-Feb-2017

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

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Date Received: _____

Certificate of Analysis

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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Date Received: _____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
030277-06	302980	≤ Ambient	Hexane	21-Mar-2020	Aroclor 1254 Solution, 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
Aroclor 1254	11097-69-1	100	277.6.4P	1004 +/- 4.32	mg/L

405386
REC. 07/13/17 BY BDS
Exp. __/__/__ By __
Open __/__/__ By

Certified By: _____

Katrina Emelianoff

Manufacture Date 22-Mar-2017

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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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.

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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)

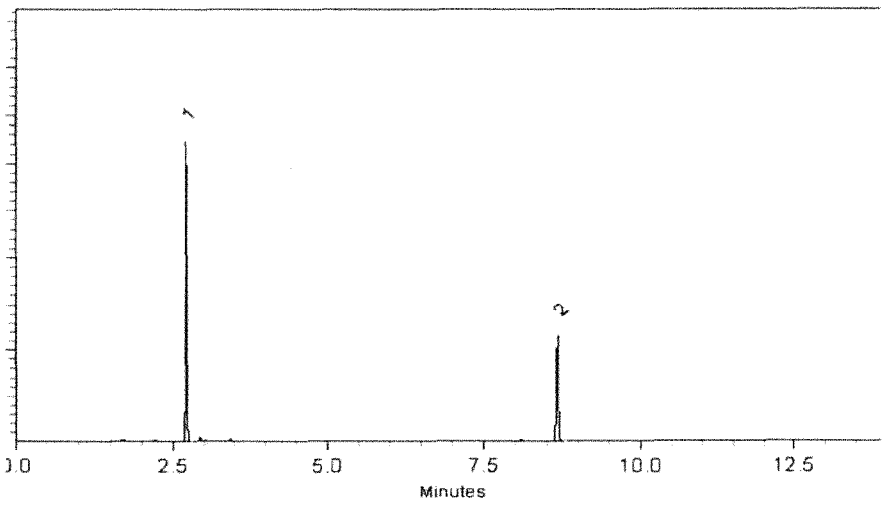
Carrier Gas:
helium-constant pressure 20 psi.

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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Fax: (231) 728-8226
www.lab-honeywell.com

Brand:	Research Chemicals - B&J
Product:	010
Lot No.:	DS490
Production Date:	10-Jul-2017
Best Before:	8-Jan-2019

Acetone, B&J Brand™, >99.9%

for HPLC, GC, pesticide residue analysis and spectrophotometry

Parameter	Specification Min.	Max.	Result	Units
Water by Karl Fischer Titration		0.50	0.31	%
UV Cutoff		330	328	nm
Refractive Index (20°C)	1.3583	1.3589	1.3586	
Residue		1	<0.5	mg/L
GC Analysis (excluding water)	99.9		99.97	%
Electron Capture GC		10	<10	ng/L
UV Absorbance @ 340 nm		0.060	0.0481	AU
UV Absorbance @ 350 nm		0.010	0.0014	AU
UV Absorbance @ 375 nm		0.005	<0.0001	AU
UV Absorbance @ 400 nm		0.005	<0.0001	AU

Honeywell
Quality Control Approval

Janna Dickinson

Muskegon 7/11/2017 LIMS Sample No.: AI07427

405540
REC. 10/09/17 BY MRI
Exp. --/--/-- By --
Open / / By

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Date Received: _____

Certificate of Analysis

Rev 0 **Page 1 of 1**

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
030273-11	316120	≤ Ambient	Hexane	1-Sep-2021	Aroclor 1221 Solution, 1,000 mg/L, 1 ml

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
Aroclor 1221	11104-28-2	100	273.3.2P	1018 +/- 3.01	mg/L

Certified By: _____
Kara Catron

Manufacture Date 24-Jul-2017

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

Sodium Sulfate, Anhydrous, Granular (12-60 Mesh)
ULTRA RESI-ANALYZED®, ACS Reagent
Tested for Hexane Extractable Impurities
Suitable for Use in Pesticide Residue Analysis

405550
REC. 10/16/17 BY MRN
Exp. --/--/-- By --
Gen. / / By

J.T.Baker® | avantor™

Material No.: 3375-09
Batch No.: 0000177456
Manufactured Date: 2017/05/23
Retest Date: 2022/05/22

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
ACS - Assay (Na_2SO_4)	>= 99.0 %	99.2
ACS - Insoluble Matter	<= 0.01 %	< 0.01
ACS - Loss on Ignition	<= 0.5 %	0.1
ACS - pH of 5% Solution at 25°C	5.2 - 9.2	6.0
ACS - Chloride (Cl)	<= 0.001 %	< 0.001
ACS - Phosphate (PO_4)	<= 0.001 %	< 0.001
ACS - Calcium (Ca)	<= 0.01 %	< 0.01
ACS - Iron (Fe)	<= 0.001 %	< 0.001
ACS - Magnesium (Mg)	<= 0.005 %	< 0.005
ACS - Potassium (K)	<= 0.01 %	< 0.01
ACS - Extraction-Concentration Suitability *	Passes Test	PT
ACS - Heavy Metals (as Pb)	<= 5 ppm	< 5
Nitrogen Compounds (as N)	<= 5 ppm	< 5

For Laboratory, Research or Manufacturing Use
* Result obtained on a sample dried at 400°C for one hour (ACS method)

Country of Origin: MX
Packaging Site: Paris Mfg Ctr & DC

ISO
Phillipsburg, NJ 9001:2008, 14001:2004, FSSC 22000
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Deventer, The Netherlands 9001:2008, 14001:2004, 13485:2003
Gliwice, Poland 9001:2008, 13485:2012
Selangor, Malaysia 9001:2008
Dehradun, India, 9001:2008, 14001:2004, 13485:2003
Mumbai, India, 9001:2008
Panoli, India 9001:2008

James T Ethier
Jamie Ethier
Vice President Global Quality

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

Hexanes (95% n-hexane)
ULTRA RESI-ANALYZED
For Organic Residue Analysis

405661
REC. 10/26/17 BY AMC
Exp. --/--/-- By --

J.T.Baker | avantor

Material No.: 9262-8P
Batch No.: 0000183983
Manufactured Date: 2017/09/15
Expiration Date: 2018/12/15

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1
ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL)	<= 5	1
Assay (Total Saturated C_6 Isomers) (by GC, corrected for water)	>= 99.5 %	99.8
Assay (as n-Hexane) (by GC, corrected for water)	>= 95 %	98
Color (APHA)	<= 10	10
Residue after Evaporation	<= 1.0 ppm	0.5
Substances Darkened by H_2SO_4	Passes Test	PT
Water (by KF, coulometric)	<= 0.05 %	0.01

For Laboratory, Research or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC

ISO
Phillipsburg, NJ 9001:2008, 14001:2004, FSSC 22000
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Deventer, The Netherlands 9001:2008, 14001:2004, 13485:2003
Gliwice, Poland 9001:2008, 13485:2012
Selangor, Malaysia 9001:2008
Dehradun, India, 9001:2008, 14001:2004, 13485:2003
Mumbai, India, 9001:2008
Panoli, India 9001:2008

James Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.573.2600
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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)

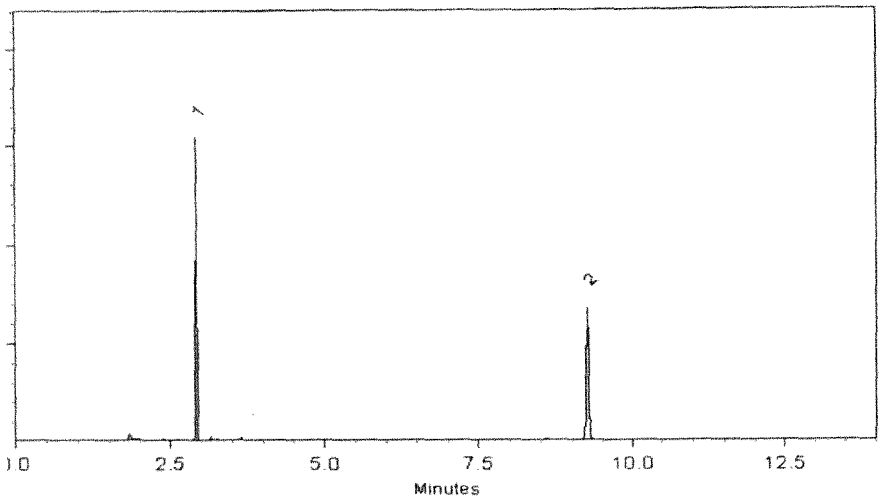
Carrier Gas:
helium-constant pressure 20 psi.

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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Date Received: _____

Certificate of Analysis

Rev 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
020986-02 -02-SS	297165	≤ -10 °C	P/T Methanol	16-Jan-2020	Dichlorofluoromethane (Freon 21) Gas Solution, Second Source, 2000 mg/L, 2 x 0.6 ml

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration
dichlorofluoromethane (Freon 21)	75-43-4	99	986.158.2.2.1S	2008 +/- 20.85 mg/L

405766
REC. 02/26/18 BY SMT
Exp. --/--/-- By --
Open / / By

4388-13

189977 – 189980

Certified By: Madeline Luby

Madeline Luby
Manufacture Date 16-Jan-2017

Follow all storage requirements, keep tightly closed when not in use, and use good laboratory practices when handling.
This Reference Material was manufactured, produced, and/or certified under a quality management system that is accredited to ISO 17034 and ISO/IEC 17025.

Second Source standards are prepared according to NELAC

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetriclly.
The stated uncertainty is the expanded uncertainty with a coverage factor of two to give a 95% confidence level.

Hexanes (95% n-hexane)
ULTRA RESI-ANALYZED
For Organic Residue Analysis

J.T.Baker | avantor

405817
REC.03/28/18 BY AMC
Exp. --/--/-- By --
Open --/--/-- By

Material No.: 9262-8P
Batch No.: 0000191733
Manufactured Date: 2017/12/21
Expiration Date: 2019/03/22

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1
ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL)	<= 5	< 1
Assay (Total Saturated C_6 Isomers) (by GC, corrected for water)	>= 99.5 %	100.0
Assay (as n-Hexane) (by GC, corrected for water)	>= 95 %	99
Color (APHA)	<= 10	10
Residue after Evaporation	<= 1.0 ppm	0.3
Substances Darkened by H_2SO_4	Passes Test	PT
Water (by KF, coulometric)	<= 0.05 %	0.01

For Laboratory, Research or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC

ISO
Phillipsburg, NJ 9001:2008, 14001:2004, FSSC 22000
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Deventer, The Netherlands 9001:2008, 14001:2004, 13485:2003
Gliwice, Poland 9001:2008, 13485:2012
Selangor, Malaysia 9001:2008
Dehradun, India, 9001:2008, 14001:2004, 13485:2003
Mumbai, India, 9001:2008
Panoli, India 9001:2008

James T Ethier
Jamie Ethier
Vice President Global Quality

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SAMPLE NO.

TD5-170828-01-PKSD-10

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157937 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157937001 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	3.6		%	1	04/23/2018 06:26

SAMPLE NO.

TD5-170828-01-PKSD-09

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157937 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157937002 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	3.2		%	1	04/23/2018 06:26

SAMPLE NO.

TD5-170828-01-PKSD-08

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157937 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157937003 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	3.1		%	1	04/23/2018 06:26

SAMPLE NO.

TD5-170828-01-PKSD-07

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157937 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157937004 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	2.2		%	1	04/23/2018 06:26

SAMPLE NO.

TD5-170828-01-PKSD-06

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157937 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157937005 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	2.2		%	1	04/23/2018 06:26

SAMPLE NO.

TD5-170828-01-PKSD-05

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157937 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157937006 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	2.8		%	1	04/23/2018 06:26

SAMPLE NO.

TD5-170828-01-PKSD-04

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157937 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157937007 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	2.5		%	1	04/23/2018 06:26

SAMPLE NO.

TD5-170828-01-PKSD-03

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157937 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157937008 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	2.8		%	1	04/23/2018 06:26

SAMPLE NO.

TD5-170828-01-PKSD-01

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157937 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157937009 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	2.5		%	1	04/23/2018 06:26

SAMPLE NO.

TD4-170828-01-PKSD-05

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157937 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157937010 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	2.6		%	1	04/23/2018 06:26

SAMPLE NO.

TD4-170828-01-PKSD-04

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157937 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157937011 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	2.8		%	1	04/23/2018 06:26

SAMPLE NO.

TD4-170828-01-PKSD-03

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157937 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157937012 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	3.0		%	1	04/23/2018 06:26

SAMPLE NO.

TD4-170828-01-PKSD-02

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157937 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157937013 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	2.7		%	1	04/23/2018 06:26

SAMPLE NO.

TD4-170828-01-PKSD-01

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157937 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157937014 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	3.2		%	1	04/23/2018 06:26

SAMPLE NO.

TD3-170828-01-PKSD-01

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157937 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157937015 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	2.9		%	1	04/23/2018 06:26

SAMPLE NO.

TD2-170828-01-PKSD-05

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157937 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157937016 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	3.6		%	1	04/23/2018 06:26

SAMPLE NO.

TD2-170828-01-PKSD-04

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157937 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157937017 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	2.9		%	1	04/23/2018 06:26

SAMPLE NO.

TD2-170828-01-PKSD-03

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157937 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157937018 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	3.2		%	1	04/23/2018 06:26

SAMPLE NO.

TD1-170828-01-PKSD-01

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157937 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157937019 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	3.2		%	1	04/23/2018 06:26

SAMPLE NO.

TD1-170828-01-GOSH-01

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157937 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157937020 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	4.0		%	1	04/23/2018 06:26

FORM III INORGANIC-1
BLANKS

Lab Name: Pace Analytical - Green Bay SDG No. : 40157937 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	1677354	C
Lipid									<0.030	U

SAMPLE NO.

1677357DUP

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40157937 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Lipid	40	4.0	4.1	3

Prep Log Report

Batch Information: OEXT 286671 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	05/03/2018 12:15				

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	**1677354**	Y	0.005000	04/23/2018 06:26:49		10	5	1	0.937	0.9371	M	1676397
LIPID	BLANK	**1677355**	Y	0.03000	04/23/2018 06:26:49		10	5	1	0.9327	0.9333	M	1676398
LIPID	PS	**40157937001**	Y	3.574	04/23/2018 06:26:49		7.5546	5	1	0.9341	0.9881	M	
LIPID	PS	**40157937002**	Y	3.185	04/23/2018 06:26:49		6.8751	5	1	0.9343	0.9781	M	
LIPID	PS	**40157937003**	Y	3.090	04/23/2018 06:26:49		8.302	5	1	0.9389	0.9902	M	
LIPID	PS	**40157937004**	Y	2.155	04/23/2018 06:26:49		10.0007	5	1	0.9379	0.981	M	
LIPID	PS	**40157937005**	Y	2.246	04/23/2018 06:26:49		10.0175	5	1	0.9324	0.9774	M	
LIPID	PS	**40157937006**	Y	2.829	04/23/2018 06:26:49		10.0036	5	1	0.9333	0.9899	M	
LIPID	PS	**40157937007**	Y	2.542	04/23/2018 06:26:49		9.9924	5	1	0.9334	0.9842	M	
LIPID	PS	**40157937008**	Y	2.781	04/23/2018 06:26:49		10.0338	5	1	0.9355	0.9913	M	
LIPID	PS	**40157937009**	Y	2.504	04/23/2018 06:26:49		9.9831	5	1	0.936	0.986	M	
LIPID	PS	**40157937010**	Y	2.579	04/23/2018 06:26:49		10.0232	5	1	0.9356	0.9873	M	
LIPID	PS	**40157937011**	Y	2.769	04/23/2018 06:26:49		9.987	5	1	0.9319	0.9872	M	
LIPID	PS	**40157937012**	Y	2.952	04/23/2018 06:26:49		10.0097	5	1	0.9388	0.9979	M	
LIPID	PS	**40157937013**	Y	2.738	04/23/2018 06:26:49		7.9251	5	1	0.9326	0.976	M	
LIPID	PS	**40157937014**	Y	3.201	04/23/2018 06:26:49		9.9813	5	1	0.9311	0.995	M	
LIPID	PS	**40157937015**	Y	2.883	04/23/2018 06:26:49		4.7352	5	1	0.9327	0.96	M	
LIPID	PS	**40157937016**	Y	3.620	04/23/2018 06:26:49		9.4055	5	1	0.9365	1.0046	M	
LIPID	PS	**40157937017**	Y	2.942	04/23/2018 06:26:49		7.7499	5	1	0.9343	0.9799	M	

Prep Log Report

40157937

QC Rule	Sample Type	Lab Sample ID	Select	Lipid % Posted	Run Date/Time	ID	Sample Weight (g)	Sample Volume (mL)	Aliquot (mL)	Dish Weight (g)	Dry Weight 1 (g)	Dry Wt Use 1	Sample Notes
LIPID	PS	**40157937018**	Y	3.184	04/23/2018 06:26:49		9.9711	5	1	0.935	0.9985	M	
LIPID	PS	**40157937019**	Y	3.243	04/23/2018 06:26:49		9.9762	5	1	0.935	0.9997	M	
LIPID	RQS	**40157937020**	Y	4.015	04/23/2018 06:26:49		9.9997	5	1	0.9331	1.0134	M	
LIPID	DUP	**1677357**	Y	4.146	04/23/2018 06:26:49		10.0218	5	1	0.9367	1.0198	M	1676400
LIPID	MS	**1683155**	Y	4.064	04/23/2018 06:26:49		10.0381	5	1	.9348	1.0164	M	1676399

40157937

Client Name: GE
Project #: 40157937
Sample Type: Fish
Date/Time Removed to Thaw: 04-17-18
Date/Time Prepped: 04-18-18
Prepped by: CWN + JL + RM
Location Thawed: 40FRG21 / Room Temperature (circle one)

Pace Analytical

Biota Homogenization Log (NYDOH Method)

Logbook: 4413

Sample ID	A) Scales Removed B) Skin Removed (Note A or B Below)	Whole Body/Fillet (WB/F)	Picture of Fish/Weight Taken? (Y/N)	Total Fish Weight (g)	Internal Organs Intact (Y/N)	Gender (Optional) M/F/U[1]	Fillet Weight (g)	Left/Both Fillet[2]?	Picture of Fillet/Weight Taken? (Y/N)	Container Code[3]	Number of Containers Used	Picture of Jars/Weight Taken? (Y/N)	Weight of homogenized Sample (g)	Processing Type (C/G/R/RM)[4]	Sample Comments
1	N/A	WB	Y	8.5	Y	N/A	N/A	Left / Both	N/A	4AG	1	Y	7.8	C	
2				8.0				Left / Both				Y	7.3		
3				9.1				Left / Both				Y	8.7		
4				13.0				Left / Both				Y	12.3		
5				18.4				Left / Both				Y	17.1		
6				22.8				Left / Both				Y	20.7		
7				13.5				Left / Both				Y	12.5		
8				37.3				Left / Both				Y	34.5		
9				23.0				Left / Both				Y	21.7		
10				22.8				Left / Both				Y	21.6		
11				13.0				Left / Both				Y	12.2		
12				12.0				Left / Both				Y	11.1		
13				8.9				Left / Both				Y	8.3		
14				13.7				Left / Both				Y	12.6		
15				5.3				Left / Both				Y	4.8		
16				10.8				Left / Both				Y	9.8		
17				9.80				Left / Both				Y	8.2		
18				26.1				Left / Both				Y	24.0		
19				22.3				Left / Both				Y	21.0		
20	X	X	X	74.0	X	X	X	Left / Both	X	X	X	Y	70.5	X	

(1) M = Male, F = Female, U = Undetermined
(2) If left fillet weight is under 40g, the right fillet in included in the sample weight.

CWN 04-18-18

(3) Note Container Type / Lot # using Codes Below:

Container Code	Container Size	Lot#
2CG	2 oz Clear Glass	
4AG	4 oz Amber Glass	G-7243-01DB
9AG	9 oz Amber Glass	
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

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